NAUTILUS

- A versatile downlight, delivering a stylish aesthetic for indoor spaces
- Deep recess and front trim minimises glare and provides optical comfort
- Highly-energy efficient illumination
- Tri-CCT selectable, allowing for customisation of colour temperature between 3000K, 4000K and 5700K
- Integral phase cut dimmable driver for lighting control
- High quality aluminium body and PMMA lens for durability
- Ideal for modern residential and commercial applications such as hotels, offices, retail and front-of-house areas

ORDERING INFORMATION

Order code	16600
Description	15W LED surface mount dimmable downlight - Tri-CCT - White
Driver Type	Dimmable (Phase cut)
Item Code	EV-NAUTILUS-CORE-15W-TRI-38D-W-PD

EFFICIENCIES

Total System Efficiency	108 lm/W

The performance of each component of a luminaire is demonstrated through its efficiencies, which together determine the total system efficiency of the product. The output of the LED chip is first multiplied by the optical and thermal efficiencies to calculate the Luminaire efficiency. However, this calculation does not consider the driver efficiency. To determine the overall efficiency of the system, the Luminaire efficiency must be multiplied by the driver efficiency, which accounts for all losses in the system.

MECHANICAL

Adjustability	Fixed
Body Material	Aluminium
Diffuser Material	PMMA
Fitting Colour	White
Installation Type	Surface mount
IP Rating	IP20

ELECTRICAL

Electrical Rating	Class I
Input Current	0.07 A
Input Frequency	50 Hz
Input voltage	230Vac

In Australia the Input voltage is defined as 230Vac -6%/+10%. This effectively means that the voltage range of these products are 216Vac - 253Vac or 240V +6%

Maximum Wattage	15 W
Working Temp Range	-20 to 40 °C

LAMP

Macadam Steps (SDCM)	5-step MacAdam Ellipse
Beam Angle	38 °
CCT Configuration	TRI-CCT
Colour Rendering Index (CRI)	>80
Light Output Ratio (LOR)	96 %
UGR	<22

LED LIFETIME

LED Lifetime	>54000 hrs

This is the Reported LED Lifetime in Hours based on TM-21. Atom does not list the projected or calculated LED lifetime, which is normally longer as TM-21 Addendum B explicitly states "The Calculated and Projected Lp(Dk) are not to be reported". This Lifetime refers to the life of a single LED however the system life is longer since the probability and binomial distribution of all LEDs in the system means that the average led is performing above the specification and compensates for the LEDs falling below.

Ambient Temp (°C)	25 °C	40 °C

L90B10	39000 hrs	36000 hrs

This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the proceeding number gives the resultant lumen output at the end of it reported lifetime. L70, would mean 30% lumen depreciation which means 70% of its initial output and is tested accordingly to TM-21. The B part refers to failures, which can be define as the percentage of LEDs which fall below the L value in the projected lifetime. A value of B10 refers to 10% failure and a value of B50 refers to 50% failure. After the defined lifetime, the system will reach the defined lumen depreciation and the average led failures is defined by the B rating. The B rating is defined in and tested to IEC62717.

TM-21 Test Hours	9000 hrs

COLOUR TEMPERATURE

Warm White (3000 K)	1460 lm
Cool White (4000 K)	1620 lm
DayLight (5700 K)	1480 lm

DRIVER

Dimmable	Yes
Driver Included	Yes
Integrated Driver	Yes
Driver Type	Dimmable (Phase cut)
Wiring Type	Re-wireable terminal block (3 pin)

COMPLIANCE

Product Design Life	6 years

The product design life relates to the total product life which includes LEDs, drivers and the enclosure. This is different to the LED lifetime which only refers to the economical lifetime of the LEDs at which time the lumen output has dropped below the L Value. The product design life is calculated at the maximum ambient or working temperature of the product and takes into account the Daily Use.

Daily Use	16 hrs

The Daily Use is the recommended time required to meet the product's design life. Installations can exceed this time, however the product design life will be reduced proportionally.

Standards	AS/NZS 60598.1 AS/NZS 60598.2.1 AS/NZS 61347.1 AS/NZS 61347.2.13 AS CISPR 15

WARRANTY

Commercial Use Warranty	5 RTB (Total 5 Years)
VIP Warranty	2 Onsite, 3 RTB (Total 5 Years)

VIP warranty is available to registered users and is subjected to additional terms and conditions.

Warranty Operating Hours	30000 hrs

This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

DIMENSIONS

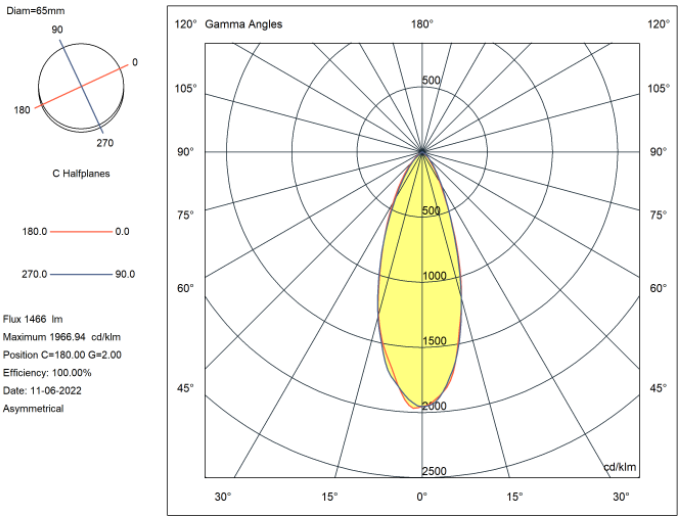
Product Diameter	85 mm
Product Height	178 mm

LINE DRAWINGS

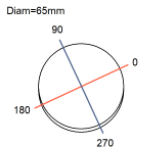
EV/NAUTILUS/CORE/15W/TRI/38D/PD

PHOTOMETRICS

EV/NAUTILUS/CORE/15W/TRI/38D/W/PD/3000K



EV/NAUTILUS/CORE/15W/TRI/38D/W/PD/5700K

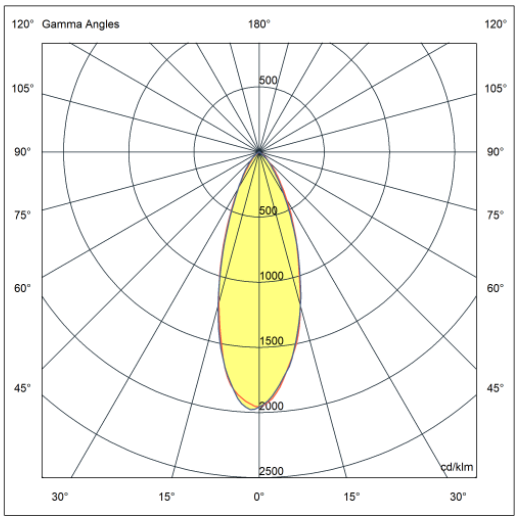


C Halfplanes

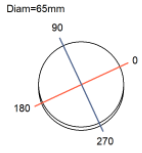
180.0 — 0.0

270.0 — 90.0

Flux 1481 lm
Maximum 1977.18 cd/klm
Position C=270.00 G=2.00
Efficiency: 100.00%
Date: 11-06-2022
Asymmetrical



EV/NAUTILUS/CORE/15W/TRI/38D/W/PD/4000K



C Halfplanes

180.0 — 0.0

270.0 — 90.0

Flux 1623 lm
Maximum 1961.65 cd/klm
Position C=225.00 G=1.00
Efficiency: 100.00%
Date: 11-06-2022
Asymmetrical