www.lightgraphix.co.uk

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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
- Surface mounted version of the LD151/LD150
- 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
- Built-in reverse polarity protection

Specification

Applications

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	2700K** / 3000K / 4000K			5000K		
Current	350mA	500mA	700mA	350mA	500mA	700mA	
LED power (Max)	5W (4.4W)*	7W (6.3W)*	10W (9W)*	5W (4.4W)*	7W (6.4W)**	10W (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)			ambient ter en run at 5	•			
Glass	3mm thio	ck low iron	glass				
Materials	rials Machined and anodized alumi anodised bezel			nium body, with a black			
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

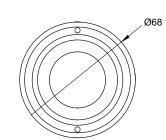
2700K lumen output is 8% lower than the 3000K figure listed *lumen output indicated is without the glare shield. Allow 30% less with the /GS glare shield.

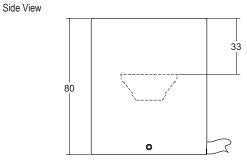
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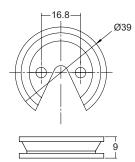
Dimensions

Top View





Mounting plate

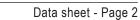




LD10235 with E1 LED Light Engine



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.



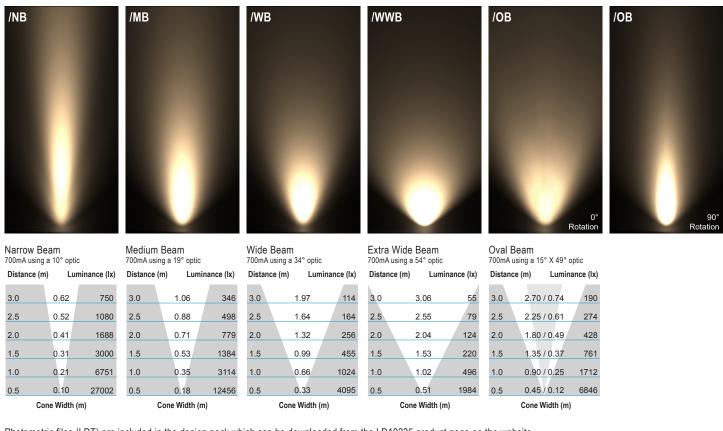
/GSHM

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

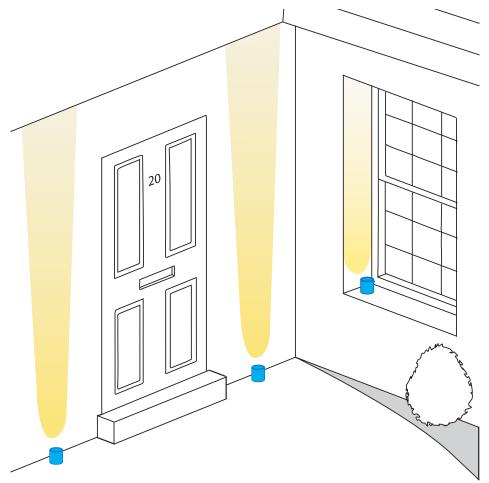


High Power Floor or Ceiling Mounted Spotlight

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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.

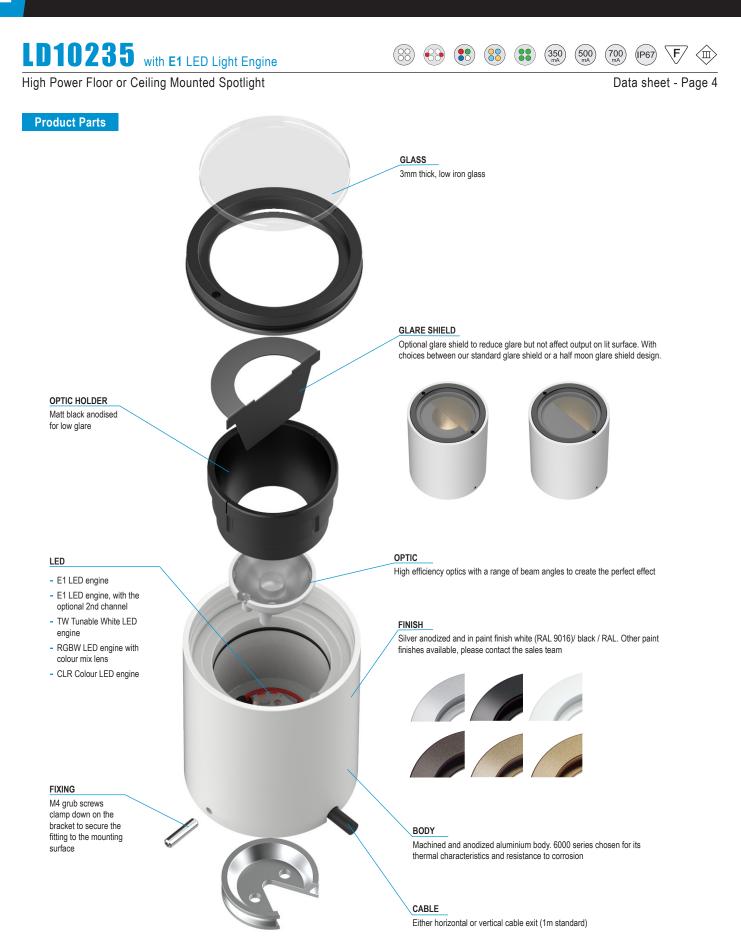


Finish Options

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.







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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.

I	E1 Light Engine	E1-2CH 2nd							
	(White light)	channel board		CLR - Col	our 🕃	TW -	Tunable White		RGBW
LED Board)	Q	*			.)	Jan Start O
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 ligh or marine navigation appl cations 2nd channel comprises 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 	Iting L II of 2 c t to - QE's LED he	under a singl - All copper L	ED board Green and Amber ptions	a sing - 2 LE - Exce mixing - All c	QE LEDs mounted ur le optic Ds per colour ellent dynamic white from a range of opt opper LED board ver circuits required		 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			C		CH 2	CH 1 CH 3
Lumen output	See page 1	See page 1				See ta	able below		
2nd Chann	el Light Output		Г					ndue	try Leading LED
/MB									nal Management
									ality, embedded copper PCB,
Fitting 2m from surface		Tunable white lumen output data Colour temperature Warm 2700k						ith dire roviding	ct contact cooling for the LEDs industry leading thermal
				White or 3000K	Cool White 4000K or 5000K		m	managment of the LED. Guarant life and minimal colour shift.	
		LED power (Max) 7 VV (6		(6.3W) / per channel				\frown	
					54				

Wall wash

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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					
Example: LD10235-	E1-350 / LW30	/ NB / NGS / V	Vhite		
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
LED colour options Extra Warm White (2700K)	/LW27
· · · · · · · · · · · · · · · · · · ·	

warm white (3000K)	/LVV30
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

_ call , ione angle opnone	
10° narrow spot	/NB
19° medium	/MB
34° wide	/WB
54° extra wide	/WWB
15° x 49° oval	/OB
Glare shield	
No glare shield	/NGS
Standard glare shield	/GS
Half-moon glare shield	/GSHM

Body finish options

Silver anodised

Paint finish black / white (RAL 9016) / antique bronze / satin antique brass / satin brass / RAL finish

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			

Tunable White Options - TW Light Engine

Tullable white Options - Tw Light Engine	<u> </u>
	Glare Finish shield
	S / White
Example. ED 10233-1W-3307 EW27 + EW407 NB7 NG	
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 1.7W	LD10235-TW-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 LEDs Other white colour options available on request, please discuss wit	
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 driver	e
We have a wide range of dimmable LED drivers, 0-10V, DMX, DAL Please see the downloads section on our website: To run 1-7 LD10235-TW-350 in series use 2x TXDEL350D (0-10V To run 1-7 LD10235-TW-500 in series use 2x TXDEL500D (0-10V	I and Mains dimmable.
Colour Change RGBW Options - RGBW Light	Engine
Product code Glare Finish shield	Accessories
LD10235-RGBW - 350 / /	
Example: LD10235-RGBW-500 / White / NGS / 484N	
Product codes with output options	
5W LED at 350mA (4x 1.2W LEDs)	LD10235-RGBW-350
7W LED at 500mA (4x 1.7W LEDs)	LD10235-RGBW-500

(350

(500

RGBW features a 4000K white LED for creating hues

Beam / lens angle options

38° colour mix lens

Glare shield and finish options

Same as White LED options using the E1 Light Engine

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

