LD10238

HIGH-POWER SURFACE MOUNTED ADJUSTABLE INTERIOR/EXTERIOR LED SPOTLIGHT























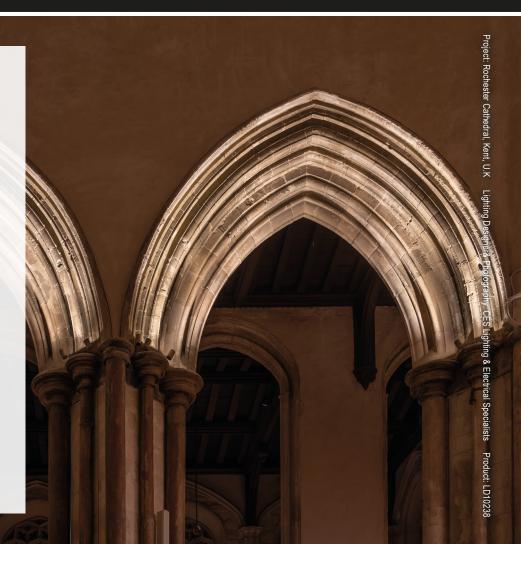








The LD10238 is a compact, high powered surface mounted spotlight, suitable for use in interior or exterior applications. It can be specified with a wide range of options allowing it to suit most project requirements. Available LED engines include E3, Tunable White, CLR, N1 and F1 LEDs offering multiple outputs, excellent CRIs of 90+ (N1 & F1 COBs) and colour temperatures between 2200K-5000K. It has a minimal design and is supplied with an anti-glare cowl as well as a choice of mounting methods, such as a bracket, mount base, tree strap or adjustable ground spike. The use of a matt black inner baffle, recessed LED, single optic and optional honeycomb louvre ensure excellent low glare illumination. With a large selection of paint finishes available and fixing options, the LD10238 can blend discreetly into many environments. This is a very tough, high quality fitting, machined from high grade materials, ensuring excellent thermal and light output performance.



KEY FEATURES

- Compact but powerful fitting, delivering up to 891 lumens at 700mA in 3000K
- E3 engine featuring NICHIA LED, with 2-step binning and built-in reverse polarity protection
- Multiple engine options include N1 & F1 COB LEDs with 90+ CRI and 2200K colour option - Tunable White, CLR and RGBW engine also available
- Machined aluminium fitting, 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
- 90° head tilt adjustment
- Beam angles include, narrow 12° spot for lighting columns and arches, or a 15°x49° spreader lens, ideal for wall washing applications
- Single light source and optic produces a consistent beam removing multiple shadows and includes black trim glass with peak intensity up to 7851
- 47mm recessed LED lens assembly within the body for reduced glare
- Anti-glare cowl included and optional honeycomb louvre for low-glare
- Fixing options include adjustable and non adjustable surface mount, surface mounting base and ground spike



Contains our integral moisture guard (anti-wicking barrier), stopping water ingress from going up the cable into the product from incorrect IP-rated connections

Switched, 0-10V, Casambi, DMX, DALI, or Mains dimmable drivers available

DIMENSIONS

Dimensions in mm

For fitting and accsessory dimensions please go to page 5.











WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3	⊕ E3			O N1			F1		
Beam angles	12°, 19°, 34°	12°, 19°, 34°, 54°, 15°x 49°			25°, 35°, 46°, 65°, 22°x 43°			25°, 46°, 65°, 18°x 45°		
LED manufacturer	NICHIA	NICHIA			CREE			CREE		
Colour temperature	2700K / 3000	2700K / 3000K / 4000K / 5000K			2200K / 2700K / 3000K / 4000K / 5000K			2200K, 2700K, 3000K, 4000K, 5000K		
Current [Rated Output]	350mA [5W]	500mA [7W]	700mA [10W]	350mA [7W]	w] 500mA[10W] 700mA[14W]		350mA [3.5W]	500mA [5W]	700mA [7W]	
Typical LED Circuit wattage	4.4W	6.4W	9.2W	6.4W	9.3W	13.3W	3.3W	5W	7.2W	
Delivered lumens (L ₁₀₀)*	379	493	653	494	677	891	247	323	413	
Delivered Im/Circuit W**	85	77	71	77	73	67	74	65	57	
Typical LED Source wattage	4W	5.8W	8.3W	5.8W	8.4W	12.0W	3W	4.5W	6.5W	
Source LED Im	574	740	949	694	937	1264	377	497	654	
Source Im/W	144	128	114	120	112	105	126	110	101	
Forward voltage (V ₁₀₀)	11.3V	11.6V	11.8V	16.6V	16.8V	17.1V	8.7V	9V	9.3V	
CRI	85	85			93			90		
Colour consistency	2 SCDM	2 SCDM			2 SCDM			3 SCDM		
Peak intensity	6,104 cd	6,104 cd			2,922 cd			1,641 cd		
LOR	0.69	0.69			0.70			0.63		
TM30	RF85 RG99	RF85 RG99			RF91 RF91		RF90 RG103			
UGR rating	UGR unavail	UGR unavailable for asymmetric light distribution								
BUG rating ('downlight' mounted)	B1-U0-G0									
LED lifetime	L90B5 at 90,	L90B5 at 90,000hrs								
Applications										

These values are based on LD10238-E3-700-LW30-NB, LD10238-N1-700-LW30-MSB & LD10238-F1-700-LW22-MSB

Lumen variance by CCT				
2700K	+/- 0%			
4000K	+7%			
5000K	+16%			

MECHANICAL

Ambient temperature	E3 F1	-20° to 50° (350mA-500mA) or -20° to 35° (700mA)				
	N1	-20° to 50° (350mA-500mA) or -20° to 25° (700mA)				
Glass	Low iron gl	Low iron glass 3mm thick				
Materials	Anodised a	Anodised aluminium body, with stainless steel fixing brackets				
Weight of product	0.72kg	0.72kg				
IP rating	IP67	P67				
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	2.6				
Repair + Refurbish	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.				







^{*}See lumen variance table to the right for N1 engine. E3 lumens apply across all colour temperatures

^{**}LED wattage includes losses assocaited with using a 90% efficient driver



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		500mA		
LED power (Max)	7W	5W	7W	7W 3.5W per channel	
Applications					

MECHANICAL

Glass	Low iron glass 3mm thick						
Materials	Anodised aluminium body, with stainless steel fixing brackets						
Weight of product	0.72kg						
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				
		CH 1 CH 3 CH 2 CH 4	CH 1 CH 2				









AVAILABLE FINISHES

Please refer to our finishes guide for full details

The LD10238 body is machined from aluminium and painted in-house at LightGraphix. Paint finishes are suitable for interior and exterior use on surface mounted products. Our standard colours are below but we can accommodate any RAL request.

WET SPRAY



SILVER ANODISED



ANTIQUE BRONZE



SATIN ANTIQUE BRASS



SATIN BRASS











POWDER COAT



TEXTURED MARS BRONZE



GLARE SHIELD & ACCESSORY OPTIONS

the honeycomb louvre can be used for further reducing glare. Please note this is not suitable for use with the 15° x 49° oval beam or RGBW optic due to the quality of the beam.









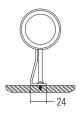


MOUNTING OPTIONS AND DIMENSIONS

Dimensions in mm

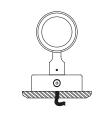
/SAM Surface adjustable mount

Surface adjustable mounting is screwed to the surface via a strong mounting stand which allows for minor rotational adjustment. The fitting tilt adjustment is lockable via the socket head screw located on the side. Weight: 0.05kg







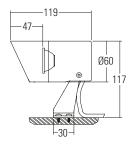


and rotation of the fitting. Weight: 0.14kg

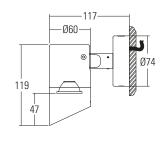
/SMB Surface mount base



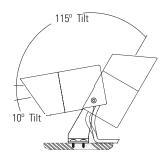
Surface mount base offers hidden wiring and a machined pivot arm with lockable tilt



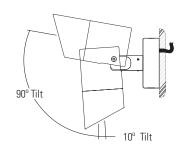






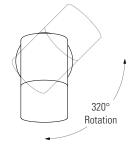




















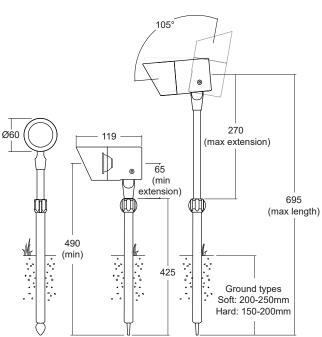
/GSA Adjustable ground spike

Adjustable ground spike with a lockable fitting tilt adjustment, for in-ground applications. Height adjustment of 490mm to 695mm to the centre of the fitting. Weight: 0.18kg

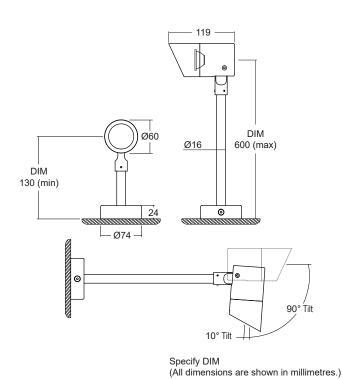
/SMBEX Extended surface adjustable mount

Surface mount base with a lockable fitting tilt adjustment and customisable arm length between 130mm and 600mm to the centre of the fitting. Suitable for vertical and horizontal mounting. Weight: 0.14kg















LightGraphix Creative Lighting Solutions

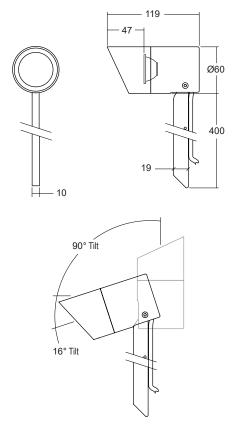
/GS Ground spike
Fixed height 400mm ground spike for in-ground applications. Lockable tilt adjustment. Weight: 0.21kg

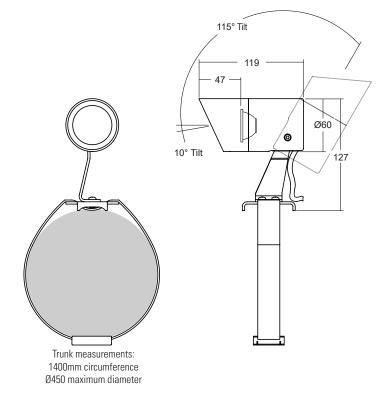


/TS Tree strap

Tree strap/surface mount base with lockable fitting tilt adjustment, has a customisable arm length. It can be specified between 130mm and 600mm to the centre of the fitting. Suitable for vertical and horizontal mounting. Weight: 0.21kg











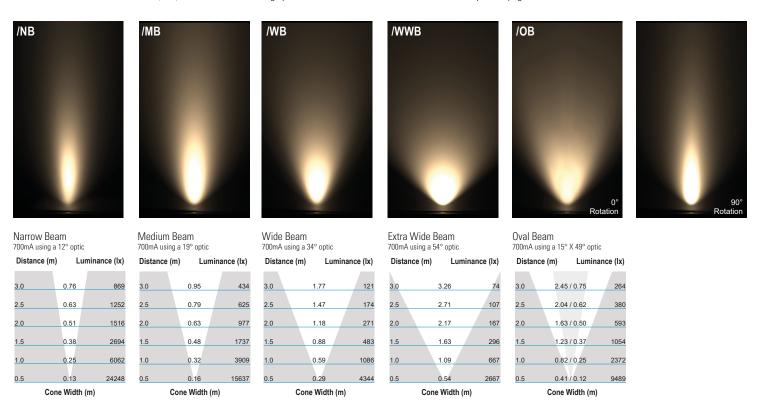




CONE DIAGRAMS

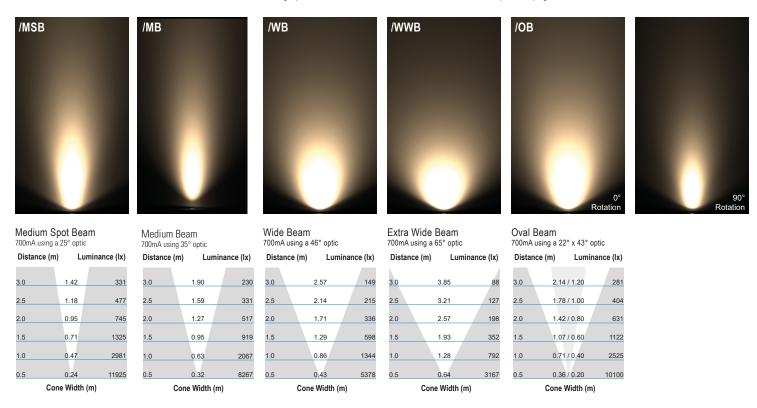
E3 LED Engine

Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 700mA, 10W. Images below represent 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 LD10238 product page on the website.



N1 LED Engine

Cone diagrams below are based on a 3000K N1 LED engine run at maximum output 700mA, 14W. Images below represent 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 LD10238 product page on the website.



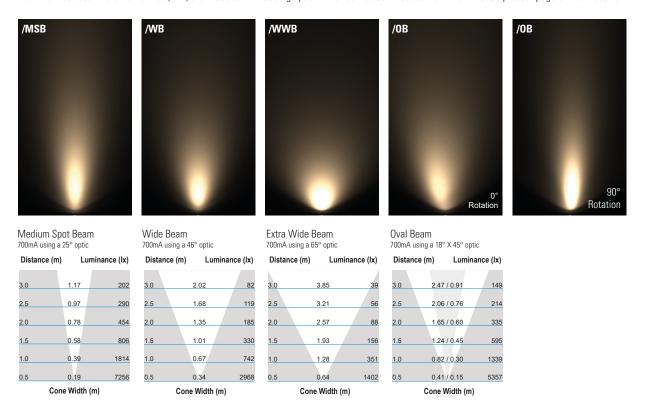






F1 LED Engine

Cone diagrams below are based on a 2200K F1 LED engine run at maximum output 700mA, 7W. Images below represent 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 LD10238 product page on the website.









ORDER CODES & OPTIONS

Example: LD10238-E3-700 / LW30 / NB / Black / SMB / HL

Light engine & drive current	LED colour		Beam ang	e	Finish	Accessories
LD10238 -	/	/		/		/
WHITE LED ENGINES E3						
5W LED at 350mA LD10238-E3-350 7W LED at 500mA LD10238-E3-500 10W LED at 700mA LD10238-E3-700	Warm White (3000K) /L' White (4000K) - on request /L'	W27 W30 W40 W50	12° Narrow spot 19° Medium 34° Wide 54° Extra wide 15° x 49° Oval	/NB /MB /WB /WWB /OB	WET SPRAY Silver anodised	/SAM
N1 7W LED at 350mA LD10238-N1-350 10W LED at 700mA LD10238-N1-500 14W LED at 700mA LD10238-N1-700	Extra Warm White (2700K) /L' Warm White (3000K) /L' White (4000K) - on request /L'	W22 — W27 W30 W40 W50	25° Medium spot 35° Medium 46° Wide 65° Extra wide 22° x 43° Oval	/MSB - /MB /WWB /OB	WET SPRAY Antique Bronze WET SPRAY Satin Antique Brass	/SMB
F1 3.5W LED at 350mA LD10238-F1-350 5W LED at 700mA LD10238-F1-500 7W LED at 700mA LD10238-F1-700	Extra Warm White (2700K) /L' Warm White (3000K) /L' White (4000K) - on request /L' Cool White (5000K) /L'	W22 W27 W30 W40 W50	- 25° Medium spot 46° Wide 65° Extra wide 18° x 45° Oval	/MSB — /WB /WWB /OB	WET SPRAY Satin Brass WET SPRAY Anthracite Grey (RAL 7016)	/GSA
CLR 7W LED at 500mA LD10238-CLR-500	Red // Green //	/LR /LG /LB	24° Medium 38° Wide	/MB -	WET SPRAY Black (RAL 9005)	/GS
RGBW	Amber /	/LA	54° Extra wide 20° x 46° Oval	/WWB	WET SPRAY White (RAL 9016)	/SMBEX (DIM)
5W LED at 350mA LD10238-RGBW-350 7W LED at 500mA LD10238-RGBW-500 TW			38° Colour mix lens		WET SPRAY RAL Colours	/TS
3.5W LED at 350mA LD10238-TW-350	4000K (standard option) + L Tunable White 2700K & 5000K + L	W27 LW40 W27 LW50 W**	24° Medium 38° Wide 54° Extra wide 20° x 46° Oval	/WB /WWB /OB	POWDER COAT Textured Mars Bronze (SX350F)	713
Drivers Use with 350mA, 500mA & 700mA of Use have a range of dimmable LED drivers					POWDER COAT Textured Fir Green (RAL 6009)	/HL (Not suitable for use with /OB or RGBW LED)







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