

HIGH-POWER SURFACE MOUNTED ADJUSTABLE INTERIOR/EXTERIOR LED SPOTLIGHT

















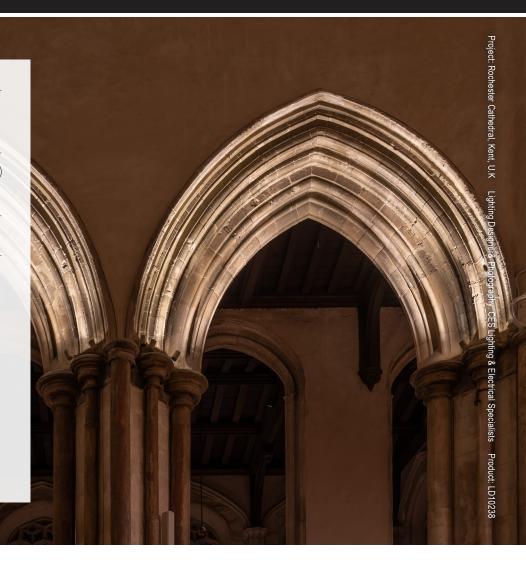








The LD10238 is a compact, high powered surface mounted spotlight, suitable for use in interior or exterior applications. It can be specified with a wide range of options allowing it to suit most project requirements. Available LED engines include E3, Tunable White, CLR, N1 and F1 LEDs offering multiple 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 653 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, 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
- 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	€3			11		● 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 / 300	2700K / 3000K / 4000K / 5000K			2200K / 2700K / 3000K / 4000K / 5000K			2200K, 2700K, 3000K, 4000K, 5000K		
Current	350mA	500mA	700mA	350mA	350mA 500mA 700mA			500mA	700mA	
LED power (Max)	4.2W (5W**)	6W (7W**)	8.4W (10W**)	6.6W (7W**)			3.2W 4.5W (5W**)		6.3W (7W**)	
Delivered lumens (L <sub>100</sub> )	379	493	653	494	677	891	227	241	367	
Lumens per circuit watt	76	70	65	71	68	64	65	49	52	
CRI (Typ)	85	85			93			90		
Forward voltage (V <sub>100</sub> )	14V	14V			18V			9V		
Colour consistency	2 SCDM	2 SCDM			2 SCDM			3 SCDM		
Peak intensity	6104 cd	6104 cd			2922 cd			1641 cd		
LED Lumens	840	840			1393			623		
LOR	0.78	0.78			0.64			0.59		
TM30	RF85	RGS	99	RF91	RF91		RF90		RG103	
LED lifetime	L90B5 at 90	L90B5 at 90,000hrs								
Applications										

## **MECHANICAL**

Ambient temperature	-20° to 45° (500mA) or -20° to 35° (700mA)
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	In-series constant current wiring (pre-wired with 2 core cable at a length of 1m)

# **ENVIRONMENTAL**

TM65	Available on request
TM66	2.5

These values are based around a LD10238-E3-700-LW30-NB, LD10238-N1-700-LW30-MSB & LD10238-F1-700-LW22-MSB \*Lumen output data applies to all colour temperatures

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



# **COLOUR & DYNAMIC LED ENGINE SPECIFICATION**

Engine	CLR - Colour	RGBW	RGBW			able 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,	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  CH 1 CH 3  CH 2 CH 4	TW - 4 core cables at 1m in length  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** 



**BLACK** (RAL 9005)



**ANTHRACITE GREY** (RAL 7016)



WHITE (RAL 9016)



**POWDER COAT** 







# **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.



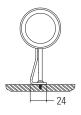


# **MOUNTING OPTIONS AND DIMENSIONS**

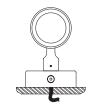
Dimensions in mm

## /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





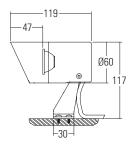


and rotation of the fitting. Weight: 0.14kg

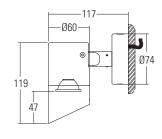
/SMB Surface mount base



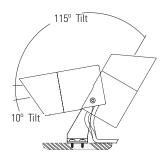
Surface mount base offers hidden wiring and a machined pivot arm with lockable tilt



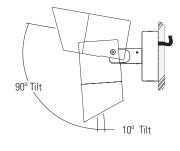




















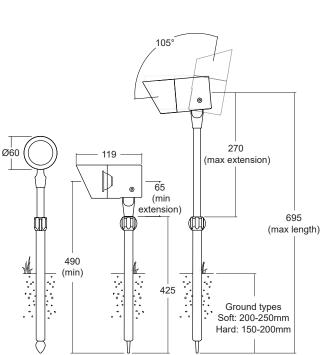
## /GSA Adjustable ground spike

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

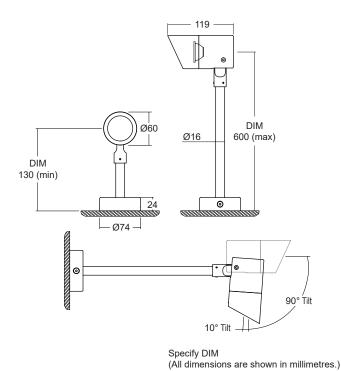
## /SMBEX Extended surface adjustable mount

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

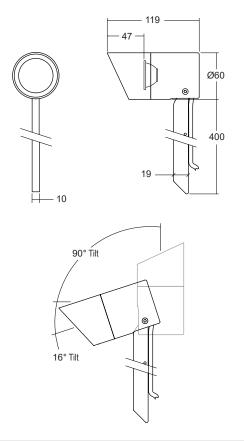
**/GS** Ground spike
Fixed height 400mm ground spike for in-ground applications. Lockable tilt adjustment. Weight: 0.21kg

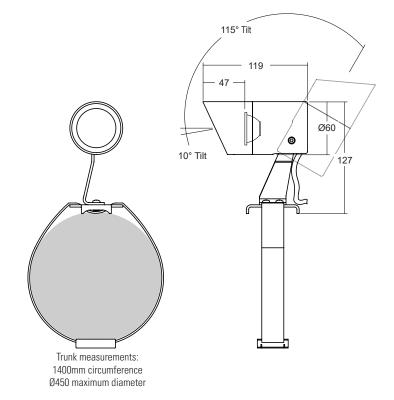


## /TS Tree strap

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





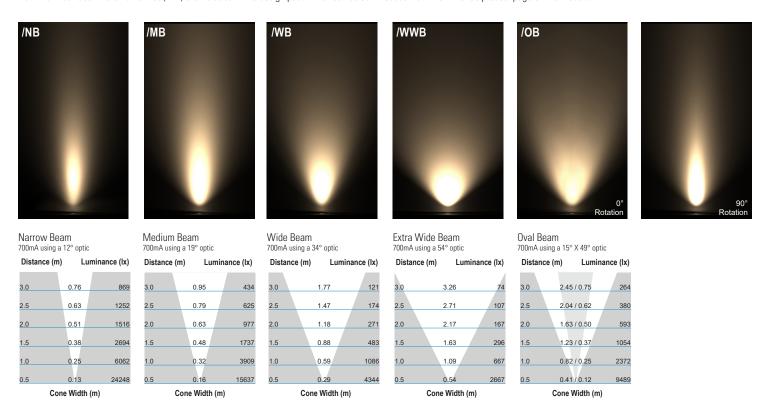




#### **CONE DIAGRAMS**

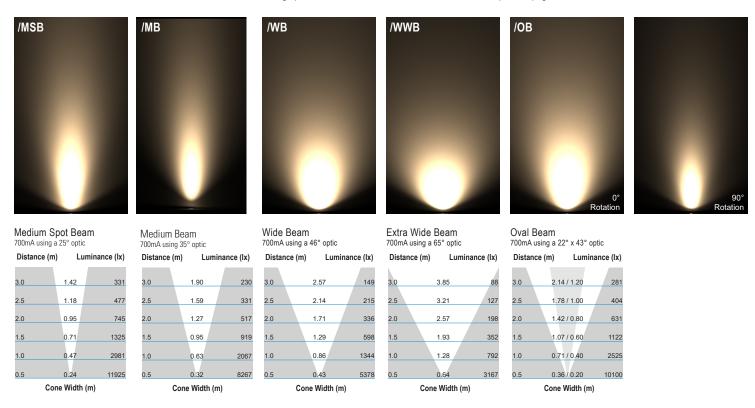
#### E3 LED Engine

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.



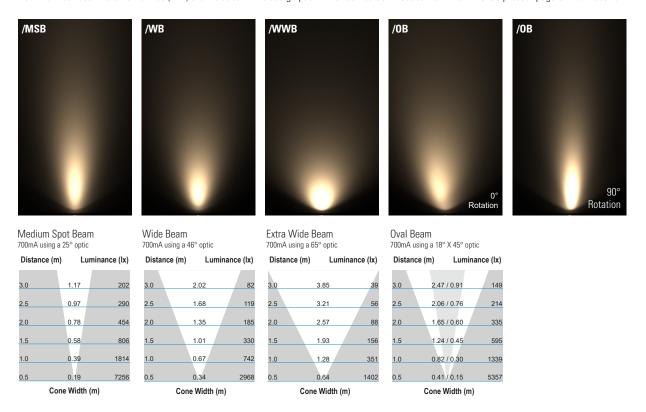
#### **N1** LED Engine

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 8	k drive current		LED colour			Beam ang	gle		Finish		Fixing accessories
LD10238 -		/			/			/		/	
WHITE LED ENGIN	VES										
<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				
10W LED at 700mA	LD10238-E3-700		White (4000K) - on request	/LW40		34° Wide	/WB		WET SPRAY		7
			Cool White (5000K)	/LW50		54° Extra wide	/WWB		Silver anodised		
						15° x 49° Oval	/OB				/SAM
O N1									WET SPRAY		
7W LED at 350mA	LD10238-N1-350		Super Warm White (2200K)	/LW22		25° Medium spot	/MSB		Antique Bronze		
10W LED at 500mA	LD10238-N1-500		Extra Warm White (2700K)	/LW27		35° Medium	/MB				
14W LED at 700mA	LD10238-N1-700		Warm White (3000K)	/LW30		46° Wide	/WB		T		(6)
			White (4000K) - on request	/LW40		65° Extra wide	/WWB		WET SPRAY		/SMB
			Cool White (5000K)	/LW50		22° x 43° Oval	/OB		Satin Antique Brass		₹
						22 X 10 OVG1	700				
F1									WET SPRAY		
3.5W LED at 350mA	LD10238-F1-350		Super Warm White (2200K)	/LW22		25° Medium spot	/MSB	_	Satin Brass		/GSA
5W LED at 500mA	LD10238-F1-500		Extra Warm White (2700K)	/LW27		46° Wide	/WB				70071
7W LED at 700mA	LD10238-F1-700		Warm White (3000K)	/LW30		65° Extra wide	/WWB				
			White (4000K) - on request	/LW40		18° x 45° Oval	/OB		WET SPRAY		
			Cool White (5000K)	/LW50					Anthracite Grey (RAL 7016)		
COLOUR & DYNAI	MIC LED ENGINES										/GS
CLR									T		<b>P</b>
7W LED at 500mA	LD10238-CLR-500		Red	/LR		24° Medium	/MB		WET SPRAY		I
			Green	/LG		38° Wide	/WB		Black (RAL 9005)		
			Blue	/LB		54° Extra wide	/WWB		(12.2000)		
			Amber	/LA		20° x 46° Oval	/OB				/SMBEX (DIM)
							,		WET SPRAY		
RGB	BW								White (RAL 9016)		
5W LED L D102	238-RGBW-350					38° Colour mix	x lens		(IAL SUID)		
at 350MA						00 0010di 11111	X 10110				
at 500mA LD102	238-RGBW-500								WET SPRAY		/TS
₩ TW									RAL Colours		
											Control of the second
3.5W LED at 350mA LD102	238-TW-350		Tunable White 2700K & 4000K (standard option)	/LW27 + LW40		24° Medium	/MB		POWDER COAT		
			Tunable White	/11/1/27 . 11/1/50		38° Wide	/WB		Textured Mars Bronze		/HL (Not suitable
			2700K & 5000K	/LW27 + LW50		54° Extra wide	/WWB		(SX350F)		for use with /OB
			Custom	/LW** + L**		20° x 46° Oval	/OB				or RGBW LED)
Drivers									DOWNET CO. I		
	500mA & 700mA cons	tant c	urrent LED drivers						POWDER COAT Textured Fir Green		
			DALI compatible. Please see th	e downloads secti	on on our	website.			(RAL 6009)		