

AT6021

LED Backlit Panel, Low Glare

- Easy-to-install flex and plug
- LED driver included
- Low-glare polycarbonate diffuser
- Long LED lifetime >60,000h L80B10
- Can be upgraded with phase-cut dimmable driver (not included)
- Can be upgraded with DALI-2 dimmable driver (not included)



ORDERING INFORMATION

Order code	13110
Description	20W LED Backlit panel 300 x 600 - Cool white
Driver Power	20 W
Driver Type	Fixed output
Item Code	AT6021/306/CW

EFFICIENCIES

Total System Efficiency 97 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	Steel
Diffuser Material	Polycarbonate
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	IP40
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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	18 W
Power Factor	0.9
Switch Type	Inline
Working Temp Range	-10 to 40 °C

LAMP

Macadam Steps (SDCM)	3-step MacAdam Ellipse
Beam Angle	90 °
CCT Configuration	Single
Colour Rendering Index (CRI)	>80
Lamp/LED Current	450 mA
Lamp/LED voltage	36 V
Number of Lamps	1
UGR	<19



LED LIFETIME

LED Lifetime	>60,000 hrs
<p>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.</p>	

Ambient Temp (°C)	25 °C	40 °C
L90B10	52000 hrs	47000 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 70% lumen depreciation which means 30% 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

CCT	4000 K
CCT Colour	Cool White
Luminaire Lumens	1750 lm

All photometric data has a tolerance of ±10%. Luminaire lumens refers to the exit lumens or delivered lumens from the luminaire.

DRIVER

Dimmable	No
Driver Included	Yes
Integrated Driver	No
Driver Mode	Constant Current
Driver Type	Fixed output
Flex & Plug or Lead Length	900 mm
Wiring Type	Re-wireable Flex & Plug (2 pin)

ENERGY SAVINGS SCHEME

Ipart Approval	Yes
REES Approval	Yes
VEU Approval	Yes

COMPLIANCE

Product Design Life	10 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	12 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 60598.2.2 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	50000 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	15000 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).	

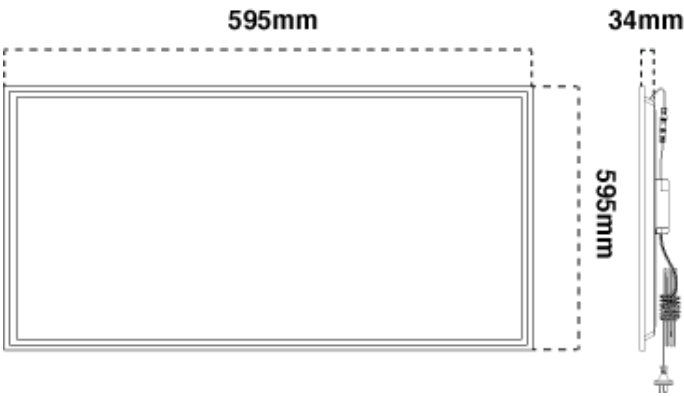
DIMENSIONS

Product Height	34 mm
Product Length	595 mm
Product Width	295 mm

LINE DRAWINGS



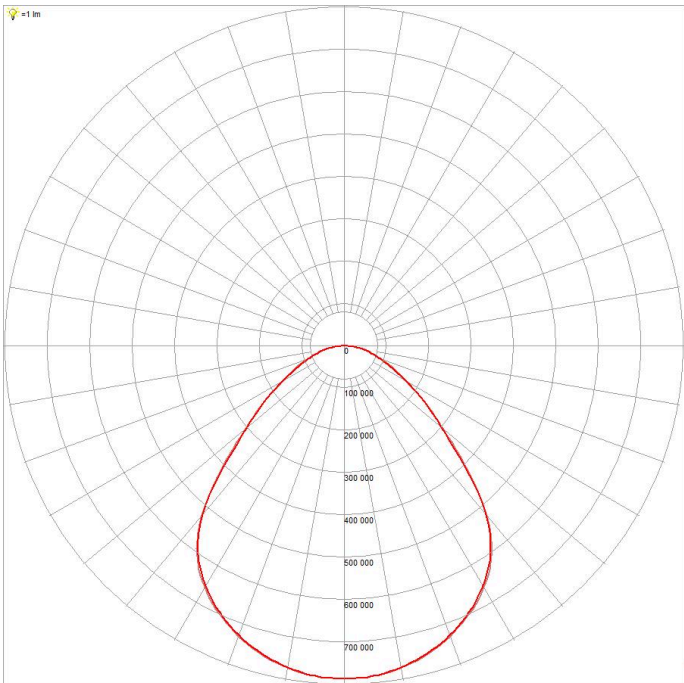
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Order code	11315
Description	1m Panel Suspension Cable Kit - 4x Striaight 1m Droppers
Item Code	AT9057

PHOTOMETRICS

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ACCESSORIES

Order code	10258
Description	Plaster Recessed Frame 300x600 WHITE to suit panels (PRE-ASSEMBLED)
Item Code	AT9053/PRF/WH



Recommended Drivers

Order code	Item Code	Description
14931	DK1-0AABHZX00045	Driver Kit - Wireless DALI+ LED driver with 1.2m 2 core flex and plug - set to 450mA
14913	DK1-0AADADZX00045	Driver Kit - DALI-2 LED driver with 1.2m 2 core flex and plug and 2 core flying lead - set to 450mA
14949	DK1-0AAJADZX00045	Driver Kit - DALI-2 LED driver with 2.4m CMS lead - set to 450mA
14967	DK1-0AAKADZX00045	Driver Kit - DALI-2 LED driver with 2.4m Wire-By-Click (WBC) lead - set to 450mA