

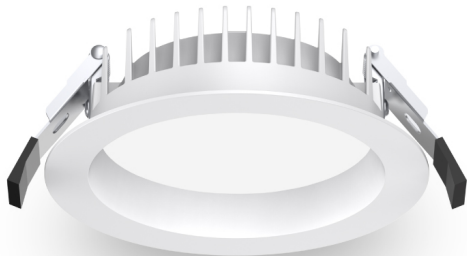


AT9045 /6 /7 /8 TRI

12 - 35W Commercial LED downlight with dimmable

driver - Tri-colour

- High efficient LED array
- Ideal for residential and commercial applications
- Recessed diffuser design
- Phase-cut dimmable
- Tri-CCT selectable



ORDERING INFORMATION

Order code	12789
Description	12W LED downlight with dimmable driver - Tri-CCT - White
Driver Type	Dimmable (Phase cut)
Item Code	AT9045/WH/TRI

EFFICIENCIES

Total System Efficiency 118 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
Product Finish	Powdercoated
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	IP54 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	12 W
Switch Type	Inline
Working Temp Range	-20 to 40 °C

LAMP

Macadam Steps (SDCM)	5-step MacAdam Ellipse
Beam Angle	90 °
CCT Configuration	TRI-CCT
Colour Rendering Index (CRI)	>80
Lamp/LED Current	300 mA
Lamp/LED voltage	36 V

LED LIFETIME

LED Lifetime	>54,000 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.	
TM-21 Test Hours	9000 hrs



COLOUR TEMPERATURE

Warm White (3000 K)	1330 lm
Cool White (4000 K)	1420 lm
DayLight (5700 K)	1410 lm

DRIVER

Dimmable	Yes
Driver Included	Yes
Integrated Driver	No
Driver Mode	Constant Current
Driver Type	Dimmable (Phase cut)
Flex & Plug or Lead Length	600 mm
Wiring Type	Re-wireable Flex & Plug (2 pin)

ENERGY SAVINGS SCHEME

Ipart Approval	Yes
REES Approval	Yes
VEU Approval	Yes

COMPLIANCE

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

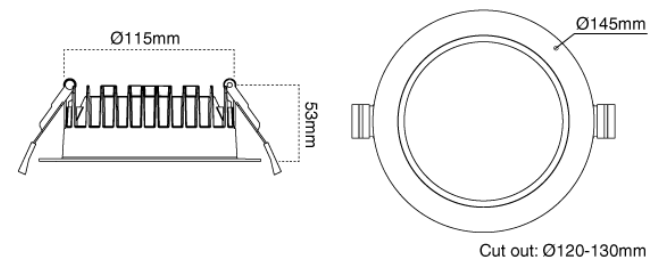
VIP warranty is available to registered users and is subjected to additional terms and conditions.

DIMENSIONS

Cutout	120-130 mm
Product Diameter	145 mm
Product Height	55 mm

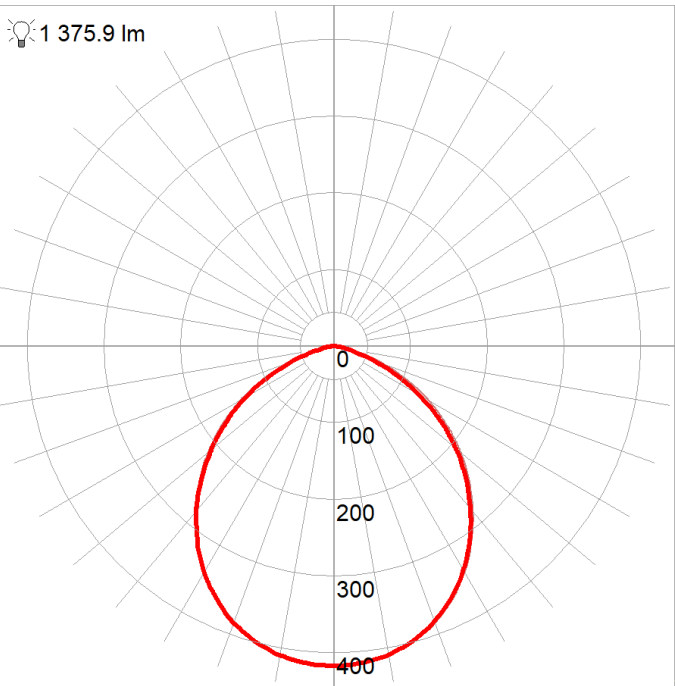
LINE DRAWINGS

AT9045/WH/TRI

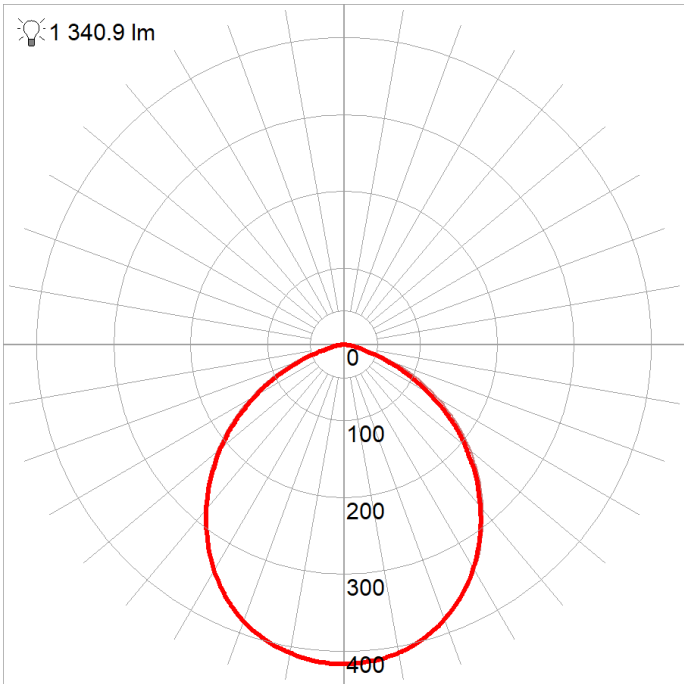


PHOTOMETRICS

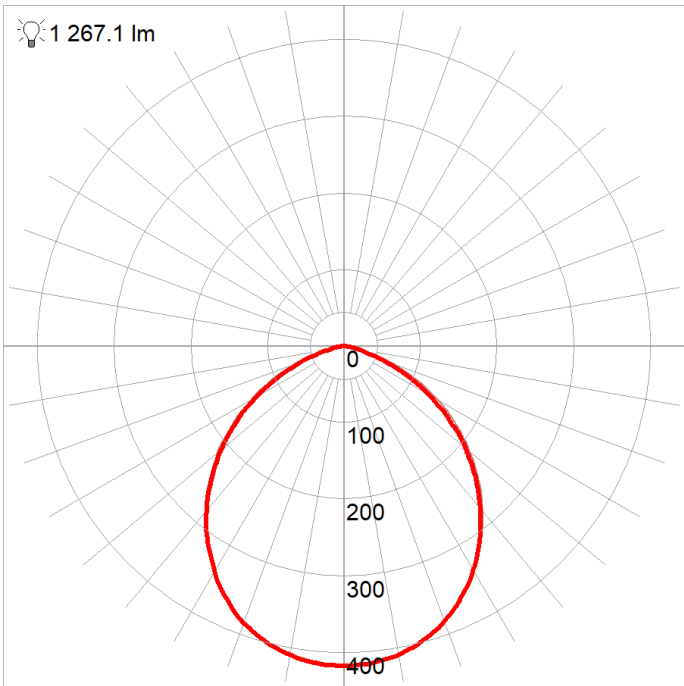
AT9045/WH/TRI/4000K



AT9045/WH/TRI/5700K



AT9045/WH/TRI/3000K



Recommended Drivers

Order code	Item Code	Description
14928	DKI-0AABBHZX00030	Driver Kit - Wireless DALI+ LED driver with 1.2m 2 core flex and plug - set to 300mA
14910	DKI-0AADADZX00030	Driver Kit - DALI-2 LED driver with 1.2m 2 core flex and plug and 2 core flying lead - set to 300mA