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LD10235 with E1 LED Light Engine

High Power Floor or Ceiling Mounted Spotlight

LD10235 is a high power floor or ceiling mounted spotlight. It has been designed for applications where a recessed fitting cannot be installed, and a surface mounted solution is required. The LD10235 features a deep recessed E1 LED engine, optional glare shields and a range of optics. The LD10235 has been designed specifically to produce low glare illumination to walls and columns. This is a very tough, high quality fitting, machined from high grade materials ensuring excellent thermal and light output performance. Ideal for interior and exterior applications, incorporating an integral anti-wicking barrier for added protection. The LD10235 is available with a choice of switched; 0-10V, DMX, Dali or Mains dimmable remote drivers.

Key Features

- E1 engine, featuring the CREE XHP35 LED with 2-step binning
- Optional 2nd channel LEDs for secondary lighting applications
- Range of beam angles, featuring an impressively narrow 10° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- Single optic produces a very consistent beam with no multiple shadows
- LED and lens recessed in a matt black anodised body for reduced glare
- Optional glare shield accessories available
- Minimal aesthetic enabling it to fit into most project styles
- Body machined from a solid billet of aluminium
- Range of finishes available

Specification

Applications

- Built-in reverse polarity protection
- LD10235 is available with RGBW and Tunable White LED engines

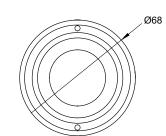


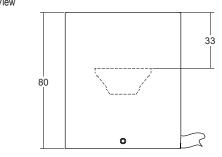
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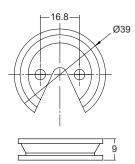
Dimensions

Top View





Mounting plate





	\sim	\sim	\smile			
Beam Angles	10°, 19°, 34°, 54°, 15°x 49°					
LED type	1 x E1 LED Engine with 2-step binning (LED data below)					
Colour temperature	2700K** / 3000K / 4000K				5000K	
Current	350mA	500mA	700mA	350mA	500mA	700mA
LED power (Max)	5W	7W	10W	5W	7W	10W
	(4.4W)*	(6.3W)*	(9W)*	(4.4W)*	(6.4W)**	(9W)*
CRI (Typical)	85	85	85	80	80	80
Forward voltage (V)100	14V	14V	14V	14V	14V	14V
Delivered lumens (L100)***	347	437	555	374	472	599
Lumens per circuit watt	69	62	55	75	67	59
LED lifetime (to 70% lumen maintenance)	50,000hrs at a max ambient temperature of 35°C (if higher ambient then run at 500mA up to 45°C)					
Glass	3mm thick low iron glass					
Materials	Machined and anodized aluminium body, with a black anodised bezel					
Wiring	Comes pre-wired with a 1m lead, can be specified with up to 10m at extra cost					
IP rating	IP67					

*indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

**2700K lumen output is 8% lower than the 3000K figure listed

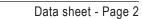
***lumen output indicated is without the glare shield. Allow 30% less with the /GS glare shield.

Side View

LD10235 with E1 LED Light Engine



High Power Floor or Ceiling Mounted Spotlight



Glare Shields

LD10235 comes with a choice of glare control options to further reduce glare from the LED and optic. This does not reduce the light on the lit surface (wall) but will cut out some light onto the ceiling or floor.





/NGS No glare shield. Deep recessed optic and matt black anodised optic holder aids in glare reduction.

/GS Standard glare shield provides an excellent balance between glare control and light output. This accessory works well in most applications.



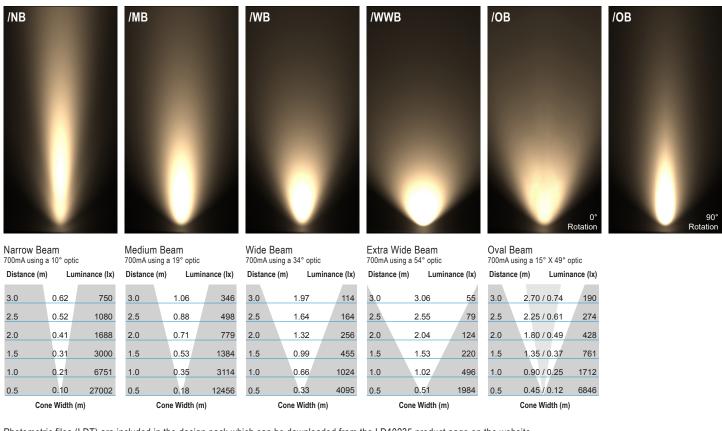
/GSHM

Half-moon glare shield for applications that require very low glare. Minimal loss of light on lit surface (wall) but overall lumen output typically reduced by 50-60%.

Please refer to our photometric files for lumen data. These are available to download from the website.

Cone Diagrams

Cone diagrams below are based on a 3000K E1 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface.



Photometric files (LDT) are included in the design pack which can be downloaded from the LD10235 product page on the website.



LD10235 with E1 LED Light Engine

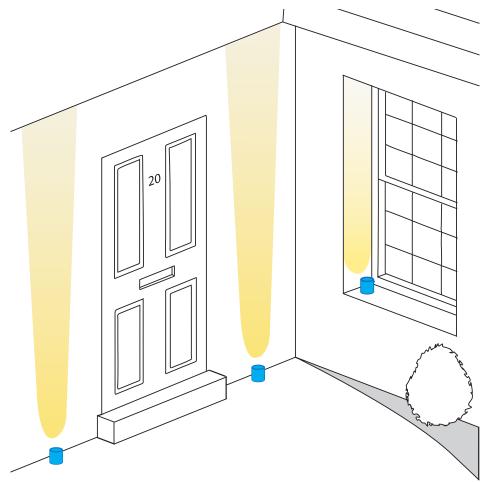


High Power Floor or Ceiling Mounted Spotlight

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Applications

LD10235 is incredibly versatile, allowing it to be used in a variety of applications from lighting window reveals to wall and floor washing.

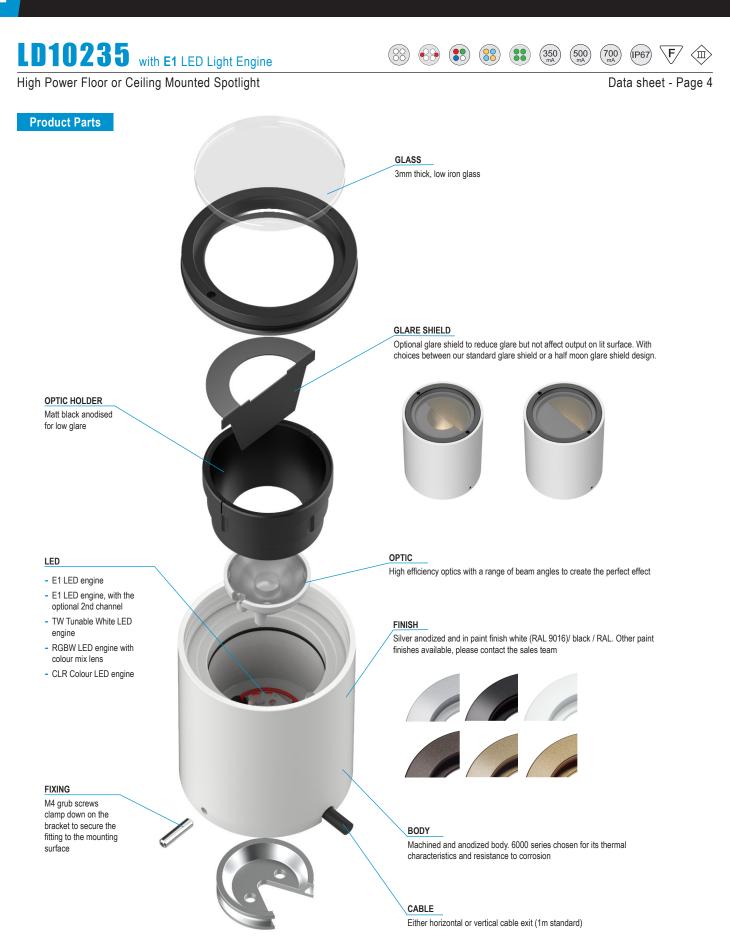


Finish Options

A range of finishes are available, as shown below. Silver anodized and painted finishes are suitable for both interior and exterior applications. However for harsh environments, anodizing is harder wearing. Please refer to our finishes guide for more information.









LD10235 with E1 LED Light Engine



High Power Floor or Ceiling Mounted Spotlight

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LED Options and Technology

LED Options

LD10235 is now available with a choice of light engines which feature an all copper board for increased thermal transfer. The E1 light engine for white light applications uses the Cree XHP35 LED and features on board polarity protection. This smaller LED chip has enabled a wider range of beam angles to be offered, coupled with increased efficiencies. This engine is also available with two extra LEDs on a second channel, for night lighting and marine navigation applications. The new tunable white engine offers a choice of dynamic colour options.

	E1 Light Engine	E1-2CH 2nd	63	CLR - Col	our 🕃	TW - Tunable V	Vhite 🛞	RGBW
LED Board	(White light)	channel board)	Q				
LED type	Cree XHP35	Cree XHP35 + XQEs	(Cree XQEs		Cree XQEs		Cree XML
Key Features	 Available in 2700K, 3000K, 4000K and 5000K Very small chip size Tighter narrow beams Wider range of beam angles 2 step binning Brighter more efficient LED On board polarity protection All copper LED board for increased thermal transfer 	Main white LED with opt 2nd channel for night light or marine navigation appli- cations - 2nd channel comprises of XQE LEDs mounted next the XHP35 - Beam shape from the XH is different from the main as they are mounted to th sides of the optic - 2 driver circuits required - All copper LED board	ting u li of 2 c t to - QE's LED ne	under a singl - All copper L	ED board Green and Amber options	 4 XQE LEDs mour a single optic 2 LEDs per colour Excellent dynamic mixing from a range All copper LED bo 2 driver circuits real 	white of optics ard	RGBW LEDs mounted under a single 26deg optic for superb colour mixing White LED is 4000K All copper LED board 4 LED circuits required
Cables		CH 1	сн 2			CH 1	CH 2	CH 1 CH 3
Lumen output	See page 1	See page 1				See table below		
2nd Chann /MB	el Light Output						Thern High qu	try Leading LED nal Management Jality, embedded copper PCB,
		Funable white lumen outpu Colour temperature	Warm V	m White Cool White OK or 3000K 4000K or 5000K		providing industry		ent of the LED. Guaranteeing long
Fitting 2 / MB	Im from surface	Current LED power (Max) All channels in use CRI (Min)	85	6.3W) per channel		_		
		Delivered lumens (L100) Lumens per circuit watt	148lm 42		188lm 54			



Wall wash

Creative Lighting Solutions

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LD10235 with E1 LED Light Engine

High Power Floor or Ceiling Mounted Spotlight

Order Codes and Options

White LED Options - E1 Light Engine (88)

Product code	LED colour	Beam angle	Glare shield	Finish	
LD10235-E1 - 350 - 500 - 700	E1-350 / I W30		/ /		
Example: LD10235-E1-350 / LW30 / NB / NGS / White Product codes with output options					

5W LED at 350mA LD10235-E1-350 7W LED at 500mA LD10235-E1-500 10W LED at 700mA LD10235-E1-700 LED colour options Suffix Extra Warm White (2700K) /LW27

· · · · ·	
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50
With 2nd channel (red for navigation or amber night lighting) LD10235-E1-2CH	/LW**+L*
For other single colour options, please discuss with the sales team	

Beam / lens angle options

10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB
Glare shield	
Glare shield No glare shield	/NGS
	/NGS /GS
No glare shield	

Body finish options

Silver Anodised

Paint finish white/ black / RAL

For marine environments specify powder coat

Use with 350mA, 500mA & 700mA constant current LED drivers

We have a wide range of dimmable LED drivers, 0-10V, DMX, DALI and Mains dimmable. Please see the downloads section on our website: To run 1-4 LD10235-E1-350 in series use a TXDEL350D (0-10V dimmable)

To run 1-4 LD10235-E1-500 in series use a TXDEL500D (0-10V dimmable) To run 1-3 LD10235-E1-700 in series use a TXDEL700D (0-10V dimmable)

Colour LED Options - CLR Light Engine

Example: LD10235-CLR-500 / LR / MB / NGS / White / 484N	
LED colour options (max 500mA)	Suffix
Red	/LR
Green	/LB
Blue	/LG
Amber	/LA
Driver requirements identical to E1 engine, beam angles identical to TW engine	

Tunchia White Ontions TW/ Light Engine

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Tunable White Options - TW Light Engine	88)
Product code LED colour Beam angle LD10235-TW - 350 / </th <th>Glare Finish shield</th>	Glare Finish shield
Product codes with output options 5W LED at 350mA - 2 channels of 2 x 1.2W	LD10235-TW-350
7W LED at 500mA - 2 channels of 2 x 1.2W	LD10235-TW-350
	LD10235-144-350
LED colour options	Suffix
Tunable White 2700K & 4000K (standard option)	/LW27 + LW40
Tunable White 2700K & 5000K	/LW27 + LW50
Custom	/LW** + LW**
Fitting comprised of 2x LEDs in one colour temperature & 2x LED Other white colour options available on request, please discuss v	
Beam / lens angle options	
Narrow spot not available due to poor colour mixing	
24° medium	/MB
38° wide	/WB
54° extra wide	/WWB
20° x 46° oval	/OB
Beam, and Glare shield options	
Same as White LED options using the E1 Light Engine	
Finish options	
Same as White LED options using the E1 Light Engine	
Use with 350mA & 500mA constant current LED drive	
We have a wide range of dimmable LED drivers, 0-10V, DMX, D	ALI and Mains dimmable.
Please see the downloads section on our website: To run 1-7 LD10235-TW-350 in series use 2x TXDEL350D (0-10'	V dimmable)
To run 1-7 LD10235-TW-500 in series use 2x TXDEL500D (0-10	
Colour Change RGBW Options - RGBW Ligh	nt Engine 😮
Product code Glare Finish	Accessories
LD10235-RGBW - 350 / /	
Example: LD10235-RGBW-500 / White / NGS / 484N	

Product codes with output options

LD10235-RGBW-350
LD10235-RGBW-500

Use with 350mA & 500mA constant current LED drivers

We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website:

To run 2-13 LD10235-RGBW-350 in series use a TXDEL4A350DMX or TXDEL4A350DALI To run 2-13 LD10235-RGBW-500 in series use a TXDEL4A500DMX or TXDEL4A500DALI

