NT10 LED Downlight

Features

BSI Part L Certified to >60 lm/circuit watt
The NT10 has been tested by the BSI in accordance with the 2013 requirements for UK Building Regulation Part L1 (Domestic) and Part L2 (Industrial) both A & B.

100,000 Hours Life
The NT10 has been independently tested in accordance with LM-80 and has a predicted TM-21 L70 lifetime estimate of 100,000 hours.

UL Approval Pending
Both the NT10 Series and PSU10 Driver have been submitted to UL for approval and certification is pending.

Highly Efficient Driver
The NT10 Driver (PSU10) has an independently tested power factor correction of >0.9 and efficiency of >85%.

5 Year Warranty
The NT10 is available with a 5 Year Warranty.

High Performance Design

Technical Data

Power:	9.6W			
Lumen Output (lm):	3000K:-	40° - 620	60° - 612	EL - 607
	4250K:-	40° - 729	60° - 718	EL - 705
Lumen Circuit Watt (lm/w):	3000K:-	40° - 60.3	60° - 60.6	EL - 60.4
	4250K:-	40° - 69.6	60° - 70.4	EL - 70.6
CRI:	70CRI, 80CRI and 90CRI versions available			
Life (L70):	100,000 hours (see LM-80 test data)			
Beam Angle Options:	40°, 60°, and 5 x 2 Elliptical Beam versions (17°, 26°, 38° & 54° version available soon)			
Warranty:	5 Years (subject to product registration - see terms & conditions)			
Fire Rating:	1.5 Hours fire rated version available soon			
Optical Efficency:	84% (Test data - with optics flux = 750lm, without optics flux = 894lm)			
Environmental Rating:	IP65			
Bezel Options:	Chrome, White, Black, Gold, Pewter (other colours on request)			
Power Supply Options:	On/Off + Dimming (see Driver Options overleaf)			

Pending Pending

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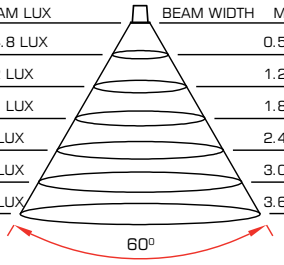
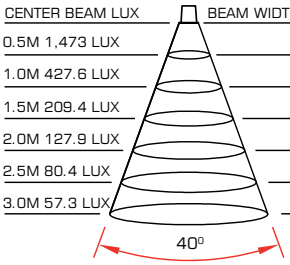
Photometric Data

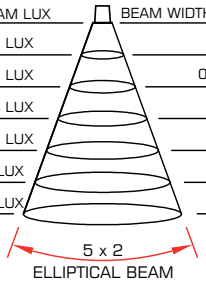
CENTER BEAM LUX	BEAM WIDTH MIN / MAX
0.5M 1,264.8 LUX	0.5M / 0.6M
1.0M 316.2 LUX	1.2M / 1.5M
1.5M 140.5 LUX	1.8M / 2.3M
2.0M 79.0 LUX	2.4M / 3.1M
2.5M 50.6 LUX	3.0M / 3.9M
3.0M 35.1 LUX	3.6M / 4.6M

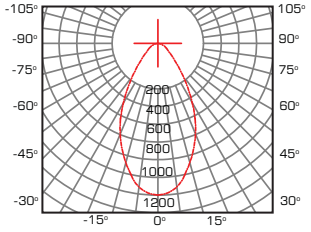


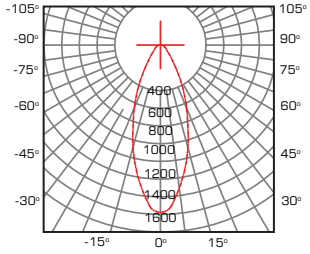
CENTER BEAM LUX	BEAM WIDTH MIN / MAX
0.5M 1,473 LUX	0.37M / 0.5M
1.0M 427.6 LUX	0.65M / 0.8M
1.5M 209.4 LUX	1.2M / 1.45M
2.0M 127.9 LUX	1.8M / 2.15M
2.5M 80.4 LUX	2.4M / 2.7M
3.0M 57.3 LUX	3.0M / 3.4M

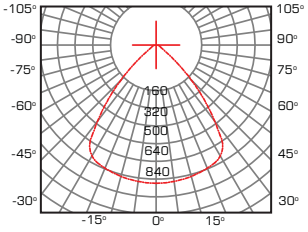


CENTER BEAM LUX	BEAM WIDTH MIN / MAX
0.5M 1,293 LUX	0.5M / 0.7M
1.0M 302.1 LUX	0.65M / 1.6M
1.5M 187.4 LUX	1.2M / 2.75M
2.0M 103.1 LUX	1.8M / 3.45M
2.5M 60.7 LUX	2.4M / 4.35M
3.0M 27.1 LUX	3.0M / 4.95M

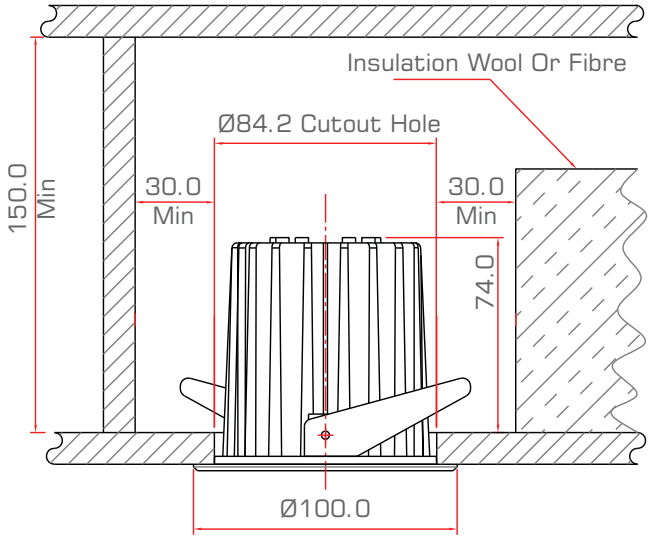


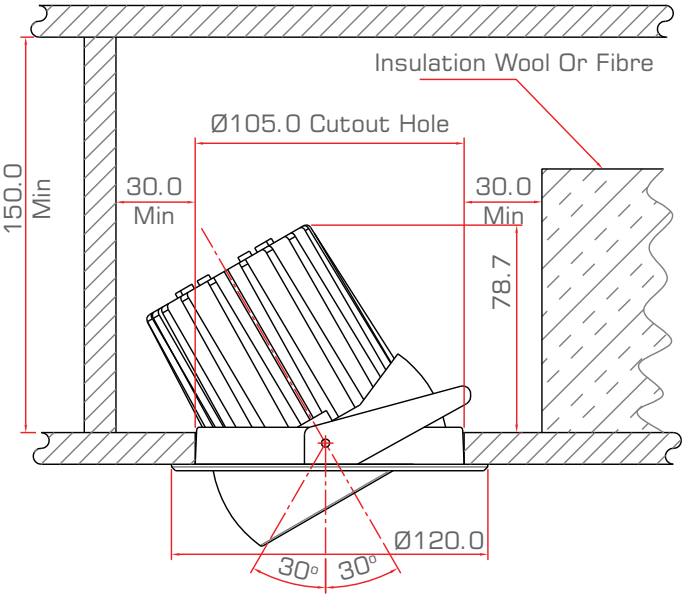






Dimensions





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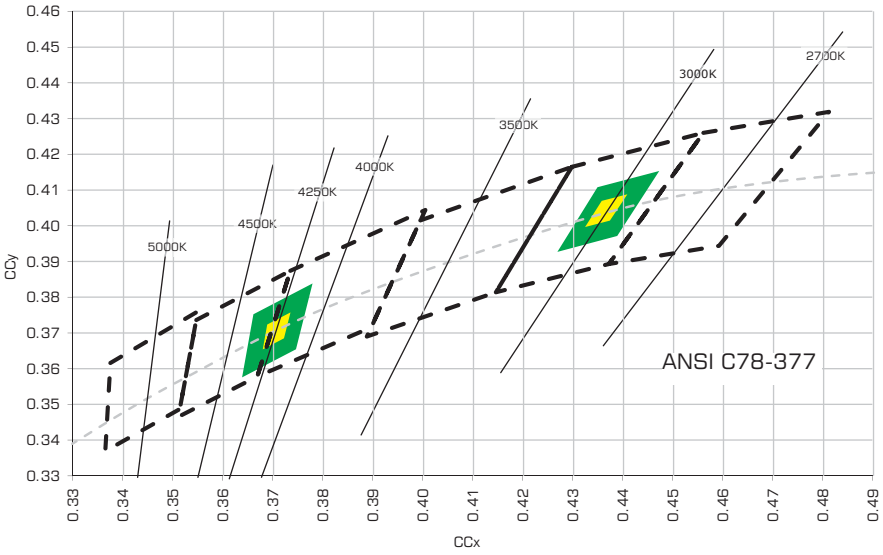
LED Specification

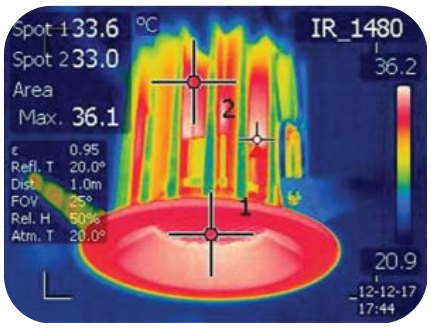


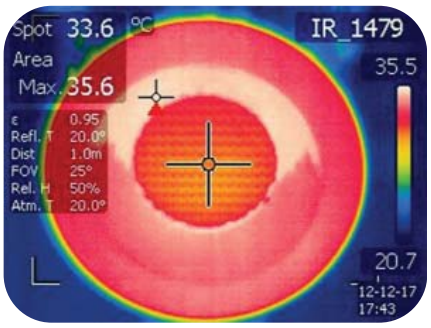
LED Evolution follows the ANSI recommendation that lamp manufacturers select LEDs from within a 4 step ellipse of any correlated colour temperature (CCT) target point.

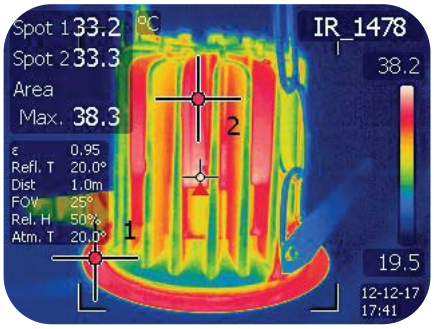
LEDs are selected within 4 bins of the target CCT point on the chart (left) in standard manufacturing. A special manufacturing option selected from 4 sub-bins (representing a 2 step ellipse variation) is also available.

All LEDs used in manufacturing are logged against the product serial numbers for traceability.

Thermal Efficiency and Lifetime







The primary influencing factor prevailing negatively upon LED life and efficiency is high temperature. The NT10 has been designed to operate with a junction temperature of less than 60°C and the excellent thermal efficiency of its heat-sink design extracts and dissipates this heat in a highly efficient manner.

The NT10 has been independently tested in accordance with LM-80 indicating a measured Tsp of 56°C and a reported L70 of 66,300 hours (limited by the 6x rule as defined in TM-21). The projected L70 at 23°C ambient is 427,000 hours. As a consequence, LED Evolution specify an L70 of 100,000 hours under normal conditions and 60,000 hours under extreme temperature conditions.

NT10 LED Downlight

Options & Ordering

NT10 - 300 - W - 40 - F - 7

300	
3000K Warm White	300
4250K Natural White	425

W	
White Bezel	W
Chrome Bezel	C
Black Bezel	B
Gold Bezel	G
Nickel Bezel	N
Brass Bezel	X

40	
40	40° Beam Angle
60	60° Beam Angle
EL	5 x 2 Elliptical Beam Angle (Fixed Head version only)

F	
F	Fixed Head
S	Swivel Head

7	
7	70+CRI
8	80+CRI
9	90+CRI

Driver Options & Ordering

A range of 196V-265V driver options are available with instant start-up and illumination.

- Power Factor Correction >0.9, efficiency >85%
- On/Off
- Dimmable (Triac Phase)
- Dimmable (1 -10 Volt Analogue)
- Dimmable (DALI)
- IP20

PSU10 - 750 - OFF

750	
700mA Current (Iav)	750

OFF	
On/Off Version	OFF
Phase Dimming Version	PHASE
1-10V Dimming Version	TEN
DALI Dimming Version	DALI

Your Local Supplier

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