

## **KEY FEATURES**

- Features an asymmetric beam with optics set at a 3° tilt, helping to reduce glare and focus the light where needed
- > New high-power P1 engine with CREE COB delivering upto 1375lm at 700mA in 3000K
- > E3 engine with NICHIA LED delivering up to 631lm at 700mA in 3000K offering an exceptional 10° extra narrow beam with peak intensity reaching 13,539cd
- > N1 engine with CREE COB delivering up to 851Im at 700mA in 3000K offering a 14° narrow beam
- > LD154TD0 for drive over applications with thickened bezel and dedicated concrete housing to prevent rotation of the fitting
- > Utilises large 50mm low glare optics, chosen for efficiency, quality of beam and ability to produce narrow beams at high outputs
- > Repairable engine with integral anti-wicking barrier to increase protection against moisture ingress due to incorrect IP rated cable 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**





# WHITE LED ENGINE SPECIFICATION

Engine	⊕ E3			O N	1		P1		
Beam angles	10°, 12°, 23	10°, 12°, 23°, 30°, 44°, 62°, 11° x 46°			°, 45°, 62°, 14	° x 46°	20°, 28°, 34°, 48°, 63°, 20° x 46°		
LED manufacturer	NICHIA			CREE			CREE		
Colour temperature*	2700K, 3000	2700K, 3000K, 4000K, 5000K			OK, 3000K, 4000	OK, 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 <sub>100</sub> )	362	490	631	463	634	851	963	1375	
Lumens per circuit watt	86	82	75	80	76	73	80	76	
CRI (Typ)	85	85		93			93		
Forward voltage (V <sub>100</sub> )	14V	14V					38.5V		
Colour consistency	2 SCDM			2 SCDM			2 SCDM		
Peak intensity	13539 cd			10837 cd			10060 cd		
LED Lumens	840			1393			2303		
LOR	0.75			0.61			0.60		
TM30	RF86	RGS	98	RF91	RG	98	RF91	RG98	
LED lifetime	L90B5 @ 9	0,000hrs					-		
Applications		) (1)							

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 LD154T-E3-700-LW30-ENB, LD154T-N1-700-LW30-NB and LD154T-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

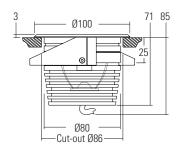


### **DIMENSIONS AND FIXING OPTIONS**

Dimensions in mm

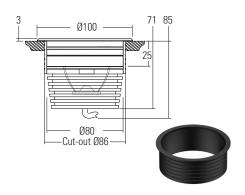
## **/SC** Spring clips

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.



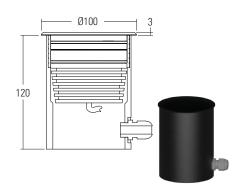
#### /485S Fixing sleeve and O-rings

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.



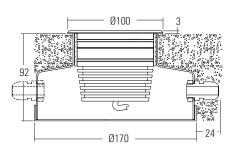
#### /485GT Ground tube

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.







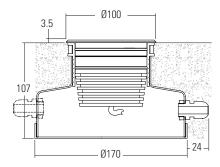
/485N Concrete housing with 1x PG9 IP67 gland

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

# **LD154TDO (DRIVE OVER APPLICATION)**

For drive over applications please specify the LD154TDO, which is supplied with a dedicated drive over bezel that 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 LD154TDO, 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.



## /GS0B154 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

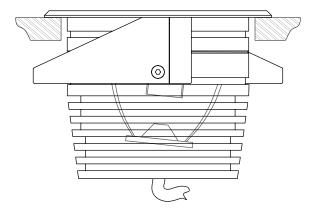
Helps reduce glare from all angles and can be used with glare shields.



## 3° TILT

Both the LED and the optic are set at a 3° tilt, allowing for more efficient use of a glare shield, as more of the light output is directed towards the open aperture of the fitting.

Should there be any obstructions preventing installation, then the tilt also allows the luminaire to be placed further away from the lit surface, without comprismising on output.



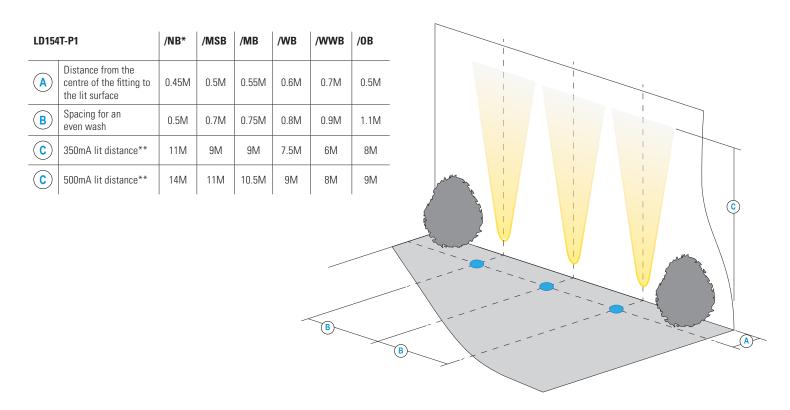


## **INSTALLATION GUIDE**

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 LD154T product page on our website.

LD154	1T-E3	/ENB*	/NB*	/MSB	/MB	/WB	/WWB	/0B
A	Distance from the centre of the fitting to the lit surface	0.4M	0.4M	0.45M	0.5M	0.65M	0.7M	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	IT-N1	/NB*	/MSB	/MB	/WB	/WWB	/0B
A	Distance from the centre of the fitting to the lit surface	0.4M	0.45M	0.5M	0.65M	0.7M	0.4M
В	Spacing for an even wash	0.4M	0.5M	0.7M	0.8M	0.85M	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



<sup>\*</sup>Wall washing using narrow beam optics should only be used if the designer requires long distance lighting up the lit surface.





<sup>\*\*</sup>Illuminated distance is calculated based on achieving 10% of the initial lux calculated at the start of the beam.



# **ORDER CODES & OPTIONS - LD154T**

Example: LD154T-E3-700 / LW30 / OB / GS0B154 / 316 STAINLESS STEEL / SC

Light engir	ne & drive current		LED co	lour		Beam a	angle		Accessory		Finish		Fixing
LD154T-		/			/			/		/		/	
$\oplus$	E3												
5W LED at 350mA	LD154T-E3-350		Extra Warm	/LW27		- 10° Extra	/ENB						4
7W LED at 500mA	LD154T-E3-500		White (2700K) Warm			Narrow 12° Narrow	/NB				316 Stainless Steel		
10W LED at 700mA	LD154T-E3-700		White (3000K)	/LW30		23° Medium	/MSB		/GSHM154				/SC
			White (4000K) - on request	/LW40		Spot 30° Medium	/MB				Polished &		
			Cool White (5000K)	/LW50		44° Wide	/WB		(0000454		Passivated 316 Stainless Steel (for marine environments)		/4050
			(30001)			62° Extra Wide	/WWB		/GSOB154				/485S
						11° x 46° Oval	/OB				Paint Finish -		
	N1								/HL		White (RAL 9016)		/485N
7W LED	INT		Super			14°							
at 350mA	LD154T-N1-350		Warm White	/LW22		Narrow 25°	/NB				Paint Finish - Black		
at 500mA	LD154T-N1-500		(2200K) Extra			Medium Spot	/MSB				(RAL 9005)		/485N-2
14W LED at 700mA	LD154T-N1-700		Warm White (2700K)	/LW27		31° Medium	/MB						
			Warm White (3000K)	/LW30		45° Wide	/WB				Paint Finish - Classic Bronze		
			White (4000K) -	/LW40		Extra Wide	/WWB				(YM262E)		/485GT
			on request Cool White	/LW50		14° x 46° Oval	/OB				Paint Finish -		
			(5000K)	721100							Textured Mars Bronze (SX350F)		
	P1										(Oxedor)		
14W LED at 350mA	LD154T-P1-350		Super Warm	/LW22		20° Narrow	/NB				Paint Finish -		
20W LED at 500mA	LD154T-P1-500		White (2200K)	,		28° Medium Spot	/MSB				Textured Fir Green (RAL 6009)		
			Warm White (2700K)	/LW27		34° Medium	/MB				[1.0.2.3000]		
			Warm White	/LW30		48° Wide	/WB				Paint Finish -		
			(3000K) White (4000K) -	/LW40		63° Extra Wide	/WWB				Gunmetal Grey (RAL 7021)		
			on request			20° x 46° Oval	/OB						
			White (5000K)	/LW50							Paint Finish - RAL		



# **ORDER CODES & OPTIONS - LD154TD0**

Example: LD154TD0-E3-700 / LW30 / OB / GS0B154 / 316 STAINLESS STEEL / 485N-D0

E3  LD154TD0 -E3-350 LD154TD0 -E3-500  LD154TD0 -E3-500  Warm White (2700K) Warm VARIANTOW  12° Narrow VNB  Narrow VNB
LD154TD0 -E3-350  LD154TD0 Extra Warm White (2700K)  LD154TD0 Extra (2700K)  LD154TD0 LD154TD
LD154TD0 -E3-350  LD154TD0 Extra Warm White (2700K)  LD154TD0 Extra (2700K)  LD154TD0 LD154TD
-E3-350 Warm White (2700K) LD154TD0 (2700K) Extra Narrow 12° (AIR
LD154TD0 (2700K) 12° (AID
100
LD154TD0 -E3-700
(4000K) - on request
White (5000K) /LW50 44° /WB 62° /GS0B154
Extra /WWB Wide
11° x 46° Oval /OB
N1
LDAFATRO Curar 140
-N1-350 Warm Vhite /LW22
LD154TD0 (2200K)
LD154TD0 -N1-700 Warm White (2700K) /LW27 Medium /MB
Warm White /LW30 45° Wide /WB
(3000K)  White (4000K) - /LW40  62° Extra Wide  Wide
on request 14° x 46° /OB
Cool White (5000K) /LW50
P1
LD154TD0
LD154TD0 (2200K)
Warm White (2700K) /LW27 Medium /MB
Warm White /LW30 48° Wide /WB
White (4000K) - /LW40 Extra Wide /WWB
on request 20° x 46° Oval /OB White /LW50