

KEY FEATURES

- Extremely low glare, high-output uplight solution with optics deep recessed 39mm
- New high-power P1 engine with CREE COB delivering upto 1285lm at 500mA
- E3 engine with NICHIA LED delivering up to 684lm in 3000K offering an exceptional 9° extra narrow beam with peak intensity reaching 15,096cd
- N1 engine with CREE COB delivering up to 853lm at 700mA in 3000K offering a
- Utilises large 50mm low glare optics, chosen for efficiency, quality of beam and ability to produce narrow beams at high outputs



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

- Chamfered bezel available in 316 Stainless Steel, Polished & Passivated Stainless Steel and a wide range of powder coat paint finishes or any RAL colour
- Switched, 0-10V, Casambi, DMX, DALI, or Mains dimmable drivers available

DIMENSIONS

For full dimensions please go to page 4











WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3			O N1			P1			
Beam angles	9°, 11°, 22°,	29°, 42°, 56°, 1	0° x 39°	13°, 24°, 31°	, 41°, 55°, 14° x	(39°	20°, 27°, 31°, 42°, 55°, 19° x 41°			
LED manufacturer	NICHIA			CREE			CREE			
Colour temperature	2200K, 2700k	K, 3000K, 4000K	, 5000K	2200K, 2700k	K, 3000K, 4000K	, 5000K	2200K, 2700K, 3000K, 4000K, 5000K			
Current [Rated Output]	350mA [5W]	500mA [7W]	700mA [10W]	350mA [7W]	500mA [10W]	700mA [14W]	350mA [14W]	500mA [20W]		
Typical LED Circuit wattage	4.4W	6.4W	9.2W	6.4W	9.3W	13.3W	13.3W	19.6W		
Delivered lumens (L ₁₀₀)*	389	516	684	457	626	853	903	1285		
Delivered Im/Circuit W**	88	80	74	71	67	64	68	66		
Typical LED Source wattage	4W	5.8W	8.3W	5.8W	8.4W	12.0W	12.0W	17.6W		
Source LED Im	574	740 949		694	937	1264	1449	1983		
Source Im/W	144	128	114	120	112	105	121	113		
Forward voltage (V ₁₀₀)	11.3V	11.6V 11.8V		16.6V	16.8V	17.1V	34.3V	35.2V		
CRI	85			93			90			
Colour consistency	2 SDCM			2 SDCM			3 SDCM			
Peak intensity	15,096 cd			11,052 cd			10,624 cd			
LOR	0.72			0.67			0.65			
TM30	RF86 RG98			RF91 RF99			RF90 RG97			
UGR rating ('downlight' mounted)	4	5	5.8	5.3	6.3	7.3	6.8 7.9			
BUG rating ('uplight' mounted)	B0-U3-G0	B0-U4-G0		B0-U4-G0 B0-U5-G0 B0-U5-G0						
LED lifetime	L90B5 at 90,	L90B5 at 90,000hrs								
Applications										

These values are based on LD154DR-E3-700-LW30-ENB, LD154DR-N1-700-LW30-NB and LD154DR-P1-700-LW30-NB

Lumen variand	ce by CCT
2200K	-7%
2700K	+/- 0%
4000K	+7%
5000K	+16%

MECHANICAL

	E3	Soil	-20°C to 50°C (350mA-500mA) or -20°C to 35°C (700mA)						
	E3	Concrete	-20°C to 50°C (350mA-700mA) in concrete						
Ambient temperature	N1	Soil	-20°C to 50°C (350mA), -20°C to 45°C (500mA) or -20°C to 25°C (700mA)						
Ambient temperature	INI	Concrete	-20°C to 50°C (350mA-700mA) in concrete						
	D4	Soil	-20°C to 25°C (350mA)						
	P1	Concrete	-20°C to 50°C (350mA) or -20°C to 25°C (500mA) in concrete						
Glass	8mm thick,	8mm thick, low iron glass							
Materials	Black hard a	nodised alumin	ium body, 316 Stainless Steel bezel						
Weight of product	0.68kg	68kg							
IP rating	IP67								
IK rating	IK08								
Wiring	In-series constant current wiring (pre-wired with 2 core cable at a length of 250mm)								

ENVIRONMENTAL

TM65	Available on request								
TM66	2.5								
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

AVAILABLE FINISHES

Please refer to our finishes guide for full details



316 STAINLESS STEEL

- Marine grade 316 Stainless Steel
- Standard machined finish
- Extremely durable
- Passivation recommended for marine environments to prevent corrosion and build up of brown stains caused by oxidation
- Interior & exterior use



POLISHED & PASSIVATED 316 STAINLESS STEEL

- Marine Grade 316 Stainless Steel
- Pristine mirror like finish
- Recommended for pools and marine applications
- Extremely durable with very high corrosion resistance >
- Passivated to extensively prolong resistance to corrosion and brown stains caused by oxidation in marine environments
- Interior & exterior use

PAINT FINISH - POWDER COAT

- The powder coated finish is very matt
- Not recommended for high traffic in-ground applications, unless placed to one side where the bezel will not be walked on
- Powder coat paint is generally used on stainless steel or anodised aluminium components
- Interior and exterior use



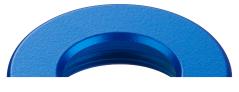
WHITE (RAL 9016)



CLASSIC BRONZE



TEXTURED FIR GREEN (RAL 6009)



RAL COLOURS



BLACK (RAL 9005)



TEXTURED MARS BRONZE



GUNMETAL GREY (RAL 7021)







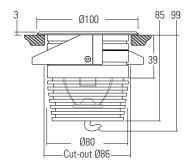


DIMENSIONS AND FIXING OPTIONS

Dimensions in mm

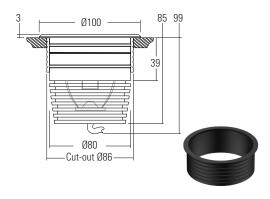
/SC Spring Clips

Suitable for use in surfaces with a thickness of 1mm -25mm. Spring clips provide a simple, single fix mounting method. We recommend that spring clips are only used in interior applications.



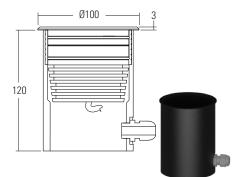
/485\$ Fixing sleeve and O-rings

Acetal sleeve is bonded into the mounting surface first and the fitting is held in with O-rings. We recommend this method for mounting in exterior in-ground applications.



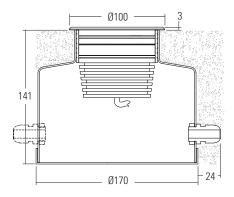
/485GT Ground Tube

Designed for soil or gravel surfaces. It is supplied with the fixing sleeve bonded into the tube and can be cut down on site. The tube can be buried with the necessary wiring via the PG9 IP67 gland and then the fitting installed after the landscaping work has been completed.



/486N Concrete Housing

The aluminium housing is used as a heat sink which keeps the LED fitting cool through the thermal transfer of the heat within the housing to the surrounding concrete. The housings are big enough for IP rated connections to be made inside and a second gland is available for cabling onto the next luminaire.





Concrete housing with 1x PG9 IP67 gland



Concrete housing with 2x PG9 IP67 gland

GLARE CONTROL OPTIONS

/NGS

No glare shield

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

/GS154

Glare shield

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

/GSHM154

Half-moon glare shield

For applications that require low glare. Lumen output is typically reduced by 60% with no light lost on the lit surface.

/GSOB154

Oval beam glare shield

Reduces the angles at which glare is visible without compromising the oval output of the beam. Useful when used in applications where glare can be seen from two sides, for example archways.

Honeycomb Louvre

Helps reduce glare from all angles and can be used with glare shields.

















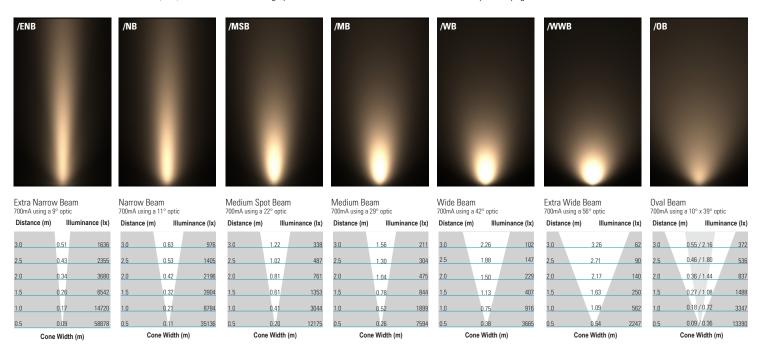




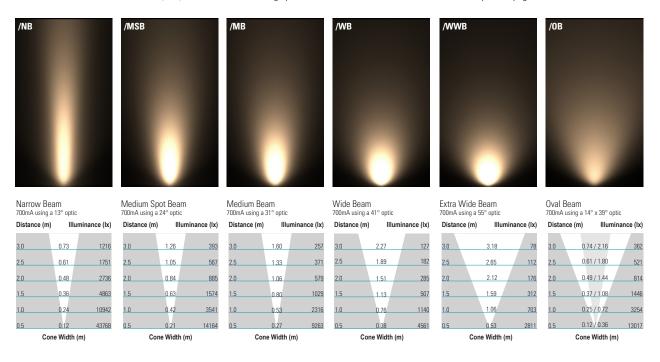
CONE DIAGRAMS

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 LD154DR product page on the website.



Cone diagrams below are based on a 3000K N1 LED engine run at maximum output 700mA, 14W. 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 LD154DR product page on the website.



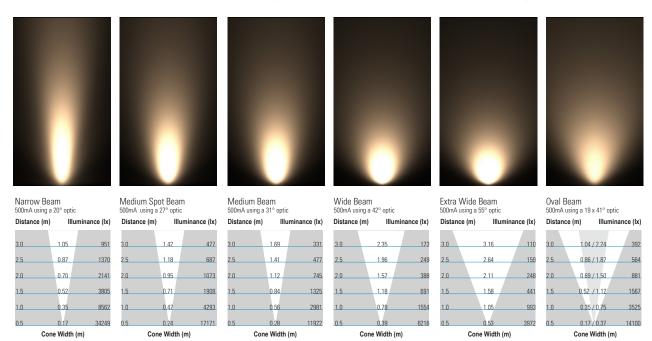






P1 LED Engine

Cone diagrams below are based on a 3000K P1 LED engine run at maximum output 500mA, 20W. 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 LD154DR product page on the website.









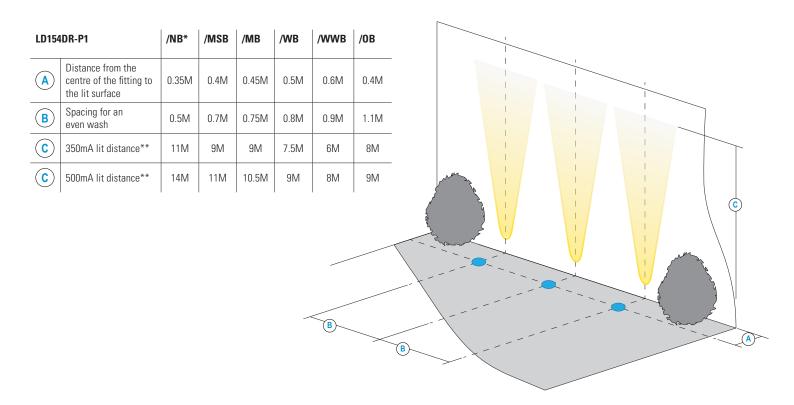


INSTALLATION GUIDE

Below is an uplighting application guide with suggested luminaire mounting positions for an even wall wash. Every project and lighting scenario will be different and the table below is to be used as a starting point. Please use our photometric files to further test the desired effect for your application. Files are available on the LD154DR product page on our website.

LD154	IDR-E3	/ENB*	/NB*	/MSB	/MB	MB /WB /WWB		/0B
A	Distance from the centre of the fitting to the lit surface	0.25M	0.3M	0.35M	0.4M	0.5M	0.55M	0.4M
B	Spacing for an even wash	0.4M	0.45M	0.5M	0.7M	0.8M	0.85M	1M
C	500mA lit distance**	10M	7M	6.5M	5.5M	4.5M	4M	6M
C	700mA lit distance**	11M	8M	7M	6M	5M	4.5M	7M

LD154	JDR-N1	/NB*	/MSB	/MB	/WB	/WWB	/0B
A	Distance from the centre of the fitting to the lit surface	0.3M	0.35M	0.4M	0.5M	0.6M	0.3M
В	Spacing for an even wash	0.45M	0.5M	0.7M	0.8M	0.9M	0.8M
C	500mA lit distance**	10M	8M	6.5M	5.5M	5M	7M
C	700mA lit distance**	11.5M	9M	7.5M	6.5M	6M	7.5M



^{*}Wall washing using narrow beam optics should only be used if the designer requires long distance lighting up the lit surface.







^{**}Illuminated distance is calculated based on achieving 10% of the initial lux calculated at the start of the beam.



ORDER CODES & OPTIONS

Example: LD154DR-E3-700/LW30/OB/GS0B154/316 STAINLESS STEEL/SC

Light engine & drive current			LED Colo	ur		Beam Ar	ngle		Accessory		Finish		Fixing
LD154DR	-	/			/					/		/	
(E3												
5W LED at 350mA	LD154DR-E3-350		r Warm e (2200K)	/LW22		9° Extra Narrow	/ENB						
7W LED at 500mA	LD154DR-E3-500		Warm e (2700K)	/LW27		11° Narrow	/NB						
10W LED at 700mA	LD154DR-E3-700	Warn (3000	n White K)	/LW30		22° Medium Spot	/MSB		/NGS		316 Stainless Steel		/SC
		White on red	e (4000K) quest	/LW40		29° Medium	/MB						
		Cool \((5000)	White K)	/LW50		42° Wide	/WB						
						56° Extra Wide	/WWB		/GS154		Polished & Passivated 316 Stainless Steel (for marine environments)		/485S
						10° x 39° Oval	/OB						8
											Deina Finish		•
	N1								/GSHM154		Paint Finish White (RAL 9016)		/486N
7W LED at 350mA	LD154DR-N1-350		r Warm e (2200K)	/LW22		13° Narrow	/NB						A
10W LED at 500mA	LD154DR-N1-500		Warm e (2700K)	/LW27		24° Medium Spot	/MSB				Paint Finish		
14W LED at 700mA	LD154DR-N1-700	Warm (3000	n White K)	/LW30		31° Medium	/MB		/GS0B154		Black (RAL 9005)		/486N-2
		White on red	e (4000K) quest	/LW40		41° Wide	/WB						
		Cool \ (5000	White IK)	/LW50		55° Extra Wide	/WWB				Paint Finish		
						14° x 39° Oval	/OB		/HL		Classic Bronze (YM262E)		/485GT
	P1										D. 12 1		
14W LED at 350mA	LD154DR-P1-350		r Warm e (2200K)	/LW22		20° Narrow	/NB				Paint Finish Textured Mars Bronze		
20W LED at 500mA	LD154DR-P1-500	Extra	Warm e (2700K)	/LW27		27° Medium Spot	/MSB						
			n White	/LW30		31° Medium	/MB				Paint Finish		
		-	e (4000K)	/LW40		42° Wide	/WB				Textured Fir Green (RAL 6009)		
		-	White	/LW50		55° Extra Wide	/WWB						
						19° x 41° Oval	/0B				Paint Finish		
											Gunmetal Grey (RAL 7021)		
Drivers													

Paint Finish - RAL







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.