

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 LI	ED Engine	with 2-ste	p 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 (L ₁₀₀)***	347	437	555	374	472	599
Lumens per circuit watt	69	62	55	75	67	59

LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C lumen maintenance) (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















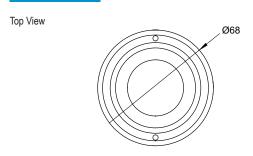


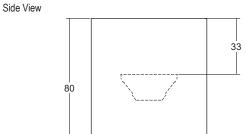


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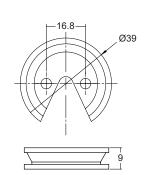


Dimensions





Mounting plate





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

^{**2700}K 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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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.



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



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



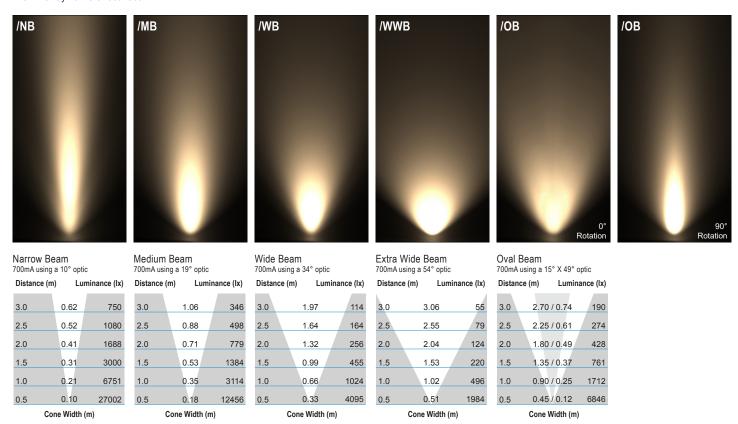
/GSHM

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.



















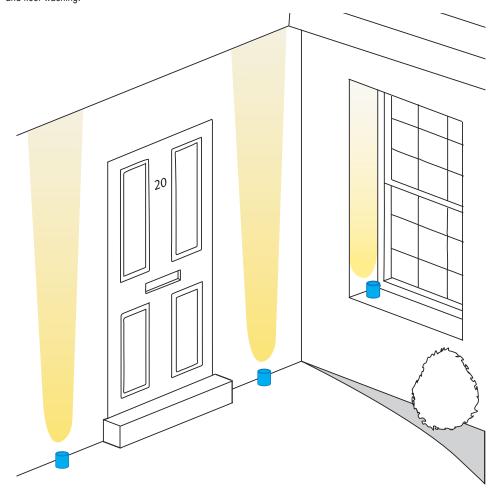


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Applications

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.

Paint Finish Silver Anodized **Paint Finish Black**

Paint Finish White

Paint Finish Antique Bronze Paint Finish **Satin Antique** Brass

Paint Finish Satin Brass































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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.

	E1 Light Engine (White light)	E1-2CH 2nd channel board	CLR - Colour	TW - Tunable White	RGBW
LED Board					THE STATE OF THE S
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 optional 2nd channel for night lighting or marine navigation applications - 2nd channel comprises of 2 XQE LEDs mounted next to the XHP35 - Beam shape from the XQE's is different from the main LED as they are mounted to the sides of the optic - 2 driver circuits required - All copper LED board	- 4 colour XQE LEDs mounted under a single optic - All copper LED board - Red, Blue, Green and Amber colour LED options - Single LED circuit	- 4 XQE LEDs mounted under a single optic - 2 LEDs per colour - Excellent dynamic white mixing from a range of optics - All copper LED board - 2 driver 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 CH 2	⊕~⊖	CH 1 CH 2	CH1 CH3
					CH 2 CH 4
Lumen output	See page 1	See page 1		See table below	

2nd Channel Light Output



Tunable white lumen output data				
Colour temperature	Warm White 2700K or 3000K	Cool White 4000K or 5000K		
Current	500mA	500mA		
LED power (Max) All channels in use	7W (6.3W) 3.5W per channel			
CRI (Min)	85			
Delivered lumens (L ₁₀₀)	148lm	188lm		
Lumens per circuit watt	42	54		

Industry Leading LED Thermal Management

High quality, embedded copper PCB, with direct contact cooling for the LEDs providing industry leading thermal managment of the LED. Guaranteeing long life and minimal colour shift.







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Order Codes and Options

White LED Options - E1 Light Engine





Product code LED Beam Glare colour angle shield	Finish
LD10235-E1 - 350 - 500	
- 700	
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-E1-20	CH /LW**+L*
*Other LED colour temperatures are available. Please speak to a member of our 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	
No glare shield	/NGS
Standard glare shield	/GS
Half-moon glare shield	/GSHM
Body finish options	
Paint finish silver anodised / black / white (RAL 9016) / antique bronze / satin satin brass / RAL finish	n antique brass /
Use with 350mA, 500mA & 700mA constant current LED driver	'S
We have a wide range of dimmable LED drivers, 0-10V, DMX, DALI and Mai 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)	ns 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



Product code	LED colour	Beam angle	Glare shield	Finish
LD10235-TW - 350		an igira		
-500] '		7 . I \\//\0 / \\	DINCCIMbita	
Example: LD10235-T	VV-350 / LVV2	/ + LVV4U / N	B / NGS / White	
Product codes with o	utput options			
5W LED at 350mA - 2 cha	nnels of 2 x 1.2V	V	l	_D10235-TW-350
7W LED at 500mA - 2 cha	nnels of 2 x 1.7V	V	ı	_D10235-TW-350
LED colour options				Suffix
Tunable White 2700K & 40	000K (standard o	ption)		/LW27 + LW40
Tunable White 2700K & 50	000K			/LW27 + LW50
Custom				/LW** + LW**
Fitting comprised of 2x LEDs in one colour temperature & 2x LEDs in another. Other white colour options available on request, please discuss with our sales team.				
Beam / lens angle opt	ions			
Narrow spot not available	due to poor colo	ur 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 option	ns using the E1 l	ight Engine		
Use with 350mA & 500mA constant current LED drivers				
We have a wide range of or Please see the downloads To run 1-7 LD10235-TW-3 To run 1-7 LD10235-TW-5	section on our v 50 in series use	vebsite: 2x TXDEL350D	(0-10V dimmable)	s dimmable.

Colour Change RGRW Ontions - RGRW Light Engine



Colour Change RG	BW Options - R	GBW Light En	gine (a)	
Product code LD10235-RGBW - 350	Glare shield	Finish NGS / 484N	Accessories	
Product codes with ou	tput options			
5W LED at 350mA (4x 1.2)	V LEDs)		LD10235-RGBW-350	
7W LED at 500mA (4x 1.7W LEDs) LD10235-RGBW-5				
RGBW features a 4000K w Beam / lens angle opti	· ·	es		
38° colour mix lens Glare shield and finish				
Same as White LED options using the E1 Light Engine				
Use with 350mA & 500mA constant current LED drivers				
We have a range of dimma downloads section on our v To run 2-13 LD10235-RGB To run 2-13 LD10235-RGB	vebsite: W-350 in series use a T	XDEL4A350DMX or	TXDEL4A350DALI	

