

KEY FEATURES

- > New high-power P1 engine with CREE COB delivering upto 1443lm at 700mA in 3000K
- > E3 engine with NICHIA LED delivering up to 699Im at 700mA in 3000K, offering an exceptional 9° extra narrow beam with peak intensity reaching 16,000cd
- > N1 engine with CREE COB delivering up to 1028Im at 700mA in 3000K offering a 13° narrow beam
- > Utilises large 50mm low glare optics, chosen for efficiency, quality of beam and ability to produce narrow beams at high outputs
- > Low glare product with a choice of accessories to minimise the view of the light source at various angles
- Repairable engine with integral anti-wicking barrier to increase protection against moisture ingress
- > Chamfered bezel available in 316 Stainless Steel, Polished & Passivated Stainless Steel, a wide range of powder coat paint finishes or any RAL colour
- > LD154DO has been designed for drive over applications with a thickened bezel and dedicated concrete housing to prevent rotation of the fitting
- > For applications requiring super low glare or an asymmetric beam, please view the LD154DR and LD154T data sheets
- > Switched, 0-10V, Casambi, DMX, DALI, or Mains dimmable drivers available

DIMENSIONS





WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3			(N	1		P1		
Beam angles	9°, 11°, 22°	, 29°, 42°, 53°,	10° x 56°	13°, 24°, 3	1°, 45°, 54°, 13°	x 58°	20°, 27°, 33°, 47°, 58°, 19° x 60°		
LED manufacturer	NICHIA			CREE			CREE		
Colour temperature*	2700K, 3000	OK, 4000K, 5000	OK .	2200K, 270	0K, 3000K, 4000	K, 5000K	2200K, 2700K, 3000K, 4000K, 5000K		
Current	350mA	500mA	700mA	350mA	500mA	700mA	350mA	500mA	
LED power (Max)	4.2 (5W**)	6.0 (7W**)	8.4 (10W**)	5.8 (7W**)	8.3 (10W**)	11.6 (14W**)	12.0 (14W**)	18.0 (20W**)	
Delivered lumens (L ₁₀₀)	418	557	699	577	776	1028	1050	1443	
Lumens per circuit watt	100	93	83	100	93	89	88	80	
CRI (Typ)	85	85		93			93		
Forward voltage (V ₁₀₀)	14V	14V		18.5V			38.5V		
Colour consistency	2 SCDM			2 SCDM			2 SCDM		
Peak intensity	15922 cd			13809 cd			10624 cd		
LED Lumens	840			1393			2303		
LOR	0.83			0.74			0.63		
TM30	RF86	RG	98	RF91	RGS	99	RF90	RG97	
UGR***	8.8	'		10.1	'		11.9		
LED lifetime	L90B5 @ 9	0,000hrs							
Applications									

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

MECHANICAL

Ambient temperature	-20°C to 45°C (350mA/500mA/700mA)
Glass	8mm thick, low iron glass
Materials	Black hard anodised aluminium body, 316 Stainless Steel bezel
Weight of product	0.68kg
IP rating	IP67
IK rating	IK09
Wiring	In-series constant current wiring (pre-wired with 2 core cable at 350mm)

ENVIRONMENTAL

TM65	Available on request
TM66	2.5



These values are based around a LD154-E3-700-LW30-ENB, LD154-N1-700-LW30-NB and LD154-P1-700-LW30-NB
*Lumen output data applies to all E3 colour temperatures. For N1 and P1 engines, please see lumen variance table to the right.
**Indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver
*** UGR values based on room parameter of 4H 8H, C70 W50 F20

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



WHITE (RAL 9016)



BLACK (RAL 9005)



CLASSIC BRONZE (YM262E)



TEXTURED MARS BRONZE (SX350F)



TEXTURED FIR GREEN (RAL 6009)



GUNMETAL GREY (RAL 7021)



RAL

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

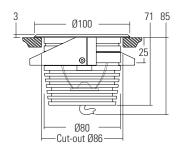


DIMENSIONS AND FIXING OPTIONS

Dimensions in mm

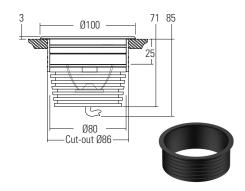
/SC Spring clips

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.



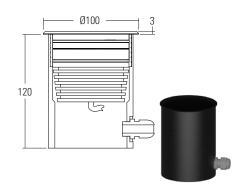
/485S Fixing sleeve and O-rings

Acetal sleeve is bonded into the mounting surface first and the fitting is held in with 0-rings. We recommend this method for mounting in exterior in-ground applications.



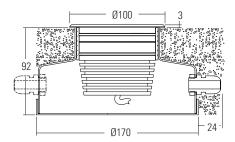
/485GT Ground tube

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.



/485N 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.







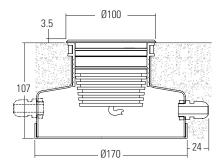
/485N Concrete housing with 1x PG9 IP67 gland

/485N-2 Concrete housing with 2x PG9 IP67 gland

LD154D0 (DRIVE OVER APPLICATION)

For drive over applications please specify the LD154DO, which is supplied with a drive over bezel and has an increased thickness of 3.5mm. The bezel features pins that secured into the concrete housing, preventing the luminaire from rotating when driven over. When specifying LD154DO, please use the dedicated configurator on page 9.

/485N-DO Drive over concrete housing with 1x PG9 IP67 gland.



/485N-DO-2

Drive over concrete housing with 2x PG9 IP67 gland.





GLARE CONTROL OPTIONS

/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.



/HL Honeycomb louvre

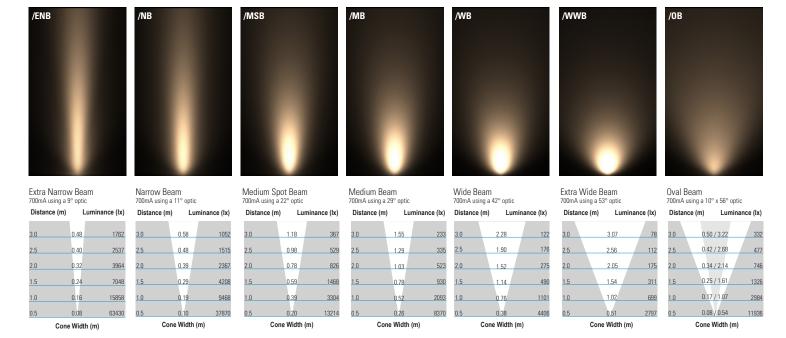
Helps reduce glare from all angles and can be used with glare shields.



CONE DIAGRAMS

E3 LED Engine

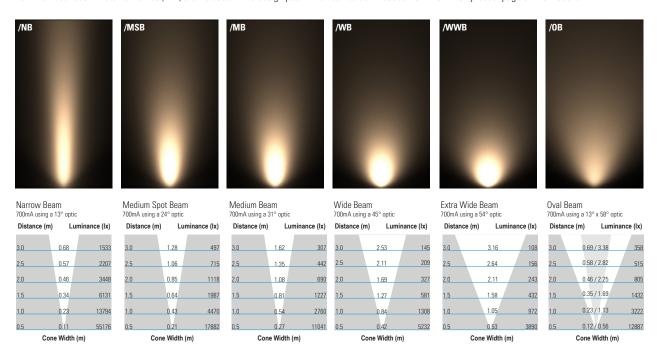
Cone diagrams below are based on a 3000K E3 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD154 product page on the website.





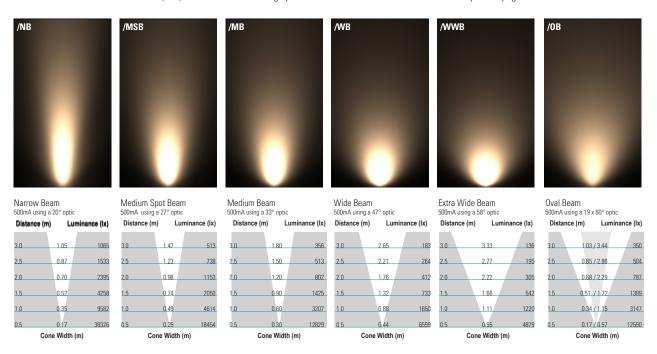
N1 LED Engine

Cone diagrams below are based on a 3000K N1 LED engine run at maximum output 700mA, 14W. Images below 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 LD154 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 LD154 product page on the website.

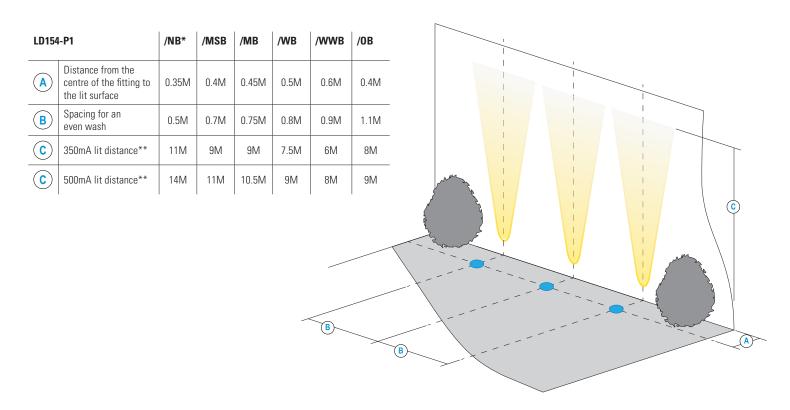


INSTALLATION GUIDE

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 LD154 product page on our website.

LD154	1-E3	/ENB*	/NB*	/MSB	/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	0.6M	0.3M
B	Spacing for an even wash	0.4M	0.45M	0.5M	0.7M	0.8M	0.9M	1.1M
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	I-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
B	Spacing for an even wash	0.45M	0.5M	0.7M	0.8M	0.9M	1.1M
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 - LD154

Example: LD154-E3-700 / LW30 / OB / GS0B154 / 316 STAINLESS STEEL / SC

Light engir	ne & drive current		LED co	olour		Beam a	angle		Accessory		Finish		Fixing
LD154 -		/			/			/		/		/	
	E3												
5W LED at 350mA	LD154-E3-350		Extra Warm White	/LW27		9° Extra Narrow	/ENB						4
at 500mA 10W LED at 700mA	LD154-E3-500 LD154-E3-700		(2700K) Warm White	/LW30		11° Narrow 22°	/NB		/GSHM154		316 Stainless Steel		/SC
		J	(3000K) White (4000K) - on request	/LW40		Medium Spot 29°	/MSB				Polished &		
			Cool White (5000K)	/LW50		Medium 42° Wide	/WB		/CSOP154		Passivated 316 Stainless Steel (for marine environments)		/485S
			(σσσιιγ			53° Extra Wide	/WWB		/GS0B154				74003
						10° x 56° Oval	/OB				Paint Finish - White (RAL 9016)		
	N1								/HL		(hAL 9010)		/485N
7W LED at 350mA	LD154-N1-350		Super Warm White	/LW22		13° Narrow	/NB				Paint Finish -		-5
10W LED at 500mA	LD154-N1-500		(2200K) Extra			24° Medium	/MSB				Black (RAL 9005)		/485N-2
14W LED at 700mA	LD154-N1-700		Warm White (2700K)	/LW27		Spot 31° Medium	/MB						П
			Warm White (3000K)	/LW30		45° Wide	/WB				Paint Finish - Classic Bronze (YM262E)		/485GT
			White (4000K) - on request	/LW40		Extra Wide 13° x 58°	/WWB						740301
			Cool White (5000K)	/LW50		Oval	/00				Paint Finish - Textured		
	P1										Mars Bronze (SX350F)		
14W LED	LD154-P1-350		Super			20°	/NB						
at 350mA 20W LED at 500mA	LD154-P1-500		Warm White (2200K)	/LW22		Narrow 27° Medium	/MSB				Paint Finish - Textured Fir Green		
		J	Extra Warm White (2700K)	/LW27		Spot 33° Medium	/MB				(RAL 6009)		
			Warm White (3000K)	/LW30		47° Wide	/WB				Paint Finish -		
			White (4000K) - on request	/LW40		Extra Wide	/WWB				Gunmetal Grey (RAL 7021)		
			Cool White (5000K)	/LW50		Oval	/0B				Paint Finish - RAL		



ORDER CODES & OPTIONS - I D154DO

_ight engir	ne & drive current		LED co	lour		Beam a	angle		Accessory		Finish
.D154D0-		/			/			/		/	/
\oplus	E3										
SW LED			Extra			9°		<u></u>			
t 350mA	LD154D0-E3-350		Warm White	/LW27		Extra Narrow	/ENB				
W LED t 500mA	LD154D0-E3-500		(2700K)			11°	/NB				
0W LED t 700mA	LD154D0-E3-700		Warm White (3000K)	/LW30		Narrow 22°			/GSHM154		316 Stainless Steel
			White	(1) \(\) \(\) \(\)		Medium Spot	/MSB				
			(4000K) - on request	/LW40		29° Medium	/MB				
			Cool White	/LW50		42° Wide	/WB				
			(5000K)			53° Extra	/WWB		/GS0B154		
						Wide	/ * * * * * * * * * * * * * * * * * * *				
						10° x 56° Oval	/OB				
	N1								/HL		
0	INT					100					
7W LED at 350mA	LD154D0-N1-350		Super Warm White	/LW22		13° Narrow	/NB				
10W LED at 500mA	LD154D0-N1-500		(2200K)			24° Medium	/MSB				
14W LED at 700mA	LD154D0-N1-700		Extra Warm White	/LW27		Spot 31°	/MB				
			(2700K)			Medium 45°					
			Warm White (3000K)	/LW30		Wide	/WB				
			White			54° Extra Wide	/WWB				
			(4000K) - on request	/LW40		13° x 58°	/OB				
			Cool White	/LW50		Oval	,				
			(5000K)								
	P1										
14W LED	LD154D0-P1-350		Super			20°	/NB				
at 350mA 20W LED			Warm White	/LW22		Narrow 27°	/IND				
at 500mA	LD154D0-P1-500		(2200K) Extra			Medium Spot	/MSB				
			Warm White	/LW27		33° Medium	/MB				
			(2700K) Warm			47°	/WB				
			White (3000K)	/LW30		Wide 58°					
			White (4000K) -	/LW40		Extra Wide	/WWB				
			on request			19° x 60° Oval	/OB				
			White (5000K)	/LW50				,			