## LD10238

HIGH-POWER SURFACE MOUNTED ADJUSTABLE INTERIOR/EXTERIOR LED SPOTLIGHT























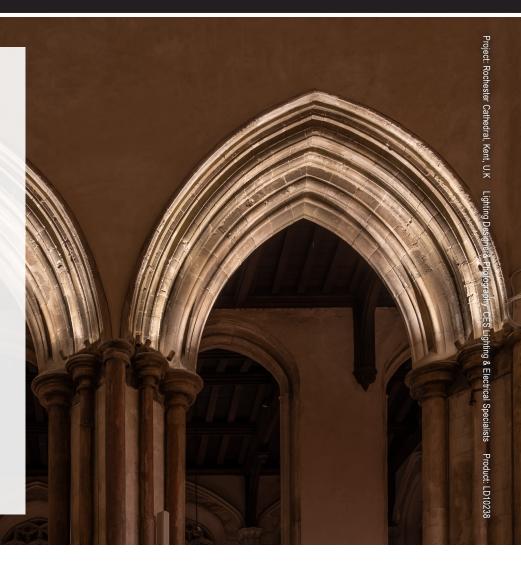








The LD10238 is a compact, high powered surface mounted spotlight, suitable for use in interior or exterior applications. It can be specified with a wide range of options allowing it to suit most project requirements. Available LED engines include E3, Tunable White, CLR, N1 and F1 LEDs offering multiple 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			○ 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]	350mA [5W] 500mA [7W] 700mA [10W]		350mA [7W]	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 <sub>100</sub> )*	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	4VV	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 <sub>100</sub> )	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	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 glass 3mm thick					
Materials	Anodised aluminium body, with stainless steel fixing brackets					
Weight of product	0.72kg	0.72kg				
IP rating	IP67					
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.				







<sup>\*</sup>See lumen variance table to the right for N1 engine. E3 lumens apply across all colour temperatures

<sup>\*\*</sup>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		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						
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** 



**ANTHRACITE GREY** (RAL 7016)





#### **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.









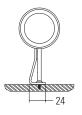


## **MOUNTING OPTIONS AND DIMENSIONS**

Dimensions in mm

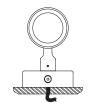
## /SAM Surface adjustable mount

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







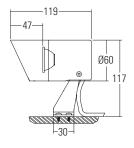


and rotation of the fitting. Weight: 0.14kg

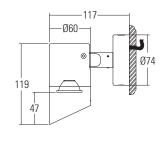
/SMB Surface mount base



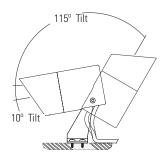
Surface mount base offers hidden wiring and a machined pivot arm with lockable tilt



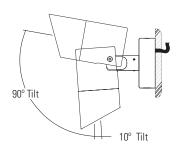






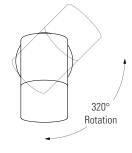




















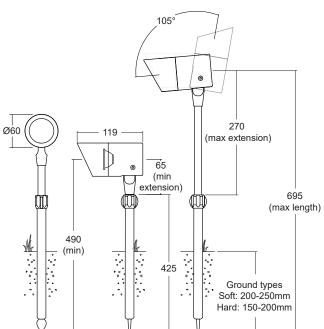
## /GSA Adjustable ground spike

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

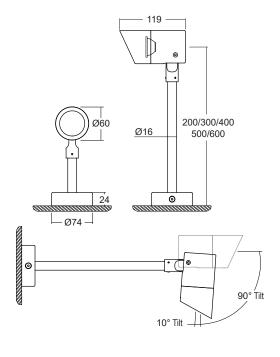
## /SMBEX Extended surface adjustable mount

Surface mount base with a lockable fitting tilt adjustment and customisable arm length between 200mm and 600mm to the centre of the fitting. Suitable for vertical and horizontal mounting. Weight: 0.14kg













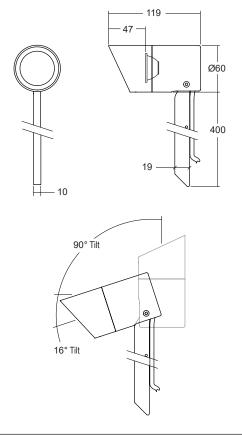


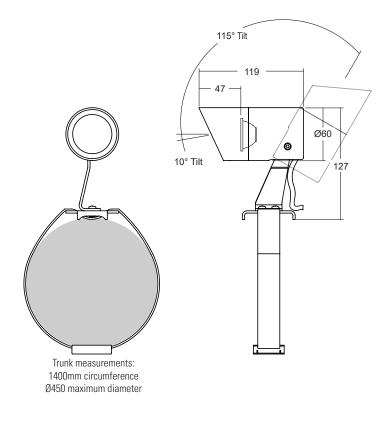
**/GS** Ground spike
Fixed height 400mm ground spike for in-ground applications. Lockable tilt adjustment. Weight: 0.21kg

## /TS Tree strap

The tree strap material grips and is tightened around the trunk. A tilt adjustment of 10° can be achieved towards the tree to provide a vertical beam. Weight: 0.21kg











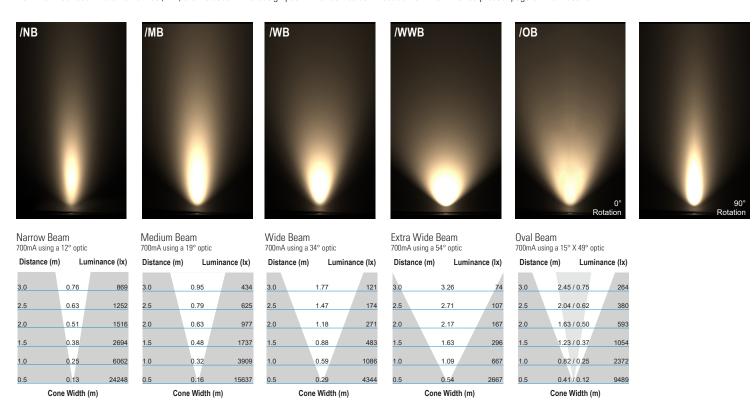




## **CONE DIAGRAMS**

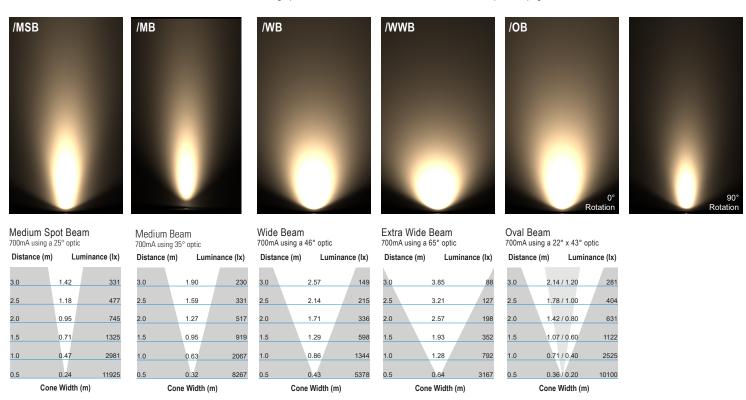
#### E3 LED Engine

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.



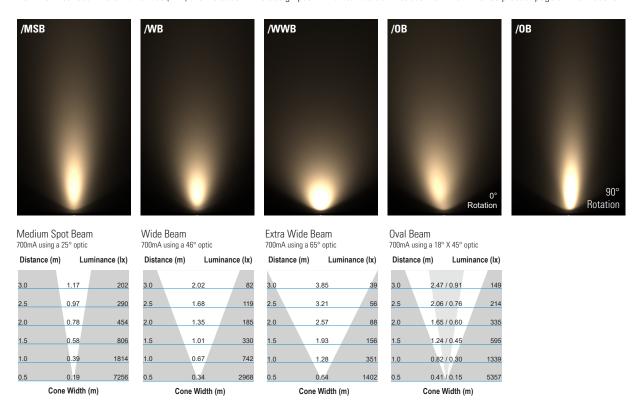






## F1 LED Engine

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 angle		Finish	Accessories
LD10238 -		/		/			/
WHITE LED ENGI	NES						
<b>⊕</b> E3							
5W LED at 350mA	LD10238-E3-350	Extra Warm White (2700K)	/LW27	12° Narrow spot	/NB		
7W LED at 500mA	LD10238-E3-500	Warm White (3000K)	/LW30	19° Medium	/MB	T	
10W LED at 700mA	LD10238-E3-700	White (4000K) - on request	/LW40	34° Wide	/WB	WET SPRAY	
		Cool White (5000K)	/LW50	54° Extra wide	/WWB	Silver anodised	
				15° x 49° Oval	/OB		/SAM
						7	7 5
() N1						WET SPRAY Antique Bronze	
7W LED at 350mA	LD10238-N1-350	Super Warm White (2200K)	/LW22	25° Medium spot	/MSB —	Antique biolize	
10W LED at 500mA	LD10238-N1-500	Extra Warm White (2700K)	/LW27	35° Medium	/MB		0
14W LED at 700mA	LD10238-N1-700	Warm White (3000K)	/LW30	46° Wide	/WB		
		White (4000K) - on request	/LW40	65° Extra wide	/WWB	WET SPRAY Satin Antique Brass	/SMB
		Cool White (5000K)	/LW50	22° x 43° Oval	/OB		
							Ĭ
(i) F1						WET SPRAY	
3.5W LED at 350mA	LD10238-F1-350	Super Warm White (2200K)	/LW22	25° Medium spot	/MSB —	Satin Brass	
5W LED at 500mA	LD10238-F1-500	Extra Warm White (2700K)	/LW27	46° Wide	/WB		/GSA
7W LED at 700mA	LD10238-F1-700	Warm White (3000K)	/LW30	65° Extra wide	/WWB	T	70071
		White (4000K) - on request	/LW40	18° x 45° Oval	/OB	WET SPRAY	<b>P</b>
		Cool White (5000K)	/LW50			Anthracite Grey (RAL 7016)	
COLOUR & DYNA	MIC LED ENGINES	;				(	
CLR						7	
7W LED at 500mA	LD10238-CLR-500	Red	/LR	24° Medium	/MD	WET SPRAY	/GS
7VV LED AT SOUTHA	LD10230-ULN-300	Green	/LG	38° Wide	/MB —	Black (RAL 9005)	
		Blue	/LB	54° Extra wide	/WWB	(10 12 0000)	ľ
		Amber	/LA	20° x 46° Oval	/0B		
					700	WET SPRAY	
RGI	3W					White (RAL 9016)	/SMBEX (DIM)
	LD40000 DODA (050					(TIAL 3010)	
5W LED at 350mA 7W LED at 500mA	LD10238-RGBW-350 LD10238-RGBW-500			38° Colour mix lens			•
7VV LLD at Journa	LD 10230-110DVV-300					WET SPRAY	
W TW						RAL Colours	
	LD10220 TM/ 250	T	/11/1/27	240 Mar di	(1.40		70
3.5W LED at 350mA	LD10238-TW-350	Tunable White 2700K & 4000K (standard option)	/LW27 - + LW40	24° Medium 38° Wide	/MB	1	/TS
		Tunable White	/LW27	54° Extra wide	/WB	POWDER COAT	
		2700K & 5000K	+ LW50 /LW**	20° x 46° Oval	/0B	Textured Mars Bronze	
		Custom	+ L**	20 % 10 0401	700		Manager 1
Drivers						L	
		nstant current LED drivers				POWDER COAT Textured Fir Green	/HL (Not suitable for use
We have a range of	dimmable LED drivers D	MX and DALI compatible. Pleas	se see the do	wnloads section on our we	bsite.	(RAL 6009)	with /OB or RGBW LED)





