www.LEDether.com(international) www.sz-top1.com(Chinese) E-mail:info@ledether.com Te I:(86)020 39967669 Add:401&501, No.26 Guannanyong Industrial Road, Guanchong Village, Shiqi Town, Panyu District,Guangzhou, 511450 China.





MAKE THE WORLD BRIGHTER ETHER PHOTOELECTRIC LIMITED







Construction Machinery & Farm Machinery

-

2022 Catalogue



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	and the mark of history

Department in China Tailored Special for YOU Your Your Production Plant in China Exceptional services and support

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About ETHER

ETHER was postulated substance that carries light in the universe. Ether Photoelectric Ltd has been committed to R&D, manufacturing and exporting state-ofthe-art LED Automotive / Vehicle Lights & lighting solutions since 2005. Ether's product line covers automotive headlights, work lights, signal lights, warning lights, and light bars, etc, according to IATF16949:2016 system.

ETHER R&D - APQP

Numerous successful ODM/OEM projects (including R&D, design and production) were achieved by ETHER for world famous brands from EU, US, Japan, and Australia on long term strategic partnership.

APQP (Advanced Product Quality Planning) has been imported during R&D of each product. Thanks to Powerful R&D team of engineers respectively specialized in Electronics, Optics, Mechanics, production process, etc.

ETHER Approvals & Standards

All of ETHER's products have been designed and manufactured according to the highest standards of automotive lighting industry, such as DOT, SAE, ECE, CCC, R10, CISPR 25 etc, based on the ISO 9001:2008. ETHER's 7" Headlight was the first to be DOT approved from Chinese mainland.

DFMEA (Design Failure Mode and Effects Analysis) and PFMEA (Process Failure Mode and Effects Analysis) have been carried out during the R&D and production stages.

So that both tailored design and mass production are satisfied for ETHER's strategic partners, distributors, agents, as well as OE vehicle manufacturers worldwide.

ETHER Service & Support

Premium services and life-long support are provided in addition to contracted warranty, in terms of upgrading, new tooling, ODM support, etc.

Ether products & services have been well accepted by customers from over 50 countries and regions, such as UK, Japan, FRANCE, GERMANY, AUSTRALIA, USA, etc.

Market Strategy

The core of ETHER's market strategy is about Contract Spirit and Sharing, from which ETHER's high quality products, technologies and innovation are derived.

For many ODM & OEM cases, many specific product models only sold via specific channels of specific partners, distributors, agents. This is simply what we mean by Contract Spirit.

By sharing, ETHER's market achievements have been regularly shared with our partners, customers and employees. ETHER tends to provide butler-like services to our customers. ETHER is the ODM factory that you can trust from Chinese mainland.

BRIEFING



2005 ETHER PHOTOELEC-TRIC LTD was founded.

9

Workshop

2008 First workshop erected.



Sec. 24

ISO

2010

ISO was certificated.



2012

First DOT approval for 7" and 4X6" headlights, also the first DOT of its kind in this industry of CN mainland. The first

SAE, ECE approvals

this year.



>99.98%

2014

Quality rate created new recordWay higher than most competitors in this industry.



2016

Exterior Heavy Duty combo headlights with de-icing function introduced, ETHER was one of the first 10 companies worldwide to do so.







2017

Certified as High-Tech nterprise by Guangzhou Municipal Government.

> 60 NEW lights introduced into market; more patents; ETHER's lights have been well accepted in over 50 countries & regions.

2019



10-min 3 CERTIFICATE Millionital. Infoliated-Distantio Million



2022

Workshop space doubled. Higher productivity and creativity behind each VIP partner, friend, distributor.

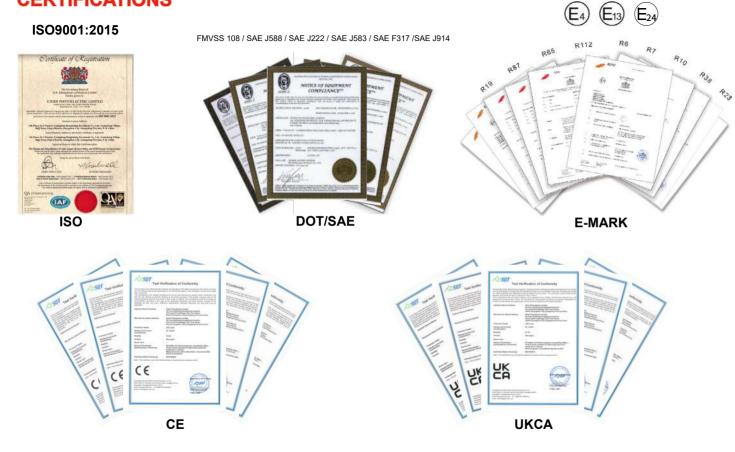
2021

Recognition to automotive parts industry. Strategic, trustworthy.

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CERTIFICATIONS

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IATF 16949:2016

Recognized in automotive parts supply chain ETHER - your trustworthy, strategic OEM/ODM partner

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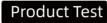
SMT Line



FULLY AUTOMATIC PRINTER: Fully automated solder paste printing, accurate to 0.02mm, scraping tin evenly.



SMT (Pick and Place): ligh speed SMT equipment, fully utomated surface mounting and







WATERPROOF TEST

INTEGRATING SPHERE TEST



LEAD-FREE HOT AIR REFLOW:

8 temperature range of the upper and lower environmental protection reflow soldering. perfect temperature curve, better solder paste curing, high gloss



AOI (AUTOMATIC OPTIC INSPECTION)

AOI automatic optic inspection machine could find out the bad solder ioints quickly and ensure good quality of every piece PCB.



VIBRATION TEST



HIGH AND LOW TEMPERATURE ALTERNATING TEST

High-Precision Optics State-Of-The-Art



SALT SPRAY TEST



DUST PROOF TEST



TRAFFIC AND AUTOMOTIVE PHOTOMETER SYSTEM



EMC TEST

Why ETHER's LED headlights?

Automotive grade LED packaged with PiG(Phosphor in Glass);Improved thermal stability is guaranteed for

LEDs, electronic components, electroplated reflectors, etc; • More endurable performance against UV or high temperature; • High level of EMC, CISPR 25 Class 4/ 5.

Combination Heavy Duty / Snowplow LED headlights

ETHER's own Proprietary De-Icing solutions

LED COMBINATION HEADLIGHT 6-IN-1



Model:	E7111		
Functions, Homologation		ETHER'S Patented De	0 0/
Functions:	High Beam / Low Beam / Turn Light /	De-Icing Tech:	Patented De-icing Modular
	Side DI / Parking	De-icing Power:	30W
Homologation:	R149 / R148 / R10;DOT FMVSS 108	Control Mode:	Automatic Temp. Sensor Switch
Optical & Electric Fe	atures	Heating Temp.:	Constant 60°C Lens
LED Type:	High Beam: 4pcs*15W LED	Electromagnetic Feat	ures
	Low Beam: 45W	EMC Grade:	CISPR 25 Class 3
	Turn Light + Side DI: 30pcs*1W LEDs	Operating Voltage:	10~30VDC
	Parking: 12ps*0.5W LEDs	Connector:	6 pin DT
Color Temp.:	5500-6500K	Mechanical Features	
·	1700K (for turn light& side DI)	Size:	209X183X119 mm
Raw Power:	High Beam: 60W (low beam on at high	Housing Material:	Aluminium Alloy
	beam);	Lens Material:	Anti-UV PC
	Low Beam: 45W	Lens Processing:	Surface Hardened
	Turn Light + Side DI: 30W (30pcs*1w)	PC Brand:	COVESTRO 2407
	Parking: 6W (12ps*0.5w)	Bracket Material:	Stainless Steel
Effective Power:	High Beam: 55W (4pcs*15)(low beam	IP Rate:	IP66, IP6K9K
	on at high beam)	Work Temp:	-40~+50°C
	Low Beam: 45W	So this is Life	
	Turn Light + Side DI: 25W	Life Time:	>30,000H
	Parking: 5W	-	
	-		ighting with LED E7111 ser

11 series. Find yo

KOMATSU

KOMATSU

KOMATSU

KRAMER

KRAMER

KRAMER

KRAMER

LIEBHER

LIEBHER

ATLAS COPCO 3708110535 HAMM 1266985 HELLA 993975051 ATLAS COPCO 3928789 HAMM 1266993 HELLA 993975057 ATLAS COPCO 3928790 HELLA 1EA993975011 HELLA 993975091 ATLAS COPCO 5350246825 HELLA 1EA993975021 HELLA 993975097 ATLAS COPCO 5350246826 HELLA 1EA993975027 HELLA 993975137 ATLAS COPCO 5350246882 HELLA 1EA993975028 HELLA 993975147 ATLAS COPCO 5350246883 HELLA 1EA993975051 IVECO 00070524 ATLAS COPCO 5350246884 HELLA 1EA993975057 IVECO 00070525 ATLAS COPCO 5350246885 HELLA 1EA993975091 IVECO R00070524 ATLAS COPCO 535024690 HELLA 1EA993975097 IVECO R0007052 ATLAS COPCO 535024691 HELLA 1EA993975101 JOHN DEERE AZ54037 ATLAS COPCO 535024692 HELLA 993975011 JOHN DEERE AZ54038 ATLAS COPCO 535024693 HELLA 993975017 JOHN DEERE AZ55077 JOHN DEERE AZ56237 OE E4649 CLAAS 05836800 HELLA 993975021 CLAAS 05836810 HELLA 993975027 KOMATSU 42T0623150 OE E4650 CLAAS 05836820 HELLA 993975028 KOMATSU 42T0623160 OE E4947

J 42U0613100	OE MODUL120	VOLVO 11170059
J 42U0613110	SPERRY NEW HOLLAND 368055A1	VOLVO 11170060
J 42W0633160	SPERRY NEW HOLLAND 368056A1	VOLVO 11881088
0003328601	TEREX 3708110535	VOLVO 11882263
0003328701	TEREX 3928789 TEREX 3928790	VOLVO 11882265
1000051956	TEREX 3928790	VOLVO 20002808249
1000051957	TEREX 5350246825	VOLVO 20002808251
R 607149208	TEREX 5350246826	VOLVO 2808249
R 607149308	TEREX 5350246882	VOLVO 2808250
R 6905829	TEREX 5350246883	VOLVO 2808251
R 6905830	TEREX 5350246884	VOLVO 2808252
R 7026612	TEREX 5350246885	VOLVO E11882263
R 7026613	TEREX 535024690	VOLVO VOE11882263
5	TEREX 535024691	VOLVO ZM2808249
5	TEREX 535024692	
'1	TEREX 535024693	

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Most cost effective combo headlight for OEM and After-market

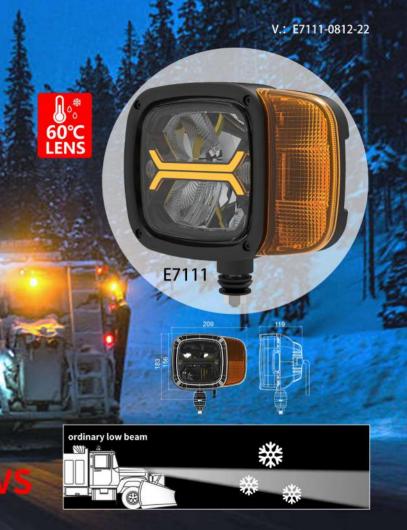
- Rapid de-icing with constant 60°C lens Dark exterior design
- Deeper & wider low beam illumination Better light penetration with 3
- even under heavy snow
- 100% compatible with OE halogen lights
- no hyper flashing, nor flickering issue
- LED failure detection on dashboard
- Your most cost effective heavy duty combo light from ETHER

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LED COMBINATION HEADLIGHT 7-IN-1



PROJECT PHASE Concept Design

Development Sample Stage Mass Production







Nouei	. ,
Functions, Homologa	ation
Functions:	Low Beam, Corner Low Beam, Hig
	Beam,
	Turn Light, Side DI, Parking, De-icing
	ECE R112, R6, R7, R10
Homologation	DOT FMVSS108/SAE J914/SAE J58
	SAE J222
Optical & Electric Fea	atures
LED Type:	OSRAM OEM Vehicle Level LEDs
Emitting color:	White and Amber (Turn)
Color Temp:	5700K (White)
Energy Consumption	Low Beam 35W; High Beam 21W
(tested):	Corner Low Beam: 11W;
	Turn Light & Side DI: 2.7W;
	Parking: 0.5W
Current Draw @ 12V:	Low Beam 291A; High Beam 1.75A;
(tested)	Corner Low Beam: 0.92A
	Turn Light & Side DI: 0.225A
	Parking Light: 0.04A
Effective Lumen:	Low Beam: 1040LM (OSRAM LED)
	High Beam: 1160LM (5530 LED)
	Corner Low Beam: 560LM
	Turn Light & Side DI: 210LM; (Amber)
	Parking 24LM

Model

E7107 (Professional Version)

)	I	
	De-icing features	
,	De-Icing Tech:	ETHER's patented Replaceable Modular
	De-icing Power:	60W
e-icing	Control Mode:	Automatic temp. sensor switch
	Electromagnetic Fe	atures
SAE J588/	EMC Grade:	CISPR 25 Class 5
	Operating Voltage:	10~30VDC
	Connector:	6 pin DT connector
EDs	Mechanical Feature	s
I	Size:	230X158X116mm
	Housing Material:	Aluminium Alloy
1W	Lens Material:	Anti-UV PC
	Lens Process:	Surface Hardened
	PC Brand:	COVESTRO 2407
	Bracket Material:	Tough 304 Stainless Steel
1.75A;	Anti-Corrosion:	ISO 9227 240H
	Vibration Level:	15.3Grms
	IP Rate:	IP66, IP6K9K
	Work Temp:	-40~+50°C
LED)	So this is Life	
D)	Life Time:	>30,000h

ETHER • IATF16949:2016 Certificated Vour strategic OEM/ODM auto lighting partner

Fashionable dark Style & Glowing Position Light Zero interference, Zero noise; Customize your EMC level: CISPR 25 Class 5.

Corner low beam no more dark corner Zero glare De-icing optional

7 in 1 **E7107** Professional performant De-icing optional

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=



Turn on the dark CORNER if needed. More daylight illumination; More productivity; Increased safety; 0 glare.

No dark corner



Dark corner

Corner Low Beam OFF

LED COMBINATION HEADLIGHT 6-IN-1



E7106/E7106 (De-icing)	1
on	ETHER
Low Beam, High Beam,	De-Icin
Turn,Side DI, Parking	De-icir
De-icing	Contro
ECE R112, R6, R7, R10	Electro
DOT FMVSS 108/SAE J914/	EMC G
SAE J588/ SAE J222	Operat
ires	Conne
OSRAM OEM VEHICLE LEDs	Mecha
White	Size:
Amber (Turn)	Housir
White: 5700K-6500k	Lens N
Amber:1600-1800K (Turn)	Lens P
Low Beam: 15W	PC Bra
High Beam: 15W	Bracke
Turn Light + Side DI: 2W	IP Rate
Parking: 0.4W	Work T
Low Beam: 1.25A;	So this
High Beam: 1.25A	Life Tir
Turn Light + Side DI: 0.17A	
Parking: 0.03A	
	Low Beam, High Beam, Turn,Side DI, Parking De-icing ECE R112, R6, R7, R10 DOT FMVSS 108/SAE J914/ SAE J588/ SAE J222 Tres OSRAM OEM VEHICLE LEDs White Amber (Turn) White: 5700K-6500k Amber:1600-1800K (Turn) Low Beam: 15W High Beam: 15W Turn Light + Side DI: 2W Parking: 0.4W Low Beam: 1.25A; High Beam: 1.25A

De-Icing Tech:	Patented Replaceable Modular
De-icing Power:	50W
Control Mode:	Automatic temp. sensor switch
Electromagnetic Featu	ires
EMC Grade:	CISPR 25 Class 5
Operating Voltage:	10~30VDC
Connector:	6 pin DT /AMP /Cable (optional)
Mechanical Features	
Size:	232X164X115mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Bracket Material:	Stainless Steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30.000H

ETHER • IATF16949:2016 Certificated

fashionable dark style & glowing position light Zero interference, Zero noise; Customize your EMC level: CISPR 25 Class 5.

Professional OEM design De-icing optional

6 in 1 **E7106** Professional performance



LED COMBINATION HEADLIGHT 8-IN-1



Model:	E1320	
Functions, Homologati	ion	
Functions:	Low Beam; High Beam; Corner Low	
	Beam; De-icing;Auxiliary Low Beam;	
	Parking; Turn Light; Side DI;	
	ECE R112, R6, R7, R10	
Homologations:	DOT J1383/ J914/ J588	
	SAE J582/ J222	
Optical & Electric Feat	ures	
LED Type:	OSRAM OEM Vehicle Level LEDs	
Emitting color:	White and Amber (Turn)	
Color Temp:	5700K (White)	
Energy Consumption	High Beam: 24.5W	
	Corner Low Beam: 10.5W	
	Auxiliary Low Beam: 4.5W	
	Parking: 0.5W	
	Turn Light: 5W	
	Side DI: 2.5W	
Current Draw @ 12V:	Low Beam: 2.95A	
	High Beam: 2.04A	
	Corner Low Beam: 0.87A	
	Auxiliary Low Beam: 0.375A	
	Parking: 0.04A	
	Turn Light: 0.417A	
	Sie DI: 0.208A	
Raw Lumen:	High Beam: 5750LM	
	Corner Low Beam: 1200LM	
	Auxiliary Low Beam: 1550LM	
	Parking: 187LM	
	Turn Light: 540LM	
	Side DI: 270LM	

effective Lumen:	Low Beam: 1008.6LM
	High Beam: 1196LM
	Corner Low Beam: 520.7LM
	Auxiliary Low Beam: 570LM
	Parking: 18.3LM
	Turn Light: 210LM
	Side DI: 104LM
ETHER'S Patented D	e-icing Technology
De-Icing Tech:	Heating Glass
De-icing Power:	20W
Control Mode:	Temp. Sensor @ constant temp.
Heating Temp.:	Constant 45°C lens
Electromagnetic Featu	ires
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10~30VDC
Connector:	6 pin DT connector
Mechanical Features	
Size:	212X163.5X104mm
Housing Material:	Aluminium Alloy
Lens Material:	Tempered Glass
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

ETHER



8 Functions

1. High Beam 2. Low Beam 3. Corner Low Beam 4. Auxiliary Low Beam 5. Parking Light (Position) 6. Turn Light (DI) 7. Side DI 8. De-Icing

Photo			
Model options	E1320A	E1320B	E1320
De-Icing: Control Mode:	NONE	ETHER's Hot Glass Design Automatic temp. sensor switch	ETHER's Hot Glass Design Automatic temp. sensor switch
Functions Your Choice ?	Park	De-ice High Beam High Beam Park DRL	De-ice De-ice High Beam High Beam Turn Perk DE DRL DRL Side DI
Road illumination	Super bright Low Beam	Super bright Low Beam	Super bright Low Beam + Corner Low Beam No dark corner

A	TLAS COPCO 3708110535	HELLA 993975051	OE MODUL120
A	TLAS COPCO 3928789	HELLA 993975057	SPERRY NEW HOLLAND
A	TLAS COPCO 3928790	HELLA 993975091	SPERRY NEW HOLLAND
A	TLAS COPCO 5350246825	HELLA 993975097	TEREX 3708110535
A	TLAS COPCO 5350246826	HELLA 993975137	TEREX 3928789
A	TLAS COPCO 5350246882	HELLA 993975147	TEREX 3928790
A	TLAS COPCO 5350246883	IVECO 00070524	TEREX 5350246825
A	TLAS COPCO 5350246884	IVECO 00070525	TEREX 5350246826
A	TLAS COPCO 5350246885	IVECO R00070524	TEREX 5350246882
A	TLAS COPCO 535024690	IVECO R00070525	TEREX 5350246883
A	TLAS COPCO 535024691	JOHN DEERE AZ54037	TEREX 5350246884
A	TLAS COPCO 535024692	JOHN DEERE AZ54038	TEREX 5350246885
A	TLAS COPCO 535024693	JOHN DEERE AZ55077	TEREX 535024690
C	LAAS 05836800	JOHN DEERE AZ56237	TEREX 535024691
C	LAAS 05836810	KOMATSU 42T0623150	TEREX 535024692
C	LAAS 05836820	KOMATSU 42T0623160	TEREX 535024693
Н	AMM 1266985	KOMATSU 42U0613100	VOLVO 11170059
Н	AMM 1266993	KOMATSU 42U0613110	VOLVO 11170060
Н	ELLA 1EA993975011	KOMATSU 42W0633160	VOLVO 11881088
Н	ELLA 1EA993975021	KRAMER 0003328601	VOLVO 11882263
Н	ELLA 1EA993975027	KRAMER 0003328701	VOLVO 11882265
Н	ELLA 1EA993975028	KRAMER 1000051956	VOLVO 20002808249
Н	ELLA 1EA993975051	KRAMER 1000051957	VOLVO 20002808251
Н	ELLA 1EA993975057	LIEBHERR 607149208	VOLVO 2808249
н	ELLA 1EA993975091	LIEBHERR 607149308	VOLVO 2808250
Н	ELLA 1EA993975097	LIEBHERR 6905829	VOLVO 2808251
Н	ELLA 1EA993975101	LIEBHERR 6905830	VOLVO 2808252
Н	ELLA 993975011	LIEBHERR 7026612	VOLVO E11882263
Н	ELLA 993975017	LIEBHERR 7026613	VOLVO VOE11882263
Н	ELLA 993975021	OE E46495	VOLVO ZM2808249
н	ELLA 993975027	OE E46505	
н	ELLA 993975028	OE E49471	

MODUL120 PERRY NEW HOLLAND 368055A1 PERRY NEW HOLLAND 368056A1 REX 3708110535 REX 3928789 REX 3928790 REX 5350246825 REX 5350246826 REX 5350246882

Compatible with Originals



OE Halogen

Now LED E1320

Find your OE code, or part number, and replace with LED E1320. Simply replace it.



PROJECT PHASE:









neaulign i	
Model:	E-DHL-90
Functions, Homologat	ion
Functions:	Low Beam, High Be
Homologations:	ECE R112, R10
	DOT FMVSS 108,
Optical & Electric Feat	ures
LED Type:	OSRAM OEM Vehic
Color Temp:	5700K
Power:	Low Beam: 14W
	High Beam: 20W
Current Draw @ 12V:	Low Beam: 1.16A;
	High Beam: 1.66A
Electromagnetic Featu	res
EMC Grade:	CISPR 25 Class 4
Operating Voltage:	10V~30V
Connector:	HB4/9006 /AMP 2 F
Mechanical Features	
Size:	130X107X164mm

Housing Material:

Lens Processing:

Lens Material:

PC Brand:

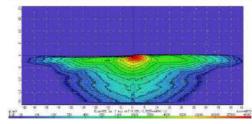
Work Temp:

Life Time:

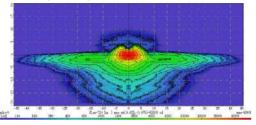
So this is Life

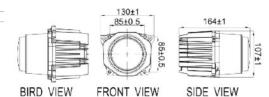
IP Rate:

Low beam light distribution

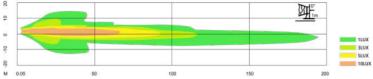


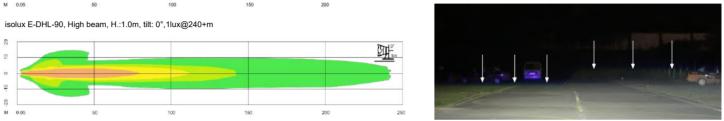
Glare free high beam light distribution





isolux E-DHL-90, Low beam, H.:1.0m, tilt: 0°,1lux@140+m





Why Glare free high beam? 1.No glare to front vehicle. 2. Higher level of safety. 3.Better focus for driver 4.Better visibility of road side.



Sharp cut-off line.

Low Beam, High Beam

OSRAM OEM Vehicle LEDs

Surface Hardened

COVESTRO 2407

IP66, IP6K9K

-40~+50°C

>30.000H

Aluminum

Anti-UV PC

HB4/9006 /AMP 2 Pin/ H4

1.Sharp cut-off line.

- 2.Legal in compliant with ECE R112, DOT FMVSS108
- 3.Daylight road illumination

WWW.LEDETHER.COM

	-0		90N		
9	0	PROJECT PHASE: Concept Design Development Sample Stage Mass Production		(C) new	
Model:	E1339	Mass Production	Model:	E1339-2	Mode
Functions, Homologa	tion		Functions, Homologa	tion	Funct
Functions	LED Headlight, Lo	ow Beam, DRL	Functions	Low Beam only	Funct
Homologation:	ECE R112, R10		Homologation:	ECE R112, R10	Homo
Optical & Electric Fea	tures		Optical & Electric Fea	tures	Optica
LED Type:	1 pcs 15W OEM	Vehicle LED	LED Type:	1 pcs 15W OEM Vehicle LED	LED 1
Emitting Color:	White		Emitting Color:	White	Emitti
Color Temp:	Low Beam: 6000	<	Color Temp:	Low Beam: 6000K	Color
Raw Power:	Low Beam:15W		Raw Power:	Low Beam:15W	Effect
Effective Power:	Low Beam: 14W		Effective Power:	Low Beam: 14W	Curre
Current Draw@12V	Low Beam: 1.17A		Current Draw@12V	Low Beam: 1.17A	Illumi
Illumination:	1 Lux@130+M		Illumination:	1 Lux@130+M	Electr
Electromagnetic Feat	ures		Electromagnetic Feat	ures	EMC
EMC Grade:	CISPR 25 Class 5	5	EMC Grade:	CISPR 25 Class 5	Opera
Operating Voltage:	10V~30V		Operating Voltage:	10V~30V	Conne
Connector:	Open cable		Connector:	Open cable	Mecha
Mechanical Features			Mechanical Features		Size:
Size:	118X118X112.8m	m	Size:	118X118X112.8mm	Housi
Housing Material:	Aluminum		Housing Material:	Aluminum	Lens
Lens Material	Anti-UV PC		Lens Material	Anti-UV PC	Lens
Lens Processing:	Surface Hardenee	b	Lens Processing:	Surface Hardened	PC Br
PC Brand:	COVESTRO 240	7	PC Brand:	COVESTRO 2407	Moun
Mount:	4 tabs		Mount:	4 tabs	IP Rat
IP Rate:	IP66,IP6K9K		IP Rate:	IP66,IP6K9K	Work
Work Temp:	-40~+50°C		Work Temp:	-40~+50°C	So thi
So this is Life			So this is Life		Life T
Life Time:	>30,000H		Life Time:	>30,000H	

a state	(ALA)
	AT
Contraction of the second seco	
_	0
Model:	E1341
Functions, Homologation	on
Functions	High Beam
Homologation:	ECE R112, R10
Optical & Electric Featu	res
LED Type:	High Beam: 9 pcs 3W LEDs
Emitting Color	White
Color Temp:	5000K
Effective Power:	30W Effective
Current Draw @12V	2.5A Effective
Illumination:	1Lux@281m
Electromagnetic Feature	es
EMC Grade:	CISPR 25 Class 4
Operating Voltage:	10V~30V
Connector:	Open cable
Mechanical Features	
Size:	118X118X112.8mm
Housing Material:	Aluminum
Lens Material	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	4 tabs
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



design

Compatible with original halogen ones



Reference OE Code:

56933;116167;147243;00166410;178066;251150;253948;417288;600008;0605400;1017245;1266169;05751178;11117172;200601068;45604150000; 0417288-00;0879951-00;1 002 214 0;1053 94 2;1603.15.38;224 171;4 287 246 M1;47056439.;6950 1644;77 00 066 386;77 00 066 387;8424/01117;A CW1 276 090;G 931 901 020 140;G 931 901 020 141;G931 900 020 140;G931 901 020 141;G931.900.020.140;KSP 941 751A; NA156;SMME31640S8;10022140;1017245;1053942;11117172;116167;1266169;147243;16031538;166410;178066;200601068;224171;251150; 253948;417288;41728800;4287246M1;45604150000;47056439;56933;5751178;600008;605400;69501644;7700066386;7700066387;842401117;8799 5100;ACW1276090;G931900020140;G931901020140;G931901020141;KSP941751A;NA156;SMME31640S8.

Products subject to update, change or modify without notice.

90 series-0903-22

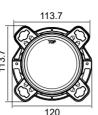
Classic 96mm headlight series

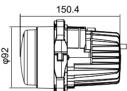
90MM LED HEADLIGHT WITH LOAD RESISTORS



R10 R149 ECE Class 3 EMC Class

Model:	E1339L-A	
Functions, Homologa	tion	-
Functions	Low Beam	_
Homologation:	R149,R10	
Optical & Electric Fea	tures	- r
LED Type:	1 pcs 45W OEM Vehicle LED	- 13 7
Emitting Color:	White	· ·
Color Temp:	5700-7000k	
Raw Power:	40W	
Effective Power:	45W	
Current Draw@12V	Low Beam: 3.75A	
Electromagnetic Feat	ures	-
EMC Grade:	CISPR 25 Class 3	1
Operating Voltage:	10V~30V	
Connector:	H7+Cable	φ92
Mechanical Features		
Size:	113.7X113.7X150.4mm	
Housing Material:	Aluminum	
Lens Material	Anti-UV PC	
Lens Processing:	Surface Hardened	
PC Brand:	COVESTRO 2407	
Mount:	4 tabs	
IP Rate:	IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		_
Life Time:	>30,000H	





90MM LED HEADLIGHT WITH LOAD RESISTORS



R149 Class 3 EMC CLSPR 25 IP6K9K

R10

	woder:	L1333		
	Functions, Homologation			
	Functions	Low Be		
	Homologation:	R149,F		
	Optical & Electric Fea	tures		
	LED Type:	1 pcs 4		
	Emitting Color:	White		
	Color Temp:	5700-7		
i	Raw Power:	40W		
	Effective Power:	45W		
	Current Draw@12V	Low Be		
	Electromagnetic Features			
	EMC Grade:	CISPR		
Z	Operating Voltage:	10V~3		
	Connector:	H7+Ca		
F	Mechanical Features			
	Size:	103X1		
	Housing Material:	Alumin		
:	Lens Material	Anti-U		
	Lens Processing:	Surfac		
	PC Brand:	COVE		
	Mount:	4 tabs		
	IP Rate:	IP6K9		
_	Work Temp:	-40~+5		
	So this is Life			
	Life Time:	>30,00		

Model:

Development

Sample Stage

Mass Production

E1339L-B

w Beam

49.R10

cs 45W OEM Vehicle LED 00-7000k

w Beam: 3.75A

SPR 25 Class 3

√~30V

+Cable

3X103X150.4mm

Iminum

ti-UV PC

rface Hardened

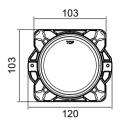
VESTRO 2407

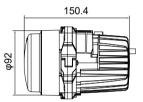
abs

K9K

~+50°C

D.000H





90MM LED HEADLIGHT WITH LOAD RESISTORS



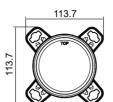


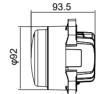


Functions, Homologa	tion
Functions	High Beam
Homologation:	R149,R10
Optical & Electric Fea	tures
LED Type:	9 pcs 6W OEM Vehicle LED
Emitting Color:	White
Color Temp:	5700-7000k
Raw Power:	54W
Effective Power:	45W
Current Draw@12V	Low Beam: 3.75A
Electromagnetic Feat	ures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	9005+Cable
Mechanical Features	
Size:	113.7X113.7X93.5mm
Housing Material:	Aluminum
Lens Material	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	4 tabs
IP Rate:	IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

E1341LT-A

Model:









_				Development
5				Sample Stage
1				Mass Production
2.000				
0	R149	Class 3 EMC		
	ECE	CISPR 25	IP6K9K	

EC

Functions, Homologati	on
Functions	Hi
Homologation:	R
Optical & Electric Feat	ures
LED Type:	9
Emitting Color:	W
Color Temp:	57
Raw Power:	54
Effective Power:	45
Current Draw@12V	Lo
Electromagnetic Featu	res
EMC Grade:	С
Operating Voltage:	10
Connector:	90
Mechanical Features	
Size:	10
Housing Material:	AI
Lens Material	A
Lens Processing:	S
PC Brand:	С
Mount:	4
IP Rate:	IP
Work Temp:	-4
So this is Life	
Life Time:	>3

Model:

PROJECT PHASE:

Concept Design

Development

Sample Stage

Mass Production

E1341LT-B

High Beam

R149,R10

eatures

9 pcs 6W OEM Vehicle LED

- White
- 5700-7000k
- 54W
- 45W
- Low Beam: 3.75A

atures

CISPR 25 Class 3

10V~30V

9005+Cable

103X103X93mm

Aluminum

Anti-UV PC

Surface Hardened

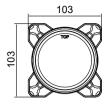
COVESTRO 2407

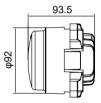
4 tabs

IP6K9K

-40~+50°C

>30.000H





90MM LED HEADLIGHT WITH LOAD RESISTORS



Model:	E1339HBL			
Functions, Homologation				
Functions	High Beam Low Beam			
Homologation:	R149,R10			
Optical & Electric Featu	res			
LED Type:	10 pcs LEDs			
Emitting Color:	White			
Color Temp:	5700-7000k			
Raw Power:	High Beam:54W			
	Low Beam:40W			
Effective Power:	High Beam:45W			
	Low Beam:45W			
Raw Lumens:	High Beam:3375LM			
	Low Beam:3795LM			
Effective Lumens:	High Beam:2700LM			
	Low Beam:1900LM			
Electromagnetic Featur	es			
EMC Grade:	CISPR 25 Class 3			
Operating Voltage:	10V~30V			
Connector:	High Beam:9005+Cable			
	Low Beam:H7+Cable			
Mechanical Features				
Size:	115X108X150.4mm			
Housing Material:	Aluminum			
Lens Material	Anti-UV PC			
Lens Processing:	Surface Hardened			
PC Brand:	COVESTRO 2407			
Mount:	4 tabs			
IP Rate:	IP6K9K			
Work Temp:	-40~+50°C			
So this is Life				
Life Time:	>30,000H			

ETHER · IATF16949:2016 Certificated

Gen. II. 90mm LED headlights, Load resistor built-in for all functions

hyper flash issue,OEM mounting design ble with original LED or halogen version. Load resistors for HB/LB and r of 90mm headlight

1. LED failure detection guarantees

2. R112,R10 compliant and high level EMC

3. High brightness LED technology, 1 pcs LED equal

Lens surface hardening options:

Not hardened

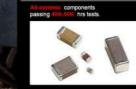
to 3X halogen headlights

4. Zero radio interference: zero noise: zero camera signal interference



3795 LM





Color rendering(CRI) options



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37





E1339HBL



load resistor built-in no hyper flash

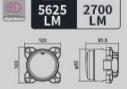




E1339L-B



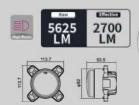




Raw



E1341LT-B



E1341LT-A

V.:E-90-0905-22

MOST POWERFUL 90MM LED HEADLIGHT,



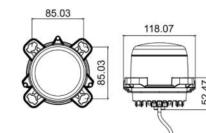
ED High Beam	
	P=
Class	

Class 4	(E4)
CISPR 25	E-Mark

	Model:	E1349		
	Functions, Homologation			
	Beam Pattern	Low Beam, High Beam,		
		Position, Turn (DI)		
2	Homologation:	ECE R112, R87, R7, R6		
COP PARA	Optical & Electric Fea	Optical & Electric Features		
18 - C 1	LED Type:	Low Beam:1pcs 15W LE		
		High Beam:9pcs 3W LE		
		P / DRL:12pcs 2W LEDs		
A BOST AND		Turn:6pcs 3W LEDs		
	Emitting Color:	White		
	-	Amber (Turn)		
	Color Temp:	White:5700K-6500k		
	·	Amber:1600-1800K (Tur		
	Energy Consumption:	Low Beam: 14.5W;		
		High Beam: 31W;		
		P:1.1w /DRL:7.7W		
		Turn: 15.2W		
PROJECT PHASE:	Current Draw @ 12V:	Low Beam: 1.21A;		
Concept Design	U U	High Beam: 2.58A;		
Development		P: 0.092A /DRL: 0.64A		
Sample Stage		Turn: 1.27A		
Mass Production	Illumination:	Low Beam:lux@150m		

	E1349			
, Homologation				
ern	Low Beam, High Beam, DRL,			
	Position, Turn (DI)			
tion:	ECE R112, R87, R7, R6, R10			
Electric Fea	tures			
	Low Beam:1pcs 15W LED			
	High Beam:9pcs 3W LEDs			
	P / DRL:12pcs 2W LEDs			
	Turn:6pcs 3W LEDs			
olor:	White			
	Amber (Turn)			
p:	White:5700K-6500k			
	Amber:1600-1800K (Turn)			
nsumption:	Low Beam: 14.5W;			
	High Beam: 31W;			
	P:1.1w /DRL:7.7W			
	Turn: 15.2W			
aw @ 12V:	Low Beam: 1.21A;			
-	High Beam: 2.58A;			

Electromagnetic Features				
EMC Grade:	CISPR 25 Class 4			
Operating Voltage:	10~30VDC			
Connector:	6 pin Cable			
Mechanical Features				
Size:	118X117X109mm			
Housing Material:	Aluminum			
ens Material:	Anti-UV PC			
PC Material:	COVESTRO 2407			
ens Processing:	Surface hardened			
Mount:	4 tabs			
P Rate:	IP66, IP6K9K			
Nork Temp:	-40~+50°C			
So this is Life				
_ife Time:	>30,000H			



201

150

90MM LED HEADLIGHT



PROJECT PHASE: Concept Design

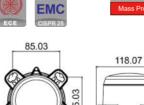
Development

Sample Stage

Mass Production

TOTREBORINO

)	#D	
arri	Low Beam	
	Change E	



optiour of mootine i out	
LED Type:	Lov
	Hig
Emitting Color:	Wh
Color Temp:	Lov
	Hig
Raw Lumen:	Lov
	Hig
Effective Lumen:	Lov
	Hig
Raw Power:	Lov
	Hig
Effective Power:	Lov
	Hig
Current Draw@12V	Lov

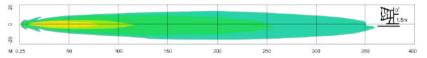
Functions, Homologation

Model:

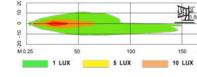
Functions

Beam Pattern:

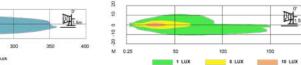
Homologation: **Optical & Electric Features**



isolux E1339HB, Low beam, H.:1.5m, tilt: 0°,1lux@140+m



M 0.25



High Beam:lux@258m

E1339HB

n	Electromagnetic Fe	Electromagnetic Features	
LED Headlight	EMC Grade:	CISPR 25 Class 5	
Low Beam, High Beam	Operating Voltage:	10V~30V	
ECE R112, R10	Connector:	H4/ 9006/ AMP optional	
res	Mechanical Feature	S	
Low Beam: OSRAM 3chip LED	Size:	118X118X109mm	
High Beam: 9 pcs 4W LEDs	Housing Material:	Aluminum	
White	Lens Material	Anti-UV PC	
Low Beam: 6000K	Lens Processing:	Surface Hardened	
High Beam: 5700K	PC Brand:	COVESTRO 2407	
Low Beam: 1400LM	Mount:	4 tabs	
High Beam:5000LM	IP Rate:	IP66,IP6K9K	
Low Beam: 580LM	Work Temp:	-40~+50°C	
High Beam:2000LM	So this is Life		
Low Beam:15W	Life Time:	>30,000H	
High Beam: 42W			
Low Beam: 15W			
High Beam: 30W Effective			

ow Beam: 1.25A

High Beam: 2.5A Effective







E1339HB Low Beam

E1339HB High Beam

WWW.LEDETHER.COM



5 in 1 or 2 in 1 optional Load resistor built in for High / Low / Turn

PROJECT PHASE:



Model:	E1339HB-D	
Functions, Homologat	tion	Electro
Functions	High Beam, Low Beam, DRL, Position,	EMC G
Beam Pattern:	Turn.	Operati
Homologation:	ECE R10,R148,R149	Connec
Optical & Electric Feat	tures	Mechan
LED Type:	High beam: 9pcs*4w LEDs	Size:
	Low beam: 1pcs*40w LED	Housing
	Position/DRL12pcs*2w LEDs	Lens M
	Turn: 6pcs*3w LEDs	Lens Pr
Emitting Color:	White / Amber for turn	PC Bra
Color Temp:	High /Low beam/Position/DRL: 5700-	Mount:
	6500K	IP Rate:
	Turn:1600-1800K	Work Te
Raw Lumen:	High beam: 8275 LM	So this
	Low beam: 4675 LM	Life Tin
	Position: 1800 LM	
	DRL: 1800LM	
Effective Lumen:	High beam: 1980 LM	
	Low beam:1500 LM	
	Position: 70.7LM	
	Turn: 393.33LM	
Raw Power:	High beam:9pcs*4W	
	Low beam:1pcs*40W	
	Position/DRL12pcs*2W	
	Turn:6pcs*3W	
Effective Power:	High beam:45w (Low beam on@high	
	beam)	
	Low beam: 47w	
	Position: 1.1w	
	DRL: 7.7w	
	Turn: 21w	
Current Draw@12V	Low Beam: 1.25A	
	High Beam: 2.5A	

E1339HB-D

Model

ectromagnetic Featu	res
MC Grade:	CISPR 25 Class 4
Operating Voltage:	10V~30V
Connector:	cable
Mechanical Features	
Size:	108X126X141.5mm
Housing Material:	Aluminum
Lens Material	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	4 tabs OEM mount
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H





- design of 90mm headlight
- e with original LED or halogen version.
- 3. Load resistors for HB/LB/DI and no hyper flash issue
- 4. LED failure detection guarantees
- 5. R148, R149, R10 compliant and high level EMC
- 6. High brightness LED technology, 1 pcs LED equal
- 7. High beam 1980LM, low beam 1













PROJECT PHASE: Concept Design Development Sample Stage

Mass Production



Model:	E1339HB-E	
Functions, Homologat	tion	
Functions	High Beam, Low Beam	
Homologation:	ECE R10,R149	
Optical & Electric Features		
LED Type:	High beam:9pcs*4w LEDs	
	Low beam:1pcs*25w LED	
Emitting Color:	White	
Color Temp:	5700-6500K	
Raw Lumen:	High beam: 3600 LM	
	Low beam: 2400 LM	
Effective Lumen:	High beam: 2300 LM	
	Low beam: 750 LM	
Raw Power:	High beam: 9pcs*4W	
	Low beam: 1pcs*25W	
Effective Power:	High beam: 30w	
	Low beam: 20w	
Current Draw@12V	Low Beam: 1.67A	
	High Beam: 2.5A	
Electromagnetic Featu	ires	
EMC Grade:	CISPR 25 Class 5	
Operating Voltage:	10V~30V	
Connector:	cable	
Mechanical Features		
Size:	117.4X125X112.3mm	
Housing Material:	Aluminum	
Lens Material	Anti-UV PC	
Lens Processing:	Surface Hardened	
PC Brand:	COVESTRO 2407	
Mount:	4 tabs OEM mount	
IP Rate:	IP67,IP69K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30,000H	

E4220UD E

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Manufacturer	OE number	Manufacturer	OE number
FIAT	50525990	AGCO	63595600
CLAAS	21659480	AGCO	G334 900 160 020
DEUTZ-FAHR	2.8039.313.0	AGCO	V63595600
FENDT	G 260 900 020 020	HYMER	1640519
FENDT	G334.900.160.020	HYMER	1893941
FENDT	G334900160021	HYMER	1893941 H
HAKO	05104150000	HYMER	8015920
CATERPILLAR	539-0528	HYMER	X16O3.15.164
KOMATSU	20G-06-51530	KRONE	200842950
LANDINI	6603320A1	AMAZONE	NA298
VALMET	63595600	LINDNER	3005785







Products subject to update, change or modify without notice.

V.: E1339HB-E-0815-22 ≡

Classic 90mm LED headlight

-Compatible with OEM halogen and LED -Zero radio interference

Zero noise Zero camera signal interference -ECE R149, R10 compliant



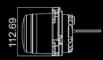


Effective

Effective



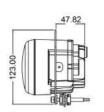


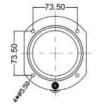






Model:	E1352	
Functions, Homologation		
Functions:	Low Beam, High Beam	
Homologations:	ECE R112, R10	
Optical & Electric Feat	ures	
LED Type:	15W OEM Vehicle LEDs LB	
	9 pcs 3W LED(s) HB	
Color Temp:	6000K Low Beam	
	5700K High Beam	
Power:	Low Beam: 15W	
	High Beam: 30W	
Current Draw @ 12V:	Low Beam: 1.25A	
	High Beam: 2.5A	
Electromagnetic Featu	res	
EMC Grade:	CISPR 25 Class 3	
Operating Voltage:	10V~30V	
Connector:	HB4/9006 /AMP 2 Pin	
Mechanical Features		
Size:	103X123X108.26 mm	
Housing Material:	Aluminum	
Lens Material:	Anti-UV PC	
Lens Processing:	Surface Hardened	
PC Brand:	COVESTRO 2407	
IP Rate:	IP66, IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30,000H	







90MM LED FOG LIGHT



PROJECT PHASE:

Concept Design

Development

Sample Stage

Mass Production

#D Fog Beam		
EMark	Class 3 EMC	



	-
Homologation:	ECE R19, R87
Optical & Electric Feat	ures
LED Type:	OE Vehicle LEDs
Color Temp:	5700K
Power:	Fog Beam: 7W
	DRL: 5W
Current Draw:	Fog Beam: 0.58A @
	DRL: 0.42 @ 12A
Electromagnetic Featu	res
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	Open cable
Mechanical Features	
Size:	117.9X117.9X109.20
Housing Material:	Aluminum
Lens Material	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	4 tabs
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

E3104

Fog Beam, DRL

Model:

Functions:

Functions, Homologation

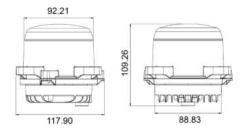
PROJECT PHASE:

Concept Design

Development

Sample Stage

Mass Production



8A @12V

09.26mm

90MM LED FOG LIGHT





47

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((-+-))}

	So this is I
	Life Time:
50	
- M	ABD
)))	
	10th

Model:	E-355FDRL-3
Functions, Homologation	
Functions:	Fog Beam, DRL
	ECE R19, R87, R10
Homologation:	DOT/ SAEJ583-2005
Optical & Electric Feature	s
LED Type:	OE Vehicle LEDs
Color Temp:	5700K
Power:	Fog Beam: 7W
	DRL: 5W
Current Draw:	Fog Beam: 0.58A @12V
	DRL: 0.42 @ 12A
Electromagnetic Features	i
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	Open cable
Mechanical Features	
Size:	103X 123X 108.26 mm
Housing Material:	Aluminum
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
P Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	

>30.000H

Yellow Color

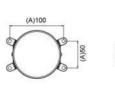
White Color





Classic 90MM LED FOG LIGHT SERIES

1.ECE R19, R87, and DOT / SAE J583-2005 compliant 2.100% compatible with original 55W halogen fog lights 3.Multiple bracket options for various vehicles 4.Zero noise, high level EMC, CISPR 25 Class 3 5. Yellow light of DRL and fog beam against tough weather 6 Effective lumen of fog beam up to 1182LM, DRL 260LM





E-355FDRL-3 general bracket







OEM bracket

Toyota bracket

J Wrangler bracket

V.: E-355FDRL-3-0905-22



exterior bracket

Model:	E1360
Functions, Homologation	on
Functions:	Low Beam, High Beam, Position
Homologation:	ECE R148,R149 R10
Optical & Electric Featu	ires
Emitting Color:	White
Color Temp:	White: 5700K-6500k
Energy Consumption:	Low Beam: 45W
	High Beam: 55W
	Position: 2W
Current Draw @ 12V:	Low Beam: 3.75A
	High Beam: 4.58A
	Position: 0.167A
Electromagnetic Featur	res
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	open cable
Mechanical Features	
Size:	172.3X155X98.7mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	Bottom bracket
Bracket Material:	Stainless steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

HER IATF16949:2016 Certificated













Products subject to update, change or modify without notice.

V.: E1360-0815-22 Ξ





Nitto		LED	covestro
Air Breather	IP6K9K	D-BRAN	covestro

Functions, Homologati	on
Functions:	Low Beam, High Beam, Parking
Homologation:	ECE R112, R7, R10
Optical & Electric Featu	ires
LED Type:	Low Beam: 1pcs OSRAM LED
	High Beam: 1pcs 15W 3chip LED +1pc
	OSRAM LED
	Parking: 24pcs 0.5W LEDs
Emitting Color:	White
Color Temp:	White: 5700K-6500k
Energy Consumption:	Low Beam: 16W;
	High Beam: 21W;
	Parking: 1.0W
Current Draw @ 12V:	Low Beam: 1.33A;
	High Beam: 1.75A;
	Parking: 0.083A
Illumination:	High Beam: 1 lux @235m
	Low Beam: 1 lux @110m
Electromagnetic Featur	res
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10~30VDC
Connector:	H4
Mechanical Features	
Size:	Ø144.4X88mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Bracket Material:	Stainless Steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
l ife Time:	>30.000H

E1329A/E1311A

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ETHER IATF16949:2016 Certificated

5.75" stainless steel Dietz type LED headlights



Salt spray test 240H/480H Lens surface hardened (>1H)

CRI<70















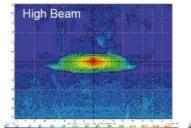


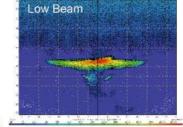


tion Low Beam, High Beam, Position ECE R112, R7, R10
ECE R112, R7, R10
SAE J1383
tures
Low Beam: 1pcs OSRAM LED
High Beam: 1pcs 15W 3chip LED +1pc
OSRAM LED
Parking: 24pcs 0.5W LEDs
White
White: 5700K-6500k
Low Beam: 16W;
High Beam: 21W;
Parking: 1.0W
Low Beam: 1.33A;
High Beam: 1.75A;
Parking: 0.083A
High Beam: 1 lux @235m
Low Beam: 1 lux @110m
Finish color optional (MOQ: 500 pcs per color)

Electromagnetic Feat	ures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10~30VDC
Connector:	H4 or open cable optional
Mechanical Features	
Size:	Approx.172X150 X126mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Bracket Material:	Stainless Steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

125, 69







Hugh Beam Hugh Beam E-Mark Night Corr DOT Class 3 EMC Class 2 Clas 2 Class 2 Class 2 C

E-Mark DOT CISPR 25

Products subject to update, change or modify without notice.

ECE R112 / SAE J581 Compliance Protected Against EMI Interference 3-Years Warranty



	1			PROJECT PHASE:
D	1 D	PE		Concept Design
igh Beam	Low Beam	Park		Development
-		Class 3		Sample Stage
(E24)	2	EMC		Mass Production
E-Mark	DOT	CISPR 25		
9				
Vitto		LED	covestrol	
ir Breather	IP6K9K	DEALAN	covestro	

OSRAM LED Parking: 24pcs 0.5W LEDs Emitting Color: White Color Temp: White: 5700K-6500k Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination: Parking: 0.083A	Low Beam, High Beam, Position ECE R112, R7, R10 SAE J1383 atures Low Beam: 1pcs OSRAM LED High Beam: 1pcs 15W 3chip LED +1pcs OSRAM LED Parking: 24pcs 0.5W LEDs White White: 5700K-6500k Low Beam: 16W; High Beam: 11W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m	Model:	E1329
Homologation: ECE R112, R7, R10 SAE J1383 Optical & Electric Features LED Type: Low Beam: 1pcs OSRAM LED High Beam: 1pcs 15W 3chip LEE OSRAM LED Parking: 24pcs 0.5W LEDs Emitting Color: White Color Temp: White: 5700K-6500k Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination: Parking: 0.083A	ECE R112, R7, R10 SAE J1383 atures Low Beam: 1pcs OSRAM LED High Beam: 1pcs 15W 3chip LED +1pcs OSRAM LED Parking: 24pcs 0.5W LEDs White White: 5700K-6500k Low Beam: 16W; High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m	Functions, Homologa	tion
SAE J1383 Optical & Electric Features LED Type: Low Beam: 1pcs OSRAM LED High Beam: 1pcs 15W 3chip LED OSRAM LED Parking: 24pcs 0.5W LEDs Parking: 24pcs 0.5W LEDs Emitting Color: White Color Temp: White: 5700K-6500k Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination:	SAE J1383 atures Low Beam: 1pcs OSRAM LED High Beam: 1pcs 15W 3chip LED +1pcs OSRAM LED Parking: 24pcs 0.5W LEDs White White: 5700K-6500k Low Beam: 16W; High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m	Functions:	Low Beam, High Beam, Position
Optical & Electric Features LED Type: Low Beam: 1pcs OSRAM LED High Beam: 1pcs 15W 3chip LED OSRAM LED Parking: 24pcs 0.5W LEDs Emitting Color: White Color Temp: White: 5700K-6500k Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination:	atures Low Beam: 1pcs OSRAM LED High Beam: 1pcs 15W 3chip LED +1pcs OSRAM LED Parking: 24pcs 0.5W LEDs White White: 5700K-6500k Low Beam: 16W; High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m	Homologation:	ECE R112, R7, R10
LED Type: Low Beam: 1pcs OSRAM LED High Beam: 1pcs 15W 3chip LED OSRAM LED Parking: 24pcs 0.5W LEDs Emitting Color: White Color Temp: Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination: Parking: 0.083A	Low Beam: 1pcs OSRAM LED High Beam: 1pcs 15W 3chip LED +1pcs OSRAM LED Parking: 24pcs 0.5W LEDs White White: 5700K-6500k Low Beam: 16W; High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m		SAE J1383
High Beam: 1pcs 15W 3chip LEE OSRAM LED Parking: 24pcs 0.5W LEDs Emitting Color: White Color Temp: White: 5700K-6500k Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination: Parking: 0.083A	High Beam: 1pcs 15W 3chip LED +1pc OSRAM LED Parking: 24pcs 0.5W LEDs White White: 5700K-6500k Low Beam: 16W; High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m	Optical & Electric Fea	tures
OSRAM LED Parking: 24pcs 0.5W LEDs Emitting Color: White Color Temp: White: 5700K-6500k Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination: Parking: 0.083A	OSRAM LED Parking: 24pcs 0.5W LEDs White White: 5700K-6500k Low Beam: 16W; High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m	LED Type:	Low Beam: 1pcs OSRAM LED
Parking: 24pcs 0.5W LEDs Emitting Color: White Color Temp: White: 5700K-6500k Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination: Parking: 0.083A	Parking: 24pcs 0.5W LEDs White White: 5700K-6500k Low Beam: 16W; High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m		High Beam: 1pcs 15W 3chip LED +1pc
Emitting Color: White Color Temp: White: 5700K-6500k Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination:	White White: 5700K-6500k Low Beam: 16W; High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: High Beam:		OSRAM LED
Color Temp: White: 5700K-6500k Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination: Parking: 0.083A	White: 5700K-6500k Low Beam: 16W; High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m		Parking: 24pcs 0.5W LEDs
Energy Consumption: Low Beam: 16W; High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination: Parking: 0.083A	Low Beam: 16W; High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m	Emitting Color:	White
High Beam: 21W; Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination:	High Beam: 21W; Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m	Color Temp:	White: 5700K-6500k
Current Draw @ 12V: Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Illumination: Parking: 0.083A	Parking: 1.0W Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m	Energy Consumption:	Low Beam: 16W;
Low Beam: 1.33A; High Beam: 1.75A; Illumination: Parking: 0.083A	Low Beam: 1.33A; High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m		High Beam: 21W;
High Beam: 1.75A; Illumination: Parking: 0.083A	High Beam: 1.75A; Parking: 0.083A High Beam: 1 lux @235m	Current Draw @ 12V:	Parking: 1.0W
Illumination: Parking: 0.083A	Parking: 0.083A High Beam: 1 lux @235m	-	Low Beam: 1.33A;
	High Beam: 1 lux @235m		High Beam: 1.75A;
Llink Beams 1 lus @005m	• •	Illumination:	Parking: 0.083A
nigh beam. Tiux @255m	Low Beam: 1 Jux @110m		High Beam: 1 lux @235m
Low Beam: 1 lux @110m	Eon Douin. That a from		Low Beam: 1 lux @110m

Electromagnetic Fea	tures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10~30VDC
Connector:	H4 or open cable optional
Mechanical Features	i
Size:	Approx.172X150 X126mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Bracket Material:	Stainless Steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

125.69 150, 58

Finish color optional (MOQ: 500 pcs per color)



5.5" LED HEADLIGHT



Model:	E1328B
Functions, Homologa	tion
Functions:	Low Bea
Homologation:	ECE R1
Optical & Electric Fea	itures
LED Type:	Low Bea
	High Be
	OSRAM
	Parking:
Emitting Color:	White
Color Temp:	White:57
Energy Consumption:	Low Bea
	High Bea
	Parking:
Current Draw @ 12V:	Low Bea
C C	High Bea
	Parking:
Illumination:	High Be

Illumination:

eam:1 lux @235m Low Beam:1 lux @110m

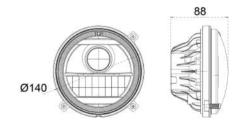


Nitto		LED	covestro
Vr Breather	IP6K9K	DIRAN	covestro

Development

Sample Stage Mass Production

	Electromagnetic Fea	tures
eam, High Beam, Park	EMC Grade:	CISPR 25 Class 4
112, R7, R10	Operating Voltage:	10~30VDC
	Connector:	H4
eam:1pcs OSRAM LED	Mechanical Features	i
eam:1pcs 15W 3chip LED +1pcs	Size:	Ø144.4X88mm
MLED	Housing Material:	Aluminium Alloy
g: 24pcs 0.5W LEDs	Lens Material:	Anti-UV PC
	Lens Processing:	Surface Hardened
5700K-6500k	PC Brand:	COVESTRO 2407
eam: 16W;	Bracket Material:	Stainless Steel
eam: 21W;	IP Rate:	IP66, IP6K9K
g: 1.0W	Work Temp:	-40~+50°C
eam:1.33A;	So this is Life	
eam: 1.75A;	Life Time:	>30,000H
g: 0.083A	1	





	100			PROJECT PHASE:
ED	1 D	P=		Concept Design
High Beam	Low Beam	Park		Development
		Class 3		Sample Stage
(E24)	2	EMC		Mass Production
E-Mark	DOT	CISPR 25		
6			-	
Nitto		LED	cove	strol
Air Breather	IP6K9K	DERAM	cove	estro

Model:	E1328
Functions, Homologa	tion
Functions:	Low Beam, High Beam, Parking
Homologation:	ECE R112, R7, R10
Optical & Electric Fea	tures
LED Type:	Low Beam: 1pcs OSRAM LED
	High Beam: 1pcs 15W 3chip LED +1pcs
	OSRAM LED
	Parking: 24pcs 0.5W LEDs
Emitting Color:	White
Color Temp:	White: 5700K-6500k
Energy Consumption:	Low Beam: 16W;
	High Beam: 21W;
	Parking: 1.0W
Current Draw @ 12V:	Low Beam: 1.33A;
0	High Beam: 1.75A;
	Parking: 0.083A
Illumination:	High Beam: 1 lux @235m
	Low Beam: 1 lux @110m

lectromagnetic Fea	
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10~30VDC
Connector:	H4
Mechanical Feature	S
Size:	Ø144.4X88mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Bracket Material:	Stainless Steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30.000H

PAR 46 LED HEADLIGHT APPLICATION

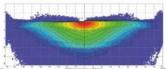
E1328 Low Beam

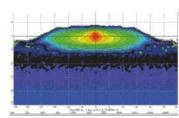


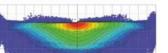


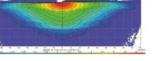


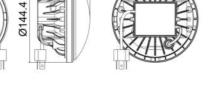
Plan energy distribution of Low beam and High beam











B



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Model:	E1309	I	
Functions, Homologa	tion	Electromagnetic Feat	ures
Functions:	Low Beam, High Beam, Parking	EMC Grade:	CISPR
Homologation:	ECE R112, R7, R10	Operating Voltage:	10~30\
Optical & Electric Fea	atures	Connector:	H4
LED Type:	Low Beam: 1pcs OSRAM LED	Mechanical Features	
	High Beam: 1pcs 15W 3chip LED +1pcs	Size:	Ø144.4
	OSRAM LED	Housing Material:	Alumin
	Parking: 24pcs 0.5W LEDs	Lens Material:	Anti-U
Emitting Color:	White	Lens Processing:	Surface
Color Temp:	White: 5700K-6500k	PC Brand:	COVES
Energy Consumption:	Low Beam: 16W;	Bracket Material:	Stainle
	High Beam: 21W;	IP Rate:	IP66, II
	Parking: 1.0W	Work Temp:	-40~+5
Current Draw @ 12V:	Low Beam: 1.33A;	So this is Life	
	High Beam: 1.75A;	Life Time:	>30,00
	Parking: 0.083A	I	
Illumination:	High Beam: 1 lux @235m		

lectromagnetic Feat	ures
MC Grade:	CISPR 25 Class 3
perating Voltage:	10~30VDC
onnector:	H4
lechanical Features	
ize:	Ø144.4X88mm
ousing Material:	Aluminium Alloy
ens Material:	Anti-UV PC
ens Processing:	Surface Hardened
C Brand:	COVESTRO 2407
racket Material:	Stainless Steel
P Rate:	IP66, IP6K9K
/ork Temp:	-40~+50°C
o this is Life	
ife Time:	>30,000H

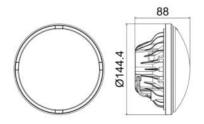
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PROJECT PHASE: Concept Design Development Sample Stage Mass Production

Low Beam: 1 lux @110m







Development

Sample Stage

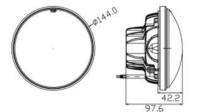


Model:	E1359
Functions, Homologa	tion
Functions:	Low Beam, High Beam, Parking
Homologation:	ECE R10, R148, R149
	DOT
Optical & Electric Fea	itures
Color temp.:	5700-6500K
Effective lumen:	Low Beam: 1500 LM
	High Beam: 3319 LM;
	Parking: 172 LM
Illumination:	High Beam:1 lux @235m
	Low Beam:1 lux @110m
Electromagnetic Feat	ures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10~30VDC
Connector:	cable
Mechanical Features	
Size:	Approx. Ø144X97.6mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
Bracket Material:	Stainless Steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

_



Flush Mount





5.75" combo LED headlight



Smart load resistor built-in

1. OEM designed combo LED headlight 2. High beam 33191 @ effective @ effective Low beam 3. 100% compatible with original halogen and ECU 4. Smart load resistor built-in and benefits are:

- LED failure detection

V.: E1359-0815-22



OVAL LED HEADLIGHT



PROJECT PHAS E1353A Concept Desig Development Sample Stage Mass Production

	Low Beam	P= Park	
ECE	Class 3 EMC CISPR 25	ІРБКЭК	

Model:	E1353/E1353A	Model
Functions, Homologa	tion	E1353
Functions:	High Beam, Low Beam, Position,	E1353
	DRL, Turning Light	I
Homologation:	R10, R148,R149	
Optical & Electric Fea	tures	
Color temp.:	High Beam/Low Beam/ Position/	
	DRL:5700-6500K	
Effective lumen:	Turning:1700K-1900k	
	Low Beam:1500 LM	
	High Beam: 3319 LM;	
	Parking: 172 LM	
	DRL: 518LM	
Electromagnetic Feat	ures	
EMC Grade:	CISPR 25 Class 3	
Operating Voltage:	10~30VDC	
Connector:	cable	
Mechanical Features		
Housing Material:	Aluminium Alloy	
Lens Material:	Anti-UV PC	
Lens Processing:	Surface Hardened	
Bracket Material:	Stainless Steel	
IP Rate:	IP66, IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30,000H	

Size:

145.7X206.5X91.9mm 136.4X179.5X94mm

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version 5-in-1 〕≣D�� P€ **∷:D** Smart load resistor built

5x7^m oval LED headlight

1. Oval LED headlight with original mounting design @ effective 2. High beam 331 @ effective Low beam 15 3. 100% compatible with original halogen and ECU load resistor built-in and benefits are: 4. - LED failure detection

Salt spray test

Lens surface hardened

CRI<70 CRI>80





63

V.: E1353&E1353A-0815-22



Low beam, 30° illumination beneath horizon



OVAL LED HEADLIGHT



Model:	E1355	1
Functions, Homologa	tion	Mechanical Features
Functions:	Low Beam, High Beam	Size:
Homologation:	ECE R112, R10	Housing Material:
Optical & Electric Fea	tures	Lens Material:
Emitting Color:	White	Lens Processing:
Color Temp:	White:5700K-6500k	PC Brand:
Energy Consumption:	Low Beam: 20W;	Mount:
	High Beam: 24W	Bracket Material:
Current Draw @ 12V:	Low Beam: 1.67A;	IP Rate:
	High Beam: 2.00A	Work Temp:
Illumination:	Low Beam: 1lux@133m	So this is Life
	High Beam: 1lux@242m	Life Time:
Electromagnetic Feat	ures	
EMC Grade:	CISPR 25 Class 3	a second and the second

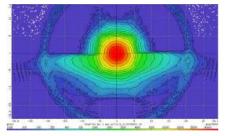
10V~30V

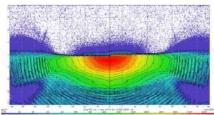
3-pin open cable

Operating Voltage:

Connector:

Mechanical Features	
Size:	106.2X166X97.5mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	Bottom bracket or Side bracket
Bracket Material:	Stainless steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



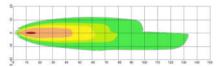


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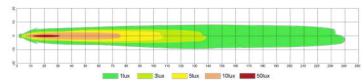


isolux of low beam, E1355



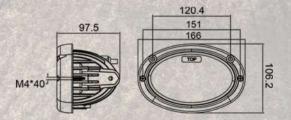
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Isolux of high beam, E1355



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 Classic OVAL LED headlight with ECE R149 and R10 compliant
 100% compatible with halogen
 Flexible mounting options, side mount, or flush.
 Lero noise, zero interference @CISPR 25 Class 3



OVAL LED HEADLIGHT



0	and the second			PROJECT PHASE:
ED	1			Concept Design
High Beam	Low Beam			Development
		0		Sample Stage
Nitto	202	covestrol	SE	Mass Production
Air Breather	IP6K9K	covestro	SAE	

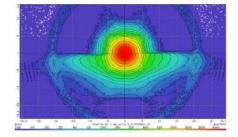
E1351 Model: Functions, Homologation Low Beam. High Beam Functions: Homologation: ECE R112, R10 **Optical & Electric Features** Emitting Color: White Color Temp: White:5700K-6500k Low Beam: 20W: Energy Consumption: High Beam: 24W Current Draw @ 12V: Low Beam: 1.67A: High Beam: 2.00A Illumination: Low Beam: 1lux@133m High Beam: 1lux@242m

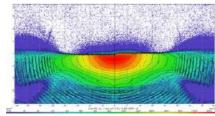
CISPR 25 Class 3 10V~30V Connector: 3-pin open cable

Electromagnetic Features EMC Grade: Operating Voltage:

Size:	92X166X98mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	Bottom bracket or Side bracket
Bracket Material:	Stainless steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

Mechanical Features



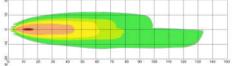


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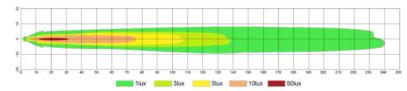




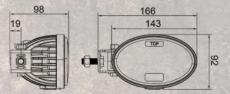
isolux of low beam. E1351



Isolux of high beam, E1351



1. Classic OVAL LED headlight with ECE R149 and R10 compliant 2. 100% compatible with halogen 3. Flexible mounting options, mount or mount. noise, zero interference @



4X6" LED HEADLIGHT (BOTTOM MOUNT)



Model:	E1344G	1	
Functions, Homolog	ation	Electromagnetic Fea	atur
Functions:	Low Beam, High Beam,	EMC Grade:	0
	Parking, DRL, Turn	Operating Voltage:	1
Homologations	R10,R148,R149	Load resistor:	Ł
Optical & Electric Fe	atures	Connector:	c
LED Type:	OEM Vehicle LEDs	Mechanical Feature	s
Color Temp:	5700K~6500K (W)	Size:	1
	1700K-1900kfor turn signal)	Housing Material:	A
Consumption:	High Beam: 45W	Lens Material:	A
	Low Beam: 45W	Lens Processing:	S
Effective lumen:	High Beam: 3319 LM	PC Brand:	0
	Low beam: 1500 LM	Mount:	E
	Parking:172 LM	IP Rate:	1
	DRL: 518 LM	Work Temp:	-
Dashboard signaling	True dashboard signaling with LED	Project Phase	
	failure detection	Project phase:	S

Electromagnetic Fea	atures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Load resistor:	built-in
Connector:	cable
Mechanical Feature	S
Size:	182.5X122.7X96.8mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	Bottom bracket
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
Project Phase	
Project phase:	Sample Stage



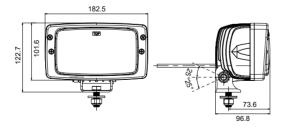


4X6" 4-in-1 combo headlight

load resistors built-in and LED failure detection

E-Mark Class 3 EMC CISPR 25 Nitto Ar Brasther





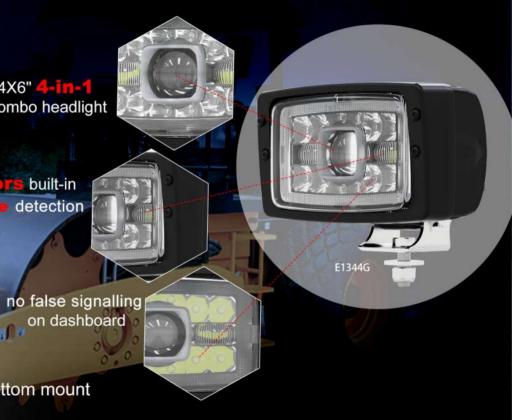
on dashboard compliant

- robust housing with tough bottom mount

radio interference - zer

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E1344G-0816-22



4X6" LED HEADLIGHT (BOTTOM MOUNT)





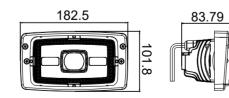
E-Mark	Class 3 EMC CISPR 25		
Nitto Ar Breather	IP6K9K	covestro	



Model:	E1344J
Functions, Homolo	gation
Functions:	Low Beam, High Beam,
	Parking, DRL, Turn
Homologations	R10,R148,R149
Optical & Electric F	eatures
LED Type:	OEM Vehicle LEDs
Color Temp:	5700K~6500K (W)
	1700K-1900kfor turn signal)
Consumption:	High Beam: 45W
	Low Beam: 45W
Effective lumen:	High Beam: 3319 LM
	Low beam: 1500 LM
	Parking: 172 LM
	DRL: 518 LM
Dashboard signaling	True dashboard signaling with LED

failure detection

Electromagnetic Fe	atures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Load resistor:	built-in
Connector:	cable
Mechanical Feature	s
Size:	182.5X83.79X101.8mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	Flushbonading
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
Project Phase	
Project phase:	Sample Stage







4X6" 4-in-1 combo headlight

- R148, R149, R10 compliant - robust housing with tough bottom mount radio interference -

on dashboard

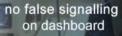
Low beam, 30° illumination beneath horizon

Factory	OE Number	Factory	OE Number	Factory
HELLA	1AB005213011	CASE IH	84814469	HERTH+BUSS ELPART
HELLA	1AB006213017	CASE 1H	07090385	VOLVO
HELLA	1AB006213016	VALMET	34203600	VOLVO
HERTH+BUSS ELPARTS	81658028	HOLDER	791322	HELLA
ATLAS COPCO	3665383	LIEBHERR	6001421X	HELLA
HAKO	90340150	LIEBHERR	6001421O	HELLA
K?GEL	323759	ATLAS COPCO	5350660910	HELLA
LIEBHERR	6001421	HELLA	1AB006213018	HELLA
0&K	2929066	MERCEDES-BENZ	A0015443801	HELLA

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Number

0655026 VOE14371518 14371518 1AB006213008 LAB006213007 AB006213001 006213017 006213016

Factoru

Number

K?SSBOHRER 75120300000 K?SSBOHRER 7512030000 LIEBHERR 60014210 ATLAS WEYHAUSEN 3665383 K?GEL 316573 DEUTZ-FAHR 3665383 HERTH+BUSS ELPARTS E13HCIR9068 HERTH+BUSS ELPARTS E13A9068

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E1344J

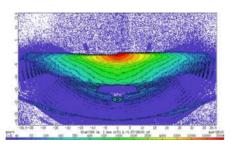


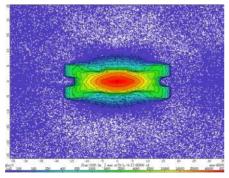


meach	• () • (•)
Functions, Homologation	on
Functions:	Low Beam, High Beam,
	Parking, DRL/Turn
Homologations	ECE R112, R7, R87, R10
Optical & Electric Featu	ires
LED Type:	OSRAM OEM Vehicle LEDs
Color Temp:	5700K (W)
	1700-1900K (for Turn)
Current Draw @ 12V:	Low Beam 1.31A;
	High Beam 1.8A
	Parking: 0.13A
	DRL: 0.42A
Illumination:	Low Beam: 1ux@160m
	High Beam: 1ux@250m
Electromagnetic Featur	res .
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Decoder:	PWM
Connector:	H4
Mechanical Features	
Size:	182.5X101.8X83.5mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	Flushbonading
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

E1344 (DRL)/E1344 (Turn)

Model:





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Leading combo LED headlight ass originally developed by ETHER for general purposes engineering

Directly replace with original halogen lights
Original vehicles don't have to be retrofitted to install this light
Installation positions completely match with original vehicle design

• Great labor and time of installation could be saved .

30 - 50 % brighter than original halogen light

Compact body design

Rich functions : Low Beam , High Beam , Position Light and DRL

Higher visibility and EMC performance

Much higher level of safety and simplicity

Lowered risk of electric failures

Circuit protections : reversal polarity protection , surge protection , etc

septional lighting and driving experience on vehicles

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nbly

applications

E1344







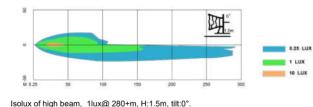
Model:	E1344C	
Functions, Homolog	ation	Electromagnet
Functions:	Low Beam, High Beam,	EMC Grade:
	Parking, DRL(W) or Turn (Amber)	Operating Voltag
Homologations	ECE R112, R7, R87 or R6, R10	Connector:
Optical & Electric Fe	atures	Mechanical Fea
LED Type:	OSRAM OEM Vehicle LEDs	Size:
Color Temp:	5700K (W)	Housing Materia
	1700-1900K (Amber for Turn)	Lens Material:
Current Draw @ 12V:	Low Beam 1.31A;	Lens Processing
	High Beam 1.8A	PC Brand:
	Parking: 0.13A	Mount:
	DRL: 0.42A or Turn: 0.75A	IP Rate:
Illumination:	Low Beam: 1ux@160m	Work Temp:
	High Beam: 1ux@250m	So this is Life

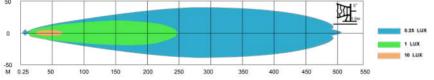
Electromagnetic Feat	ures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	Open cable
Mechanical Features	
Size:	155X117X83mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	Three tabs
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

High Beam Park DRL or Turn



Isolux of low beam, 1lux@ 150+m, H:1.5m, tilt:0°.







Leading combo LED headlight as originally developed by ETHER for general purposes engineering

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Rich functions : Low Beam , High Beam , Position Light and DRL

Higher visibility and EMC performance

· Much higher level of safety and simplicity

Lowered risk of electric failures

Circuit protections : reversal polarity protection , surge protection , etc

ptional lighting and driving experience on vehicles

75 WWW.LEDETHER.COM

Products subject to update, change or modify without notice.

V.: E1344-0824-22

nbly

applications

155

E1344C



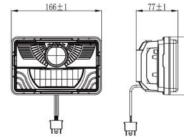
DOT	ECE	E-Mark	E-Mark	E
litto Bradhar	IP6K9K	covestro		

PROJECT PHASE:
Concept Design
Development
Sample Stage

Mass Production

D		or	P=
CE	E-Mark	E-Mark	Class 3 EMC CISPR 25
5K9K	covestro		
SE:			

Model:	E1336
Functions, Homologati	on
Functions:	Low Beam, High Beam, Turn/Parking
Homologation:	ECE R112, R6, R10
Optical & Electric Featu	ires
LED Type:	OSRAM OEM Vehicle LED(s)
Color Temp:	5700K
Energy Consumption:	Low Beam: 12.5 W;
	High Beam: 12.5W;
	Turn: 12W;
Current Draw @ 12V:	Low Beam:1.04 A;
	High Beam:1.04 A;
	Turn:1.0 A;
Electromagnetic Featur	res
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	H4
Mechanical Features	
Size:	166X107X78mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



4X6" LED HEADLIGHT







PROJECT PHASE:	
Concept Design	
Development	
Sample Stage	
Mass Production	

Functions:	Low, High Bea
Homologation:	ECE R112, R7
	DOT FMVSS 5
Optical & Electric Featu	ires
LED Type:	OSRAM OEM
Color Temp:	5700K
Energy Consumption:	Low Beam: 12
	High Beam: 12
	Position: 2.5W
Current Draw @ 12V:	Low Beam: 1.0
	High Beam: 1.

Functions, Homologation

Model:

E1336B

Electromagnetic Feat	ures
EMC Grade:	CISPR 25 Cla
Operating Voltage:	10V~30V
Connector:	H4
Mechanical Features	
Size:	166X107X78m
Housing Material:	Aluminium Allo
Lens Material:	Anti-UV PC
Lens Processing:	Surface Harde
PC Brand:	COVESTRO 2
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

c	on
	Low, High Beam, Turn/Parking
	ECE R112, R7, R10
	DOT FMVSS 571.108
J	res
	OSRAM OEM Vehicle LED(s)
	5700K
	Low Beam: 12.5W;
	High Beam: 12.5W;
	Position: 2.5W;
	Low Beam: 1.04 A;
	High Beam: 1.04A;
	Position: 0.2 A;
r	es
	CISPR 25 Class 3
	10V~30V
	H4
	166X107X78mm
	Aluminium Alloy
	Anti-UV PC
	Surface Hardened

RO 2407



Concept Design Development

Sample Stage

Mass Production

Functions, Homologati	on
Functions:	High Beam, Low Beam, Position
	De-icing
Homologation:	ECE R112, R7, R10.
	DOT J1383 / J222
Optical & Electric Featu	ires
LED Type:	OSRAM OEM Vehicle LEDs
Color Temp:	6000K
Raw Lumen:	Low Beam:1400LM;
	High Beam:1400LM;
	Position:1200LM;
Effective Lumen:	Low Beam:489 LM;
	High Beam:534 LM;
	Position:29 LM;
Energy Consumption:	Low Beam:12.5 W;
	High Beam:12.5W;
	Position:2.5W;
Current Draw @ 12V:	Low Beam:1.04 A;
	High Beam:1.04 A;
	Position:0.2 A;

E1336M

Model:

De-icing Technology	
De-Icing Tech:	Heating Glass
De-icing Power:	22W
Control Mode:	Auto temp. Sensor@ constant temp.
Heating Temp.:	Constant 45°C lens
Electromagnetic Featu	res
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10~30VDC
Connector:	H4+Cable
Mechanical Features	
Size:	166X107X83.3mm
Housing Material:	Aluminum
Lens Material:	Tempered Glass
Lens Processing:	Surface Heated.
Anti-Corrosion:	ISO 9227 240H
Vibration Level:	15.3Grms
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

E-Mark Class 3 E-Mark Class 3 150+M Low Beam 1 3 Black Version Francis Nitto 250+M High Beam H4 Connector 10 LUX 5 LUX

CTHER . IATF16949:2016 Certificated

83±1

Mini snowplow 4x6"

Designed for convenience.

Products subject to update, change or modify without notice.



Flexible mounting options. Back bracket or Bottom bracket is optional E1336X



LED HEADLIGHTS MINI SNOWPLOW - 4x6" LED Headlight

45℃ LENS

Constant temp. of lens surface. Rapid de-icing Smart Temp. sensor control.

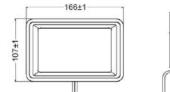




AL 2 44				FROJECT FTIAJE.
322				Concept Design
De-ice				Development
0	1			Sample Stage
ED	1			Mass Production
High Beam	Low Beam			
E-Mark	DOT	R10 ECE		
E-Mark	001	EUE		
Nitto Ar Breather	ІРБКЭК	LED OF HAM	covest	20

	Model:	E1305C
	Functions, Homologation	on
	Functions:	Low Beam, High Beam
NAME OF TAXABLE	Homologation:	DOT FMVSS 108
		ECE R112, R10
	Optical & Electric Featu	ires
	LED Type:	Low Beam:1pcs OSRAM LED
		High Beam:1pcs 15W 3chip LED
1 Providence in the second sec		+1pcs OSRAM LED
	Emitting Color:	White
	Color Temp:	White:5700K-6500k
	Energy Consumption:	Low Beam: 16W;
		High Beam: 21W;
	Current Draw @ 12V:	Low Beam:1.33A;
PROJECT PHASE:		High Beam: 1.75A;
Concept Design	Illumination:	High Beam:1 lux @235m
Development		Low Beam:1 lux @110m
Sample Stage		

De-icing Technology	
De-lcing Tech:	Heating Glass
De-icing Power:	22W
Control Mode:	Auto temp. Sensor@ constant temp
Heating Temp.:	Constant 45°C lens
Electromagnetic Featu	ires
EMC Grade:	ECE R10
Operating Voltage:	10V~30V
Connector:	H4
Mechanical Features	
Size:	166X107X83mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



4×6" LED HEADLIGHT



Functions:	Low Beam
Homologation:	DOT FMVS
	ECE R112
Optical & Electric Featu	ires
LED Type:	Low Beam
	High Beam
	+1pcs OSF
Emitting Color:	White
Color Temp:	White:5700
Energy Consumption:	Low Beam
	High Beam

Functions, Homologation

Model:

PROJECT PHASE:

Concept Design Illumination: Development Sample Stage Mass Production

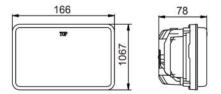
Bear Current Draw @ 12V: Low Beam High Bear High Beam:1 lux @235m Low Beam:1 lux @110m

E1305



-83±1	1	
1 AT	1	
7/8/		

	Electromagnetic Features		
Beam, High Beam	EMC Grade:	ECE R10	
FMVSS 108	Operating Voltage:	10V~30V	
112	Connector:	H4	
	Mechanical Features		
eam:1pcs OSRAM LED	Size:	166X107X78mm	
Beam:1pcs 15W 3chip LED	Housing Material:	Aluminium Alloy	
OSRAM LED	Lens Material:	Anti-UV PC	
	Lens Processing:	Surface Hardened	
5700K-6500k	PC Brand:	COVESTRO 2407	
eam: 16W;	IP Rate:	IP66, IP6K9K	
Beam: 21W;	Work Temp:	-40~+50°C	
Beam:1.33A;	So this is Life		
Beam: 1.75A;	Life Time:	>30,000H	
Beam:1 lux @235m	- 1		





9	1000			PROJECT PHASE:
ED	1			Concept Design
High Beam	Low Beam			Development
				Sample Stage
(E4)	2	R10		Mass Production
E-Mark	DOT	ECE		
			5 -	
Nitto		LED	COV	estro
Air Breather	IP6K9K	DERAW	cov	estro

Model:	E1305A
Functions, Homologati	on
Functions:	Low Beam, High Beam
Homologation:	DOT FMVSS 108
	ECE R112
Optical & Electric Feature	ures
LED Type:	Low Beam: 1pcs OSRAM LED
	High Beam:1pcs 15W 3chip LED
	+1pcs OSRAM LED
Emitting Color:	White
Color Temp:	White:5700K-6500k
Energy Consumption:	Low Beam: 16W;
	High Beam: 21W;
Current Draw @ 12V:	Low Beam:1.33A;
	High Beam: 1.75A;
Illumination:	High Beam:1 lux @235m
	Low Beam:1 lux @110m
Electromagnetic Featu	res
EMC Grade:	ECE R10
Operating Voltage:	10V~30V
Connector:	H4
Mechanical Features	
Size:	166X107X78mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

4×6" LED HEADLIGHT



PROJECT PHASE:

Concept Design

Development Sample Stage

Mass Production

covestro

-

Nitto Ar Breather

Model:	E1305B
Functions, Homologation	on
Functions:	Low Bea
Homologation:	DOT FM
-	ECE R1
Optical & Electric Featu	res
LED Type:	Low Bea
	High Bea
	+1pcs O
Emitting Color:	White
Color Temp:	White:57
Energy Consumption:	Low Bea
	High Bea
Current Draw @ 12V:	Low Bea
-	High Bea
Illumination:	High Bea
	Low Bea
Electromagnetic Featur	es
EMC Grade:	ECE R1
Operating Voltage:	10V~30\
Connector:	H4
Mechanical Features	
Size:	166X107
Housing Material:	Aluminiu
Lens Material:	Anti-UV
Lens Processing:	Surface
PC Brand:	COVEST
IP Rate:	IP66, IP6
Work Temp:	-40~+50
So this is Life	
Life Time:	>30,000

Beam, High Beam FMVSS 108 R112

Beam:1pcs OSRAM LED

Beam:1pcs 15W 3chip LED

OSRAM LED

:5700K-6500k

eam: 16W;

eam: 21W;

eam:1.33A;

Beam: 1.75A;

Beam:1 lux @235m

Beam:1 lux @110m

R10

30V

107X78mm

ium Alloy

/ PC

e Hardened

STRO 2407

IP6K9K

50°C

00H

4×6" LED TRACTOR LIGHT



Model:	E2175
Functions, Homologa	tion
Functions:	Flood Beam or Spot Beam
Homologations	ECE R10
Optical & Electric Fea	itures
LED Type:	12pcs 2W LEDs
Color Temp:	6000K~6300K
Raw Power:	36W
Energy Consumption:	32W
Raw lumens:	3000 LM
Effective lumens:	2858 LM
Current Draw:	2.67A@12V, 1.33A@24V
Electromagnetic Feat	ures
EMC Grade:	ECE R10
Operating Voltage:	10V~30V
Connector:	cable
Mechanical Features	
Size:	208X144.5X72.1mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	Bottom bracket
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



OEM design **4X6**" tractor light

OE Codes:

RE269110 , AL152331 , AL152328 , AL152329

Compatible Equipment Type forfor after-market:

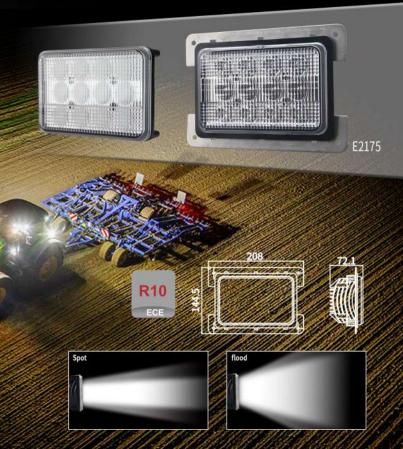
John Deere	7130	John Deere	6140D	John Deere	6155J	John Deere	5065E	John Deere	5625
John Deere	5085M	John Deere	6140J	John Deere	5055E	John Deere	5325	John Deere	5075M
John Deere	5095M	John Deere	5093E	John Deere	5225	John Deere	6100D	John Deere	5065M
John Deere	5083E	John Deere	5725	John Deere	6125D	John Deere	5105M	John Deere	6115D
John Deere	5425N	John Deere	5075E	John Deere	61300	John Deere	6110D	John Deere	5525N

Compatible Model for new lights and vehicle model

	John Deere 7520	John Deere	6220	John Deere	6215 J	ohn Deere	6420L	John Deere	6230	
	John Deere 6420	John Deere	7220	John Deere	6615 J	ohn Deere	5525	John Deere	7230	
	John Deere 6320	John Deere	7320	John Deere	6715 J	ohn Deere	6520L	John Deere	7330	
	John Deere 6120	John Deere	6415	John Deere	5425 J	ohn Deere	6430	John Deere	6120L	
	John Deere 7420	John Deere	5310	John Deere	6320L J	ohn Deere	6330	John Deere	6220L	
	Case/IH Combine	21442144 Cas	e/IH Combine	e 2377	Case/IH Cott	ton Picker	420	Case/IH Cotton	Picker	CPX610
	Case/IH Combine	21662166 Cas	e/IH Combine	2388	Case/IH Cott	ton Picker	625	Case/IH Cotton	Picker	CPX620
	Case/IH Combine	21882188 Cas	e/IH Combine	e 2577	Case/IH Cott	ton Picker	2155	Case/IH Cotton	Picker	CPX420
-	Case/IH Combine	23442344 Cas	e/IH Combine	2588	Case/IH Cott	ton Picker	2555			
	Case/IH Combine	23552355			Case/IH Cott	ton Picker	320			



V.: E2175-0426-22 ≡

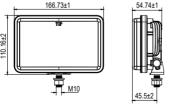


4×6" LED TRACTOR LIGHT



DE Flood	or	() Spot
R10 ECE	ПРБКЭК	

Model:	E2176
Functions, Homologa	tion
Functions:	Flood Beam
Homologations	ECE R10
Optical & Electric Fea	tures
LED Type:	10pcs 4W LEDs
Color Temp:	5700K
Raw Power:	40W
Energy Consumption:	36W
Raw lumens:	6100LM
Effective lumens:	3800LM
Current Draw:	3A@12V, 1.5A@24V
Electromagnetic Feat	ures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	cable
Mechanical Features	
Size:	166.73X110.16X54.74mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	Bottom bracket
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



HER IATF16949:2016 Certificated STI

• OEM design 4X6" tractor light Direct replacement with original halogen ones

RE269110 , AL152331 , AL152328 , AL152329

 John Deere	7130	John Deere	6140D	John Deere	6155J	John Deere	5065E	John Deere	5625
John Deere	5085M	John Deere	6140J	John Deere	5055E	John Deere	5325	John Deere	5075
John Deere	5095M	John Deere	5093E	John Deere	5225	John Deere	6100D	John Deere	5065
John Deere	5083E	John Deere	5725	John Deere	6125D	John Deere	5105M	John Deere	6115
John Deere	5425N	John Deere	5075E	John Deere	6130D	John Deere	61100	John Deere	5525

	John Deere	7520	John D	eere	6220	John Deere	6215	John	Deere	6420L	John Deere	6230	
	John Deere	6420	John D	eere	7220	John Deere	6615	John	Deere	5525	John Deere	7230	
	John Deere	6320	John D	eere	7320	John Deere	6715	John	Deere	6520L	John Deere	7330	
	John Deere	6120	John D	eere	6415	John Deere	5425	John	Deere	6430	John Deere	6120L	
	John Deere	7420	John D	eere	5310	John Deere	6320L	Johr	Deere	6330	John Deere	6220L	
100	Case/IH Com	bine	21442144	Cas	e/IH Combin	e 2377	Case/IH	Cotton	Picker	420	Case/IH Cotton	Picker	CPX610
100	Case/IH Com	bine	21662166	Cas	e/IH Combin	e 2388	Case/IH (Cotton	Picker	625	Case/IH Cotton	Picker	CPX620
	Case/IH Com	bine	21982188	Cas	e/IH Combin	e 2577	Case/IH (Cotton	Picker	2155	Case/IH Cotton	Picker	CPX420
2.40	Case/IH Com	bine	23442344	Cas	e/IH Combin	e 2588	Case/IH (Cotton	Picker	2555			
20.0	Case/IH Com	bine	23662366				Case/IH (Cotton	Picker	320			
a second													



Standard: ANSI/ASABE S60 For agriculture headlamps





LED Work Lights

Choose ETHER work lights for technologies: • High efficacy, up to 126Lm/W.

- Vibration level up to 15.3Grms, and impact to 60G.
- Tough housing against salt spray test of up to 480H
- Lens surface hardened.
- Complete ingress protection IP6K9K.
- etc...tested by ETHER's own lab.

HIGH LUMINOUS EFFICACY



E2155/E2155A	
on	Mechanical Features
Flood Beam or Spot Beam	DSize:
ECE R10	Housing Material:
ires	Lens Material:
16pcs 5W OSRAM P8 LED	PC Brand:
White	Mount:
5000-6500K	Bracket Material:
8800LM	Bolt Material:
4725LM	IP Rate:
1 lux @ 100m (Tilt: 0°)	Anti-Corrosion:
78.75LM/W	Vibration Level:
80W	Impact Force:
60W	Work Temp:
4.92A@12V, 2.42A@24V	Over Temp.
	Protection:
CISPR25 Class 5	So this is Life
ISO 13766	Life Time:
ISO 14982	I
ISO 7637-2	
10V~30V	
2 pin DT	
	Flood Beam or Spot Beam ECE R10 rres 16pcs 5W OSRAM P8 LED White 5000-6500K 8800LM 4725LM 1 lux @ 100m (Tilt: 0°) 78.75LM/W 80W 60W 4.92A@12V, 2.42A@24V es CISPR25 Class 5 ISO 13766 ISO 14982 ISO 7637-2 10V~30V

CTHER HATFIG

8800LM effective from 4.3" body

E2155C Flood

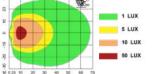
· Color temp. changing from 6000K to 3000K ·Active Thermal Managemer t built-in s surface harden and anti-scratch Passing salt spray test of 480H

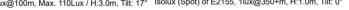


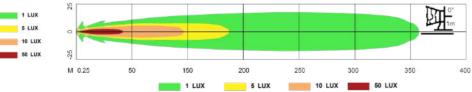


Isolux (Flood) of E2155,









110X146X90mm

Bottom Bracket

ISO 9227 240H

GB/T 10485

>30,000H

GB 4599-2007

60G -40~+80°C

Die-cast Aluminum

SUS316 Stainless Steel IP68, IP6K9K (SAE J1455)

15.3Grms 24~2000Hz

Aluminum Anti-UV PC COVESTRO 2407

Products subject to update, change or modify without notice.

V.: E2155-0324-22



ASYMMETRIC LENS PATTERN



Model:	E2155B	
Functions, Homologa	tion	
Beam Pattern	Asymmetric Beam	
Homologation:	ECE R10	
Optical & Electric Fea	tures	
LED Type:	32 pcs LEDs	
Emitting Color	White	
Color Temp:	3000-6000K (adjustable)	
Raw Lumen:	10320LM	
Effective Lumen:	2950LM,45w (Cold white)	
	3316LM,42w (Natural white)	
	3060LM,45w (Warm white)	
Raw Power:	115.2W	
Effective Power:	40~45W(to color)	
Electromagnetic Feat	ures	
EMC Grade:	CISPR25 Class 5	
EMC Standards:	ISO 13766	
	ISO 14982	
	ISO 7637-2	
Operating Voltage:	10V~30V	
Connector:	2 pin DT	

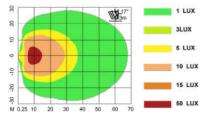
Size:	110X146X90mm
Housing Material:	Aluminum
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Mount:	Bottom Bracket
Bracket Material:	Die-cast Aluminum
Bolt Material:	SUS316 Stainless Steel
IP Rate:	IP68, IP6K9K (SAE J1455)
Anti-Corrosion:	ISO 9227 240H
Vibration Level:	15.3Grms 24~2000Hz
Impact Force:	60G
Work Temp:	-40~+80°C
Over Temp.	GB/T 10485
Protection:	GB 4599-2007
So this is Life	
Life Time:	>30.000H

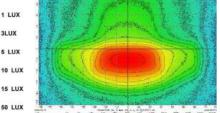
ETHER - MITTER 42,2004 Continued





Isolux (Asymmetric) of E2155B, 1lux@31m, Max. 343Lux / H:3.0m, Tilt: 17°





Plane energy distribution

Illumination E2155B

V:.E2155-0816-22

Any CCT from 3000K~6000K
No worry about rainy, foggy, dusty days
Heavy duties unstopped
Up to 5000LM, almost daylight illumination



6000K

FRESNEL STYLE LENS SERIES











Model:	E2118D	E2165B	E2155C	E2165D	E2165E
Functions, Homologa	tion				
Beam pattern:	Flood Beam (>180°)	Flood	Flood Beam	Flood	Flood
Homologations:	ECE R10, R23	ECE R10	ECE R10	ECE R10	ECE R10
Optical & Electric Fea	tures				
LED Type:	4pcs 10W LEDs	9 pcs 10W LEDs	16 pcs LEDs	9 pcs p8 LEDs	9pcs 10W OSRAM P8 LED
Raw Lumen:	6400LM	14400LM	17600LM	9900LM	9900LM
Effective Lumen:	3790LM	6000LM	6800LM	4738.5LM	4738.5LM
Raw Power:	40W	90W	160W	90W	90W
Effective Power:	30W	60W (ATM controlled)	90W	60W (ATM controlled)	60W (ATM controlled)
Electromagnetic Feat	ures				
EMC Grade:	CISPR 25 Class 5	CISPR 25 Class 5	CISPR25 Class 3	CISPR 25 Class 5	CISPR 25 Class 5
Operating Voltage:	10V~30V	10V~30V	10V~30V	10V~30V	10V~30V
Connector:	DT / AMP/ Cable (Optional)	DT	DT	DT	DT
Mechanical Features					
Size:	75.54X112.25X47.23mm	106.5X144.3X78.5mm	110X140X90mm	112.5X148.8X84.7mm	112.5X148.8X84.7mm
Housing Material:	Aluminium Alloy	Aluminium Alloy	Aluminum	Aluminium Alloy	Aluminium Alloy
Lens Material:	Anti-UV PC	Anti-UV PC	Anti-UV PC	Anti-UV PC	Anti-UV PC
Mount:	Bottom bracket	360°bottom bracket	Bottom bracket	Bottom bracket	Bottom bracket
Bracket material:	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
IP Rate:	IP67, IP6K9K	IP67, IP6K9K	IP68, IP6K9K (SAE J1455)	IP6K9K	IP6K9K
Work Temp:	-40~+50°C	-40~+50°C	-40~+80°C	-40~+50°C	-40~+50°C
So this is Life					
Life Time:	>30,000H	>30,000H	>30,000H	>30,000H	>30,000H

ETHER IATF16949:2016 Certificated Your strategic ODM/ODM auto lighting partner

Why Fresnel style lens design?

- Even light distribution
 Higher visibility and safety
 No annoyance of yellow spots
 Avoid drowsy driving

3000K

SIMILAR LENS STYLE

6000K





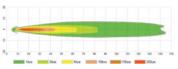


DE.	R10	Class 5	
Spot	ECE	CISPR 25	IP6K9K

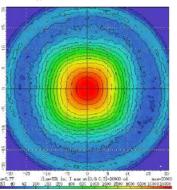
Model:	E2165C	E2165C (Blue)
Functions, Homologa	tion	
Beam pattern:	Spot	Blue pencil beam
Homologations:	ECE R10	ECE R10, EN62471
Optical & Electric Fea	tures	
LED Type:	9 pcs 10W OSRAM LEDs	9 pcs 3W LEDs
Emitting Color:	White	Blue
Raw Lumen:	9450LM	405LM
Effective Lumen:	6500LM	335LM
Raw Power:	90W	20W
Current flow:	5.00A@12V; 2.50A@24V	1.66A@12V; 0.83A@24V
Electromagnetic Feat	ures	
EMC Grade:	CISPR 25 Class 5	ECE R10 (10-80V) or
		CISPR 25 Class 5 (10-30V)
Operating Voltage:	10V~30V	10V~80V
Connector:	DT	DT
Mechanical Features		
Size:	106.5X144.3X78.5mm	106.5X144.3X78.5mm
Housing Material:	Aluminium Alloy	Aluminium Alloy
Lens Material:	Anti-UV PC	Anti-UV PC
Mount:	360°bottom bracket	360°bottom bracket
Bracket Material:	Stainless steel	Stainless steel
IP Rate:	IP67, IP6K9K	IP67, IP6K9K
Work Temp:	-40~+50°C	-40~+50°C
So this is Life		
Life Time:	>30,000H	>30,000H



E2165C(Blue), Isolux, 1lux@140m, H:1.5m, tilt:0°



Plane Energy Distribution







78.5

56

- OEM high power OSRAM LEDs Up to 6500LM output (White)
- Flood, spot and blue pencil beam optional
- ATM(Active Thermo Management)

- Protection against over heating
 360° rotating bracket optional
 High level EMC CISPR 25 Class 5

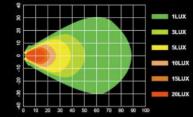
HIGH LUMINOUS EFFICACY

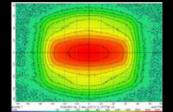


Model:	E2166/E2166D
Beam patterns, Homolo	gation
Beam Pattern	Flood or Asymmetric
Iomologation:	ECE R10
Optical & Electric Featu	res
ED Type:	12 pcs 5W OSRAM LEDs
mitting Color:	White
Color Temp:	5000-5500K
Raw Lumen:	6600LM
Effective Lumen:	3800LM
uminous Efficacy:	100.00LM/W
Raw Power:	60W
ffective Power:	38W
urrent Flow:	3.16A@12V; 0.16A@24V
ectromagnetic Featur	es
MC Grade:	CISPR 25 Class 5
perating Voltage:	10V~30V
onnector:	DT
lechanical Features	
Size:	112.5X148.8X84.7mm
lousing Material:	Aluminium Alloy
ens Material:	Anti-UV PC
ens Process:	Surface hardened
C Brand:	COVESTRO 2407
lount(optional):	Bottom bracket or flush
P Rate:	IP67, IP6K9K
Nork Temp:	-40~+50°C
So this is Life	
ife Time:	>30,000H











V.: E2166-0816-22





HIGH LUMINOUS EFFICACY



Flood	or	Asymmetric	
R10 ECE	Class 5 EMC CISPR 25	LED	ІР6К9К

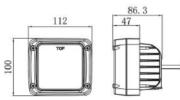
Model:	E2166C/E2166G
Beam patterns, Homole	ogation
Beam Pattern	Flood or Asymmetric
Homologation:	ECE R10
Optical & Electric Feat	ures
LED Type:	12 pcs 5W OSRAM LED
Emitting Color:	White
Color Temp:	5000-5500K
Raw Lumen:	6600LM
Effective Lumen:	3800LM
Luminous Efficacy:	100.00LM/W
Raw Power:	60W
Effective Power:	38W
Current flow:	3.16A@12V; 0.16A@24
Electromagnetic Featu	res
EMC Grade:	CISPR 25 Class 5
Operating Voltage:	10V~30V
Connector:	DT
Mechanical Features	
Size:	112.5X148.8X84.7mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Process:	Surface hardened
PC Brand:	COVESTRO 2407
Mount(optional):	Bottom bracket or flush
IP Rate:	IP67, IP6K9K

Work Temp: So this is Life

Life Time:



E2166B Flood E2166F Asymmetric





For both **OEM** and aftermarket **Rotating** bracket available now Installation more flexible 3 mounting options

Flush mount



-40~+50°C

>30.000H

V.: E2166-0816-22

E2166

4" SQUARE SIDE SHOOTER SERIES



Model:	E-WL-522-A
Functions, Homologation	
Functions:	Flood or Spot Beam
Homologation:	ECE R10
Optical & Electric Feature	9S
LED Type:	9pcs 10W LEDs
Color Temp:	2700~6500K (Variable)
Raw Lumen:	14850LM
Effective Lumen:	4950LM
Luminous Efficacy:	123.75LM/W
Raw Power:	90W
Effective Power:	40W
Current Draw:	3.33A@12V, 1.66A@24V
Electromagnetic Features	;
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	DT / AMP/ Cable (Optional)
Thermal Management:	Active (ATM)
Mechanical Features	
Size:	100X118X48.63mm
Housing Material:	Aluminum
Lens Material:	Anti-UV PC
Bracket:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	

>30.000H

ETHER IAT 516949:2016 Certificated Your strategic OEM/ODM auto lighting partner

1.Side shooter design with **Fresnel style** optics 2.Compact body but high power output 3.4950LM out of 4" body

4. Instant switch from 6000K to 3000 when it's foggy or dusty
5. Better penetration against harsh weather
6. Higher level of safety.



Life Time:

V.: E-WL-522-A-0816-22

6000K

E-WL-522-A

5

CISPR 25

R23

dia



M10



Model:	E-WL-522-B	E-WL-522-B-2
Functions, Homologation	on	
Functions:	Flood	Flood
Homologation:	ECE R10	ECE R10
Optical & Electric Featu	ires	
LED Type:	9pcs 2W LEDs	9pcs 5W LEDs
Color Temp:	6500K	6500K (Variable)
Raw Lumen:	2500LM	5850LM
Effective Lumen:	2000LM	5000LM
Luminous Efficacy:	100LM/W	111.1LM/W
Raw Power:	18W	45W
Effective Power:	20W	45W
Current Draw:	1.67A@12V, 0.83A@24V	3.75A@12V, 1.875A@24V
Electromagnetic Featur	es	
EMC Grade:	CISPR 25 Class 5	CISPR 25 Class 5
Operating Voltage:	10V~30V	10V~30V
Connector:	DT / AMP/ Cable (Optional)	DT / AMP/ Cable (Optional)
Mechanical Features		
Size:	98X118.5X40mm	98X118.5X51mm
Housing Material:	Aluminum	Aluminum
Lens Material:	Anti-UV PC	Anti-UV PC
Bracket:	Stainless Steel	Stainless Steel
IP Rate:	IP67, IP6K9K	IP67, IP6K9K
Work Temp:	-40~+50°C	-40~+50°C
So this is Life		
Life Time:	>30,000H	>30,000H

ETHER IATF16949:2016 Certificated Voor strategic OEM/00M w/o lighting perform

4" body of 5000LM effective output, >100LM/W.
High end LEDs from *LUMILEDS* or CREE + optional
Zero noise nor radio interference, EMC level: CISPR 25 Class 5
Crisp and natural lighting with high CRI>80.
Almost 180° side shooter illumination
No more dark corner, increased visibility



480H Lens surface hardened (2H

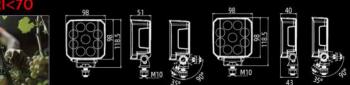




105

V.: E-WL-522-B-0903-22 ≡







Model:	E-WL-522-C	E-WL-522-C-2		
Functions, Homologation				
Functions:	Flood	Flood		
Homologation:	ECE R10	ECE R10		
Optical & Electric Featur	es			
LED Type:	9pcs 2W LEDs	9pcs 5W LEDs		
Color Temp:	6500K	6500K (Variable)		
Raw Lumen:	2500LM	5850LM		
Effective Lumen:	2000LM	5000LM		
Luminous Efficacy:	100LM/W	111.1LM/W		
Raw Power:	18W	45W		
Effective Power:	20W	45W		
Current Draw:	1.67A@12V, 0.83A@24V	3.75A@12V, 1.875A@24V		
Electromagnetic Features				
EMC Grade:	CISPR 25 Class 5	CISPR 25 Class 5		
Operating Voltage:	10V~30V	10V~30V		
Connector:	DT / AMP/ Cable (Optional)	DT / AMP/ Cable (Optional)		
Mechanical Features				
Size:	98X118.5X40mm	98X118X51mm		
Housing Material:	Aluminum	Aluminum		
Lens Material:	Anti-UV PC	Anti-UV PC		
Bracket:	Stainless Steel	Stainless Steel		
IP Rate:	IP67, IP6K9K	IP67, IP6K9K		
Work Temp:	-40~+50°C	-40~+50°C		
So this is Life				
Life Time:	>30,000H	>30,000H		



4" body of 5000LM effective output, >100LM/W.
High end LEDs from LUMILEDS or CREE + optional
Zero noise nor radio interference, EMC level: CISPR 25 Class
Crisp and natural lighting with high CRISEO.
Almost 180° side shooter illumination
No more dark corner, increased visibility



V.: E-WL-522-C-0903-22 Ξ













Mass Production

Model:	E-WL-LED-00036F	E-WL-LED-00036F-1		
Functions, Homologation				
Functions:	Flood	Flood		
Homologation:	ECE R10	ECE R10		
Optical & Electric Featu	res			
LED Type:	16pcs 2W LEDs	16pcs 3W LEDs		
Color Temp:	6500K (Variable)	6500K		
Raw Lumen:	4500LM	10400LM		
Effective Lumen:	3000LM	6500LM		
Luminous Efficacy:	93.75LM/W	102.2LM/W		
Raw Power:	32W	48W		
Effective Power:	32W	45W		
Current Draw:	2.67A@12V, 1.33A@24V	3.75A@12V, 1.875A@24V		
Electromagnetic Featur	es			
EMC Grade:	CISPR 25 Class 5	CISPR 25 Class 5		
Operating Voltage:	10V~30V	10V~30V		
Connector:	DT / AMP/ Cable (Optional)	DT / AMP/ Cable (Optional)		
Mechanical Features				
Size:	98X118.5X40mm	98X118.5X51mm		
Housing Material:	Aluminum	Aluminum		
Lens Material:	Anti-UV PC	Anti-UV PC		
Bracket:	Stainless Steel	Stainless Steel		
IP Rate:	IP67, IP6K9K	IP67, IP6K9K		
Work Temp:	-40~+50°C	-40~+50°C		
So this is Life				
Life Time:	>30,000H	>30,000H		

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ETHER IATF16949:2016 Certificated

A" body of 6500LM effective output, >100LM/W.
High end LEDs from *LumiLeDs* or cree = optional
Zero noise nor radio interference, EMC level: CISER 25 Cla
Crisp and natural lighting with high CRI>80,
Almost 180" side shooter illumination
No more dark corner, increased visibility

Salt spray test 240H/480H Lens surface hardened (2H) CRI>80

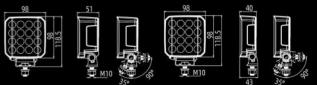




CRI<70

R10 ECE Class 5 EMC Class 5 EMC Class 5 EMC Class 5 IP6K9K







Mass Production

Model:	E-WL-LED-00036G	E-WL-LED-00036G-1/-2		
Functions, Homologation				
Functions:	Flood	Flood		
Homologation:	ECE R10	ECE R10		
Optical & Electric Featur	es			
LED Type:	16pcs 2W LEDs	16pcs 3W LEDs		
Color Temp:	6500K (Variable)	6500K		
Raw Lumen:	4500LM	10400LM		
Effective Lumen:	3000LM	6500LM		
Luminous Efficacy:	93.75LM/W	102.2LM/W		
Raw Power:	32W	48W		
Effective Power:	32W	45W		
Current Draw:	2.67A@12V, 1.33A@24V	3.75A@12V, 1.875A@24V		
Electromagnetic Feature	s			
EMC Grade:	CISPR 25 Class 5	CISPR 25 Class 5		
Operating Voltage:	10V~30V	10V~30V		
Connector:	DT / AMP/ Cable (Optional)	DT / AMP/ Cable (Optional)		
Mechanical Features				
Size:	98X118.5X40mm	98X118.5X51mm		
Housing Material:	Aluminum	Aluminum		
Lens Material:	Anti-UV PC	Anti-UV PC		
Bracket:	Stainless Steel	Stainless Steel		
IP Rate:	IP67, IP6K9K	IP67, IP6K9K		
Work Temp:	-40~+50°C	-40~+50°C		
So this is Life				
Life Time:	>30,000H	>30,000H		

ETHER IATF16949:2016 Certificated Your strategic DBM/DDM auto lighting partner

- 4" body of 6500LM effective output, >100LM/W - High end LEDs from 🥙 LUMILEDS or CREE ÷ optional noise nor radio interference, EMC level: CISP - Crisp and natural lighting with high CRI>80 - Almost I *illumination* - No more dark corner, increased visibility



CRI<70 CRI>80





R10 ECE Class 5 EMC CISPR 25 IP6K9K

V.: E-WL-LED-00036G-0816-22 = Effective Effective Raw Raw 3000 10400 6500 4500 LM LM LM LN E-WL-LED-00036G-2 E-WL-LED-00036G E-WL-LED-00036G-1





ASYMMETRIC LENS PATTERN



Model:	E2172
Functions, Homologa	tion
Beam Pattern	Asymmetric Beam
Homologation:	ECE R10
Optical & Electric Fea	tures
LED Type:	30pcs 3W LEDs
Emitting Color	White
Color Temp:	5700-6500K
Raw Lumen:	10440LM
Effective Lumen:	7000-7800LM
Luminous Efficacy:	93.3LM/W
Raw Power:	90W
Effective Power:	75-85W
Current Flow:	6.25A@12V,3.54A@24V
Electromagnetic Feat	ures
EMC Grade:	CISPR25 Class 3
EMC Standards:	ISO 13766
	ISO 14982
	ISO 7637-2
Operating Voltage:	10V~30V

2 pin DT

Connector:

Mechanical Features	
DSize:	110X146X90mm
Housing Material:	Aluminum
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Mount:	Bottom Bracket
Bracket Material:	Die-cast Aluminum
Bolt Material:	SUS316 Stainless Steel
IP Rate:	IP68, IP6K9K (SAE J1455)
Anti-Corrosion:	ISO 9227 240H
Vibration Level:	15.3Grms 24~2000Hz
Impact Force:	60G
Work Temp:	-40~+80°C
Over Temp.	GB/T 10485
Protection:	GB 4599—2007
So this is Life	
Life Time:	>30,000H



Asymmetric beam pattern More light to work field



Products subject to update, change or modify without notice.

V.: E2172-0816-22



Functions:	Flood
Homologations	ECE R10
Optical & Electric Feature	es
LED Type:	30 pcs 1W LED(s)
Color Temp:	White
Raw Lumen:	5040LM
Effective Lumen:	2309.58LM
Luminous Efficacy:	85.5LM/W
Raw Power:	30W
Effective Power:	27W
Current Draw:	2.25A@12V, 1.125A@24V
Electromagnetic Feature	S
EMC Grade:	ECE R10
Operating Voltage:	10V~30V
Connector:	Open cable
Mechanical Features	
Size:	152X99X104mm
Housing Material:	Aluminum
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	201 or 304 Bolt
IP Rate:	IP67,PI6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000h

E2161A

Model:

Functions, Homologation

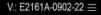
ETHER · IATF16949:2016 Certificated

- OEM design with Generic mounting options.

- Super conducting graphene housing
- Light weight but robust
- High efficacy, up to 85.5LM/W
- EMC level, CISPR 25 Class 5



R10



Flexible mounting options



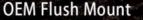




Model:	E2178
Functions, Homologati	on
Functions:	Flood
Homologations	ECE R10
Optical & Electric Feature	ures
LED Type:	8 pcs 10W LED(s)
Color Temp:	White
Raw Lumen:	13200LM / 8800LM / 4000LM(optional)
Effective Lumen:	5200LM / 4350LM / 2950LM(optional)
Luminous Efficacy:	123.8LM/W, 103.5LM/W, 92.1LM/W(optional)
Raw Power:	80W
Effective Power:	42W / 32W(optional)
Current Draw:	42W: 3.5A@12V, 1.75A@24V
	32W: 2.67A@12V, 1.33A@24V
Electromagnetic Featu	res
EMC Grade:	ECE R10
Operating Voltage:	10V~30V
Connector:	Cable or DT
Mechanical Features	
Size:	142.5X55.24X82mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Flush / Bottom / Side Mount(optional)
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



• Fresnel style optics, OEM mounting, CISPR 25 C • Diversified optical and mounting options • High lumen options are 5 , 4350LM, and 2950LM e mounting options to your heart content: • Bottom mounted, Side mounted, and OEM flush mount. management to guarantee optimized lighting experience 0



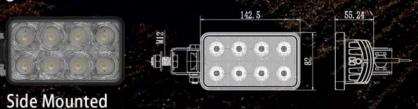
OEM Flush Mount Bottom Mounted



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V.: E2178-V0831-22

E2178 Concept Design





Concept Design

Development

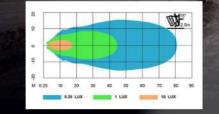
Sample Stage Mass Production

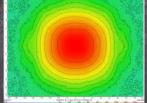
Model:	E2151
Functions, Homologatio	n
Functions	Auxiliary Work Light
Beam Pattern	Flood or Spot
Approvals/Standards:	ECE R10
Optical & Electric Featur	res
LED Type:	10 pcs 3W LED(s)
Emitting Color	White
Color Temp:	6500K
Raw Lumen:	2600LM
Effective Lumen:	860LM
Luminous Efficacy:	86LM/W
illumination	1 lux @43m
Raw Power:	30W
Effective Power:	10W
Current flow:	0.83A@12V, 0.42A@24V
current now.	0 . 0
Electromagnetic Feature	95
	ECE R10
Electromagnetic Feature	
Electromagnetic Feature EMC Grade:	ECE R10
Electromagnetic Feature EMC Grade: Operating Voltage:	ECE R10 10V~30V
Electromagnetic Feature EMC Grade: Operating Voltage: Connector:	ECE R10 10V~30V
Electromagnetic Feature EMC Grade: Operating Voltage: Connector: Mechanical Features	ECE R10 10V~30V Open cable
Electromagnetic Feature EMC Grade: Operating Voltage: Connector: Mechanical Features Size:	ECE R10 10V~30V Open cable 104X72X34mm
Electromagnetic Feature EMC Grade: Operating Voltage: Connector: Mechanical Features Size: Housing Material:	ECE R10 10V~30V Open cable 104X72X34mm Aluminum
Electromagnetic Feature EMC Grade: Operating Voltage: Connector: Mechanical Features Size: Housing Material: Lens Material:	ECE R10 10V~30V Open cable 104X72X34mm Aluminum Anti-UV PC
Electromagnetic Feature EMC Grade: Operating Voltage: Connector: Mechanical Features Size: Housing Material: Lens Material: PC Brand:	ECE R10 10V~30V Open cable 104X72X34mm Aluminum Anti-UV PC COVESTRO 2407
Electromagnetic Feature EMC Grade: Operating Voltage: Connector: Mechanical Features Size: Housing Material: Lens Material: PC Brand: Mount: IP Rate: Work Tem:	ECE R10 10V~30V Open cable 104X72X34mm Aluminum Anti-UV PC COVESTRO 2407 201 or 304 Bolt
Electromagnetic Feature EMC Grade: Operating Voltage: Connector: Mechanical Features Size: Housing Material: Lens Material: PC Brand: Mount: IP Rate:	ECE R10 10V~30V Open cable 104X72X34mm Aluminum Anti-UV PC COVESTRO 2407 201 or 304 Bolt IP67,PI6K9K



Wide applicaions on almost all commercial vehicles

- Raw Lumen: 2600LM
- Effective Lumen:
- Luminous Efficacy: 86LM/W
- Effective Power:
- over 200 m² illumination

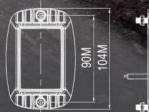




GETHER







9" MINI AUXILIARY DRIVING LIGHT BAR



. Fresnel style lens PROJECT PHASE

Concept Design

Development

Sample Stage Mass Production

DE Flood				
R10 ECE	R23 ECE	Class 5 EMC CISPR 25	IP6K9K	



Model:	: E2174 E2174-1(R2	
Functions, Homologation	n	
Function(optional):	Flood b	eam
	Reversing (with R2	3 slope bracket)
	Asymmetri	c beam
Homologation(opitonal):	ECE R23	, R10
Optical & Electric Featur	es	
LED Type:	6 pcs OSRAM 5W LEDs	6 pcs 6W LEDs
Emitting Color:	White	White
Color Temp:	5700K-6500K	5700K-6500K
Raw lumen:	3300LM	4320LM
Effective lumen:	2780LM	2411LM
Raw power:	30W	36W
Effective power:	30W	29W
Current draw@12V:	2.5A	2.42A
Electromagnetic Feature	s	
EMC Grade:	CISPR 25 Class 3	CISPR 25 Class 5
Operating Voltage:	10V~30V	10V~30V
Connector:	Cable	Cable
Mechanical Features		
Size:	231.4X61.9X35mm	231.4X61.9X35mm
Housing Material:	Aluminum	Aluminum
Lens Material:	Anti-UV PC	Anti-UV PC
Mount:	Back mount	Slope bracket
IP Rate:	IP67, IP6K9K	IP67, IP6K9K
Work Temp:	-40~+50°C	-40~+50°C
So this is Life		
Life Time:	>30,000H	>30,000H



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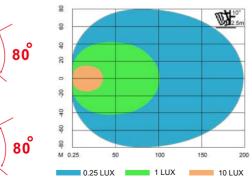
HIGH LUMINOUS EFFICACY



Model:	E2138
Functions, Homologati	on
Beam Pattern	180° Super Flood
Homologation:	ECE R10
Optical & Electric Featu	ires
LED Type:	15pcs 10W OSRAM P9 LEDs
Emitting Color	White
Color Temp:	6500K
Raw Lumen:	15750LM
Effective Lumen:	11000LM
Illumination Distance:	1 lux @ 100m
Luminous Efficacy:	89.56LM/W
Raw Power:	150W
Effective Power:	80W
Current flow:	7.08A@12V, 3.24A@24V
Electromagnetic Featur	res
EMC Grade:	CISPR 25 Class 5
Operating Voltage:	10V~30V
Connector:	DT / AMP/ Cable (Optional)

Housing Material:	Aluminum
Lens Material:	Anti-UV PC + Hardening
PC Brand:	COVESTRO 2407
Mount:	Bottom Bracket
Bracket:	Stainless Steel
Bracket thickness:	4mm
Bracket tilt angle	80°
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
Vibration Level:	15.3Grms
So this is Life	
Life Time:	>30,000H
Bracket Optional	
E2138-1 Wide	172X127X197mm
E2138-2 Narrow	138X127X217mm

Isolux of E2138 Flood, H.:2.5m, tilt: 10°





Effective

A TA TA TA TA

Raw

15750

Designed for heavy duty

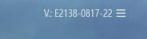
Lens surface hardened and anti-scratch
180° even flood ,No Dark Corner ,Increased visibility
High level EMC CISPR 25 Class 5
Passing salt spray test of 480H





Wide Bracket

172.00







Model:	E2152A	
Functions, Homologati	on	
Beam Pattern:	Flood	
Standards:	ECE R10	
Optical & Electric Featu	ires	
ED Type:	12 pcs 3W OSRAM LED(s)	
Color Temp:	5000~6500K	
Raw Lumen:	4800LM	
Effective Lumen:	2250LM	
uminous Efficacy:	90LM/W	
Raw Power:	36W	
Effective Power:	25W	
Current Draw:	2.09A@12V; 1.5A@24V	
Electromagnetic Featur	res	
EMC Grade:	CISPR 25 Class 3	
Operating Voltage:	10V~30V	
Decoder:	PWM	
Connector:	DT / AMP/ Cable (Optional)	
Mechanical Features		
Size:	148X92X80mm	
Iousing Material:	Aluminium Alloy	
ens Material:	Anti-UV PC	
PC Brand:	COVESTRO 2407	
Bracket:	201 or 304 Stainless Steel	
P Rate:	IP67, IP6K9K	
Nork Temp:	-40~+50°C	
So this is Life		
_ife Time:	>30,000h	

CTHER • NATF16949:2016 Certificated

Designed for Wide applications Classic Halogen surfaceHigh efficacy OSRAM LED Effective lumen 2250 Lm Effective power 25W CISPR 25 Class 3 high level of EMC PWM decoder Zero flickering Even flood beam Ideal for general work purposes



V:.E2152A-0816-22





ASYMMETRIC LENS PATTERN



Develop	ment			Connector:
Sample S	Stage			Mechanical F
Mass Proc	luction		0	Size:
111110011100			Contra Co	Housing Mate
			-W	Lens Material
0	8 - B			PC Brand:
G.C.	R10			Bracket:
Asymmetric	ECE	IP6K9K		IP Rate:
				Work Temp:

Model:	E2101
Functions, Homologati	on
Beam Pattern	Asymmetric lens pattern
Homologation:	ECE R10
Optical & Electric Feat	ures
LED Type:	36pcs 3W SMD LEDs
Color Temp:	5000~6500K
Raw Lumen:	11160LM
Effective Lumen:	6300LM
Luminous Efficacy:	109LM/W
Raw Power:	108W
Effective Power:	48W
Current Draw:	4.00A@12V; 2.00A@24V
Electromagnetic Featu	res
EMC Grade:	ECE R10
Operating Voltage:	10V~30V
Connector:	DT / AMP/ Cable (Optional)
lechanical Features	
Size:	160X93.3X110.8mm
Housing Material:	Aluminium Alloy
ens Material:	Anti-UV PC
C Brand:	COVESTRO 2407
Bracket:	Stainless Steel

IP67, IP6K9K

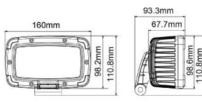
-40~+50°C

>30,000H

So this is Life

Life Time:





ASYMMETRIC LENS PATTERN



	Model:	E210
	Functions, Homologati	on
	Beam Pattern	Asym
	Homologation:	ECE
	Optical & Electric Feature	ures
	LED Type:	36pcs
	Color Temp:	5000
	Raw Lumen:	7920
	Effective Lumen:	5222
	Luminous Efficacy:	109L
	Raw Power:	108W
	Effective Power:	48W
	Current Draw:	4.00A
	Electromagnetic Featur	res
	EMC Grade:	CISP
	Operating Voltage:	10V~
	Connector:	DT / A
	Mechanical Features	
>	Size:	160X
	Housing Material:	Alum
	Lens Material:	Anti-l
	PC Brand:	COV
	Bracket:	Stain
	IP Rate:	IP67,
	Work Temp:	-40~+
	So this is Life	
	Life Time:	>30,0

2101-2

symmetric lens pattern

CE R10

6pcs 3W SMD LED(s) 000~6500K 920LM 222.7LM 09LM/W 08W .00A@12V; 2.00A@24V

ISPR 25 Class 3 0V~30V T / AMP/ Cable (Optional)

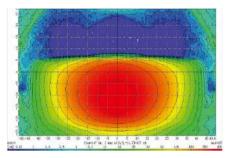
60X112X129.5mm luminium Alloy nti-UV PC OVESTRO 2407

tainless Steel

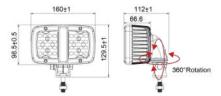
P67, IP6K9K

40~+50°C

30,000H







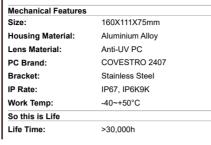
WWW.LEDETHER.COM



Model:	E2102	1
Functions, Homologa	tion	Mechani
Beam Pattern	80° Flood Beam	Size:
Homologation:	ECE R10	Housing
Optical & Electric Fea	tures	Lens Ma
LED Type:	21pcs LEDs	PC Bran
Color Temp:	5000~6500K	Bracket:
Raw Lumen:	4830LM	IP Rate:
Effective Lumen:	4318.5LM	Work Te
Luminous Efficacy:	118.7LM/W	So this i
Raw Power:	63W	Life Time
Effective Power:	36.36W	
Current Draw:	3.03A@12V; 1.515A@24V	
Electromagnetic Feat	ures	
EMC Grade:	CISPR 25 Class 3	
Operating Voltage:	10V~30V	

DT / AMP/ Cable (Optional)

Connector:



HIGH LUMINOUS EFFICACY 4X6" LED WORK LIGHT

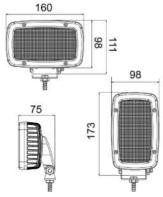


Model:	E2102-2
Functions, Homologa	tion
Beam Pattern	80°Flood
Homologation:	ECE R10
Optical & Electric Fea	tures
LED Type:	21pcs LE
Color Temp:	5000~650
Raw Lumen:	4830LM
Effective Lumen:	4318.5LN
Luminous Efficacy:	118.7LM/
Raw Power:	63W
Effective Power:	36.36W
Current Draw:	3.03A@1
Electromagnetic Feat	ures
EMC Grade:	CISPR 2
Operating Voltage:	10V~30V
Connector:	DT / AMP

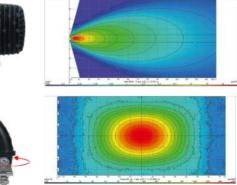


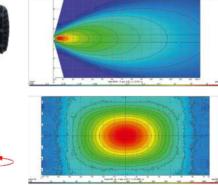
FCF











02-2

Mechanical Features	
Size:	160X129.5X112mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000h
	Size: Housing Material: Lens Material: PC Brand: Bracket: IP Rate: Work Temp: So this is Life

A@12V; 1.515A@24V

PR 25 Class 3 -30V AMP/ Cable (Optional)



E2102-2



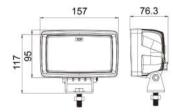
55W Halogen Work Light

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130



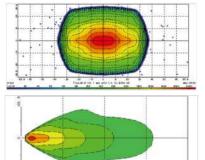


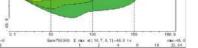


	Model:	E
	Functions, Homologa	tion
	Beam Pattern	Ti
ALC: NOT	Homologation:	E
ing in the second s	Optical & Electric Fea	ture
	LED Type:	1
-	Color Temp:	5
	Raw Lumen:	6
	Effective Lumen:	3
	Luminous Efficacy:	7
	Raw Power:	6
	Effective Power:	4
	Current Draw:	3.
T PHASE:	Electromagnetic Feat	ures
ot Design	EMC Grade:	С
	Operating Voltage:	1
opment	Decoder:	Ρ
le Stage	Connector:	D

	E2129
ns, Homologa	tion
attern	Trapezoidal Beam
gation:	ECE R10
& Electric Fea	tures
be:	12pcs Osram P8 5W LEDs
emp:	5000~6500K
men:	6600LM
e Lumen:	3100LM
us Efficacy:	77.5LM/W
wer:	60W
e Power:	40W
Draw:	3.3A@12V; 1.67A@24V

chomagnetic reatures	
IC Grade:	CISPR 25 Class 3
erating Voltage:	10V~30V
coder:	PWM
nnector:	DT / AMP/ Cable (Optional





Mechanical Features	
Size:	157X117X76.3mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000h







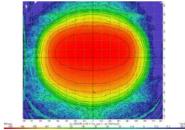
ASYMMETRIC LENS PATTERN



35 %

15%

Model:	E2110
Functions, Homologa	tion
Beam Pattern	Asymme
Homologation:	ECE R1
Optical & Electric Fea	tures
LED Type:	50pcs S
Color Temp:	5000~65
Raw Lumen:	7000LM
Effective Lumen:	2467.7L
Luminous Efficacy:	132.6LN
Raw Power:	50W
Effective Power:	18.6W
Current Draw:	1.5A@1
Electromagnetic Feat	ures
EMC Grade:	ECE R1
Operating Voltage:	10V~30
Connector:	DT or O

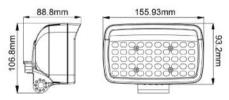


	Mechanical Features		
metric lens pattern	Size:	156X106X89mm	
R10	Housing Material:	Aluminium Alloy, PC	
	Lens Material:	Anti-UV PC	
SMD LEDs	PC Brand:	COVESTRO 2407	
6500K	Bracket:	Stainless Steel	
M	IP Rate:	IP66, IP6K9K	
7LM	Work Temp:	-40~+50°C	
LM/W	So this is Life		
	Life Time:	>30,000H	

.

5A@12V; 0.75A@24V

R10 V~30V or Open Cable





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PROJECT PHASE Concept Design Development Sample Stage Mass Production

lodel:	E2143
unctions, Homologatio	n
Beam Pattern	Flood Beam
lomologation:	ECE R10
Optical & Electric Featu	res
ED Type:	30pcs 3W SMD LED(s)
olor Temp:	5000~6500K
Raw Lumen:	5800LM
ffective Lumen:	3471LM
uminous Efficacy:	131.25LM/W
Raw Power:	90W
ffective Power:	45W
Current Draw:	3.75A@12V; 1.88A@24V
ectromagnetic Feature	es
MC Grade:	CISPR 25 Class 5
Operating Voltage:	10V~30V
Connector:	DT / AMP/ Cable (Optional)
lechanical Features	
Size:	105X188X76.3mm
lousing Material:	Aluminium Alloy
ens Material:	Anti-UV PC
C Brand:	COVESTRO 2407
Bracket:	Stainless Steel
P Rate:	IP67, IP6K9K
Vork Temp:	-40~+50°C
this is Life	
ife Time:	>30,000h

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- Bright Focus and wide illumination
- •1 lux@79m
- 45W Effective Power
- 3471Lm Effective Lumen
- High level of EMC, CISPR 25 Class 5
- Zero interfering with AM/FM radio signals
- 360° rotating bracket









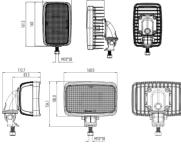
V:.E2144-0903-22



E2143



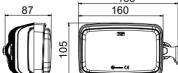
Model:	E2143A
Functions, Homologat	ion
Beam Pattern	Flood Beam
Homologation:	ECE R10
Optical & Electric Feat	ures
LED Type:	30pcs 3W SMD LED(s)
Color Temp:	5000~6500K
Raw Lumen:	5800LM
Effective Lumen:	3471LM
Luminous Efficacy:	131.25LM/W
Raw Power:	90W
Effective Power:	45W
Current Draw:	3.75A@12V; 1.88A@24V
Electromagnetic Featu	res
EMC Grade:	CISPR 25 Class 5
Operating Voltage:	10V~30V
Connector:	DT / AMP/ Cable (Optional)
Mechanical Features	
Size:	160X134.1X113.7mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000h

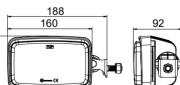


HIGH LUMINOUS EFFICACY 4X6" LED WORK LIGHT









Model: Functions. Hom Beam Pattern Homologation: **Optical & Elect** LED Type: Color Temp: Raw Lumen: Effective Lume Luminous Effic Raw Power: Effective Powe Current Draw: Electromagnet EMC Grade: Operating Volta Connector: Mechanical Fea Size: Housing Materi Lens Material: PC Brand: Bracket: IP Rate: Work Temp: So this is Life Life Time:

PROJECT PHASE:

Concept Design

Development

Sample Stage

Mass Production

mologati	on
	Trapezoidal Beam
:	ECE R10
tric Featu	ures
	12 pcs 4 W SMD LED(s)
	5000~6500K
	5800LM
en:	3600M
cacy:	131.25LM/W
	48W
ər:	40W
	3.75A@12V; 1.88A@24V
tic Featu	res
	CISPR 25 Class 3
age:	10V~30V
	DT / AMP/ Cable (Optional)
atures	
	188X92X105
rial:	Aluminium Alloy
	Anti-UV PC
	COVESTRO 2407
	Stainless Steel
	IP67, IP6K9K
	-40~+50°C
	- 00 000h

>30,000h

E2142



Model:	E2103
Functions, Homologat	tion
Beam Pattern	Flood Beam
Homologation:	ECE R10
Optical & Electric Feat	tures
LED Type:	14pcs 3W LEDs
Color Temp:	5000~6500K
Raw Lumen:	3360LM
Effective Lumen:	1813.77LM
Illumination:	1 lux @72m
Luminous Efficacy:	64.78LM/W
Raw Power:	42W
Effective Power:	28W
Current Draw:	2.33A@12V, 1.17@24V
Electromagnetic Featu	ures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V

Connector:

Mechanical Features	
Size:	148X95X79mm
Housing Material:	Aluminium Alloy
ens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
P Rate:	IP67, IP6K9K
Nork Temp:	-40~+50°C
So this is Life	
_ife Time:	>30,000H

1000

1 LUX 5 LUX 10 LUX 50 LUX

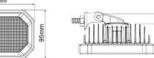
HIGH LUMINOUS EFFICACY	
2X5" LED WORK LIGHT	



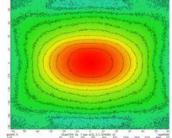
Model:	E2124		
Functions, Homologat	ion	Mechanical Features	
Functions	Work Light	Size:	110X76.6X51mm
Beam Pattern	80°Flood Beam	Housing Material:	Aluminium Alloy
Homologations	ECE R10	Lens Material:	Anti-UV PC
Optical & Electric Fea	tures	PC Brand:	COVESTRO 2407
LED Type:	10pcs 3W LEDs	Bracket:	Stainless Steel
Color Temp:	5000~6500K	IP Rate:	IP67, IP6K9K
Raw Lumen:	1800LM	Work Temp:	-40~+50°C
Effective Lumen:	1440LM	So this is Life	
Luminous Efficacy:	120LM/W	Life Time:	>30,000H
Raw Power:	30W	Part number:	
Effective Power:	12W	E2124	40cm cable only
Current Draw:	1A@12V; 0.5A@24V	E2124	AMP 2P male connector
Electromagnetic Featu	ires		
EMC Grade:	ECE R10	E2124-2	DEUTSCH 2P male connecto
Operating Voltage:	10V~30V		
Connector:	DT / AMP/ Cable (Optional)	•	



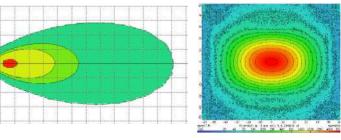








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10		16 2
ECE	IP6K9K	0



137 WWW.LEDETHER.COM DT / AMP/ Cable (Optional)





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FLUSHBONADING LED WORK LIGHTS **4" SQUARE WORK LIGHT**





PROJECT PHASE Concept Design
Development
Sample Stage
Mass Production

Functions, Homologa	tion
Functions:	Flood Beam
Homologations	ECE R10
Optical & Electric Fea	tures
LED Type:	30pcs 3W LED(s)
Color Temp:	5000~6500K
Raw Lumen:	9900LM
Effective Lumen:	3550LM
Max illumination:	1Lux@106m
Work illumination:	1Lux@76m
Luminous Efficacy:	98.6LM/W
Raw Power:	90W
Effective Power:	36W
Current Draw:	3A@12V; 1.5A@24V

E2106A

Model:

Electromagnetic Features CISPR 25 Class 5 EMC Grade: Operating Voltage: 10V~30V DT / AMP/ Cable (Optional) Connector:

Mechanical Features	
Size:	182.5X101.8X65mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Flushbonading
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

182. 2875



FLUSHBONADING LED WORK LIGHTS **4" SQUARE WORK LIGHT**



		PROJECT PHASE:
		Concept Design
		Development
		Sample Stage
		Mass Production
R10 ECE	IP6K9K	

Operating Voltage:	10V~3
Connector:	DT / A
Why Trapezoidal Beam?	
why hapezoidal beam	
Trapezoidal Beam	
Contraction of the	de la com
and the second second	

Model:

Functions:

LED Type:

Color Temp:

Raw Lumen:

Raw Power:

Effective Lumen:

Effective Power:

Current Draw: Electromagnetic Features

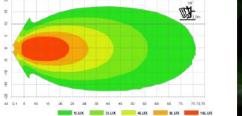
EMC Grade:

Luminous Efficacy:

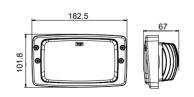
Homologations

Functions, Homologation

Optical & Electric Features









Products subject to update, change or modify without notice.

E2137			
tion	Mechanical Features		
Trapezoidal Beam	Size:	182.5X101.8X67mm	
ECE R10	Housing Material:	Aluminium Alloy	
tures	Lens Material:	Anti-UV PC	
12pcs Osram P8 5W LED(s)	PC Brand:	COVESTRO 2407	
5000~6500K	Bracket:	Flushbonading	
6600LM	IP Rate:	IP67, IP6K9K	
3071.04LM	Work Temp:	-40~+50°C	
127.96LM/W	So this is Life		
60W	Life Time:	>30,000H	

2.0A@12V; 1.0A@24V

E2137

24W

CISPR 25 Class 3 10V~30V AMP/ Cable (Optional)

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HIGH LUMINOUS EFFICACY 4X6" LED WORK LIGHT HORIZONTAL-HIGH POWER





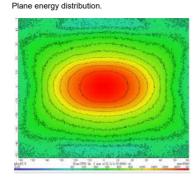
Model:	E2121	1
Functions, Homologation		Mechanical
Beam Pattern	80° Flood Beam	Size:
Homologation:	ECE R10	Housing Ma
Optical & Electric Features		Lens Materi
LED Type:	14pcs 3W LEDs	PC Brand:
Color Temp:	5000~6500K	Bracket:
Raw Lumen:	2800LM	IP Rate:
Effective Lumen:	2359.4LM	Work Temp:
Luminous Efficacy:	75.9LM/W	So this is Li
Raw Power:	42W	Life Time:
Effective Power:	31 W	
Current Draw:	2.59A@12V; 1.295A@24V	
Electromagnetic Feat	ures	
EMC Grade:	ECE R10	

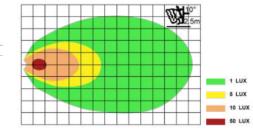
10V~30V Operating Voltage

DT / AMP/ Cable (Optional) Connector:



Mechanical Features		
Size:	179.29X95X58.61mm	
Housing Material:	Aluminium Alloy	
Lens Material:	Anti-UV PC	
PC Brand:	COVESTRO 2407	
Bracket:	Stainless Steel	
IP Rate:	IP67, IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30,000H	





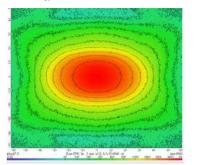


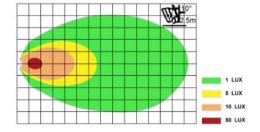
HIGH LUMINOUS EFFICACY 4X6" LED WORK LIGHT HORIZONTAL-HIGH POWER



Model:	E2121-1	
Functions, Homologat	tion	Mechanical Features
Beam Pattern	80° Flood Beam	Size:
Homologation:	ECE R10	Housing Material:
Optical & Electric Feat	tures	Lens Material:
LED Type:	14pcs 5W LEDs	PC Brand:
Color Temp:	5000~6500K	Bracket:
Raw Lumen:	7000LM	IP Rate:
Effective Lumen:	3600LM	Work Temp:
Luminous Efficacy:	100LM/W	So this is Life
Raw Power:	70W	Life Time:
Effective Power:	36 W	
Current Draw:	3A@12V; 1.5A@24V	
Electromagnetic Featu	ures	
EMC Grade:	CISPR 25 Class 5	
Operating Voltage:	10V~30V	
Connector:	DT / AMP/ Cable (Optional)	

Plane energy distribution.







- Anti-UV PC
- COVESTRO 2407
- Stainless Steel
- IP67, IP6K9K
- -40~+50°C
- >30,000H



ASYMMETRIC LENS PATTERN



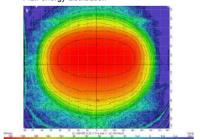
Nodel:	E2108
unctions, Homologatio	n
Beam Pattern	Asymmetric lens pattern
Iomologation:	ECE R10
Optical & Electric Featu	res
ED Type:	30pcs SMD LEDs
Color Temp:	5000~6500K
Raw Lumen:	4200LM
ffective Lumen:	1923.5LM
uminous Efficacy:	128.2LM/W
Raw Power:	30W
ffective Power:	15W
Current Draw:	1.29A@12V; 0.645A@24V
Electromagnetic Feature	es
MC Grade:	ECE R10

Operating Voltage: 10V~30V DT or Open Cable Connector:

Mechanical Features	
Size:	107X120.6X108.6mm
Housing Material:	Aluminium Alloy, PC
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30.000H

108.6mm 107mm 95.3mm

Plan energy distribution





ASYMMETRIC LENS PATTERN



ard T	
Li)	
E2109	E: With

106.5±0.5

ECE

E2109/E2109-1

tion	Mechanical Features	
Asymmetric lens pattern	Size:	107X120.6X108.6mm
ECE R10	Housing Material:	Aluminium Alloy, PC
tures	Lens Material:	Anti-UV PC
30pcs SMD LEDs	PC Brand:	COVESTRO 2407
5000~6500K	Bracket:	Stainless Steel
4200LM	IP Rate:	IP54
1923.5LM	Work Temp:	-40~+50°C
128.2LM/W	So this is Life	
30W	Life Time:	>30,000H

1.29A@12V; 0.645A@24V

ECE R10 10V~30V DT or Open Cable

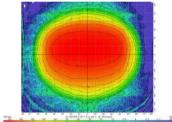
15W





E2109-1 With A Switch

Plan energy distribution





HIGH LUMINOUS EFFICACY



Model:	E2120	
Functions, Homologa	tion	Mech
Functions:	80°Flood Beam	Size:
Homologations	ECE R10	Hous
Optical & Electric Fea	tures	Lens
LED Type:	9pcs 5W LEDs	PC B
Color Temp:	5000~6500K	Mour
Raw Lumen:	4950LM	Brack
Effective Lumen:	3087LM	IP Ra
Luminous Efficacy:	114LM/W	Work
Raw Power:	45W	So th
Effective Power:	28.5W	Life 1
Current Draw:	2.37A@12V; 1.18A@24V	
Electromagnetic Feat	ures	3W L
EMC Grade:	CISPR 25 Class 3	Part n
Operating Voltage:	10V~30V	
Connector:	DT / AMP/ Cable (Optional)	

Mechanical Feature	5
Size:	120X237.7X61mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Mount:	Cigar Lighter Pedestal
Bracket:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H
3W LED power optic	onal
Part number:	D-GZ-FXD-0279
	9 pcs 3W LEDs

- 61 -

HIGH LUMINOUS EFFICACY 4" SQUARE WORK LIGHT

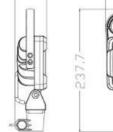


Model:	E2120-2
Functions, Homologa	tion
Functions:	80° Flood Beam
Homologations	ECE R10
Optical & Electric Fea	tures
LED Type:	9pcs 3W LEDs
Color Temp:	5000~6500K
Raw Lumen:	2250LM
Effective Lumen:	1500LM
Luminous Efficacy:	114LM/W
Raw Power:	27W
Effective Power:	24W
Current Draw:	2A@12V; 1A@24V
Electromagnetic Feat	ures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	DT / AMP/ Cable (O

PROJECT PHASE:

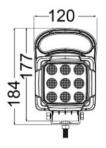
Concept Design
Development
Sample Stage
Mana Decidentian







Mechanical Features	
Size:	120X184X58mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket Material:	PC + Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H
5W LED power option	al
Part number:	D-GZ-FXD-0317
	9 pcs 5W LEDs





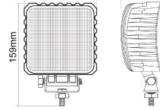
CLASSIC LED WORK LIGHTS



Model:	E-WL-511
Functions, Homologation	on
Beam pattern:	Flood or Spot or Combo Beam
Homologations:	ECE R10
Optical & Electric Featu	ires
LED Type:	16pcs 3W SMD LEDs
Color Temp:	5000~6500K
Raw Lumen:	3840LM
Effective Lumen:	3688LM
Luminous Efficacy:	131.71LM/W
Raw Power:	48W
Effective Power:	28W
Current Draw:	2.33A@12V; 1.16@24V
Electromagnetic Featur	res
EMC Grade:	CISPR 25 Class 5
Operating Voltage:	10V~30V
Connector:	DT / AMP/ Cable (Optional)
Mechanical Features	
Size:	112.1X159X54.5mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
P Rate:	IP67,IP6K9K
Nork Temp:	-40~+50°C
So this is Life	

>30,000H

Life Time:



54.5mm

112.1mm

PROJECT PHASE:

Concept Design

Development

Sample Stage

Mass Production

R10

or

R23 EMC

РЕКОК

LED Type:	16
Color Temp:	50
Raw Lumen:	20
Effective Lumen:	13
Luminous Efficacy:	117
Raw Power:	48
Effective Power:	11.
Current Draw:	0.9
Electromagnetic Feature	res
EMC Grade:	CIS
Operating Voltage:	10
Connector:	DT
Mechanical Features	
Size:	10
Housing Material:	Gra
Lens Material:	An
PC Brand:	CC
Bracket:	Sta
IP Rate:	IPe
Work Temp:	-40
So this is Life	
Life Time:	>3

Model:

Beam pattern:

Homologations: **Optical & Electric Features**

Functions, Homologation

4" SQUARE GRAPHENE- WORK LIGHT

РЕКЯК

R23

R10

Products subject to update, change or modify without notice.

E-WL-523

Flood or Spot or combo beam ECE R10

6pcs 3W LEDs

000~6500K

016LM

370LM

17LM/W

w

.64W

0.97A@12V, 0.485A@24V

ISPR 25 Class 3

0V~30V

T / AMP/ Cable (Optional)

05X135X30mm

raphene

nti-UV PC

COVESTRO 2407

tainless Steel

67, IP6K9K

0~+50°C

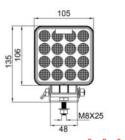
30,000H







Combo Beam







CLASSIC LED WORK LIGHTS **5" SQUARE LED WORK LIGHT**



Model:	E2144
Functions, Homologati	on
Functions:	Flood or Spot Beam
Homologations	ECE R10
Optical & Electric Feat	ures
LED Type:	9pcs 10W LED(s)
Color Temp:	5000~6500K
Raw Lumen:	14000LM
Effective Lumens:	5184.95LM
Luminous Efficacy:	103.70LM/W
Raw Power:	90W
Effective Power:	50W
Current Draw:	4.1A@12V; 2.08A@24V
Electromagnetic Featu	res
EMC Grade:	CISPR 25 Class 4
Operating Voltage:	10\/~30\/

10V~30V Operating Voltage: DT / AMP/ Cable (Optional) Connector:

Mechanical Features	
Size:	124.2X151.2X87mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Power Coated Steel
Bolt	Stainless steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30.000H

124.2±1 ≝

PROJECT PHASE: Concept Design



CLASSIC LED WORK LIGHTS **5" SQUARE LED WORK LIGHT**



	Model:	E-WL
	Functions, Homologation	n
	Functions:	Flood
	Homologations	ECE
	Optical & Electric Featur	es
	LED Type:	16pc
	Color Temp:	5000
	Raw Lumen:	4320
	Effective Lumen:	3218
	Luminous Efficacy:	90.00
	Raw Power:	48W
	Effective Power:	35.52
	Current Draw:	2.964
	Electromagnetic Feature	s
	EMC Grade:	ECE
	Operating Voltage:	10V~
	Connector:	DT / /
	Mechanical Features	
	Size:	124.2
	Housing Material:	Alum
-	Lens Material:	Anti-l
	PC Brand:	COV
	Bracket:	Stain
]	IP Rate:	IP6K
Í	Work Temp:	-40~+
-	So this is Life	
	Life Time:	>30,0

E-WL-LED-48WSQ2

ood or Spot Beam

CE R10

Spcs 3W OSRAM P7 LEDs

000~6500K

320LM

218LM

0.00LM/W

5.52W

96A@12V, 1.48A@24V

CE R10

0V~30V

T / AMP/ Cable (Optional)

24.2X151.2X87mm

uminium Alloy

nti-UV PC

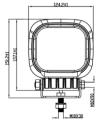
OVESTRO 2407

tainless Steel

6K9K

0~+50°C

30,000H



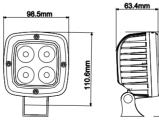


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HIGH LUMINOUS EFFICACY 4" SQUARE WORK LIGHT



Model:	E-WL-LED-40W	
Functions, Homologation	1	
Beam Pattern:	80°Flood beam or	
	40°Spot beam	
Homologations:	ECE R10	
Optical & Electric Feature	S	
LED Type:	4 pcs 10W LED(s)	
Color Temp:	5000~6500K	
Raw Lumen:	4000LM	
Effective Lumen:	2928.25LM	
Luminous Efficacy:	100.9LM/W	
Raw Power:	40W	
Effective Power:	29W	
Current Draw:	2.44A@12V; 1.22A@24V	
Electromagnetic Features		
EMC Grade:	CISPR 25 Class 3	
Operating Voltage:	10V~30V	
Connector:	DT / AMP/ Cable (Optional)	
Mechanical Features		
Size:	98.5X110.6X63.4 mm	
Housing Material:	Aluminium Alloy	
Lens Material:	Anti-UV PC	
PC Brand:	COVESTRO 2407	
Bracket:	Stainless Steel	
IP Rate:	IP67, IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30,000H	



R10

	-	3

HIGH LUMINOUS EFFICACY

4" SQUARE WORK LIGHT - FRESNEL LENS



E2118A Model: Functions, Homologation Flood Functions: Homologations ECE R1 **Optical & Electric Features**

LED Type:	4pcs 10v
Emitting Color	White
Color Temp:	6500K
Raw Lumen:	6400LM
Effective Lumen:	2968.351
Illumination distance:	1 lux @4
Luminous Efficacy:	89.95LM
Raw Power:	40W
Effective Power:	33W
Current flow:	2.75A@1
Electromagnetic Featur	res
EMC Grade:	CISPR 2
Operating Voltage:	10V~30\
Connector:	DT / AMF

Concept Design

Development Sample Stage Mass Production

PROJECT PHASE:

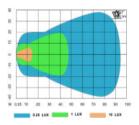


A			
	Mechanical Features		
	Size:	98.5X110.6X63.4mm	
10	Housing Material:	Aluminium	
	Lens Material:	Anti-UV PC	
0w SMD	Lens Design:	Fresnel Lens	
	PC Brand:	COVESTRO 2407	
	Bracket:	Stainless Steel	
N	IP Rate:	IP67,IP6K9K	
5LM	Work Temp:	-40~+50°C	
048m	So this is Life		
M/W	Life Time:	>30,000H	

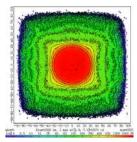
.

A@12V, 1.38@24V

PR 25 Class 4 -30V AMP/ Cable (Optional)







HIGH LUMINOUS EFFICACY **4" SQUARE WORK LIGHT**



Model:	E2118		
Functions, Homologation			
Functions:	Flood Beam		
Homologations	ECE R10		
Optical & Electric Fea	tures		
LED Type:	4pcs 5W Osram LED(s)		
Color Temp:	5000~6500K		
Raw Lumen:	2200LM		
Effective Lumen:	1623LM		
Luminous Efficacy:	81LM/W		
Raw Power:	20W		
Effective Power:	20W		
Current Draw:	1.67A@12V; 0.835A@24V		
Electromagnetic Feat	ures		
EMC Grade:	CISPR 25 Class 5		
Operating Voltage:	10V~30V		
Connector:	DT / AMP/ Cable (Optional)		

Mechanical Features	
Size:	99X135X30mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Flushbonading
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H
Part number:	
E2118	40cm cable only
E2118-1	AMP 2P male connector
E2118-2	DEUTSCH 2P male connector
E2118-3	Back Switch

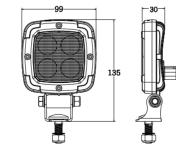
ASYMMETRIC LENS PATTERN

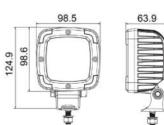


Model:	E2113		
Functions, Homologation			
Beam Pattern	Asymmetric lens pat		
Homologation:	ECE R10		
Optical & Electric Features			
LED Type:	12pcs 3W LEDs		
Color Temp:	5000~6500K		
Raw Lumen:	3600LM		
Effective Lumen:	2192.6LM		
Luminous Efficacy:	91.35LM/W		
Raw Power:	36W		
Effective Power:	24W		
Current Draw:	2A@12V; 1A@24V		
Electromagnetic Features			
EMC Grade:	CISPR 25 Class 3		
Operating Voltage:	10V~30V		

Connector:







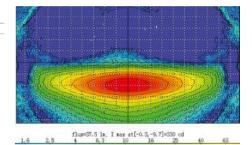
ECE



E2213

c lens pattern

Mechanical Features Size: 98.5X124.9X63.9mm Housing Material: Aluminium Alloy Anti-UV PC Lens Material: PC Brand: COVESTRO 2407 Stainless Steel Bracket: IP Rate: IP67, IP6K9K -40~+50°C Work Temp: So this is Life Life Time: >30,000H





DT or Open Cable

55W halogen work light

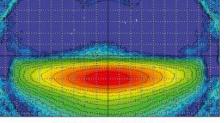


ASYMMETRIC LENS PATTERN



Model:	E2133	
Functions, Homologat	tion	
Beam Pattern	Asymmetric lens pattern	
Homologation:	ECE R10	
Optical & Electric Fea	tures	
LED Type:	12pcs 3W LEDs	
Color Temp:	5000~6500K	
Raw Lumen:	3600Lm	
Effective Lumen:	1400LM	
Luminous Efficacy:	93.3LM/W	
Raw Power:	36W	
Effective Power:	15W	
Current Draw:	1.25A@12V; 0.625A@24V	
Electromagnetic Features		
EMC Grade:	CISPR 25 Class 3	
Operating Voltage:	10V~30V	
Connector:	DT or Open Cable	

Mechanical Features	
Size:	99X135X30mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



flux=37.5 ln, I nax at[-0.3,-9.7]=330 cd 1.6 2.5 4 6.3 10 16 25 40 63



E2213



55W halogen work light

ASYMMETRIC LENS PATTERN

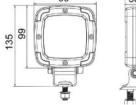


30

R10

Model:	E2135
Functions, Homologat	tion
Beam Pattern	Asymmetric ler
Homologation:	ECE R10
Optical & Electric Fea	tures
LED Type:	12pcs 3W LED
Color Temp:	5000~6500K
Raw Lumen:	3600Lm
Effective Lumen:	1400LM
Luminous Efficacy:	93.3LM/W
Raw Power:	36W
Effective Power:	15W
Current Draw:	1.25A@12V; 0.
Electromagnetic Featu	ures
EMC Grade:	CISPR 25 Clas
Operating Voltage:	10V~30V
Connector:	DT or Open Ca





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Products subject to update, change or modify without notice.

ens pattern	
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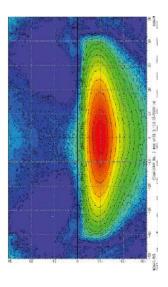
/ LEDs

Mechanical Features	
Size:	99X135X30mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

2V; 0.625A@24V

Class 3

en Cable



BLUE SAFETY LINE



Model:	E2111-1			
Functions, Homologa	tion		Electromagnetic Fe	atures
Functions	Work Light		EMC Grade:	EC
Beam Pattern	Blue Pencil Beam		Operating Voltage:	10
Homologations	ECE R10, EN62471		Connector:	DT
Optical & Electric Fea	tures		Mechanical Feature	s
LED Type:	9pcs SMD LED(s)		Size:	98
Emitting Color:	Blue		Housing Material:	Alu
Wavelength:	460-470nm		Optical Design:	An
Raw Lumen:	405 LM			+7
Effective Lumen:	218.23 LM		PC Brand:	CC
Illumination:	1 Lux@140m		Bracket:	Sta
Luminous Efficacy:	10.39LM/W		Anti-Corrosion:	IS
Raw Power:	27W		IP Rate:	IP
Effective Power:	21W		Work Temp:	-40
Current Flow:	1.75A@12V,0.875A@24V		So this is Life	
			Life Time:	>3
Max. 385	5Lux / H:2.5m, Tilt: 20°	1lux@140)m, Max. 23.3Lux /	H:1.2m,
		×I		

EMC Grade:	ECE R10
Operating Voltage:	10V~80V
Connector:	DT / AMP/ Cable (Optional)
Mechanical Featur	es
Size:	98.5X120X70.5mm
Housing Material:	Aluminium Alloy
Optical Design:	Anti-UV Lens
	+Tempered Glass
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
Anti-Corrosion:	ISO 9227 240H
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H
m, Max. 23.3Lux /	H:1.2m, Tilt: 0°
	Operating Voltage: Connector: <u>Mechanical Featur</u> Size: Housing Material: Optical Design: PC Brand: Bracket: Anti-Corrosion: IP Rate: Work Temp: So this is Life Life Time:

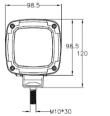
💶 1 lux 👥 5 lux 👥 10 lux 👥 50 lux



CLASSIC LED WORK LIGHTS **5" SQUARE LED WORK LIGHT**



Model:	E-WL-LE
Functions, Homologation	on
Functions:	Spot Bea
Homologations	ECE R10
Optical & Electric Featu	res
LED Type:	4pcs 10V
Color Temp:	5000~65
Raw Lumen:	4320LM
Luminous Efficacy:	90LM/W
Raw Power:	40W
Electromagnetic Featur	es
EMC Grade:	ECE R10
Operating Voltage:	10V~30V
Connector:	DT / AMF
Mechanical Features	
Size:	124.2X15
Housing Material:	Aluminiu
Lens Material:	Anti-UV F
PC Brand:	COVEST
Bracket:	Stainless
IP Rate:	IP6K9K
Work Temp:	-40~+50°
So this is Life	
Life Time:	>30,000H





----70.5----

157

E-WL-LED-40S

Beam

R10

10W OSRAM P9 LEDs

~6500K

R10

30V

AMP/ Cable (Optional)

X151.2X87mm

inium Alloy

JV PC

ESTRO 2407

less Steel

-50°C

00H

HIGH LUMINOUS EFFICACY 3X6" LED WORK LIGHT





Model:	E2122A
Functions, Homologa	tion
Beam Pattern	Flood Beam
Homologation:	ECE R10
Optical & Electric Fea	tures
LED Type:	18pcs 3W LED(s)
Color Temp:	5000~6500K
Raw Lumen:	5400LM
Effective Lumen:	3500LM
Luminous Efficacy:	116.66LM/W
Raw Power:	54W
Effective Power:	30W
Current Draw:	2.5A@12V; 1.25A@24V
Electromagnetic Feat	ures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	DT / AMP/ Cable (Optional)
Mechanical Features	
Size:	151.8X102.4X68.29mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC

COVESTRO 2407

Flushbonading

IP67, IP6K9K

-40~+50°C

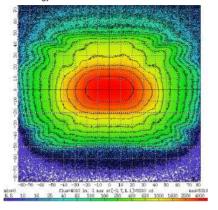
>30.000H

PC Brand:

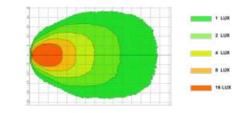
Bracket:

IP Rate:

Plane energy distribution



isolux







V:.E2122A-0816-22

OEM mount design **Replacing halogen lights** Almost daylight illumination **Raw 5400LM** and **effective 3500LM** Asymmetric beam Zero radiao interference, Zero noise, Zero camera interference

FORD NEW HOLLAND TRACTORS: T6020, T6040, T6060, T7030, T7040, T7050 , T7060, T6210, T6215, T6230, T6245, T6255, T6275, T6285, T6305, TS100A, TS110A, TS115A,TS125A,TS130A,TS135A



E2122A 6"×3"

HIGH LUMINOUS EFFICACY 2X5" LED WORK LIGHT



ICACY GHT	Model:	E2134
••••	Functions, Homologat	tion
	Functions:	Flood Beam
and the second se	Homologations	ECE R10
CARLER 1	Optical & Electric Feat	tures
	LED Type:	30pcs 2W LED(s)
A CHARLEN	Color Temp:	5000~6500K
TTTTE	Raw Lumen:	3500LM
	Effective Lumen:	1900LM
and the second second	Luminous Efficacy:	114LM/W
The second s	Raw Power:	60W
	Effective Power:	20W
PROJECT PHASE:	Current Draw:	1.67A@12V; 0.83A@24V
Concept Design	Electromagnetic Featu	ires
Development	EMC Grade:	CISPR 25 Class 3
Sample Stage	Operating Voltage:	10V~30V
Mass Production	Connector:	original mount

Mechanical Features	
Size:	138X63X60mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Flushbonading
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30.000H

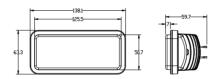
CLASSIC LED WORK LIGHTS

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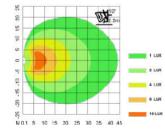
IGHTS		
	Model:	E-WL-501W
Second .	Functions, Homologatio	n
	Functions:	80°Flood Beam or
Section of the sectio		40°Spot Beam
This interest and	Homologations	ECE R10
Contraction of the second	Optical & Electric Featur	es
	LED Type:	18pcs SMD LED(s)
	Color Temp:	5000~6500K
PROJECT PHASE:	Raw Lumen:	3960LM
Concept Design	Effective Lumen:	2195.3LM
Development	Luminous Efficacy:	85LM/W
Sample Stage	Raw Power:	54W
Mass Production	Effective Power:	25W
	Current Draw:	2.13A@12V; 1.065A@24V
	Electromagnetic Feature	S
	EMC Grade:	ECE R10
	Operating Voltage:	10V~30V
	Connector:	DT / AMP/ Cable (Optional)
	Mechanical Features	
	Size:	214X35X62mm
	Housing Material:	Aluminium Alloy
	Lens Material:	Anti-UV PC
	PC Brand:	COVESTRO 2407
	Bracket:	Stainless Steel
	IP Rate:	IP6K9K
	Work Temp:	-40~+50°C
	So this is Life	
	Life Time:	>30,000H

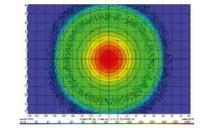
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Isolux E2134

161







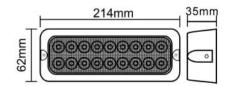
_-501W



Flood beam



Spot beam





CLASSIC LED WORK LIGHTS



ТРБКЭК

R10

ECE

Model:	E-WL-501	1
Functions, Homologa	tion	Mechan
Functions:	80°Flood Beam or	Size:
	40°Spot Beam	Housing
Homologations	ECE R10	Lens M
Optical & Electric Fea	tures	PC Brai
LED Type:	18pcs SMD LED(s)	Bracket
Color Temp:	5000~6500K	IP Rate:
Raw Lumen:	3960LM	Work Te
Effective Lumen:	2195.3LM	So this
Luminous Efficacy:	85LM/W	Life Tim
Raw Power:	54W	
Effective Power:	25.56W	
Current Draw:	2.13A@12V; 1.065A@24V	
Electromagnetic Feature	ures	
EMC Grade:	ECE R10	
Operating Voltage:	10V~30V	
Connector:	DT / AMP/ Cable (Optional)	

Mechanical Features	
Size:	180X38X55mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	201 or 304 Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

CLASSIC LED WORK LIGHTS

or

IP6K9K

ECE

Model:	E-WL-502		
Functions, Homologa	tion	Mechanical Features	
Functions:	80°Flood Beam or	Size:	180X76X143mm
	40°Spot Beam	Housing Material:	Aluminium Alloy
Homologations	ECE R10	Lens Material:	Anti-UV PC
Optical & Electric Fea	tures	PC Brand:	COVESTRO 2407
LED Type:	36pcs SMD LED(s)	Bracket:	201 or 304 Stainless Steel
Color Temp:	5000~6500K	IP Rate:	IP67, IP6K9K
Raw Lumen:	7920LM	Work Temp:	-40~+50°C
Effective Lumen:	4496.3LM	So this is Life	
Luminous Efficacy:	85 LM/W	Life Time:	>30,000H
Raw Power:	108W		

Raw Lumen:	7920LM
Effective Lumen:	4496.3LI
Luminous Efficacy:	85 LM/W
Raw Power:	108W
Effective Power:	51.84W
Current Draw:	4.32A@1
Electromagnetic Feat	ures
EMC Grade:	ECE R10
Operating Voltage:	10V~30\
Connector:	DT / AMF

PROJECT PHASE:

Concept Design

Development

Sample Stage

Mass Production

	180mm	38mm
55mm		A



Flood beam







Flood beam

4.32A@12V; 2.16A@24V

76mm 180mm 38mm ECE R10 രരരരര Ø 10V~30V DT / AMP/ Cable (Optional))(o)(o)(o)(o)(o)(o)(o)(B 0000000 (0)(0)(0)(0)(0)(0)(0)(0)



Spot beam



4" REVERSING LIGHT HIGH LUMEN



Model:	E2136	
Functions, Homologation		
Beam Pattern:	Asymmetric Lens pattern	
Homologation:	ECE R23, R10	
Optical & Electric Features		
LED Type:	18pcs 1W LED(s)	
Color Temp:	5000~6500K	
Raw Lumen:	2340LM	
Effective Lumen:	1318LM	
Luminous Efficacy:	87.8LM/W	
Raw Power:	18W	
Effective Power:	15W	
Current Draw:	1.25A@12V; 0.625A@24V	
Electromagnetic Features		
EMC Grade:	CISPR 25 Class 5	
Operating Voltage:	10V~30V	

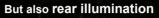
DT / AMP/ Cable (Optional)

Connector:

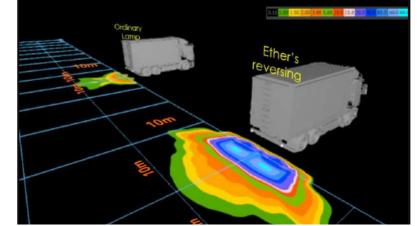
Mechanical Features		
Size:	98.5X135X30mm	
Housing Material:	Aluminium Alloy	
Lens Material:	Anti-UV PC	
PC Brand:	COVESTRO 2407	
Bracket:	Stainless Steel	
IP Rate:	IP67, IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30,000H	

Not only reversing signal

The second of the second



Brightest under R23 regulations 150+ M² field illumination Zero glare



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165





Legally Brightest

So far, the brightest LED reversing lamp under R23 regulations. 8-10X brighter than original halogen reversing lights.

Increased visibility



80%

Unlike ordinary LED reversing lamp setting tilt angle to comply with R23, ETHER's LED reversing lights are simply installed vertical,

without measuring tilt angle.





Any mount

Flexible bracket enables ETHER's LED reversing light to be either top mounted, or back mounted, or bottom mounted.



0 noise

(CISPR 25 Class 5) adopted to eliminate noise or radio interference; quiet, safe driving is guaranteed. Better focus on driving



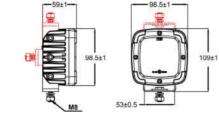
4" REVERSING LIGHT HIGH LUMEN



Model:	E2136B (Typical)		
Functions, Homologation		Mechanical Features	
Beam Pattern:	Asymmetric Lens pattern	Size:	98.5X98.5X59mm
Homologation:	ECE R23, R10	Housing Material:	Aluminium Alloy
Optical & Electric Fea	tures	Lens Material:	Anti-UV PC
LED Type:	18pcs 1W LED(s)	PC Brand:	COVESTRO 2407
Color Temp:	5000~6500K	Bracket:	Stainless Steel
Raw Lumen:	2340LM	IP Rate:	IP67, IP6K9K
Effective Lumen:	1318LM	Work Temp:	-40~+50°C
Luminous Efficacy:	87.8LM/W	So this is Life	
Raw Power:	18W	Life Time:	>30,000H
Effective Power:	15W		
Current Draw:	1.25A@12V; 0.625A@24V		
Electromagnetic Feat	ures		
EMC Grade:	CISPR 25 Class 5		
Operating Voltage:	10V~30V		
Connector:	DT / AMP/ Cable (Optional)		

PROJECT PHASE: Concept Design Development Sample Stage Mass Production





4" REVERSING LIGHT HIGH LUMEN

3	
1	5

Model:	E2136B (
Functions, Homologa	tion
Beam Pattern:	Asymmet
Homologation:	ECE R23
Optical & Electric Fea	tures
LED Type:	18pcs 3W
Color Temp:	5000~650
Raw Lumen:	3160LM
Effective Lumen:	1700LM
Luminous Efficacy:	70.83LM/
Raw Power:	54W
Effective Power:	25W
Current Draw:	2.08A@1
Electromagnetic Feat	ures
EMC Grade:	CISPR 25
Operating Voltage:	10V~30V
Connector:	DT / AMP

PROJECT PHASE: Concept Design Development Sample Stage Mass Production



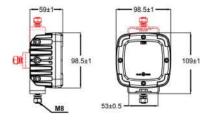
Class 4 R23 EMC R10

36B (High Power)

	Mechanical Features		
etric Lens pattern	Size:	98.5X98.5X59mm	
23, R10	Housing Material:	Aluminium Alloy	
	Lens Material:	Anti-UV PC	
3W LED(s)	PC Brand:	COVESTRO 2407	
500K	Bracket:	Stainless Steel	
Λ	IP Rate:	IP67, IP6K9K	
Λ	Work Temp:	-40~+50°C	
M/W	So this is Life		
	Life Time:	>30,000H	

A@12V; 1.04A@24V

PR 25 Class 4 -30V AMP/ Cable (Optional)



R23 COMPLIANT WORK LIGHT



Model:	E2173	
Functions, Homologation		
Function:	Reversing	
Beam Pattern	Asymmetric beam	
Homologations:	ECE R10, R23, CE	
Optical & Electric Featu	ires	
LED Type:	18 pcs 1W LED	
Emitting Color:	White	
Color Temp:	5700K	
Raw Lumen:	2340LM	
Effective Lumen:	1100LM	
Luminous Efficacy:	91.66LM/W	
Raw Power:	18W	
Effective Power:	12W	
Current flow:	1.00A@12V, 0.5A@24V	
Electromagnetic Featur	res	
EMC Grade:	CISPR 25 Class 5	
Operating Voltage:	10V~30V	
Connector (optional):	Open cable	
Mechanical Features		
Size:	110X115.5X52mm	
Housing Material:	Anti-UV PC	
Lens Material:	Anti-UV PC	
PC Brand:	COVESTRO 2407	
Mount:	Flexible mount	
Bracket	Stainless steel	
IP Rate:	IP67, IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30,000H	

Flexible mount Bracket could be top mounted, bottom mounted, or back mounted.



One bracket and any mount to your needs.





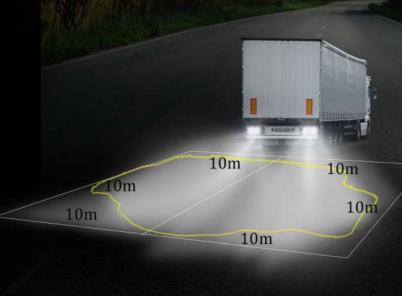
R23 compliant

8-10X BRIGHTNESS OF ORIGINAL HALOGEN REVERSING

REVERSING LAMPS

No Glare - Safety W

Wide illumination



V.: E2173-0817-22



DE-ICING WORK LIGHT



Model:	E-WL-LED-40W-A	
Functions, Homologation		
Beam Pattern:	80° Flood beam or	
	40° Spot beam	
Homologations:	ECE R10	
Optical & Electric Fea	tures	
LED Type:	4pcs 10W LEDs	
Emitting Color:	White	
Color Temp:	5000~6500K	
Raw Lumen:	6400LM	
Effective Lumen:	2768 LM (Flood)	
Luminous Efficacy:	26.47LM/W (Flood)	
Raw Power:	40W(LED)	
Effective Power:	34W(LED), 20W(De-icing)	
Current flow:	4.5A@12V	
De-icing technology		
De-Icing Tech:	Heating Glass	
De-icing Power:	20W @ 12VDC	

Auto temp. Sensor

Constant 45°C lens

Control Mode:

Heating Temp.:

Electromagnetic Features		
EMC Grade:	ECE R10	
Operating Voltage:	12VDC / 24VDC	
Connector:	DT / AMP/ Cable (Optional)	
Mechanical Features		
Size:	98.5X120X70.5mm	
Housing Material:	Aluminium Alloy	
Lens Material:	Anti-UV PC	
PC Brand:	COVESTRO 2407	
Bracket:	Stainless Steel	
IP Rate:	IP67, IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30,000H	



Better cost better design

4" de-icing work lamp

• Smart heating film technology

- Instant de-icing with max heating power: 14.7W
- 4℃ of lens surface when ambient temp. -25℃
- Max 80℃ of lens when ambient temp. +30℃

Salt spray test 240H (stand

Color rendering(CRI) options CRI-70 CRI>80





V.: E-WL-LED-40W-A-0903-22 ≡

E-WL-LED-40W-A



R10





CLASSIC LED WORK LIGHTS



i unctiona.	rioou Bouin	
Homologations	ECE R10	E2201D
Optical & Electric Feat	ures	•
LED Type:	10pcs 6W LED(s)	
Color Temp:	5700~6500K	
Raw Lumen:	10000LM	
Effective Lumen:	6500LM	
Luminous Efficacy:	128LM/W	
Raw Power:	60W	
Effective Power:	50W	
Current Draw:	4.17A@12V; 2.1A@24V	
Electromagnetic Featu	ires	
EMC Grade:	CISPR 25 Class 3	
Operating Voltage:	10V~30V	
Connector:	AMP	
Mechanical Features		
Housing Material:	Aluminium Alloy	
Lens Material:	Anti-UV PC	
Lens Processing:	Surface Hardened	
PC Brand:	COVESTRO 2407	
Bracket:	Stainless Steel	
IP Rate:	IP67/IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30,000H	

E2201B/E2201D

Flood Beam

Model

E2201B

Size:

173x129x56mm

191x108x56mm

Model:

Functions:

Functions. Homologation



Redefing OEM oval 90 LED work lamp _____ ••• • - High lumen. High efficacy - EMC level: CISPR 25 Cla - Lens surface - High level color rendering, original halogen ssless febl

Reference OF number 21.51052,DC218651,RE269640, RE269638, RE573609. RE269640, RE269638, RE573609





R10 Class 3 EMC Class 2 ECE Class 2 ENC IP6K9K

Products subject to update, change or modify without notice.



CLASSIC LED WORK LIGHTS



Model:	E-WL-LED-00023E
Functions, Homologation	n
Functions:	Flood
Homologation:	ECE R10
Optical & Electric Featur	es
LED Type:	9pcs 6W LEDs
Color Temp:	5700K~6500K
Raw Lumen:	9000LM
Effective Lumen:	5200LM
Luminous Efficacy:	115.56LM/W
Raw Power:	54W
Effective Power:	45W
Current Draw:	3.75A@12V, 1.875A@24V
Electromagnetic Feature	s
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	AMP
Mechanical Features	
Size:	112X154X54mm
Housing Material:	Aluminum
Lens Material:	Anti-UV PC
Bracket:	Stainless Steel
P Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

R10 ECE Class 3 EMC CISPR 25 IP6K9K





Life Time:

V.: E-WL-LED-00023E-0823-22 =

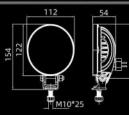


optional

E-WL-LED-00023E

Jos Fr **CRI<70**





SIDE SHOOTER SERIES 4.4" ROUND SIDE SHOOTER



Model:	E2250
Functions, Homologation	
Functions:	Flood Beam
Homologations	ECE R10
Optical & Electric Featu	ires
LED Type:	9pcs 10W LEDs
Color Temp:	2700~6500K
Raw Lumen:	14400LM
Effective Lumen:	4950LM
Luminous Efficacy:	123.75LM/W
Raw Power:	90W
Effective Power:	40W
Current Draw:	3.33A@12V, 1.66A@24V
Electromagnetic Featur	es
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector(optional):	DT/AMP/Open cable
Thermal Management:	ATM
Mechanical Features	
Size:	φ113X48.46mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Bracket:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



when it's foggy or dusty



R10 ECE Class CISPR 25 IP6K9K

Products subject to update, change or modify without notice.

V.: E2250-0816-22

FRESNEL STYLE LENS SERIES







Model:	E2226E (Sample Stage)	Model:	E2248E (Concept Design)	Model:	E2228L (Concept Design)
Functions, Homologat	tion	Functions, Homologat	ion	Functions, Homologat	ion
Functions:	Flood	Beam Pattern	Flood Beam	Beam Pattern	Flood
Homologations	ECE R10	Homologation:	ECE R10	Homologation:	ECE R10
Optical & Electric Feat	tures	Optical & Electric Feat	ures	Optical & Electric Feat	ures
LED Type:	4 pcs LED(s)	LED Type:	18pcs p8 LEDs	LED Type:	21 pcs P8 LEDs
Color Temp:	3000~6000K	Color Temp:	5700~6500K	Color Temp:	5700~6500K
Effective Lumen:	@6000K:1300LM,	Raw Lumen:	9900LM	Raw Lumen:	11550LM
	@4500K:1424.6LM	Effective Lumen:	5000LM	Effective Lumen:	5100LM
	@3000K: 1103LM	Luminous Efficacy:	83.3LM/W	Luminous Efficacy:	85LM/W
Effective Power:	6000K: 17.5W	Raw Power:	90W	Raw Power:	105W
	4500k: 15.5W	Effective Power:	60W	Effective Power:	60W
	3000K: 16.44W	Current flow:	5A@12V, 2.5A@24V	Current flow:	5A@12V, 2.5A@24V
Electromagnetic Featu	ures	Electromagnetic Featu	res	Electromagnetic Featu	ires
EMC Grade:	CISPR 25 Class 5	EMC Grade:	CISPR 25 Class 3	EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V	Operating Voltage:	10V~30V	Operating Voltage:	10V~30V
Connector:	40cm	Connector:	Open cable	Connector:	DT
Mechanical Features		Mechanical Features		Mechanical Features	
Size:	83.8X126.2X71.8mm	Size:	110X100x146mm	Size:	161.2X76.8X126.7mm
Housing Material:	Aluminium Alloy	Housing Material:	Aluminium Alloy	Housing Material:	Aluminum
Lens Material:	Anti-UV PC	Lens Material:	Anti-UV PC	Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407	PC Brand:	COVESTRO 2407	PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel	Bracket:	Stainless Steel	Bracket Kit:	3mm or 1.6mm optional
IP Rate:	IP67, IP6K9K	IP Rate:	IP67, IP6K9K	IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C	Work Temp:	-40~+50°C	Work Temp:	-40~+50°C
So this is Life		So this is Life		So this is Life	
Life Time:	>30,000H	Life Time:	>30,000H	Life Time:	>30,000H

ETHER IATF16949:2016 Certificated

Why Fresnel style lens design?

6000K

3000K

- Even light distribution
 Higher visibility and safety
 No annoyance of yellow spots
 Avoid drowsy driving

83.8 42 M10*30 75-95 76.8 D 57 1



SIDE SHOOTER SERIES 4"X2.4" OVAL SIDE SHOOTER



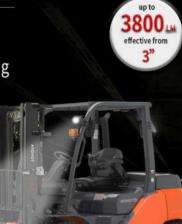
Model:	E2227C	E2227E
Functions, Homologatio	n	
Beam Pattern	Flood	Flood
Homologation:	ECE R10	ECE R10
Optical & Electric Featur	res	
LED Type:	4 pcs 10W LEDs	4 pcs 10W LEDs
Color Temp:	5000~6500K	5000~6500K
Raw Lumen:	6400LM	6400LM
Effective Lumen:	3800LM	3800LM
Luminous Efficacy:	126LM/W	126LM/W
Raw Power:	40W	40W
Effective Power:	30W	30W
Current flow:	2.5A@12V, 1.25A@24V	2.5A@12V, 1.25A@24V
Electromagnetic Feature	9S	
EMC Grade:	CISPR 25 Class 3	CISPR 25 Class 3
Operating Voltage:	10V~30V	10V~30V
Connector:	DT / AMP / Cable (Optional)	DT / AMP / Cable (Optional)
Thermal Management:	Active (ATM)	Active (ATM)
Mechanical Features		
Size:	82 X 115.75X 47.23mm	100X103.55X57.78mm (3mm)
		100X93.05X57.78mm(1.6mm)
Housing Material:	Aluminum	Aluminum
Lens Material:	Anti-UV PC	Anti-UV PC
PC Brand:	COVESTRO 2407	COVESTRO 2407
Bracket Kit:	Stainless Steel	3mm or 1.6mm optional
IP Rate:	IP67, IP6K9K	IP67, IP6K9K
Work Temp:	-40~+50°C	-40~+50°C
So this is Life		
Life Time:	>30,000H	>30,000H



Side shooter design.

• 3" body, compact & t Fresnel style lens optics.
High power@ robust housing Better penetration against harsh weather

y and safety



Lens surface hardened (>1H) CRI>80 CRI<70 Salt spray test 240H/4



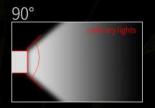


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R10 ECE Class 3 EMC Class 2 Covestro

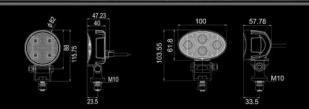
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V.: FSS-V0903-22 ≡







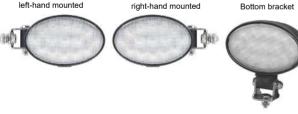


CLASSIC LED WORK LIGHTS



D‡ Flood	or	Spot
R10 ECE	Class 3 CISPR 25	IP6K9K

left-hand mounted



Model:	E2221D
Functions, Homolog	ation
Functions:	Flood Beam or Spot Beam
Homologation:	ECE R10
Optical & Electric Fe	atures
LED Type:	15pcs 3W LED(s)
Color Temp:	5700~6500K
Effective Lumen:	2722.3LM
Luminous Efficacy:	90.74LM/W
Raw Power:	45W
Effective Power:	30W
Current Draw:	3.3A@12V; 1.67A@24V
Electromagnetic Fea	atures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V
Connector:	open cable
Mechanical Features	5
Size:	166X92X98mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Mount:	Bottom bracket or Side bracket
Bracket Material:	Stainless steel
IP Rate:	IP66, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H





V:.E2221-D-0903

1. Classic LED oval work lamp with 360° rotatable bracket 2. OEM design and 100% compatible with halogen 3. Zero noise, zero interference @ CISPR 25 Class 5

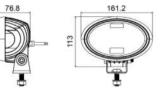
> Class 5 EMC CISPR 2



CLASSIC LED WORK LIGHTS OVAL LED WORK LIGHT



Model:	E2218-1/E2218-2	
Functions, Homologa	tion	Mechanical Features
Functions:	Flood Beam or Spot Beam	Size:
Homologations	ECE R10	Housing Material:
Optical & Electric Fea	tures	Lens Material:
LED Type:	15pcs 3W LED(s)	Lens Processing:
Color Temp:	5000~6500K	PC Brand:
Effective Lumen:	2411LM	Bracket:
Luminous Efficacy:	60LM/W	IP Rate:
Raw Power:	45W	Work Temp:
Effective Power:	40W	So this is Life
Current Draw:	3.3A@12V; 1.67A@24V	Life Time:
Electromagnetic Feat	ures	
EMC Grade:	CISPR 25 Class 5	
Operating Voltage:	10V~30V	
Connector:	DT / AMP/ Cable (Optional)	
		Sec. 7
76.8	161.2	





161.2X113X76.8mm Aluminium Allov

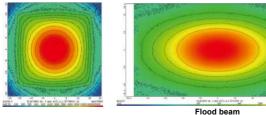
COVESTRO 2407

Stainless Steel IP67. IP6K9K

-40~+50°C

>30,000H

Anti-UV PC Surface Hardened





Flood beam





CLASSIC LED WORK LIGHTS OVAL LED WORK LIGHT

		E2217B(Spot
		1 in
E2217(Flood) CISPR 25 Class 5		
	and the second sec	

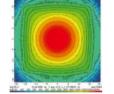
		PROJECT PHASE:
and a		Concept Design
105	or 🚺	Development
Flood	Spot	Sample Stage
	Class 5	Mass Production
R10 ECE	CISPR 25	кэк

	Model:	E2217/E2217B	
	Functions, Homologat	tion	
	Functions:	Flood Beam or Spot Beam	
	Homologations	ECE R10	
	Optical & Electric Feat	tures	
ot)	LED Type:	15pcs 3W LED(s)	
lass 3	Color Temp:	5000~6500K	
	Effective Lumen:	2411LM	
	Luminous Efficacy:	60LM/W	
	Raw Power:	45W	
	Effective Power:	40W	
	Current Draw:	3.3A@12V; 1.67A@24V	
97	Electromagnetic Features		
	EMC Grade:	CISPR 25 Class 3/5	
	Operating Voltage:	10V~30V	

Operating Voltage: Connector: DT / AMP/ Cable (Optional)







Spot beam

Mechanical Features

Housing Material: Lens Material:

Lens Processing:

PC Brand:

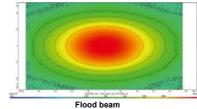
Bracket:

IP Rate:

Work Temp: So this is Life

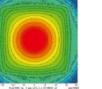
Life Time:

Size:



FLUSH BONADING LED WORK LIGHTS OVAL LED WORK LIGHT
1

rs	Model:	E2221
	Functions, Homologat	ion
	Functions:	Flood Beam or Spot Beam
	Homologations	ECE R10
	Optical & Electric Feat	ures
	LED Type:	15pcs 3W LED(s)
E2221-1	Color Temp:	5000~6500K
Flood Beam	Raw Lumen:	4100LM
	Effective Lumen:	3500LM
	Luminous Efficacy:	117LM/W
	Raw Power:	45W
	Effective Power:	40W
	Current Draw:	3.33A@12V; 1.66A@24V
110	Electromagnetic Featu	ires
0	EMC Grade:	CISPR 25 Class 5
	Operating Voltage:	10V~30V
	Connector:	DT / AMP/ Cable (Optional)



161.2X105.4X116.5mm

Aluminium Allov

Surface Hardened

COVESTRO 2407

Stainless Steel

IP67, IP6K9K -40~+50°C

>30,000H

Anti-UV PC



E2221-2

Spot Beam

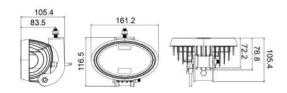
PROJECT PHASE:

Concept Design

Development

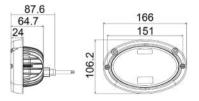
Sample Stage

Mass Production





Mechanical Features	
Size:	166X106.2X87.6mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
IP Rate:	IP67, IP6K9K
Bracket: Flushbonading	
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



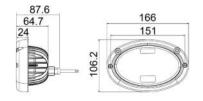
FLUSHBONADING LED WORK LIGHTS OVAL LED WORK LIGHT





Sample Stage

Mass Production



Model:	E2223	
Functions, Homologa	tion	Mechanical Feature
Functions:	Trapezoidal Beam	Size:
Homologations	ECE R10	Housing Material:
Optical & Electric Fea	tures	Lens Material:
LED Type:	10 pcs 5W OSRAM P8 LEDs	PC Brand:
Color Temp:	5000~6500K	IP Rate:
Raw Lumen:	4850LM	Bracket:
Effective Lumen:	2900LM	Work Temp:
Luminous Efficacy:	96.67LM/W	So this is Life
Raw Power:	50W	Life Time:
Effective Power:	30W	
Current Draw:	2.50A@12V; 1.25A@24V	1
Electromagnetic Feat	ures	
EMC Grade:	CISPR 25 Class 3	
Operating Voltage:	10V~30V	
Connector:	DT / AMP/ Cable (Optional)	



166X106.2X87.6mm

Aluminium Allov Anti-UV PC

COVESTRO 2407

Flushbonading IP67, IP6K9K -40~+50°C

>30,000H

FLUSHBONADING LED WORK LIGHTS OVAL LED WORK LIGHT



Model:	E2223A
Functions, Homologa	tion
Functions:	Flood Be
Homologations	ECE R10
Optical & Electric Fea	tures
LED Type:	10 pcs 5
Color Temp:	5000~65
Raw Lumen:	4850LM
Effective Lumen:	3100LM
Luminous Efficacy:	103.33LI
Raw Power:	50W
Effective Power:	30W
Current Draw:	2.50A@1
Electromagnetic Feat	ures
EMC Grade:	CISPR 2
Operating Voltage:	10V~30\
Connector:	DT / AMF

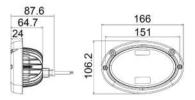
3	Class 4	
R10	EMC	20/
ECE	CISPR 25	IP6K9K

A			
	Mechanical Features		
Beam	Size:	166X106.2X87.6mm	
810	Housing Material:	Aluminium Alloy	
	Lens Material:	Anti-UV PC	
5050SMD LED(s)	PC Brand:	COVESTRO 2407	
6500K	IP Rate:	Flushbonading	
M	Bracket:	IP67, IP6K9K	
M	Work Temp:	-40~+50°C	
BLM/W	So this is Life		
	Life Time:	>30,000H	

.

@12V; 1.25A@24V

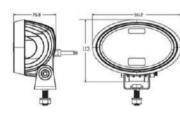
R 25 Class 4 30V MP/ Cable (Optional)



CLASSIC LED WORK LIGHTS **OVAL LED WORK LIGHT** E2228 Trapezoidal Beam PROJECT PHASE Concept Design E2228B Development Flood Sample Stage Beam III Mass Production







Model:	E2228/E2228B	
Functions, Homologa	tion	Mechanical Featu
Functions:	Trapezoidal or Flood Beam	Size:
Homologations	ECE R10	Housing Material
Optical & Electric Fea	tures	Lens Material:
LED Type:	10pcs 5W LEDs	Lens Processing
Color Temp:	5000~6500K	PC Brand:
Raw Lumen:	4600LM	Bracket:
Effective Lumen:	3400LM	IP Rate:
Luminous Efficacy:	82.93LM/W	Work Temp:
Raw Power:	50W	So this is Life
Effective Power:	41W	Life Time:
Current Draw:	3.41A@12V; 1.71A@24V	1
Electromagnetic Feat	ures	

CISPR 25 Class 5

DT / AMP/ Cable (Optional)

10V~30V

EMC Grade:

Connector:

Operating Voltage:

Mechanical Features	
Size:	161.2X113X76.8mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

FLUSHBONADING LED WORK LIGHTS 4" SQUARE WORK LIGHT



 Raw Power:
 24W

 Effective Power:
 16W

 Current Draw:
 1.33A@12

 Electromagnetic Features
 EMC Grade:

 EMC Grade:
 ECE R10

 Operating Voltage:
 10V-30V

 Connector:
 DT / AMP/

Model:

Functions:

LED Type:

Color Temp:

Raw Lumen: Effective Lumen:

Luminous Efficacy:

Homologations

Functions, Homologation

Optical & Electric Features





Development

Sample Stage

Mass Production



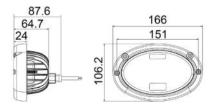
ET-24W-OS-P

tion	Mechanical Features	
Flood Beam	Size:	166X106.2X87.6mm
ECE R10	Housing Material:	Aluminium Alloy
tures	Lens Material:	Anti-UV PC
8pcs 3W LEDs	PC Brand:	COVESTRO 2407
5000~6500K	IP Rate:	Flushbonading
2688LM	Bracket:	IP67, IP6K9K
1223LM	Work Temp:	-40~+50°C
76.43LM/W	So this is Life	
24W	Life Time:	>30,000H

1.33A@12V; 0.66A@24V

0 V

DT / AMP/ Cable (Optional)



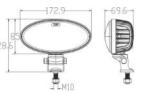
CLASSIC LED WORK LIGHTS OVAL LED WORK LIGHT



Model:	E2213	
Functions, Homologat	tion	
Functions:	Flood Beam	
Homologations	ECE R10	
Optical & Electric Feat	tures	
LED Type:	18pcs 3W LED(s)	
Color Temp:	5000~6500K	
Raw Lumen:	4100LM	
Effective Lumen:	3500LM	
Luminous Efficacy:	117LM/W	
Raw Power:	54W	
Effective Power:	30W	
Current Draw:	2.5A@12V; 1.25A@24V	
Electromagnetic Featu	ires	
EMC Grade:	CISPR 25 Class 5	

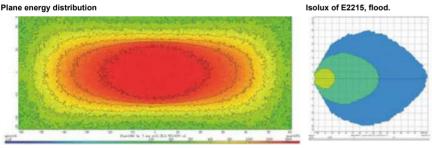
Operating Voltage: 10V~30V Connector: DT / AMP/ Cable (Optional)

Mechanical Features		
Size: 173X128.63X70m		
Housing Material:	Aluminium Alloy	
Lens Material:	Anti-UV PC	
Lens Processing:	Surface Hardened	
PC Brand:	COVESTRO 2407	
Bracket:	Stainless Steel	
IP Rate:	te: IP67, IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30.000H	



E2213 Flood, Road illumination







FLUSHBONADING LED WORK LIGHTS

OVAL LED WORK LIGHT

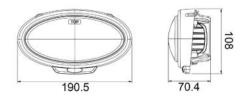


EMC

R10

ECE

Model:	E2214		
Functions, Homologat	tion	Mechanical Features	
Functions:	Flood Beam	Size:	190X108X70mm
Homologations	ECE R10	Housing Material:	Aluminium Alloy
Optical & Electric Feat	tures	Lens Material:	Anti-UV PC
LED Type:	18pcs 3W LED(s)	PC Brand:	COVESTRO 2407
Color Temp:	5000~6500K	Bracket:	Flushbonading
Raw Lumen:	4100LM	IP Rate:	IP67, IP6K9K
Effective Lumen:	3500LM	Work Temp:	-40~+50°C
Luminous Efficacy:	117LM/W	So this is Life	
Raw Power:	54W	Life Time:	>30,000H
Effective Power:	30W		
Current Draw:	2.5A@12V; 1.25A@24V	1	
Electromagnetic Featu	ures		
EMC Grade:	CISPR 25 Class 5		
Operating Voltage:	10V~30V		
Connector:	DT / AMP/ Cable (Optional)		



CLASSIC LED WORK LIGHTS OVAL LED WORK LIGHT



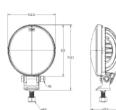
Model:	E2215	
Functions, Homologation		
Functions:	Flood Beam	
Homologations	ECE R10	
Optical & Electric Fea	tures	
LED Type:	21pcs 3W LED(s)	
Color Temp:	5000~6500K	
Raw Lumen:	4800LM	
Effective Lumen:	3500LM	
Luminous Efficacy:	130LM/W	
Raw Power:	63W	
Effective Power:	27W	
Current Draw:	2.25A@12V; 1.12A@24V	
Electromagnetic Feat	ures	
EMC Grade:	CISPR 25 Class 5	
Operating Voltage:	10V~30V	
Connector:	DT / AMP/ Cable (Optional)	

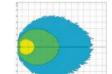
Plane energy distribution

Achanical Features	
lize:	112X154X69mm
lousing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Lens Processing:	Surface Hardened
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30.000H

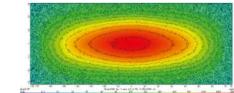
.

E2215 Flood, Road illumination





Isolux of E2215, flood.





55W halogen work light

CLASSIC LED WORK LIGHTS OVAL LED WORK LIGHT



PROJECT PHASE:
Concept Design
Development
Sample Stage
Mass Production

Effective Power:
Current Draw:
Electromagnetic Features
EMC Grade:
Operating Voltage:
Connector:
Mechanical Features
Size:
Housing Material:
Lens Material:
PC Brand:
Bracket:
IP Rate:
Work Temp:
So this is Life
Life Time:

Model:	ET-24W-OS	ET-24W-OS-B	ET-24W-OS-C
Functions, Homologat	ion		
Functions:	Flood Beam	Flood Beam	Flood Beam
Homologations	ECE R10	ECE R10	ECE R10
Optical & Electric Feat	ures		
LED Type:	8pcs 3W OSRAM P7 LEDs	8pcs 3W OSRAM P7 LEDs	8pcs 3W OSRAM P7 LEDs
Color Temp:	5000~6500K	5000~6500K	5000~6500K
Raw Lumen:	2240LM	2240LM	2240LM
Effective Lumen:	1649LM	1649LM	1649LM
Luminous Efficacy:	82.45LM/W	82.45LM/W	82.45LM/W
Raw Power:	24W	24W	24W
Effective Power:	20W	20W	20W
Current Draw:	1.66A@12V; 0.833A@24V	1.66A@12V; 0.833A@24V	1.66A@12V; 0.833A@24V
Electromagnetic Featu	ires		
EMC Grade:	ECE R10	ECE R10	ECE R10
Operating Voltage:	10V~30V	10V~30V	10V~30V
Connector:	DT / AMP/ Cable (Optional)	DT / AMP/ Cable (Optional)	DT / AMP/ Cable (Optional)
Mechanical Features			
Size:	141.5X90X64.5 mm	90X177X65 mm	90X177X65 mm
Housing Material:	Aluminium Alloy	Aluminium Alloy	Aluminium Alloy
Lens Material:	Anti-UV PC	Anti-UV PC	Anti-UV PC
PC Brand:	COVESTRO 2407	COVESTRO 2407	COVESTRO 2407
Bracket:	Stainless Steel	Stainless Steel	Stainless Steel
IP Rate:	IP6K9K	IP6K9K	IP6K9K
Work Temp:	-40~+50°C	-40~+50°C	-40~+50°C
So this is Life			
Life Time:	>30,000H	>30,000H	>30,000H

FLUSHBONADING LED WORK LIGHTS 90MM LED WORK LIGHT



Model:	E2219	1
Functions, Homologat	tion	Mechanical Feature
Functions:	Flood Beam or Spot Beam	Size:
Homologations	ECE R10	Housing Material:
Optical & Electric Feat	tures	Lens Material:
LED Type:	OE Vehicle Level LEDs	PC Brand:
Color Temp:	5700K	IP Rate:
Effective Power:	31W	Bracket:
Current Draw:	2.58A@12V; 1.29A@24V	Work Temp:
Effective Lumen:	2879.5LM	So this is Life
Luminous Efficacy:	92.8LM/W	Life Time:
Electromagnetic Featu	ires	
EMC Grade:	CISPR 25 Class 3	I
Operating Voltage:	10V~30V	

Cable Connector:

	114.50	
117.90	94.76	
6	\square	STERR
9.26		-φ104.15
AR INCOLOGY		

117.9X109X114.5mm

Anti-UV PC + Hardening Process

Aluminium Allov

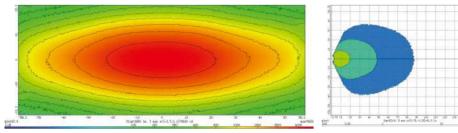
COVESTRO 2407

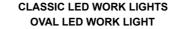
Flushbonading (4 tabs)

IP66, IP6K9K

-40~+50°C

>30,000H







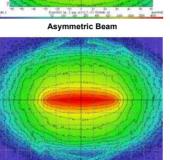
Model: Functions, H Functions: Homologation Optical & Ele LED Type: Color Temp: Raw Lumen: Effective Lum Luminous Effi Raw Power: Effective Pow Current Draw: Electromagne EMC Grade: Operating Vol Connector: Mechanical F Size: Housing Mate Lens Material PC Brand: Bracket: IP Rate: Work Temp: So this is Life Life Time:

	E-WL-LED-0002(Flood)	E-WL-LED-0002(Spot)	
lomologat	ion		
	Flood Beam	Spot Beam	
ons	ECE R10	ECE R10	
ectric Feat	ures		
	12pcs 3W LED(s)	12pcs 3W LED(s)	
	5000~6500K	5000~6500K	
	2240LM	2240LM	
men:	2143.5LM	2143.5LM	
fficacy:	74LM/W	74LM/W	
-	36W	36W	
wer:	28.8W	28.8W	
v:	2.4A@12V, 1.2A@24V	2.4A@12V, 1.2A@24V	
etic Featu	res		
	ECE R10	ECE R10	
oltage:	10V~30V	10V~30V	
	DT / AMP/ Cable (Optional)	DT / AMP/ Cable (Optional)	
Features			
	144X85X146mm	144X85X146mm	
erial:	Aluminium Alloy	Aluminium Alloy	
al:	Anti-UV PC	Anti-UV PC	
	COVESTRO 2407	COVESTRO 2407	
	Stainless Steel	Stainless Steel	
	IP6K9K	IP6K9K	
	-40~+50°C	-40~+50°C	
fe			
	>30,000H	>30,000H	

CLASSIC LED WORK LIGHTS- E2231 SERIES

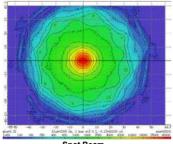


or Kymmetric	Part Contraction of the second s
РБК9К	Asymmetric I



8 AV8

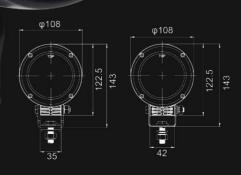
Flood Beam



Spot Beam

1

Classic LED work lamps- E2231 series



Spot

Diversified

to the needs of your work.

φ108

45

Field friendly, even light

beams

distribution.

WWW.LEDETHER.COM

LED type

OSRAM

P8 LEDs

OSRAM P8 LEDs

OSRAM P8 LEDs

OSRAM P8 LEDs

OSRAM

P8 LEDs

Raw

power

9pcs*5w

9pcs*5w

9pcs*5w

9pcs*5w

9pcs*5w

Effective

power

40W

40W

40W

40W

40W

Raw

4950LM

4950LM

4950LM

Effective

lumen

3855LM

4500LM

4950LM 4017LM 10-30V

2905LM 10-30V

4950LM 3855LM

Voltage

innut

10-30V

10-30V

10-30V

EMC level

CISPR 25

Class 4

CISPR 25 Class 4

CISPR 25

Class 4

CISPR 25 Class 4

CISPR 25

Class 4

Plua

DT

DT

DT

DT

DT

Bracket

35/ 42/ 45

35/ 42/ 45

35/ 42/ 45

35/ 42/ 45

35/ 42/ 45

optional

or

199

Model

E2231

E2231A

E2231B

E2231C

E2231D

Beam

pattern

Asymmetric

Flood

Flood

Spot

Spot



Asymmetric



OEM

Multiple beam patterns offered

Design

100% compatible with original OE parts, be it halogen or LED.



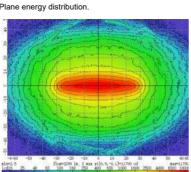
Flexible mount

3 different mounting brackets optional for different positions. h bracket/ n bracket/ 45mm(360°) bracket.

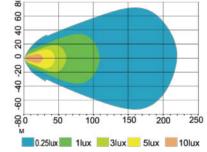
CLASSIC LED WORK LIGHTS



Model:	E2247	Plane energ
Functions, Homologatic	on	
Beam pattern:	Flood	9 <mark>0 1.000</mark>
Homologations:	ECE R10	R
Optical & Electric Featu	res	8
LED Type:	9 pcs 5W OSRAM LEDs	a 3 2 1 1
Emitting Color:	White	-
Color Temp:	6500K	P
Raw Lumen:	4950LM	REAL
Effective Lumen:	4500LM	R
Luminous Efficacy:	112.50LM/W	7
Raw Power:	45W	P
Effective Power:	40W	sin=2.5 [cd16 25 40
Current flow:	3.33A@12V; 1.66A@24V	
Electromagnetic Featur	es	Isolux of E2
EMC Grade:	CISPR 25 Class 4	8
Operating Voltage:	10V~30V	60
Connector (optional):	DT 2 pin	40
Mechanical Features		50
Size:	103X146X109mm	2
Housing Material:	Aluminium Alloy	-20
Lens Material:	Anti-UV PC	4
PC Brand:	COVESTRO 2407	-90
Mount:	Bottom bracket	and the second second
Bracket material:	Powder coated iron plate	80 M
IP Rate:	IP67, IP6K9K	0.25
Work Temp:	-40~+50°C	



E2247 flood, H:2m, Tilt: 0°, 1lux @105m.







>30,000H

So this is Life Life Time:

V.: E2247-0903-22

CLASSIC LED WORK LIGHTS PAR36 LED WORK LIGHT



Model:	PAR36
Functions, Homologation	
Functions:	Flood Beam or Spot Beam
Homologations	ECE R10
Optical & Electric Feature	S
LED Type:	18PCS 3W LEDs
Color Temp:	5000~6500K
Raw Lumen:	2880 LM
Effective Lumen:	1779LM (Flood)
Luminous Efficacy:	1707 LM (Spot)
Raw Power:	54W
Effective Power:	15W
Current Draw:	1.25A@12V; 0.625A@24V
Electromagnetic Features	1
EMC Grade:	ECE R10
Operating Voltage:	10~30VDC
Connector:	H4 or open cable optional
Mechanical Features	
Size:	φ127X149X76mm
Housing Material:	Rubber
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Stainless Steel
IP Rate:	IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

ETHER · IATF16949:2016 Certificated Your strategic OEM/ODM auto lighting partner

1. Modular design, Par 36 work lamp + rubber housing 2. Effective lumen ≥1700Lm from 5" body 3. One screw hole to fix both bracket and cable





or

V:.PAR36-0816-22

R10 ECE



PAR36





CLASSIC LED WORK LIGHTS 84MM LED WORK LIGHT



Model:	ET-12W-OS	I
Functions, Homologa	tion	Mechanical Feat
Functions:	Flood Beam or Spot Beam	Size:
Homologations	ECE R10	Housing Materia
Optical & Electric Fea	tures	Lens Material:
LED Type:	4pcs 3W OSRAM P7 LEDs	PC Brand:
Color Temp:	5000~6500K	IP Rate:
Raw Lumen:	1000LM	Bracket:
Effective Lumen:	717.15LM	Work Temp:
Luminous Efficacy:	90.5LM/W	So this is Life
Raw Power:	12W	Life Time:
Effective Power:	7.92W	1
Current Draw:	0.66A@12V, 0.33A@24V	
Electromagnetic Feat	ures	
EMC Grade:	CISPR 25 Class 3	
Operating Voltage:	10V~30V	
Connector:	Open cable	

Mechanical Features	
Size:	84X115.7X64.7mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
IP Rate:	Stainless Steel
Bracket:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

r T

ā

CLASSIC LED WORK LIGHTS 84MM | FD WORK | IGHT

Model

84MM LED WORK LIGHT	Model:	E222
	Functions, Homologa	tion
1 Castillition.	Functions:	Flood
Construction of the second sec	Homologations	ECE
	Optical & Electric Fea	tures
	LED Type:	4pcs
	Color Temp:	5000-
	Raw Lumen:	56001
	Effective Lumen:	25001
	Luminous Efficacy:	138.8
	Raw Power:	40W
	Effective Power:	18W
and the second s	Current Draw:	1.5A@
	Electromagnetic Feat	ures
E2226 Flood	EMC Grade:	CISP
all lit	Operating Voltage:	10V~
	Connector:	DT
PROJECT PHASE:	AAN	
Or Concept Design	Y DY	
Flood Stort Development	DT Connector	
Sample Stage		
R10 Class 3 Mass Production		
Nitto A Buedeo	Contract of Contra	E2226-2 Spot

G

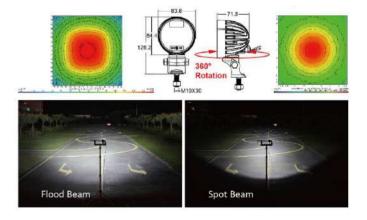
Mass Production



E2226		
tion	Mechanical Features	;
Flood Beam or Spot Beam	Size:	83.8X126.2X71.8mm
ECE R10	Housing Material:	Aluminium Alloy
tures	Lens Material:	Anti-UV PC
4pcs 10W OSRAM P9 LED(s)	PC Brand:	COVESTRO 2407
5000~6500K	IP Rate:	Stainless Steel
5600LM	Bracket:	IP67, IP6K9K
2500LM	Work Temp:	-40~+50°C
138.88LM/W	So this is Life	
40W	Life Time:	>30,000H
18W		

1.5A@12V; 0.75A@24V

CISPR 25 Class 3 10V~30V



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FLUSHBONADING LED WORK LIGHTS 84MM LED WORK LIGHT

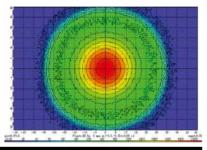


Model:	E2128
Functions, Homologa	tion
Functions:	Flood Beam or Spot Beam
Homologations	ECE R10
Optical & Electric Fea	tures
LED Type:	4pcs 10W OSRAM P9 LEDs
Color Temp:	5000~6500K
Raw Lumen:	4800LM
Effective Lumen:	2207LM
Luminous Efficacy:	120LM/W
Raw Power:	40W
Effective Power:	18W
Current Draw:	1.5A@12V; 0.75A@24V
Electromagnetic Feature	ures
EMC Grade:	CISPR 25 Class 3
Operating Voltage:	10V~30V

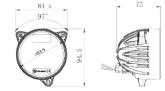
Connector:

DT / AMP/ Cable (Optional)

Mechanical Features	
Size:	φ83.5X72mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Flushbonading (3 tabs)
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



or





FLUSHBONADING LED WORK LIGHTS 84MM ROUND LED WORK LIGHT+OEM FINISH Model

E2128-1

PROJECT PHASE:	Spot Beam
Concept Design	
Development	
Sample Stage	
Mass Production	

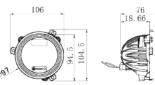
Functions:	Flood Beam o
Homologations	ECE R10
Optical & Electric Feat	tures
LED Type:	4pcs 10W OS
Color Temp:	5000~6500K
Raw Lumen:	4800LM
Effective Lumen:	2207LM
Luminous Efficacy:	120LM/W
Raw Power:	40W
Effective Power:	18W
Current Draw:	1.5A@12V; 0.
Electromagnetic Featu	ures
EMC Grade:	CISPR 25 Cla
Operating Voltage:	10V~30V
Connector:	Cable

Functions, Homologation

Flood Beam







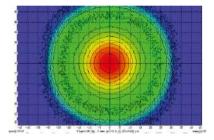


eam or Spot Beam
10
W OSRAM P9 LEDs

@12V; 0.75A@24V

PR 25 Class 3 -30V

Mechanical Features	
Size:	Ф97Х76mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket:	Flushbonading (3 tabs)
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H



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RED OR BLUE SAFETY LINE Model: E2224 Functions, Homologation Beam Pattern **Optical & Electric Features** Red Emitting Color: 620-630K Color Temp: 300LM Raw Lumen: 180I M Effective Lumen 361 MAM Fffe Curr Elec FMC Ope PROJECT PHASE: Con Mec Concept Design Size Development Sample Stage

Warning Signal Series

Safety is always the top priority for heavy duty jobs. Eye-catching signals even visible in the sunshine. ETHER's clear, sharp warning signals guarantee safety for YOU. Higher efficiency and productivity.



Luminous Efficacy:	36LM/
Raw Power:	6W
Effective Power:	5W
Current flow:	0.42A(
Electromagnetic Featu	res
EMC Grade:	ECE R
Operating Voltage:	10V~8
Connector:	Open
Mechanical Features	
Size:	80X67
Housing Material:	Alumir
Lens Material:	Anti-U
PC Brand:	COVE
Bracket Material:	Stainle
IP Rate:	IP67, I
Work Temp:	-40~+{
So this is Life	

Life Time:

Safetv line

A@12V, 0.21A@24V

R10

7X60mm

inium Allov

JV PC

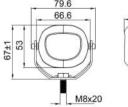
ESTRO 2407

less Steel

IP6K9K

-50°C

>30.000H





Products subject to update, change or modify without notice.

WWW.LEDETHER.COM

RED OR BLUE SAFETY LINE



Model:	E2241
Functions, Homologatio	n
Beam Pattern:	Safety line
Optical & Electric Featur	es
Emitting Color:	Red
Red wavelength:	620-630nm
Raw Lumen:	600LM
Effective Lumen:	180LM
Luminous Efficacy:	24LM/W
Raw Power:	12W
Effective Power:	7.5W
Current flow:	0.63A@12V, 0.31A@24V
Electromagnetic Feature	S
EMC Grade:	ECE R10
Operating Voltage:	10V~80V
Connector:	Open cable
Mechanical Features	
Size:	84X64.7X111.2mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
Bracket Material:	Stainless Steel
IP Rate:	IP67, IP6K9K
Work Temp:	-40~+50°C
So this is Life	

Life Time: >30,000H

ETHER IATF16949:2016 Certificated

- ECE R10 compliant

- Longer safety line
- Special for heavy duty forklifts
- Straight and even line lighting
- Sharp warning signal





WARNING SIGNALS - PROJECTION TECHNOLOGY



96.7	194
96.7 M10 bolt	<i>√</i> <i>√</i> <i>√</i> <i>√</i> <i>√</i> <i>63.63</i> <i>63.63</i> <i>82.35</i>

Model:	E2150	
Functions, Homologati	ion	Mechanica
Beam Pattern:	Projection logo customized	Size:
Homologations:	ECE R10 (10-30V)	Housing M
Optical & Electric Feat	ures	Lens Mate
LED Type:	1pcs 40W LED	Mount:
Emitting Color:	Full color	Bracket ma
Raw Lumen:	1900LM	IP Rate:
Effective Lumen:	To logo design	Work Tem
Effective Power:	30W	So this is I
Electromagnetic Featu	res	Life Time:
EMC Grade:	ECE R10 (10-30V)	
Operating Voltage:	10V~80V	
Connector (optional):	2 pin cable	I

lechanical Features	
ize:	96.7X166.8X194mm
lousing Material:	Aluminium Alloy
ens Material:	Anti-UV PC
lount:	bottom bracket
Bracket material:	Stainless steel
P Rate:	IP67, IP6K9K
Vork Temp:	-40~+50°C
io this is Life	
ife Time:	>30,000H

Projection logo could be customized(MOQ:500Pcs)to your needs.



Logo could be tailored to your needs

STOP

Customized L

Projection technology
Sharp warning signals
High brightness, higher s

213 WWW.



36

M10 bolt

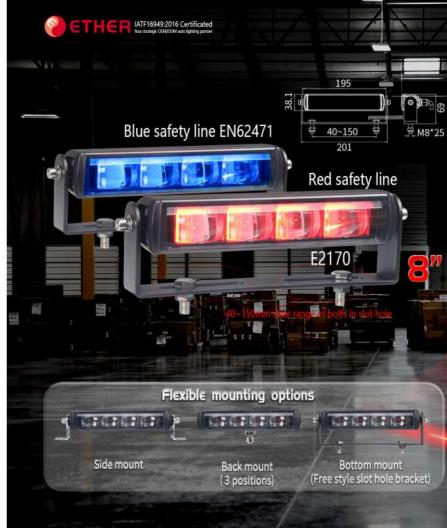


63.63

8" MINI DRIVING LIGHT BAR – RED SAFETY LINE



Model:	E2170	
Functions, Homologation		
Beam Pattern:	Safety line	
Homologations:	ECE R10	
Optical & Electric Feature	S	
Emitting Color:	Red	
Wavelength:	620-634nm	
Raw Lumen:	2760LM	
Effective Lumen:	551.5LM	
Illumination Distance:	1 lux @80m	
Luminous Efficacy:	31.5LM/W	
Raw Power:	36W	
Effective Power:	17.5W	
Current flow:	1.45A@12V, 0.72A@24V	
Electromagnetic Features		
EMC Grade:	ECE R10	
Operating Voltage:	10V~80V	
Connector:	Open cable	
Mechanical Features		
Size:	195X38.1X65.6mm	
Housing Material:	Aluminium Alloy	
Lens Material:	Anti-UV PC	
PC Brand:	COVESTRO 2407	
Bracket Material:	Stainless Steel	
IP Rate:	IP67, IP6K9K	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30,000H	



Products subject to update, change or modify without notice.

V.: E2170-0817-22 😑

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For higher safety. – Your focus for work. Our focus for your safety. Clear signals even in daytime.

14" MINI DRIVING LIGHT BAR - RED SAFETY LINE



PROJECT PHASE:
Concept Design
Development
Sample Stage
Mass Production



Model:	E2171		
Functions, Homologati	ion	Mechanical Features	
Beam Pattern:	Safety line	Size:	350X38X74mm
Homologations:	ECE R10	Housing Material:	Aluminium Alloy
Optical & Electric Feat	ures	Lens Material:	Anti-UV PC
Emitting Color:	Red	Mount:	COVESTRO 2407
Wavelength:	620-634nm	Bracket material:	Stainless Steel
Raw Lumen:	5520LM	IP Rate:	IP67, IP6K9K
Effective Lumen:	915.98LM	Work Temp:	-40~+50°C
Illumination Distance:	1 lux @110.7m	So this is Life	
Luminous Efficacy:	30LM/W	Life Time:	>30,000H
Raw Power:	72W		
Effective Power:	30.5W		
Current flow:	2.52A@12V, 1.26A@24V		

Electromagnetic Features

EMC Grade:	ECE R10
Operating Voltage:	10V~80V
Connector:	Open cable

THER IATF16949:2016 Certificated



- ECE R10 compliant
- Longer safety line
- Straight and even line lighting
- Sharp warning signal
- Vibration level 15.3Grms
- Shock resistance up to 60G



Lens surface hardened





MAN

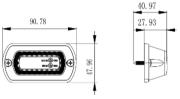


ECE R65, R10 Standards, Now EMC upgraded, CISPR 25 Class 3/4/5 Available Aluminum Base, permanent or magnetic mount (Speed up to 120km/H) Anti-UV Lens PC from COVESTRO/Teijin Multiple Flash Patterns

LED Warning Lights

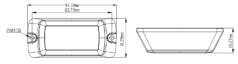
3.6" MINI WARNING LIGHT





3.6" MINI WARNING LIGHT





	E5101

Model:

model.				
Functions, Homologa	ation	Mechanical Features		
Flash Patterns:	Up to 10 patterns	Size:	91X47X28mm	
Homologations:	ECE R65	Housing Material:	Aluminium Alloy	
Optical & Electric Fea	atures	Lens Material:	Anti-UV PC	
LED Type:	3pcs 3W LED(s)	PC Brand:	COVESTRO 2407	
Power:	9W	IP Rate:	IP6K9K	
Emitting Color:	Amber, Red, White, Blue (Optional)	Bracket:	Permanent Mount	
Control Mode:	Synchronized or Asynchronous	Work Temp:	-40~+50°C	
Electromagnetic Feat	tures	So this is Life		
EMC Grade:	ECE R10	Life Time:	>30,000H	
Operating Voltage:	10V~30V			
Connector:	Open cable	I		

- 1

PROJECT PHASE: Concept Design

Development Sample Stage Mass Production

Model:	E5102	
Functions, Homologa	tion	Mechanical Features
Flash Patterns:	Up to 10 patterns	Size:
Homologations:	ECE R65	Housing Material:
Optical & Electric Fea	tures	Lens Material:
LED Type:	8pcs 3W LED(s)	PC Brand:
Power:	24W	IP Rate:
Emitting Color:	Amber, Red, White, Blue (Optional)	Bracket:
Control Mode:	Synchronized or Asynchronous	Work Temp:
Electromagnetic Feat	ures	So this is Life
EMC Grade:	ECE R10	Life Time:
Operating Voltage:	10V~30V	
Connector:	Open cable	1

93X41X26mm Aluminium Alloy Anti-UV PC COVESTRO 2407 IP6K9K Permanent Mount -40~+50°C >30,000H



Amber

Red











White

Blue







3" SQUARE WARNING LIGHT



Model:	E-R65-1224
Functions, Homologa	tion
Flash Patterns:	Up to 10 patterns
Homologations:	ECE R65
Optical & Electric Fea	atures
LED Type:	12pcs LED(s)
Emitting Color:	Amber or White
Control Mode:	Synchronized
	or Asynchronous
Electromagnetic Feat	ures
Operating Voltage:	10V~30V
Connector:	Car Charger (Optional)

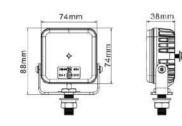
Mechanical Features	
Size:	74X74X38mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
PC Brand:	COVESTRO 2407
IP Rate:	IP6K9K
Mounting Means:	Permanent
Work Temp:	Mount-40~+50°C
So this is Life	
Life Time:	>30,000H

7" MINI WARNING LIGHT



	Functions, Homologa	tion
	Flash Patterns:	Up to 10 pa
	Homologations:	ECE R65,
10	Optical & Electric Fea	atures
and the second	LED Type:	6pcs 3W L
	Power:	18W
	Emitting Color:	Amber
	Control Mode:	Synchroniz
	Qty of Sync group	4 or 8 pcs :
PROJECT PHASE:	Electromagnetic Feat	ures
Concept Design	EMC Grade:	ECE R10
Development	Operating Voltage:	10V~30V
Sample Stage	Connector:	Open cable
Mass Production		

Model:



Flash pattern	FPM(Flashes per minute)
1.Single	100
2.Quad (Left-right split)	75
3.Quint (Left-right split)	60
4. Triple (Left-right split)	100
5.Mega	1200
6.Double (Left-right split)	75
6.Double (Left-right split)	75

100 93

144

112

R10

IP6K9K

Flash patterns

7.Triple

8.Single (ECE) (1)

9.Single (ECE) (2)

10.Combine

FCF

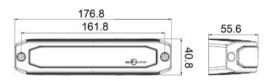
223 WWW.LEDETHER.COM	223	WWW.LEDETHER.COM
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	Mechanical Features	Mechanical Features	
10 patterns	Size:	176.8X40.8X55.6mm	
65, R10	Housing Material:	Aluminium Alloy	
	Lens Material:	Anti-UV PC	
W LED(s)	PC Brand:	COVESTRO 2407	
	IP Rate:	IP6K9K	
	Mounting Means:	Bracket Mount	
ronized or Asynchronous	Work Temp:	-40~+50°C	
pcs synchronized	So this is Life		
	Life Time:	>30,000H	

1

E5106

Open cable



5.6" MINI WARNING LIGHT







PROJECT PHASE:
Concept Design
Development
Sample Stage
Mass Production

Connector:

Flash patterns

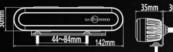
Flash pattern	FPM(Flashes per minute)	
1.Single	100	
2.Quad (Left-right split)	75	
3.Quint (Left-right split)	60	
4.Triple (Left-right split)	100	
5.Mega	1200	
6.Double (Left-right split)	75	
7.Triple	100	
8.Single (ECE) (1)	93	
9.Single (ECE) (2)	144	
10.Combine	112	

Model:	E-R65-612	1		
Functions, Homologa	tion	Mechanical Features		
Flash Patterns:	Up to 10 patterns	Size:	142X30X35mm	
Homologations:	ECE R65	Housing Material:	Aluminium Alloy	
Optical & Electric Fea	tures	Lens Material:	Anti-UV PC	
ED Type:	6pcs 3W LED(s)	PC Brand:	COVESTRO 2407	
Power:	18W	IP Rate:	IP6K9K	
Emitting Color:	Amber	Bracket:	Bracket Mount	
Control Mode:	Synchronized or Asynchronous	Work Temp:	-40~+50°C	
Electromagnetic Feat	ures	So this is Life		
EMC Grade:	ECE R10	Life Time:	>30,000H	
Operating Voltage:	10V~30V			
Connector:	Open cable	1		





E-R65-612





Classic warning light with

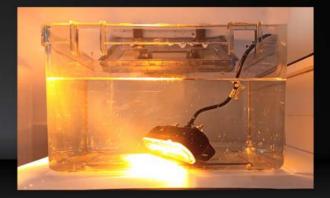
- Completely sealed housing design
- High level protection:
- ECE R65 Compliant.
- EMC optional: ECE R10,



Products subject to update, change or modify without notice.

V.:E-R65-612-0817-22





RECHARGEABLE LIGHT



PROJECT PHASE

Concept Design Development Sample Stage

Mass Production

Model:	E5145	I	
Functions, Homologati	ion	Mechanical Features	
Beam pattern:	Flash warning light	Size:	φ84X47mm
Homologations:	V16	Housing Material:	Aluminium Alloy
Optical & Electric Feat	ures	Lens Material:	Anti-UV PC
LED Type:	3 pcs 1W LEDs	Mount:	Magnetic base
Emitting Color:	Amber	IP Rate:	IP65
Color Temp:	1700~1900K	Work Temp:	-40~+50°C
Raw Lumen:	300LM	So this is Life	
Effective Lumen:	200LM	Life Time:	>30,000H
Raw Power:	3W		
Effective Power:	3W		
Illumination distance:	1000m	I	
Electromagnetic Featu	res		
Operating Voltage:	3 pcs 1.5V AA battery		
Connector:	None		

LOGO

ER IATF16949:2016 Certificated

Moveable beacon of V16 standard

- 3 pcs AA battery powered
- 30 min warning time @100% brightness
- Warning distance up to 1
- Increased safety to replace traditional triangle



V.:E5145-0817-22

visibility up to 1000m







RECHARGEABLE BEACON

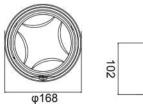


Model:	E5108A		
Functions, Homologation			
Flash Patterns:	Up to 10 patterns		
Homologations:	ECE R65		
Optical & Electric Fea	tures		
LED Type:	30 pcs SMD LED(s)		
Emitting Color:	Amber		
Electromagnetic Features			
EMC Grade:	CISPR 25 Class 3		
Operating Voltage:	10V~30V		
Connector:	DT/ AMP/ Cable/		
	Car Charger (Optional)		
Mechanical Features			
Size:	ø168X102mm		
Housing Material:	Amber or Clear (Optional)		
Lens Material:	Anti-UV PC		
PC Brand:	COVESTRO 2407 or Teijin		
IP Rate:	IP65		
Mounting Means:	Permanent Mount		
Work Temp:	-40~+50°C		
So this is Life			

>30,000H

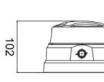
So this is Life

Life Time:



Class 3 EMC CISPR 25

R65

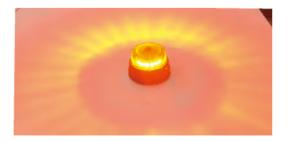


Concept Design

Development

Sample Stage

Mass Production







Model:	E5128
Mounting:	Screw mout
Size:	φ127X110mm
Homologation:	ECE R65, SAE J845 Class 1
EMC Level:	ECE R10 / CISPR 25Class 5
Light Source:	LED, Amber
Color Temp.:	1700-1800K
Flash Pattern:	2.5Hz, 150 FPM @ strobe
	Or rotating (optional)
Lens Color:	Transparent Amber
Finish:	Elegant Silver

Nodel:	E5128A
Nounting:	Socket I
Size:	φ127X1
lomologation:	ECE R6
MC Level:	ECE R1
ight Source:	LED, An
Color Temp.:	1700-18
lash Pattern:	2.5Hz, 1
	Or rotati
ens Color:	Transpa
inish:	Elegant

LED BEACONS



Pipe(DIN Pole) 110mm R65, SAE J845 Class 1 R10 / CISPR 25Class 5 mber 800K 150 FPM @ strobe ating (optional) arent Amber Silver



E5128B
Screw mout+car charger
φ127X110mm
ECE R65, SAE J845 Class 1
ECE R10 / CISPR 25Class 5
LED, Amber
1700-1800K
2.5Hz, 150 FPM @ strobe
Or rotating (optional)
Transparent Amber
Elegant Silver





Model:	E5129
Mounting:	Screw mout
Size:	φ127X110mm
Homologation:	ECE R65, SAE J845 Class 1
EMC Level:	ECE R10 / CISPR 25Class 5
Light Source:	LED, Amber
Color Temp.:	1700-1800K
Flash Pattern:	2.5Hz, 150 FPM @ strobe
	Or rotating (optional)
Lens Color:	Transparent Amber
Finish:	Classic black



Model:	E5129A
Mounting:	Socket Pipe(DIN Pole)
Size:	φ127X110mm
Homologation:	ECE R65, SAE J845 Class 1
EMC Level:	ECE R10 / CISPR 25Class 5
Light Source:	LED, Amber
Color Temp.:	1700-1800K
Flash Pattern:	2.5Hz, 150 FPM @ strobe
	Or rotating (optional)
Lens Color:	Transparent Amber
Finish:	Classic black



Model:	E5129B
Mounting:	Screw mout+car charger
Size:	φ127X110mm
Homologation:	ECE R65, SAE J845 Class 1
EMC Level:	ECE R10 / CISPR 25Class 5
Light Source:	LED, Amber
Color Temp.:	1700-1800K
Flash Pattern:	2.5Hz, 150 FPM @ strobe
	Or rotating (optional)
Lens Color:	Transparent Amber
Finish:	Classic black





V.:E5129-0817-22





Model:	E5130
Mounting:	Screw mout
Size:	φ135X222mm
Homologation:	ECE R65, SAE J845 Class 1
EMC Level:	ECE R10 / CISPR 25Class 5
Light Source:	LED, Amber
Color Temp.:	1700-1800K
Flash Pattern:	2.5Hz, 150 FPM @ strobe
	Or rotating (optional)
Lens Color:	Transparent Amber
Finish:	Classic black





Model:	E5130A
Mounting:	Socket Pipe(DIN Pole)
Size:	φ135X222mm
Homologation:	ECE R65, SAE J845 Class 1
EMC Level:	ECE R10 / CISPR 25Class 5
Light Source:	LED, Amber
Color Temp.:	1700-1800K
Flash Pattern:	2.5Hz, 150 FPM @ strobe
	Or rotating (optional)
Lens Color:	Transparent Amber
Finish:	Classic black

Model:	E5130B
Mounting:	Screw mout+car charger
Size:	φ135X222mm
Homologation:	ECE R65, SAE J845 Class 1
EMC Level:	ECE R10 / CISPR 25Class 5
Light Source:	LED, Amber
Color Temp.:	1700-1800K
Flash Pattern:	2.5Hz, 150 FPM @ strobe
	Or rotating (optional)
Lens Color:	Transparent Amber
Finish:	Classic black



LED BEACO

Higher EMC level, CISPR 25 Class 5

- Zero noise
- Zero wireless interference
- OEM mount design
- 100% compatible with original beacons
- Safer, more cost effective

V.:E5130-0817-22

E5130A



E5130



E5130B











PROJECT PHASE:	
Concept Design	
Development	
Sample Stage	
Mass Production	

Model:	E5132
Functions, Homologation	on
Beam pattern:	Flash warning light
Homologations:	ECE R65
Optical & Electric Featu	ires
LED Type:	30 pcs 0.5W LEDs
Emitting Color:	Amber
Color Temp:	1700~1800K
Raw Lumen:	NA
Effective Lumen:	NA
Raw Power:	15W
Effective Power:	15W
Illumination distance:	1000m
Electromagnetic Featur	es
Operating Voltage:	10-30V
Connector:	cable
Mechanical Features	
Size:	158Xφ142mm
Housing Material:	Aluminium Alloy
Lens Material:	Anti-UV PC
Mount:	Screw mout
IP Rate:	IP65
Work Temp:	-40~+50°C
So this is Life	
Life Time:	>30,000H

CTHER · LATF16949:2016 Certificated

5" LED BEA

- Higher EMC level, CISPR 25 Class 5
- Zero noise
- Zero radio interference
- OEM mount design
- 100% compatible with original beacons
- Safer, more cost effective







Products subject to update, change or modify without notice.





E5132

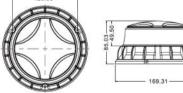


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ROJECT PHASE:	
Concept Design	
Development	
Sample Stage	
Mass Production	



A	5.03-	
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E5108	1
tion	
Up to 10 patterns	
ECE R65	I
tures	
30 pcs SMD LED(s)	I
Amber	i
ures	
CISPR 25 Class 3	۱ I
10V~30V	
DT/ AMP/ Cable/	i
Car Charger (Optional)	
	Up to 10 patterns ECE R65 tures 30 pcs SMD LED(s) Amber ures CISPR 25 Class 3 10V~30V DT/ AMP/ Cable/

lechanical Features		
Size:	ø169X85mm	
Housing Material:	Amber or Clear (Optional)	
Lens Material:	Anti-UV PC	
PC Brand:	COVESTRO 2407 or Teijin	
IP Rate:	IP6K9K	
Mounting Means:	Permanent Mount	
Work Temp:	-40~+50°C	
So this is Life		
Life Time:	>30.000H	

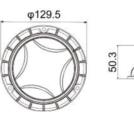






LED BEACONS





Model:	E5109
Functions, Homologa	tion
Flash Patterns:	Up to 1
Homologations:	ECE R
Optical & Electric Fea	tures
LED Type:	30 pcs
Emitting Color:	Amber
Electromagnetic Feat	ures
EMC Grade:	ECE R
Operating Voltage:	10V~30

Connector:





L3103		
ion	Mechanical Features	
Up to 10 patterns	Size:	ø129.5X50.3mm
ECE R65, R10	Housing Material:	Amber or Clear (Optional)
ures	Lens Material:	Anti-UV PC
30 pcs SMD LED(s)	PC Brand:	COVESTRO 2407 or Teijin
Amber or White	IP Rate:	IP6K9K
ires	Mounting Means:	Permanent Mount
ECE R10	Work Temp:	-40~+50°C
10V~30V	So this is Life	
DT / AMP/ Cable (Optional)	Life Time:	>30,000H

Tail Lights

LED Tail Lights for Various Sizes/Designs of vehicles Find your DOT, SAE, or ECE approved Tail lights 2.4G Hz wireless control optional



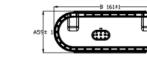
OVAL LED TAIL LIGHTS

Model: E5116 Functions, Homologation 14 flash Flash Patterns: SAE Cla Homologations: Optical & Electric Features LED Type: 21pcs 0 Emitting Color: Amber Effective Power: 8.6W Control Mode: Synchro Forward Reset to

Electromagnetic Features EMC Grade: ECE R10 Operating Voltage: 12V Connector:

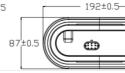
Size of Light Body





Size with Bracket:





	Mechanical Features	
sh patterns	Size of Light Body:	161X59X34mm
Class 1,ECE R10	Mounting Means:	Flush Bracket Mount
	Size with Bracket:	192x 87x 36.4mm
0.5W LED(s)	Housing Material:	Anti-UV PC+ABS
r	Lens Material:	Anti-UV PMMA
	Bracket Material:	Rubber
ronous;	IP Rate:	IP67, IP6K9K
rd; Backward,	Work Temp:	-40~+50°C
to Default	So this is Life	
	Life Time:	>30.000H

AMP 3-pin connector







OVAL LED TAIL LIGHTS







PROJECT PHASE:			
Concept Design			
Development			
Sample Stage			
Mass Production			

Model:	E5116B	E5116C	E5116D	E5116Y			
Functions, Homologation							
Flash Patterns:	Direction indicator	Direction indicator	Direction indicator	Warning light			
Homologations:	DOT	DOT	DOT	DOT			
Optical & Electric Features							
LED Type:	10pcs 1W LED(s)	10pcs 0.5W LED(s)	10pcs 0.5W LED(s)	10pcs 1W LED(s)			
Emitting Color:	Amber	Amber	Amber	Amber			
Raw Power	10W	5W	5W	10W			
Effective Power:	2.5W	2.5W	2.5W	2.5W			
Electromagnetic Feat	ures						
EMC Grade:	CISPR 25 Class 5						
Operating Voltage:	12V	12V	12V	12V			
Connector:	cable	cable	cable	cable			
Mechanical Features							
Size:	192X39.2X87mm	192X39.2X87mm	192X39.2X87mm	192X39.2X87mm			
Mounting Means:	Flush Bracket Mount	Flush Bracket Mount	Flush Bracket Mount	Flush Bracket Mount			
Housing Material:	Anti-UV PC+ABS	Anti-UV PC+ABS	Anti-UV PC+ABS	Anti-UV PC+ABS			
Lens Material:	Anti-UV PMMA	Anti-UV PMMA	Anti-UV PMMA	Anti-UV PMMA			
Bracket Material:	Rubber	Rubber	Rubber	Rubber			
IP Rate:	IP67, IP6K9K	IP67, IP6K9K	IP67, IP6K9K	IP67, IP6K9K			
Work Temp:	-40~+50°C	-40~+50°C	-40~+50°C	-40~+50°C			
So this is Life							
Life Time:	>30,000H	>30,000H	>30,000H	>30,000H			



1. No radio interference, no noise, no camera signal interference 2. High level EMC

3. DOT approved by influential labs in the U.S.A.



 192 ± 2

39 2+1

26±1





WIRELESS TRIANGULAR COMBO TAIL LIGHT



Model:	E7510	
Functions, Homologa	tion	Mechanical Feature
Flash Patterns:	Up to 10 patterns	Size:
Homologations: ECE R65		Housing Material:
Optical & Electric Fea	tures	Lens Material:
LED Type: 30 pcs SMD LED(s)		PC Brand:
Emitting Color: Amber		IP Rate:
Electromagnetic Featu	ures	Mounting Means:
EMC Grade:	CISPR 25 Class 3	Work Temp:
Operating Voltage:	10V~30V	So this is Life
Connector:	DT/ AMP/ Cable/	Life Time:
	Car Charger (Optional)	

ø168X102mm

Anti-UV PC

-40~+50°C

>30.000H

Permanent Mount

IP65

Amber or Clear (Optional)

COVESTRO 2407 or Teijin

PROJECT PHASE:
Concept Design
Development

Class 3 EMC CISPR 25

6	Concept Design
	Development
	Sample Stage
	Mass Production



Wireless triangular combo tail light

- Strong magnet and elegant design
- 6 functions in 1



- Remote control with 2.4G
- Max control range: 75m
- Safe Lithium-ion battery
- rs for position and plate lighting - Max







Products subject to update, change or modify without notice.



RECHARGEABLE LIGHT



46 - C	83 - E
R10	R148
ECE	ECE

Model:	E7504		
Functions, Homolog	ation	Battery	
Functions:	Park	Battery	1pcs lithium b
	Direction indicator	Capacity:	3.7V 2000mA
	Brake	Charging time:	2 hours
	License plate light	Running time:	5 hours (Posi
Homologation:	ECE R10, R148	So this is Life	
Optical & Electric Fe	atures	Frequency:	2.4G Hz
Voltage :	10~30V	Control range:	≤75m
EMC Level:	R10	Compatibility:	CAN-BUS
Electromagnetic Fea	tures		
Waterproof level:	IP65	1	
Size:	100X100X58mm		
Materials:	ABS + PMMA		

attery	
attery	1pcs lithium battery
apacity:	3.7V 2000mAh
harging time:	2 hours
unning time:	5 hours (Position and plate light)
o this is Life	
requency:	2.4G Hz
ontrol range:	≤75m
ompatibility:	CAN-BUS



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Tail light kit

Powerful Magnetic

Mounting type

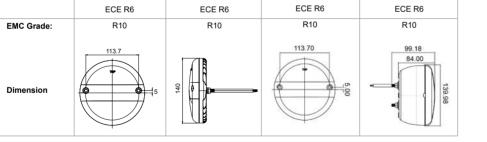
V:E7510-0905-22



E7503-7/E7503-6

LED COMBINATION TAIL LIGHTS 5-IN-1 E7503 SERIES E7503 E7503-8 E7503-7 E7503-6 Model 5 5 5 5 Total functions Load Resistor: None Built-in Built-in None 10V~30V 12V or 24V 12V or 24V 10V~30V Voltage input: Brake (Stop) Brake (Stop) Brake (Stop) Brake (Stop) Rear Position Rear Position Rear Position Rear Position Reverse (Back up) Reverse (Back up) Reverse (Back up) Reverse (Back up) Functions: Rear DI(Turn) Rear DI(Turn) Rear DI(Turn) Rear DI(Turn) Rear Fog Rear Fog Rear Fog Rear Fog ECE R7 S1 ECE R7 S1 ECE R7 S1 ECE R7 S1 ECE R7 R1 ECE R7 R1 ECE R7 R1 ECE R7 R1 ECE R23 ECE R23 ECE R23 ECE R23 Homologations:

ECE R38



ECE R38

ECE R38

1000Lm Reversing ECE R23 Compliant 10X Brighter vs Ordinary Reversing 5 functions in 1 Position / Brake /Turn / Reverse / Fog Compact Design Ø140mm



PROJECT PHASE: Concept Design Development Sample Stage ECE R38

HOT Selling Tail light assembly
Special for Big and Oversize Vehicles
Original Optic Design Zero dark corner@ reversing
Noglare
Higher visibility
Higher safety

240

LED COMBINATION TAIL LIGHTS 5-IN-1, E7503F SERIES

LED COMBINATION TAIL LIGHTS --- E7503G SERIES - BACK CUP VERSION

Photo	Model	Total functions	Load resistor	Voltage input	Functions	Homologations	EMC Grade
	E7503F	5	None	10V-30V	Rear Position Brake (Stop) Reverse (Back up) Rear DI(Turn) Rear Fog	ECE R7 S1 ECE R7 R1 ECE R23 ECE R38 ECE R6	R10
	E7503F-1	3	None	10V-30V	Rear Position Brake (Stop) Rear DI(Turn)	ECE R7 S1 ECE R7 R1 ECE R6	R10
	E7503F-2	3	None	10V-30V	Rear Position Brake (Stop) Reverse (Back up)	ECE R7 S1 ECE R7 R1 ECE R23	R10
	E7503F-3	5	Built-in	12V	Rear Position Brake (Stop) Reverse (Back up) Rear DI(Turn) Rear Fog	ECE R7 S1 ECE R7 R1 ECE R23 ECE R38 ECE R6	R10
	E7503F-4	3	Built-in	12V	Rear Position Brake (Stop) Rear DI(Turn)	ECE R7 S1 ECE R7 R1 ECE R6	R10
	E7503F-6	5	Built-in	24V	Rear Position Brake (Stop) Reverse (Back up) Rear DI(Turn) Rear Fog	ECE R7 S1 ECE R7 R1 ECE R23 ECE R38 ECE R6	R10
	E7503F-7	3	Built-in	24V	Rear Position Brake (Stop) Rear DI(Turn)	ECE R7 S1 ECE R7 R1 ECE R6	R10



Dimension of

E7503F series:

113.7

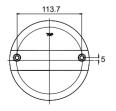
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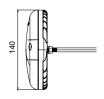
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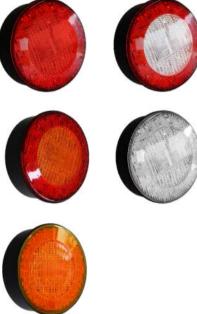
Homologations	EMC Grade	
ECE R7 S1 ECE R7 R1 ECE R23 ECE R38 ECE R6	R10	
ECE R7 S1 ECE R7 R1 ECE R6	R10	
ECE R7 S1 ECE R7 R1 ECE R23	R10	
ECE R7 S1 ECE R7 R1 ECE R23 ECE R38 ECE R6	R10	
ECE R7 S1 ECE R7 R1 ECE R6	R10	
ECE R7 S1 ECE R7 R1 ECE R23 ECE R38 ECE R6	R10	
ECE R7 S1 ECE R7 R1 ECE R6	R10	

Dimension of E7503G series:



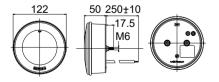


SQUARE TAIL LIGHT 80MM



Size:122X122X	(50mm Voltage:1	2V or 24V	IP Rate:IP6K9K
Lens Material:	PC Housing I	Material:ABS	
LED Color		Os	O S€
Model	E-TL-122-RE/RR	E-R122-STR	E-R122-STDI
Model LEDs	E-TL-122-RE/RR 12pcs White SMD LED	E-R122-STR 16pcs Red LED 12pcs White LED	E-R122-STDI 16pcs Red LED 12pcs Amber LED

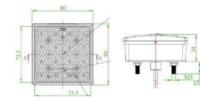




LED Color			SE	
Model	E-R122-R	E-R122-RF	E-R122-DI	E-R122-ST
Material/Colour	28pcs White LED	28pcs Red LED	28pcs Amber LED	28pcs Red LED
Description	Rear Reversing	Rear Fog light	LED DI	LED Stop / Tail light

Size:80X80X33mm	Voltage: 12V or 24V	IP Rate:IP6K9K

LED Color			
Mode	E-TL-80-ST	E-EL-80-DI	E-EL-80-R
Material/Colour	PC/ABS;Red	PC/ABS;Amber	PC/ABS;White
Description	LED Stop/Tail light;	LED DI	LED Reversing light
	16pcs red LEDs	16pcs amber LEDs	16pcs white LEDs
Apprpvals	FMVSS 108 DOT	FMVSS 108 DOT	FMVSS 108 SAE



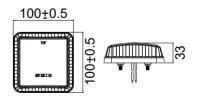
Approvals

FMVSS 108 SAE / FMVSS 108 DOT

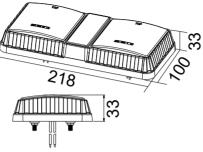
SQUARE TAIL LIGHT 100MM



Size:100X100X33mm	Voltage: 12V	or 24V or 12V or 24V	IP Rate:IP6K9K
LED Color			
Model	E-SQ-100-ST	E-SQ-100-DI	E-SQ-100-R
Material/Colour	PC/ABS;Red	PC/ABS;Amber	PC/ABS;White
Description	LED Stop/Tail light;	LED DI;	LED Reversing light;
	16pcs red LEDs	16pcs amber LEDs	16pcs white LEDs
Apprpvals	FMVSS 108 DOT	FMVSS 108 DOT	FMVSS 108 SAE



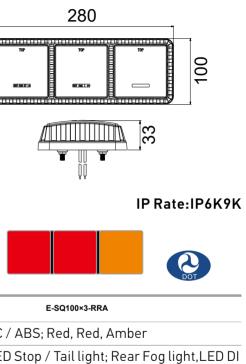




Size:218X100X33	mm Voltage:1	2V or 24V	IP Rate:IP6K9K	
LED Color	SE SE		SP SP	
Model	E-SQ100×2-STR	E-SQ100×2-STDI	E-SQ100×2-RDI	
Material/Colour	PC / ABS; Red, White	PC / ABS; Red, Amber	PC / ABS; White, Amber	
Description	LED Stop / Tail light; Reversing	LED Stop / Tail light; LED DI	LED Reversing light; LED DI	
Approvals	FMVSS 108 SAE / FMVSS 108 DOT			



Size:280X100X3	80X100X33mm Voltage:12V or 24V		/
LED Color			
Model	E-SQ100×3-RAW		
Material/Colour	our PC / ABS; Red, White, Amber		
Description	LED Stop / Tail light; Reversing, DI		LED
Approvals	FMVSS 108 SAE / FMVSS 108 DOT		





Combo High Beam

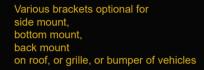
ECE R112 compliant as driving beam pattern. High power LEDs built-in. 5W or 10W LED optional. Long range illumination



Flexible Mount

Anti-UV PC lens Lens surface hardened Ideal for off roads, trucks, etc Sports style designed for tough







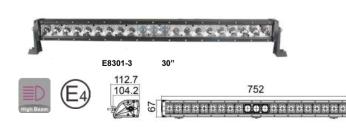


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CLASSIC LED LIGHT BAR







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Plane energy distribution of E8301 series.

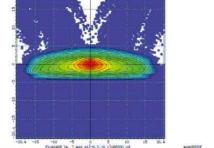
LEDs	9pcs
LED Power:	45W / 90W
Raw Lumen:	2700LM
Color Temp:	5000-6500K
EMC Grade:	CISPR 25 Class 3
Housing:	Aluminum
IP Rate:	IP67, IP6K9K
Life Time:	>30,000H

13"

Length:

21" Lenath LEDs 15pcs LED Power: 75W / 150W Raw Lumen: 6750LM 5000-6500K Color Temp: CISPR 25 Class 3 EMC Grade: Housing: Aluminum IP67. IP6K9K IP Rate: >30,000H Life Time:

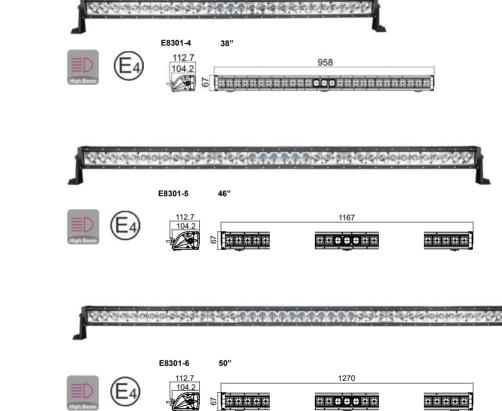
Lenath 30" LEDs 21pcs LED Power: 105W / 210W Raw Lumen: 9450LM 5000-6500K Color Temp: CISPR 25 Class 3 EMC Grade: Housing: Aluminum IP67, IP6K9K IP Rate: >30.000H Life Time:





Road illumination E8301-2





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Length:	38"
LEDs	27pcs
LED Power:	135W / 270W
Raw Lumen:	12150LM
Color Temp:	5000-6500K
EMC Grade:	CISPR 25 Class 3
Housing:	Aluminum
IP Rate:	IP67, IP6K9K
Life Time:	>30,000H

Length:	46"
LEDs	33pcs
LED Power:	165W / 330W
Raw Lumen:	14850LM
Color Temp:	5000-6500K
EMC Grade:	CISPR 25 Class 3
Housing:	Aluminum
IP Rate:	IP67, IP6K9K
Life Time:	>30,000H

Length:	50"
LEDs	36pcs
LED Power:	180W / 360W
Raw Lumen:	16200LM
Color Temp:	5000-6500K
EMC Grade:	CISPR 25 Class 3
Housing:	Aluminum
IP Rate:	IP67, IP6K9K
Life Time:	>30,000H

CLASSIC LED LIGHT BAR





	Model:	ET-XXX-2x3W-LM		
	Functions, Homologation		Mechanical Features	
	Beam Pattern:	High Beam (DOT)	Sizes:	See the Table Below
	Approvals:	SAE J581	Housing Material:	Aluminium Extrusion
	Optical & Electric Features		Lens Material:	Anti-UV PC
	LED Type:	3W LED(s)	PC Brand:	COVESTRO 2407
	Lumen:	See the table below	Bracket Material:	201 or 304 Stainless Steel
	Power:	See the table below	IP Rate:	IP67, IP6K9K
	Color Temp:	5000~6500K	Work Temp:	-40~+50°C
	Electromagnetic Fea	atures	So this is Life	
	EMC Grade:	ECE R10	Life Time:	>30,000h
	Operating Voltage:	10V~30V	I	
	Decoder:	PWM		

CLASSIC LED LIGHT BAR

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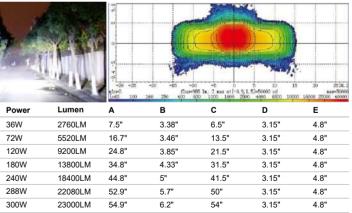
Model:	I: ET-XXX-2		
Functions, Homologa	tion		
Beam Pattern:	High Bean		
Approvals:	SAE J581		
Optical & Electric Fea	atures		
LED Type:	3W LED(s		
Lumen:	See the ta		
Power:	See the ta		
Color Temp:	5000~650		
Electromagnetic Feat	ures		
EMC Grade:	ECE R10		
Operating Voltage:	10V~30V		
Decoder:	PWM		

				201			1.53-5000 cd	5 20 2524.2 5 20 30250000000000000000000000000000000
Part Number	LEDs	Power	Lumen	Α	в	с	D	E
ET-36W-2x3W-LM	12pcs	36W	2760LM	3"	3.38"	7.5"	4.8"	1"
ET-72W-2x3W-LM	24pcs	72W	5520LM	3"	3.38"	13.5"	4.8"	1"
ET-120W-2x3W-LM	40pcs	120W	9200LM	3"	3.38"	21.5"	4.8"	1"
ET-180W-2x3W-LM	60pcs	180W	13800LM	3"	3.38"	31.5"	4.8"	1"
ET-240W-2x3W-LM	80pcs	240W	18400LM	3"	3.38"	41.5"	4.8"	1"
ET-288W-2x3W-LM	96pcs	288W	22080LM	3"	3.38"	50"	4.8"	1"
ET-300W-2x3W-LM	100pcs	300W	23000LM	3"	3.38"	54"	4.8"	1"



(XX-2x3W-CL

	Mechanical Features	;
eam (DOT)	Sizes:	See the Table Below
581	Housing Material:	Aluminium Extrusion
	Lens Material:	Anti-UV PC
D(s)	PC Brand:	COVESTRO 2407
e table below	Bracket Material:	201 or 304 Stainless Steel
e table below	IP Rate:	IP67, IP6K9K
6500K	Work Temp:	-40~+50°C
	So this is Life	
10	Life Time:	>30,000h



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