

AT9039

8W LED downlight with dimmable integrated driver -

Tri-CCT

- 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	14537
Description	8W LED Downlight Dimmable - 90deg - w/F&P - White - Flush Lens - Tri Colour
Driver Type	Dimmable (Phase cut)
Item Code	AT9039/WH/F/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

IP Rating	IP44 Front Face Only
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.	
Adjustability	Fixed
Fitting Colour	White
Product Finish	Matt
Body Material	Plastic
Installation Type	Recessed

ELECTRICAL

Working Temp Range	0 to 40 °C
Input Frequency	50 Hz
Switch Type	Inline
Maximum Wattage	8 W
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%	

LAMP

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

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 L _p (D _k) 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

COLOUR TEMPERATURE

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

DRIVER

Driver Type	Dimmable (Phase cut)
Driver Included	Yes
Integrated Driver	Yes
Dimmable	Yes
Wiring Type	Non rewirable 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

VIP Warranty	2 Onsite, 3 RTB (Total 5 Years)
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VIP warranty is available to registered users and is subjected to additional terms and conditions.

Operational Lifetime	30000 hrs
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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).

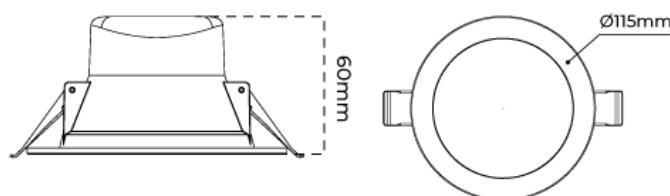
Domestic Use Warranty	3 RTB (Total 3 Years)
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DIMENSIONS

Product Height	60 mm
Cutout	90 mm
Product Diameter	115 mm

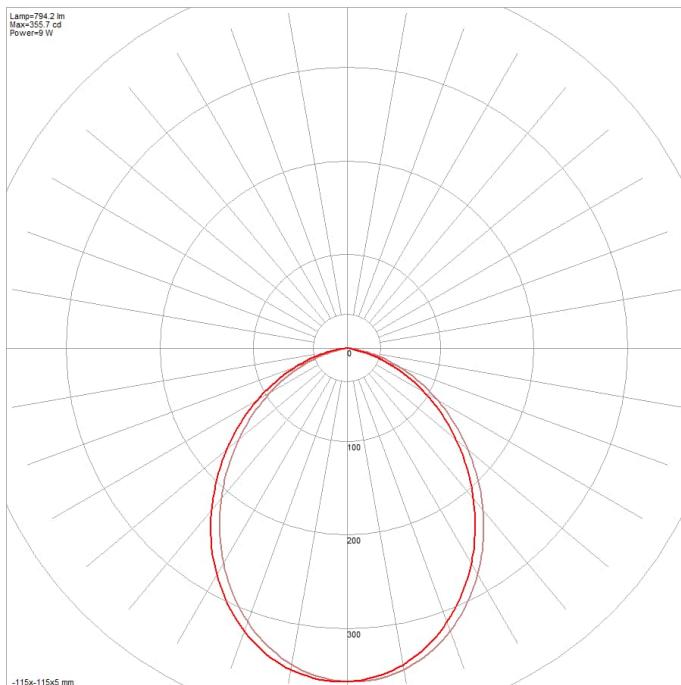
LINE DRAWINGS

AT9039/F/TRI

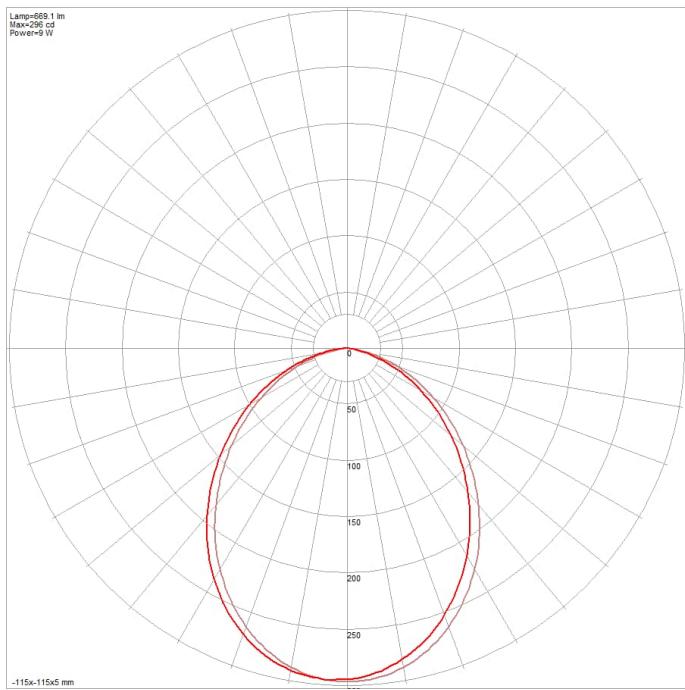


PHOTOMETRICS

AT9039/WH/DL



AT9039/WH/WW



ACCESSORIES

Order code	11096
Description	Brushed Chrome trim to suit AT9039 Flush
Item Code	AT9039/BC/F/RING
Order code	16745
Description	Matt Black trim to suit AT9039 Flush
Item Code	AT9039/BLK/F/RING

AT9039/WH/CW

