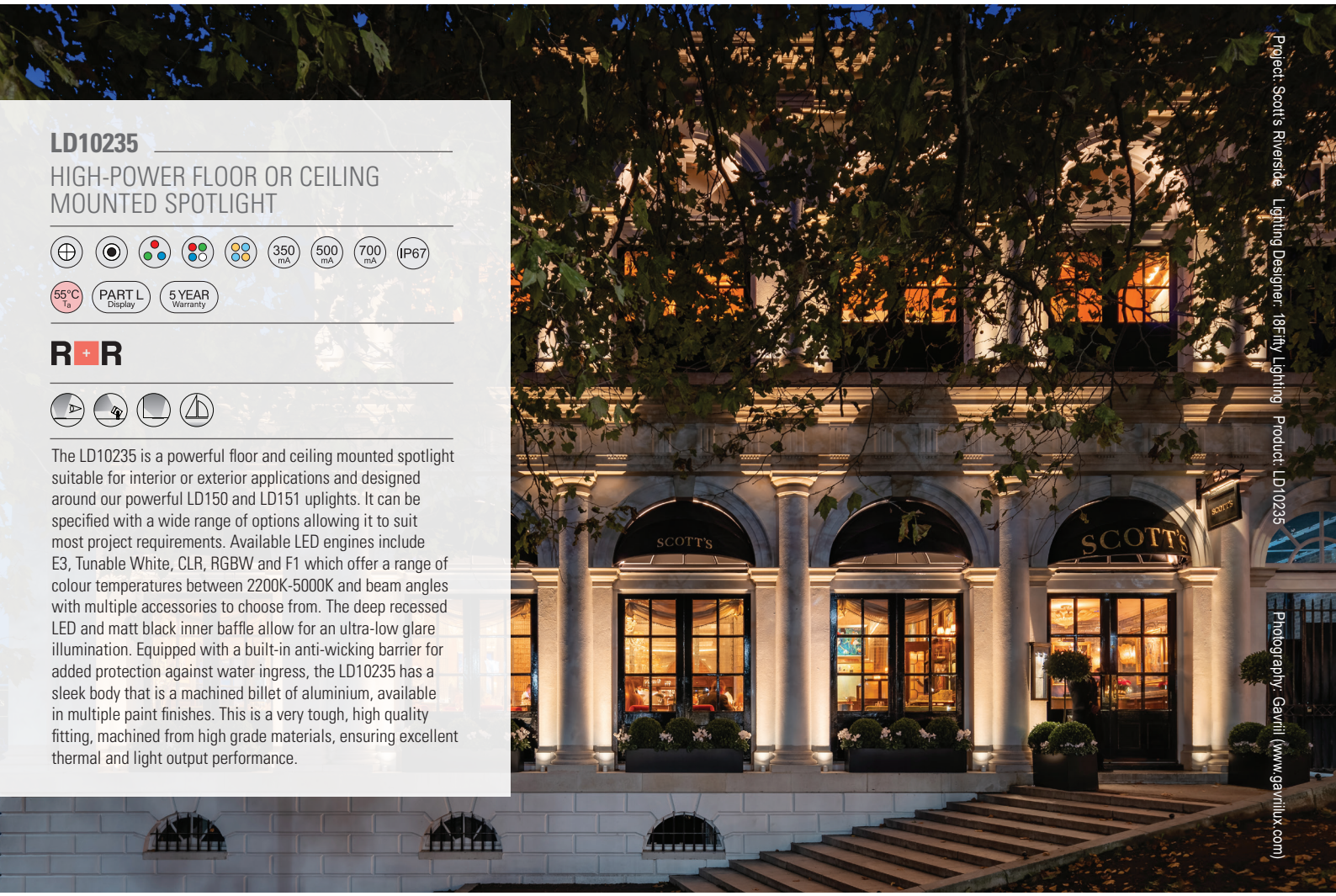


LD10235

HIGH-POWER FLOOR OR CEILING MOUNTED SPOTLIGHT

350 mA | 500 mA | 700 mA | IP67 | 55°C Ta | PART L Display | 5 YEAR Warranty

The LD10235 is a powerful floor and ceiling mounted spotlight suitable for interior or exterior applications and designed around our powerful LD150 and LD151 uplights. It can be specified with a wide range of options allowing it to suit most project requirements. Available LED engines include E3, Tunable White, CLR, RGBW and F1 which offer a range of colour temperatures between 2200K-5000K and beam angles with multiple accessories to choose from. The deep recessed LED and matt black inner baffle allow for an ultra-low glare illumination. Equipped with a built-in anti-wicking barrier for added protection against water ingress, the LD10235 has a sleek body that is a machined billet of aluminium, available in multiple paint finishes. This is a very tough, high quality fitting, machined from high grade materials, ensuring excellent thermal and light output performance.

KEY FEATURES

- E3 engine featuring the NICHIA LED, delivering up to 653 lumens in 3000K with 2-step binning and built-in reverse polarity protection
- Available with F1, CLR, RGBW and Tunable White LED engines and optional 2nd channel LEDs for secondary lighting applications
- Surface mounted version of the LD151 recessed uplight
- Range of beam angles, featuring narrow 12° spot for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- Single light source and 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 for reduced glare
- Body is a machined solid billet of aluminium
- Paint finishes include: White (RAL 9016), Silver, Anthracite Grey (RAL 7016), Black (RAL 9005), Antique Bronze, Satin Antique Brass, Satin Brass or any RAL finish
- Available with Switched, 0-10V, Casambi, DMX, Dali or Mains dimmable drivers

DIMENSIONS

Dimensions in mm

For fitting dimensions please go to page 4.



WHITE LED ENGINE SPECIFICATION

Engine	E3			F1		
Beam angles	12°, 19°, 34°, 54°, 15°x 49°			21°, 35°, 52°, 17° x 48°		
LED manufacturer	NICHIA			CREE		
Colour temperature	2200K, 2700K, 3000K, 4000K, 5000K			2200K, 2700K, 3000K, 4000K, 5000K		
Current [Rated Output]	350mA [5W]	500mA [7W]	700mA [10W]	350mA [3.5W]	500mA [5W]	700mA [7W]
Typical LED Circuit wattage	4.4W	6.4W	9.2W	3.3W	5W	7.2W
Delivered lumens (L_{100})*	379	493	653	227	241	367
Delivered lm/Circuit W**	85	77	71	68	48	51
Typical LED Source wattage	4W	5.8W	8.3W	3W	4.5W	6.5W
Source LED lm	574	740	949	377	497	654
Source lm/W	144	128	114	126	110	101
Forward voltage (V_{100})	11.3V	11.6V	11.8V	8.7V	9V	9.3V
CRI***	85	90***		90		
Colour consistency	2 SDCM			3 SDCM		
Peak intensity	6,104 cd			1,641 cd		
LOR	0.69			0.56		
TM30	RF85 | RG99			RF90 | RG103		
UGR rating ('downlight' mounted) ****	4.5	5.4	6.4	6.5	6.7	8.1
BUG rating ('downlight' mounted)	B1-U1-G0			B1-U1-G0		
BUG rating ('uplight' mounted)	B0-U4-G0			B0-U4-G0		
LED lifetime	L90B5 at 90,000hrs					
Applications						

These values are based around a LD10235-E3-700/830/NB & LD10235-F1-700/922/MSB
*Lumen output data applies to all colour temperatures
**LED wattage includes losses assocaited with using a 90% efficient driver
***90 CRI available in 2700K/3000K only. Approx. 10% lumen drop will occur compared to 85 CRI variants
****UGR values based on room parameters of 4H 8H, C70 W50 F20

MECHANICAL

		350mA	500mA	700mA
Ambient temperature ○ 55°C	E3	-20°C to 55°C	-20°C to 55°C	-20°C to 50°C
	F1	-20°C to 55°C	-20°C to 55°C	-20°C to 50°C
Glass	Low iron glass 3mm thick			
Materials	Anodised aluminium body, with black anodised bezel			
Weight of product	0.55kg			
IP rating	IP67			
IK rating	IK08			
Wiring	In-series constant current wiring (pre-wired with 2 core cable at a length of 1m)			

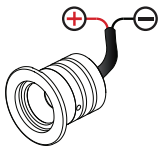
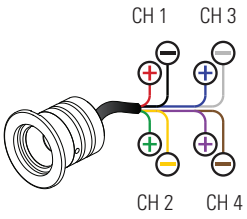
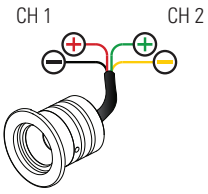
ENVIRONMENTAL

TM65	Available on request
TM66	2.5
Repair + Refurbish	R+R This product is included in our Repair and Refurbish scheme. This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.

COLOUR & DYNAMIC LED ENGINE SPECIFICATION

Engine	CLR - Colour	RGBW		TW - Tunable White	
Beam Angles	24°, 38°, 54°, 20° x 46°	38° colour mix lens		24°, 38°, 54°, 20° x 46°	
LED manufacturer	CREE	CREE		CREE	
Colour temperature	Red, Green, Blue, Amber	Red, Green, Blue, 4000K White		Warm White 2700K or 3000K	Cool White 4000K or 5000K
Current	500mA	350mA	500mA	350mA	500mA
LED power (Max)	7W	5W	7W	6.3W (7W) 3.5W per channel	
Applications					

MECHANICAL

Glass	Low iron glass 3mm thick		
Materials	Anodised aluminium body, with black anodised bezel		
Weight of product	0.55kg		
IP rating	IP67		
IK rating	IK08		
Wiring	**CLR** - 2 core cables at 1m in length 	**RGBW** - 8 core cables at 1m in length 	**TW** - 4 core cables at 1m in length 

AVAILABLE FINISHES

Please refer to our finishes guide for full details

POWDER COAT PAINT FINISHES

Our paint finishes are suitable for interior, exterior, and high-saline environments. All our painted finishes are applied in-house, allowing us to maintain complete control over quality and consistency. This also means we can easily accommodate any RAL colour specification in addition to our standard colour range, offering you full flexibility for custom projects.



MATT BLACK
/PCBLK



MATT WHITE
/PCWHT



ANTIQUE WHITE
/PCAWHT



MATT SILVER
/PCMS



ANTHRACITE GREY
/PCANTGREY



GUNMETAL GREY
/PCGMG



ANTIQUE BRONZE
/PCANTBRZ



EARTH BRONZE
/PCEBRZ



DESERT BRONZE
/PCDBRZ



TEXTURED MARS BRONZE
/PCMARS



TEXTURED FIR GREEN
/PCTFG



WHITE STONE
/PCTWS

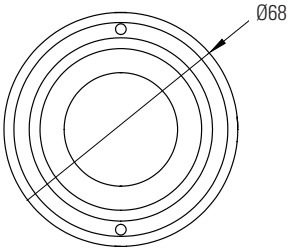


CUSTOM RAL
/CUSTFINISH

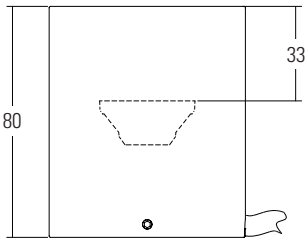
DIMENSIONS

Dimensions in mm

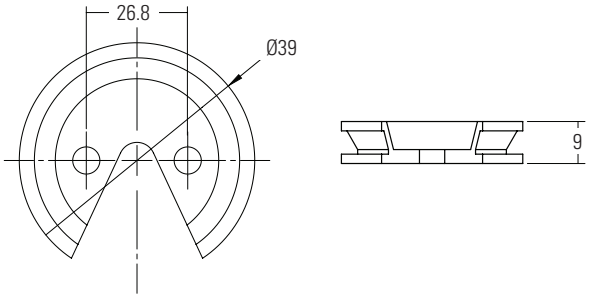
Top view



Side view



Mounting plate



GLARE SHIELD OPTIONS

LD10235 comes with a choice of glare control options to further reduce glare from the powerful LED and optic. This does not reduce the light on the lit surface (wall) but it will cut out some light onto the ceiling or floor. Please refer to our photometric files for lumen data that is available to download from our website.



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



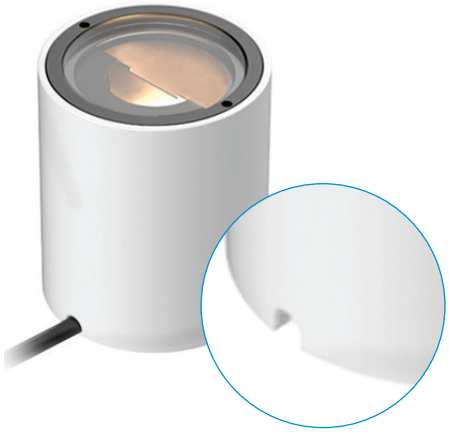
/GS Glare shield
Standard glare shield provides an excellent balance between glare control and light output.This accessory works well in most applications.



/GSHM Half moon glare shield
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%.

CABLE EXIT

The LD10235 features a sleek body with an integrated groove designed specifically for a flush cable exit when mounted. This design ensures a clean and seamless installation, allowing cables to be neatly concealed.

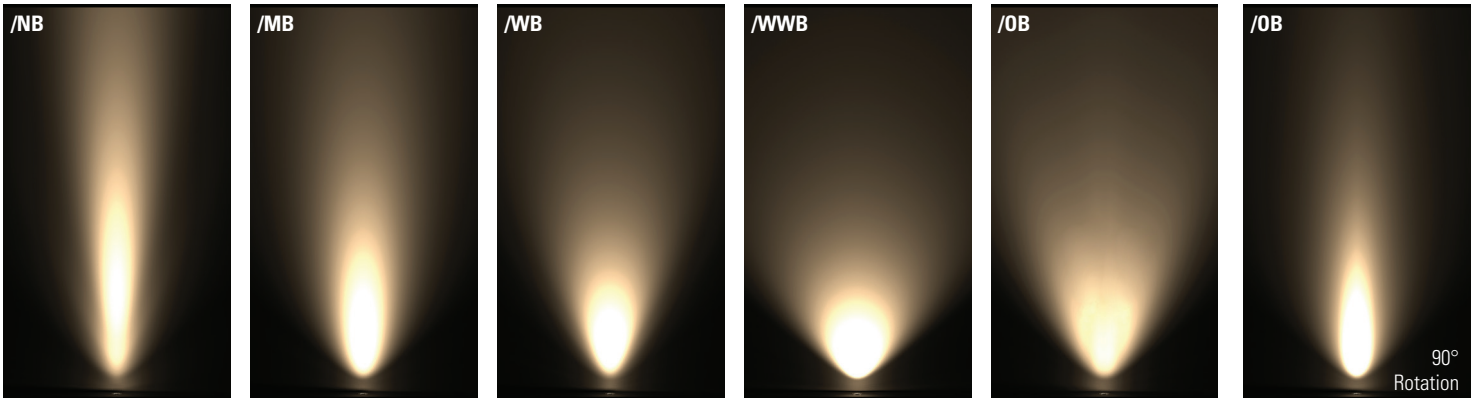




CONE DIAGRAMS

E3 LED Engine

Cone diagrams below are based on a 3000K E3 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.



Narrow Beam
700mA using a 12° optic

Distance (m)	Illuminance (lx)	
3.0	0.76	674
2.5	0.63	970
2.0	0.51	1516
1.5	0.38	2694
1.0	0.25	6062
0.5	0.13	24248

Cone Width (m)

Medium Beam
700mA using a 19° optic

Distance (m)	Illuminance (lx)	
3.0	0.95	434
2.5	0.79	625
2.0	0.63	977
1.5	0.48	1737
1.0	0.32	3909
0.5	0.16	15637

Cone Width (m)

Wide Beam
700mA using a 34° optic

Distance (m)	Illuminance (lx)	
3.0	1.77	160
2.5	1.47	230
2.0	1.18	360
1.5	0.88	639
1.0	0.59	1438
0.5	0.29	5753

Cone Width (m)

Extra Wide Beam
700mA using a 54° optic

Distance (m)	Illuminance (lx)	
3.0	3.24	74
2.5	2.70	107
2.0	2.16	167
1.5	1.62	296
1.0	1.08	667
0.5	0.54	2667

Cone Width (m)

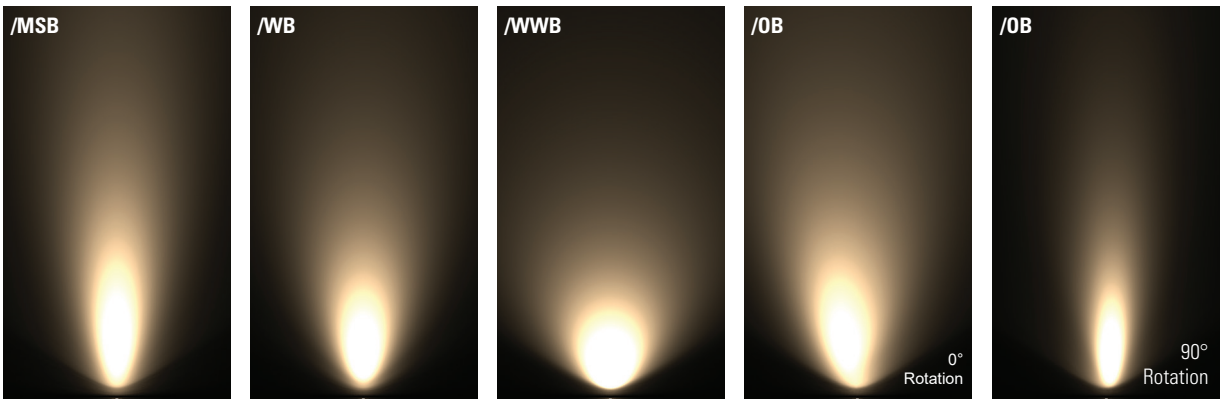
Oval Beam
700mA using a 15° X 49° optic

Distance (m)	Illuminance (lx)	
3.0	2.45 / 0.75	264
2.5	2.04 / 0.62	380
2.0	1.63 / 0.50	593
1.5	1.22 / 0.37	1054
1.0	0.82 / 0.25	2372
0.5	0.41 / 0.12	9489

Cone Width (m)

F1 LED Engine

Cone diagrams below are based on a 3000K F1 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.



Medium Spot Beam
700mA using a 25° optic

Distance (m)	Illuminance (lx)	
3.0	1.17	202
2.5	0.97	290
2.0	0.78	454
1.5	0.58	806
1.0	0.39	1814
0.5	0.19	7256

Cone Width (m)

Wide Beam
700mA using a 46° optic

Distance (m)	Illuminance (lx)	
3.0	2.02	82
2.5	1.68	119
2.0	1.35	185
1.5	1.01	330
1.0	0.67	742
0.5	0.34	2968

Cone Width (m)

Extra Wide Beam
700mA using a 65° optic

Distance (m)	Illuminance (lx)	
3.0	3.85	39
2.5	3.21	56
2.0	2.57	88
1.5	1.93	156
1.0	1.28	351
0.5	0.64	1402

Cone Width (m)

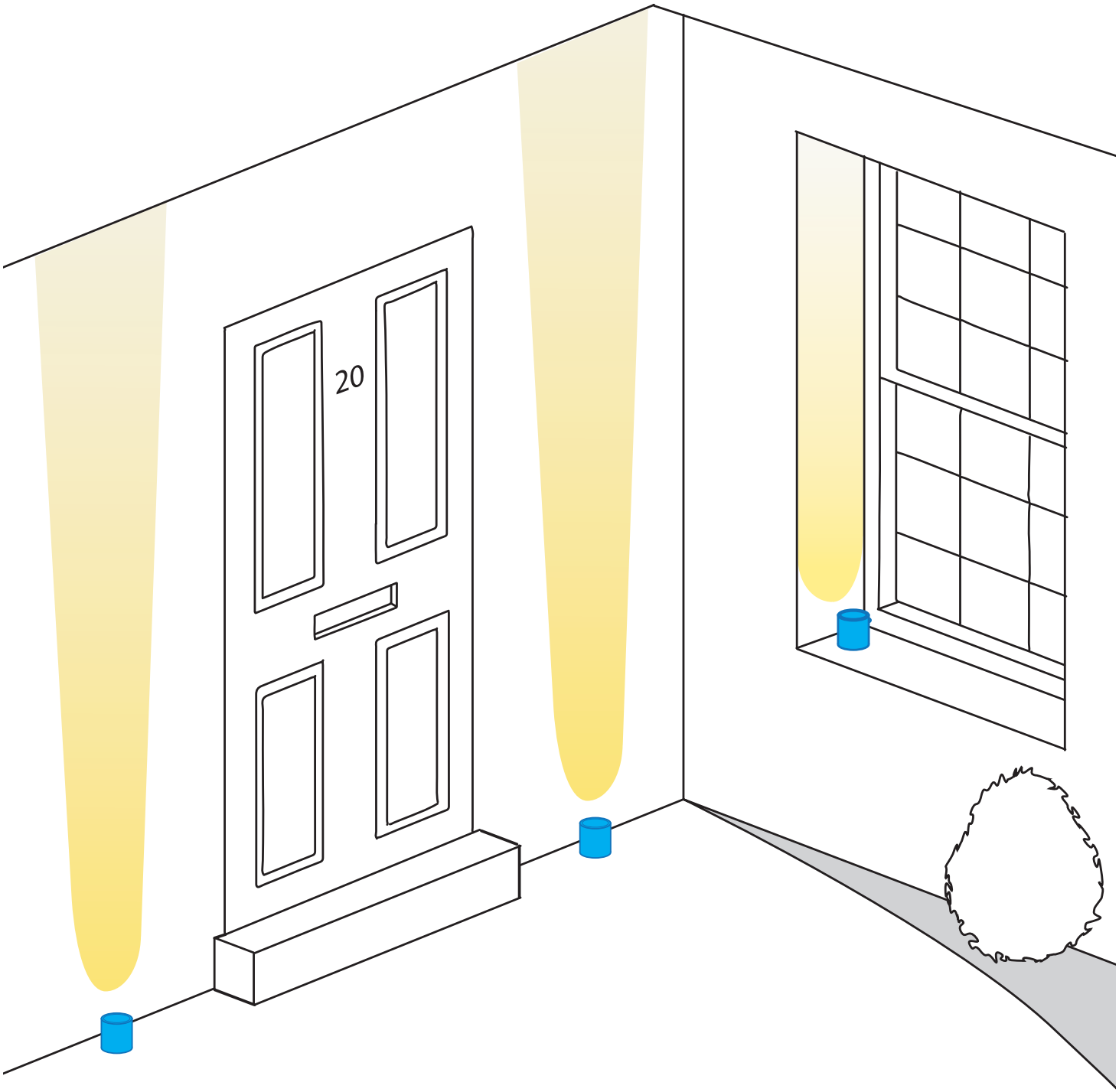
Oval Beam
700mA using a 43 X 25° optic

Distance (m)	Illuminance (lx)	
3.0	2.47 / 0.91	149
2.5	2.06 / 0.76	214
2.0	1.65 / 0.60	335
1.5	1.24 / 0.45	595
1.0	0.82 / 0.30	1339
0.5	0.41 / 0.15	5357

Cone Width (m)

INSTALLATION GUIDE

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



ORDER CODES & OPTIONS

Example: LD10235-E3-350/830/NB/NGS/White

Light engine & drive current		LED colour		Beam angle		Glare shields		Finish
LD10235 -	/		/		/		/	

Ambient temperature key: 55°C

WHITE LED ENGINES

E3

5W LED at 350mA	LD10235-E3-350
7W LED at 500mA	LD10235-E3-500
10W LED at 700mA	LD10235-E3-700

2200K 85+ CRI	/822
2700K 85+ CRI	/827
3000K 85+ CRI	/830
4000K 85+ CRI on request	/840
5000K 85+ CRI	/850
2700K 90+ CRI	/927
3000K 90+ CRI	/930

12° Narrow spot	/NB
18° Medium	/MB
31° Wide	/WB
55° Extra wide	/WWB
14° x 48° Oval	/OB

F1

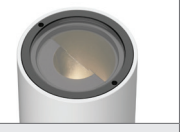
3.5W LED at 350mA	LD10235-F1-350
5W LED at 500mA	LD10235-F1-500
7W LED at 700mA	LD10235-F1-700

2200K 90+ CRI	/922
2700K 90+ CRI	/927
3000K 90+ CRI	/930
4000K 90+ CRI on request	/940
5000K 90+ CRI	/950

21° Medium spot	/MSB
35° Wide	/WB
52° Extra wide	/WWB
17° x 48° Oval	/OB



/NGS



/GS



/GSHM

	Matt Black
	Matt White
	Antique White
	Matt Silver
	Anthracite Grey
	Gun Metal Grey
	Antique Bronze
	Earth Bronze
	Desert Bronze
	Textured Mars Bronze
	Textured Fir Green
	White Stone
	Any RAL

Drivers
Use with 350mA, 500mA & 700mA constant current LED drivers We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website.

ORDER CODES & OPTIONS

Example: LD10235-RGBW-350/38° Colour mix lens/NGS/White

Light engine & drive current		LED colour		Beam angle		Glare shields		Finish
LD10235 -	/		/		/		/	

COLOUR & DYNAMIC LED ENGINES

CLR

7W LED at 500mA	LD10235-CLR-500

Red	/LR
Green	/LG
Blue	/LB
Amber	/LA

24° Medium	/MB
38° Wide	/WB
54° Extra wide	/WWB
20° x 46° Oval	/OB

RGBW

5W LED at 350mA	LD10235-RGBW-350
7W LED at 500mA	LD10235-RGBW-500

38° Colour mix lens

TW

3.5W LED at 350mA	LD10235-TW-350

Tunable White 2700K & 4000K*	/827 + 840
Tunable White 2700K & 5000K	/827 + 850
Custom	/8** + 8**

*Standard option

24° Medium	/MB
38° Wide	/WB
54° Extra wide	/WWB
20° x 46° Oval	/OB



/NGS



/GS



/GSHM

	Matt Black
	Matt White
	Antique White
	Matt Silver
	Anthracite Grey
	Gun Metal Grey
	Antique Bronze
	Earth Bronze
	Desert Bronze
	Textured Mars Bronze
	Textured Fir Green
	White Stone
	Any RAL

Drivers
Use with 350mA, 500mA & 700mA constant current LED drivers We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website.