

AT9039

8W LED Downlight With Dimmable Integral Driver -

Tri Colour

- Built-in Driver
- Ideal for Residential, retail, showroom and decorative
- IC-4 Rated - According to AS/NZS605982.2:2016
- Seamless Look



ORDERING INFORMATION

Order code	14536
Description	8W LED Downlight Dimmable - 90deg - w/F&P - White - Recessed Lens - Tri Colour
Driver Type	Dimmable (Phase cut)
Item Code	AT9039/WH/TRI

EFFICIENCIES

Total System Efficiency 105 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	Plastic
Product Finish	Matt
Fitting Colour	White
IC Rating	IC-4
IC-4 rating has been conducted at the products maximum working Temperature Range (C) in line with Australian standards. This provides the required safety when covered with insulation and used in Australian Environments.	
Installation Type	Recessed
IP Rating	IP44 Front Face Only

ELECTRICAL

Electrical Rating	Class II
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	8 W
Switch Type	Inline
Working Temp Range	0 to 40 °C

LAMP

Macadam Steps (SDCM)	5-step MacAdam Ellipse
Beam Angle	90 °
CCT Configuration	TRI-CCT
Colour Rendering Index (CRI)	>80
LED Type	Diffused
Number of Lamps	1

LED LIFETIME

LED Lifetime	60000 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.	
LED Lifetime Rating	L70B10 (10k)

Ambient Temp (°C)	25 °C	40 °C
L90B10	38000 hrs	38000 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	10000 hrs
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COLOUR TEMPERATURE

Warm White (3000 K)	750 lm
Cool White (4000 K)	870 lm
DayLight (5700 K)	840 lm

DRIVER

Dimmable	Yes
Driver Included	Yes
Integrated Driver	Yes
Driver Type	Dimmable (Phase cut)
Wiring Type	Non rewireable Flex & Plug

COMPLIANCE

Product Design Life	10 years
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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.

Standards	AS/NZS 60598.1 AS/NZS 60598.2.2 AS/NZS 61347.1 AS/NZS 61347.2.13 AS CISPR 15
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WARRANTY

Domestic Use Warranty	3 RTB (Total 3 Years)
Operational Lifetime	30000 hrs
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	13000 hrs
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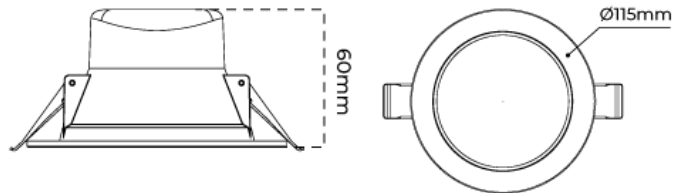
This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

DIMENSIONS

Cutout	90 mm
Product Diameter	115 mm
Product Height	60 mm

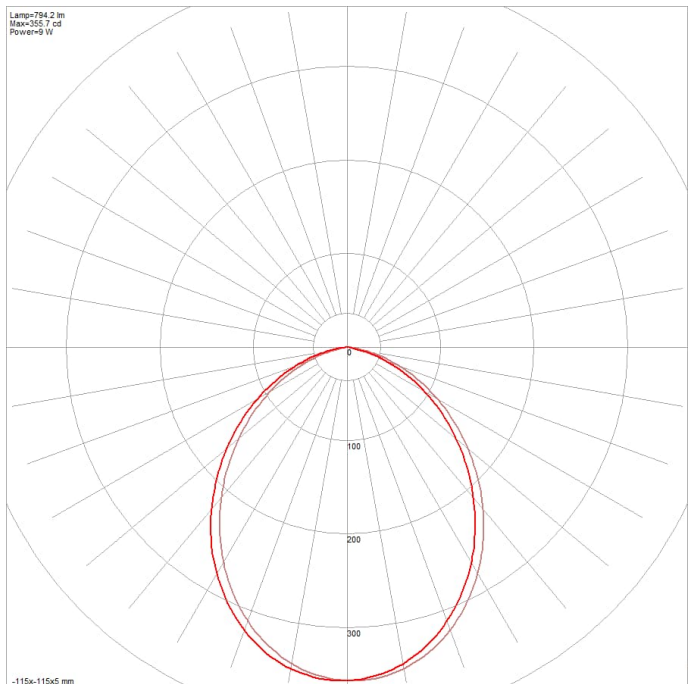
LINE DRAWINGS

AT9039/TRI

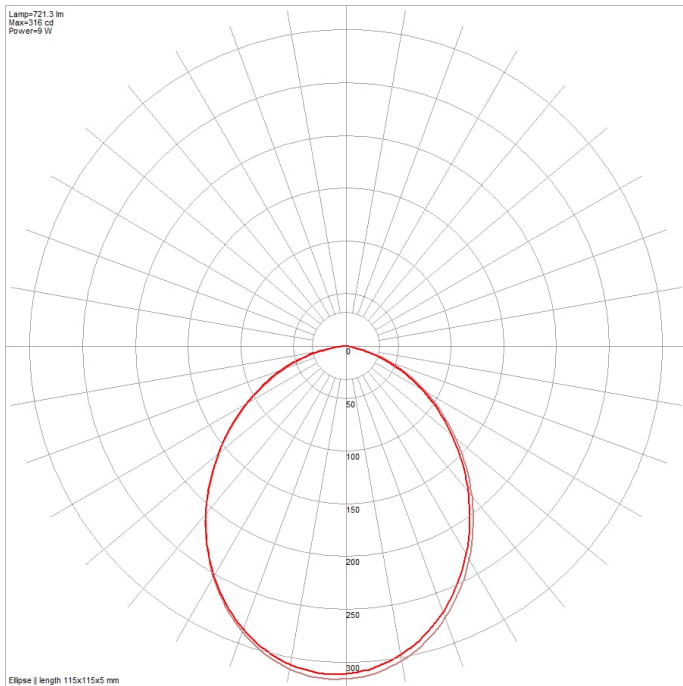


PHOTOMETRICS

AT9039/WH/DL



AT9039/WH/CW



ACCESSORIES

Order code	12405
Description	Brushed Chrome trim to suit AT9039
Item Code	AT9039/BC/RING
Order code	16756
Description	Matt Black trim to suit AT9039 Recessed
Item Code	AT9039/BLK/RING

AT9039/WH/WW

