AT6023

AT6023/612/TRI

LED Backlit Panel, Tri-CCT

Features

- Easy-to-install flex and plug
- LED driver included
- Tri-Colour
- 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	12199
Description	60W LED Backlit panel 600 x 1200 - TRI-CCT - SER II
Driver Power	60 W
Driver Type	Fixed output
Item Code	AT6023/612/TRI

MECHANICAL

Adjustability	Fixed
Body Material	Aluminium AL6063
Diffuser Material	Polystyrene
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

ELECTRICAL

Electrical Rating	Class II
Input Current	0.34 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	60 W
Power Factor	0.9
Switch Type	Inline
Working Temp Range	-10 to 40 °C

LAMP

Macadam Steps (SDCM)	6-step MacAdam Ellipse
CCT Configuration	TRI-CCT
CRI	>80
Lamp/LED Current	1500 mA
Lamp/LED voltage	36 V
UGR	<22

LED LIFETIME

LED Lifetime	>60,000 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.

Ambient Temp (°C)	25 °C	40 °C
L90B10	52000 hrs	52000 hrs
L80B10	>60000 hrs	>60000 hrs
L70B10	>60000 hrs	>60000 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

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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

54 Watts	
Warm White (3000 K)	6060 lm
Cool White (4000 K)	6470 lm
DayLight (5700 K)	6070 lm

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

WARRANTY

Commercial Use Warranty	3 RTB (Total 3 Years)
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.

Warranty Operating Hours	15000 hrs

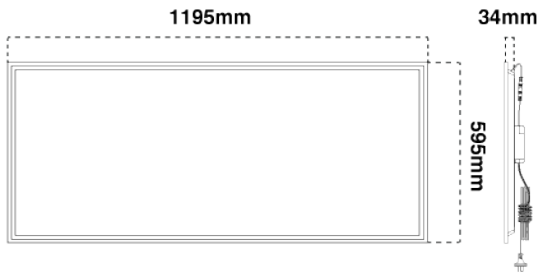
This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

DIMENSIONS

Product Height	32 mm
Product Length	1195 mm
Product Width	595 mm

LINE DRAWINGS

AT6023/612



PHOTOMETRICS

AT6023/612 4000K

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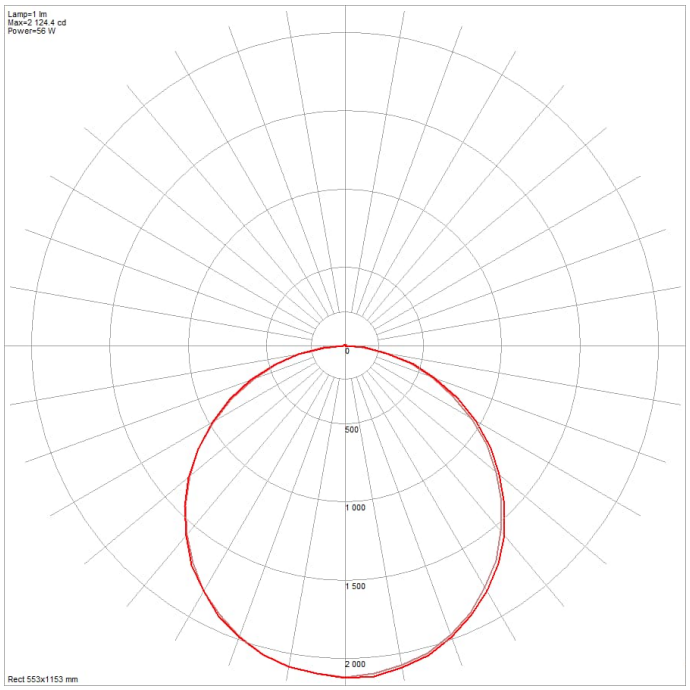
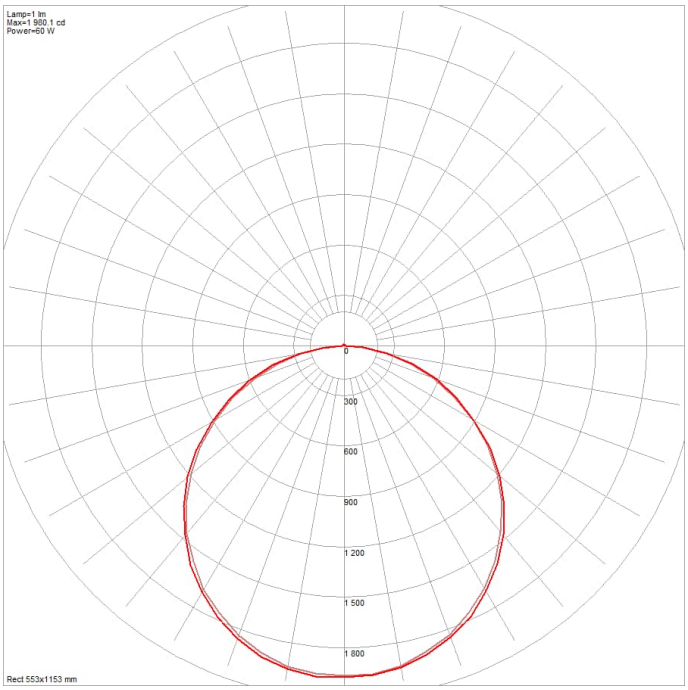


AT6023/612 3000K



AT6023/612 6500K

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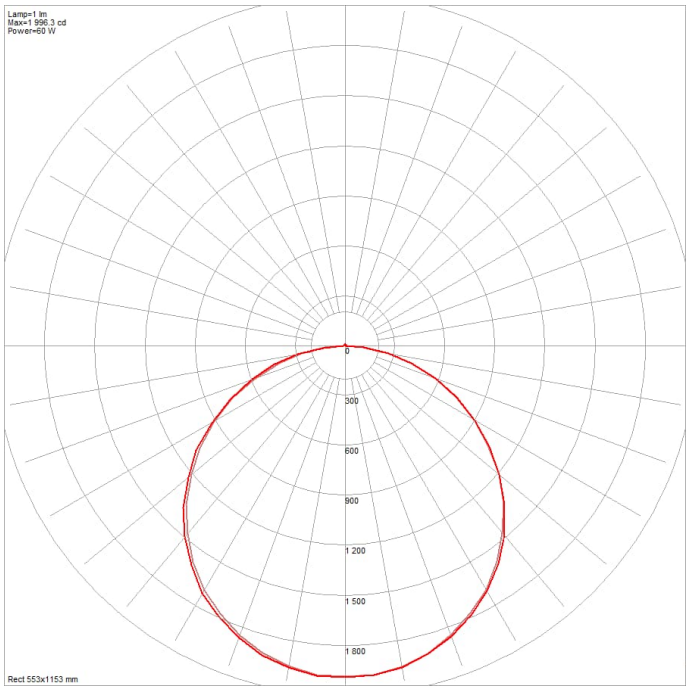

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AT6023

AT6023/606/TRI

LED Backlit Panel, Tri-CCT

Features

- Easy to install
- Large range of mounting accessories

ORDERING INFORMATION

Order code	16956
Description	36W LED Backlit panel 600 x 600 - TRI-CCT
Driver Power	36 W
Driver Type	Fixed output
Item Code	AT6023/606/TRI

MECHANICAL

Adjustability	Fixed
Body Material	Steel
Diffuser Material	Polystyrene
Product Finish	Powdercoated
Fitting Colour	White
IC Rating	Non-IC
Installation Type	Recessed
IP Rating	IP20

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	36 W
Switch Type	Inline
Working Temp Range	-10 to 45 °C

LAMP

Macadam Steps (SDCM)	6-step MacAdam Ellipse
Beam Angle	120 °
CCT Configuration	TRI-CCT
CRI	>80
Number of Lamps	1
UGR	<22

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.

LED Lifetime Rating	L70 B10
TM-21 Test Hours	9000 hrs

COLOUR TEMPERATURE

36 Watts	
Warm White (3000 K)	3385 lm
Cool White (4000 K)	3620 lm
DayLight (6500 K)	3440 lm

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DRIVER

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

COMPLIANCE

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

WARRANTY

Commercial Use Warranty	3 RTB (Total 3 Years)
Domestic Use Warranty	3 (Yr) RTB
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

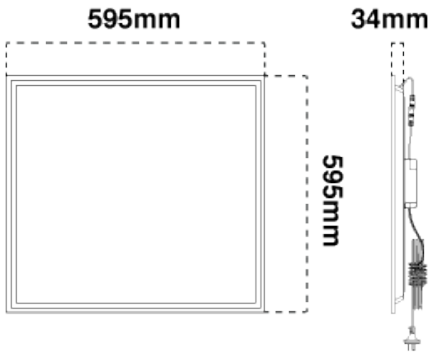
This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

DIMENSIONS

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

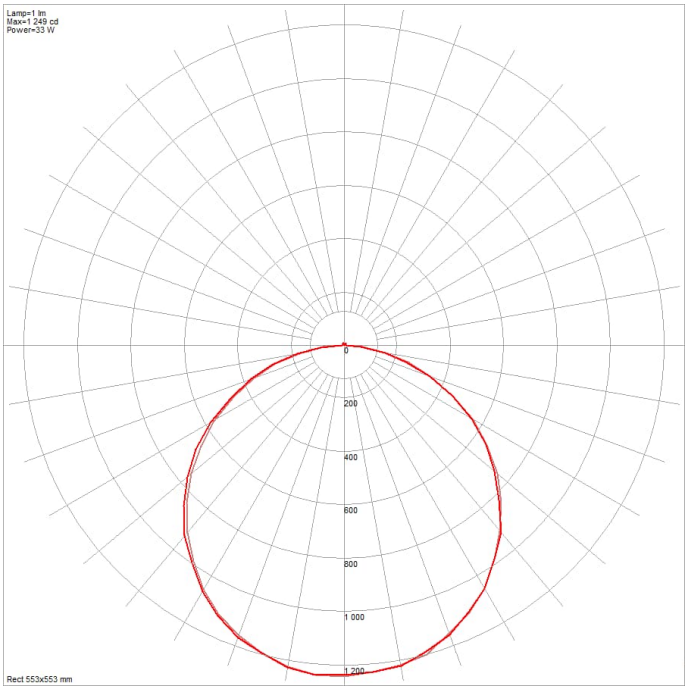
LINE DRAWINGS

AT6023/606



PHOTOMETRICS

AT6023/606 4000K



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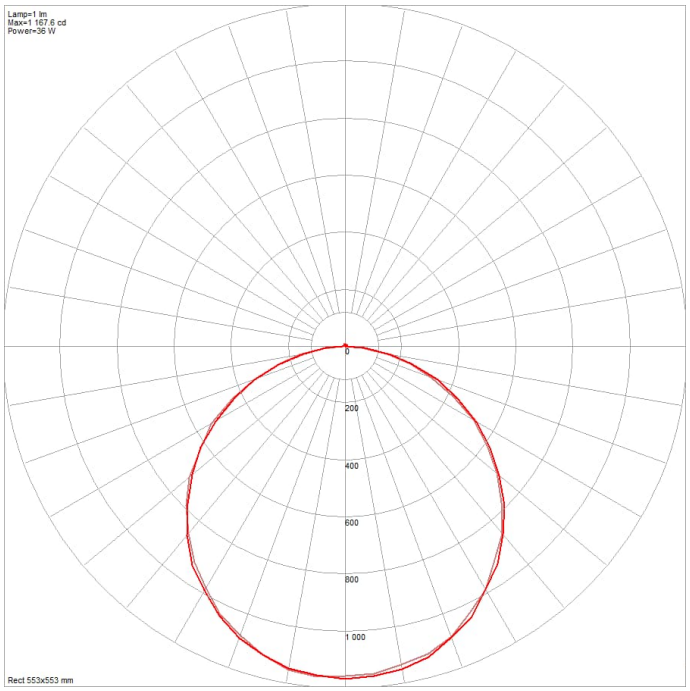
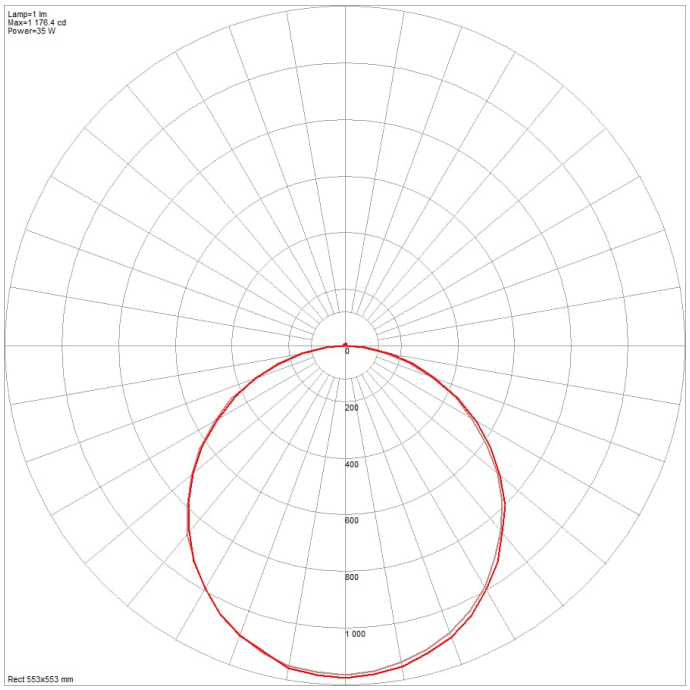
AT6023/606 6500K



AT6023/606 3000K



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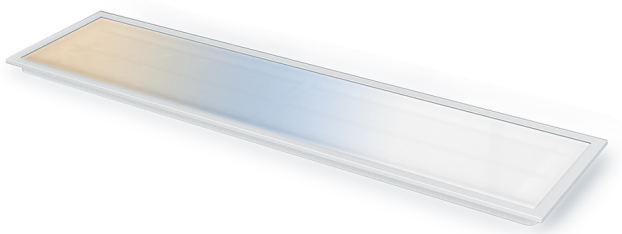
AT6023

AT6023/312/TRI

LED Backlit Panel, Tri-CCT



Features

- Easy-to-install flex and plug
- LED driver included
- Tri-Colour
- 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	12197
Description	36W LED Backlit panel 300 x 1200 - TRI-CCT - SER II
Driver Power	36 W
Driver Type	Fixed output
Item Code	AT6023/312/TRI

MECHANICAL

Adjustability	Fixed
Body Material	Aluminium AL6063
Diffuser Material	Polystyrene
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

ELECTRICAL

Electrical Rating	Class II
Input Current	0.2 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	36 W
Power Factor	0.9
Switch Type	Inline
Working Temp Range	-10 to 40 °C

LAMP

Macadam Steps (SDCM)	6-step MacAdam Ellipse
CCT Configuration	TRI-CCT
CRI	>80
Lamp/LED Current	900 mA
Lamp/LED voltage	36 V
UGR	<22

LED LIFETIME

LED Lifetime	>60,000 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.

Ambient Temp (°C)	25 °C	40 °C
L90B10	52000 hrs	52000 hrs
L80B10	>60000 hrs	>60000 hrs
L70B10	>60000 hrs	>60000 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

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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

32 Watts	
Warm White (3000 K)	3900 lm
Cool White (4000 K)	4000 lm
DayLight (5700 K)	3980 lm

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

WARRANTY

Commercial Use Warranty	3 RTB (Total 3 Years)
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.

Warranty Operating Hours	15000 hrs

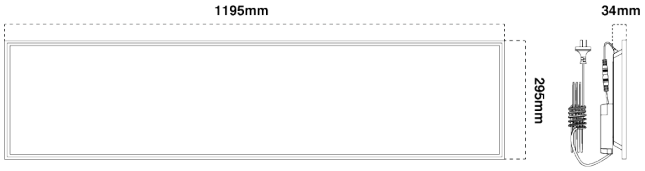
This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

DIMENSIONS

Product Height	32 mm
Product Length	1195 mm
Product Width	295 mm

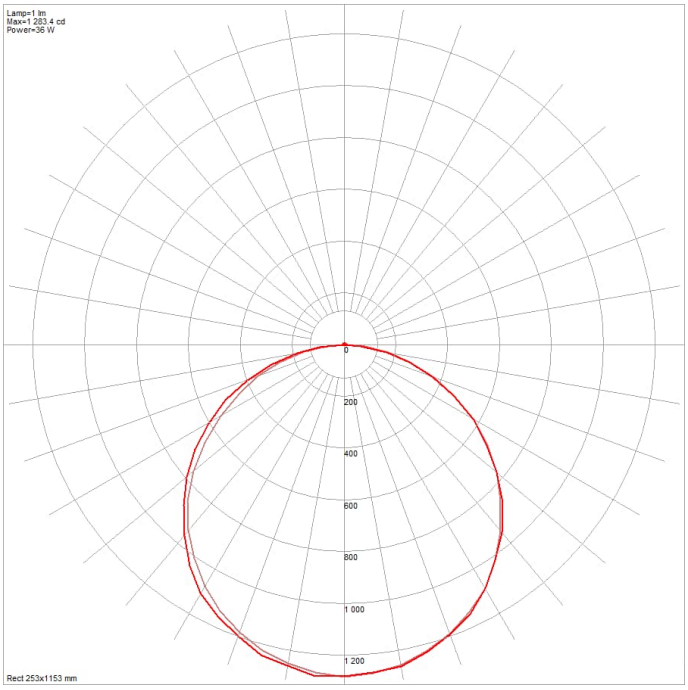
LINE DRAWINGS

AT6023/312



PHOTOMETRICS

AT6023/312 6500K



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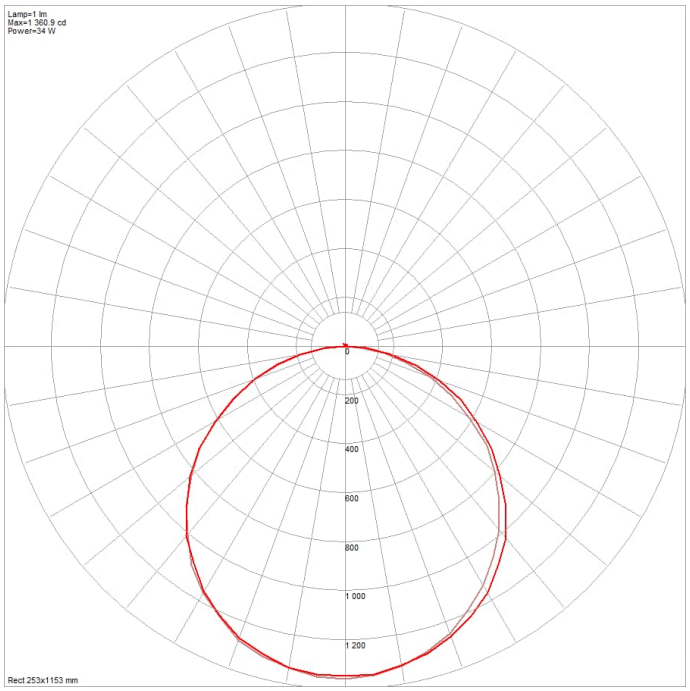
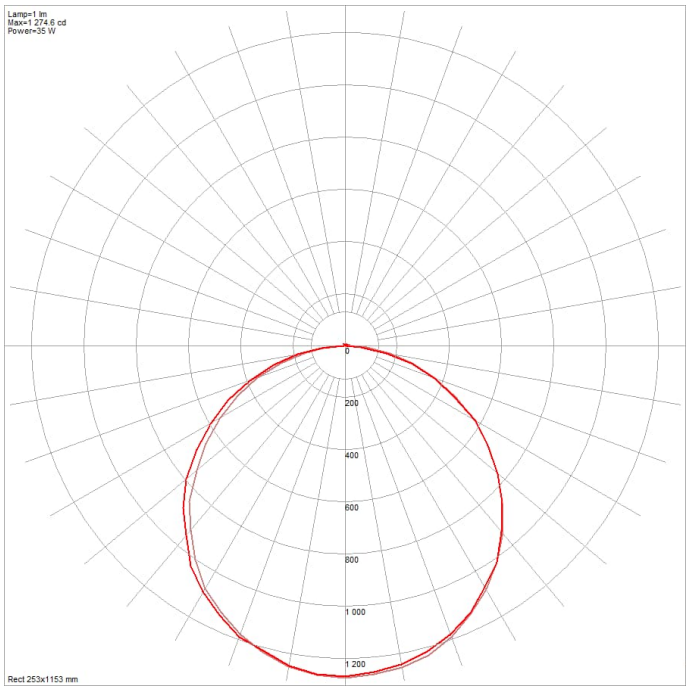
AT6023/312 4000K



AT6023/312 3000K



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AT6023

AT6023/306/TRI

LED Backlit Panel, Tri-CCT

Features

- Easy to install
- Large range of mounting accessories

ORDERING INFORMATION

Order code	16955
Description	18W LED Backlit panel 300 x 600 - TRI-CCT
Driver Power	18 W
Driver Type	Fixed output
Item Code	AT6023/306/TRI

MECHANICAL

Adjustability	Fixed
Body Material	Steel
Diffuser Material	Polystyrene
Product Finish	Powdercoated
Fitting Colour	White
IC Rating	Non-IC
Installation Type	Recessed
IP Rating	IP20

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
Switch Type	Inline
Working Temp Range	-10 to 45 °C

LAMP

Macadam Steps (SDCM)	6-step MacAdam Ellipse
Beam Angle	120 °
CCT Configuration	TRI-CCT
CRI	>80
Number of Lamps	1
UGR	<22

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.

LED Lifetime Rating	L70 B10
TM-21 Test Hours	9000 hrs

COLOUR TEMPERATURE

20 Watts	
Warm White (3000 K)	1930 lm
Cool White (4000 K)	2090 lm
DayLight (6500 K)	1970 lm

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DRIVER

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

COMPLIANCE

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

WARRANTY

Commercial Use Warranty	3 RTB (Total 3 Years)
Domestic Use Warranty	3 (Yr) RTB
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

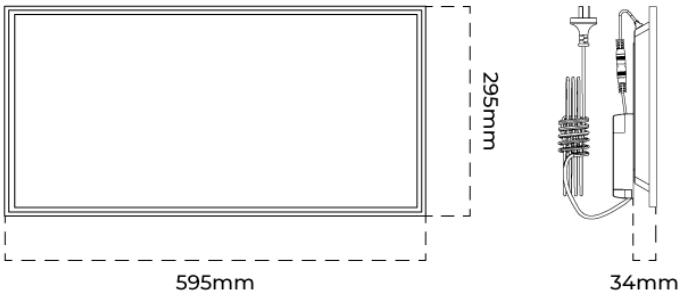
This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

DIMENSIONS

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

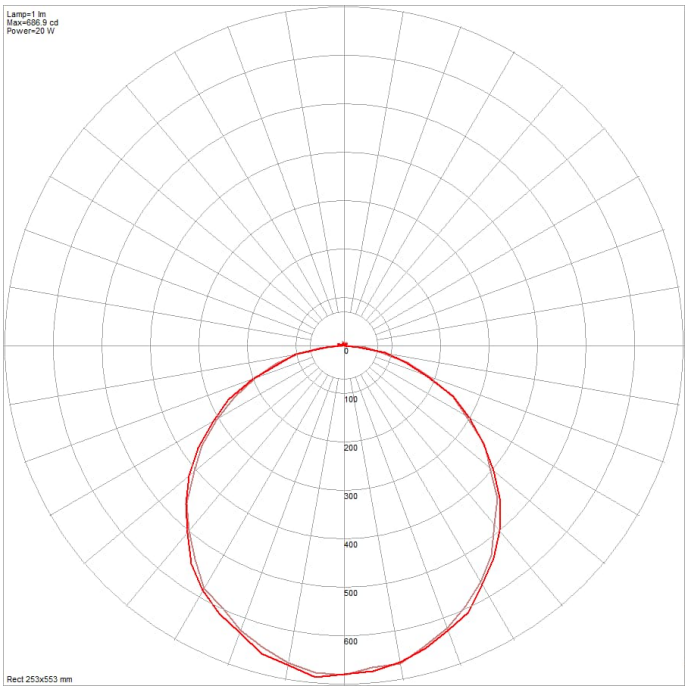
LINE DRAWINGS

AT6023/306



PHOTOMETRICS

AT6023/306 3000K



AT6023/306 4000K

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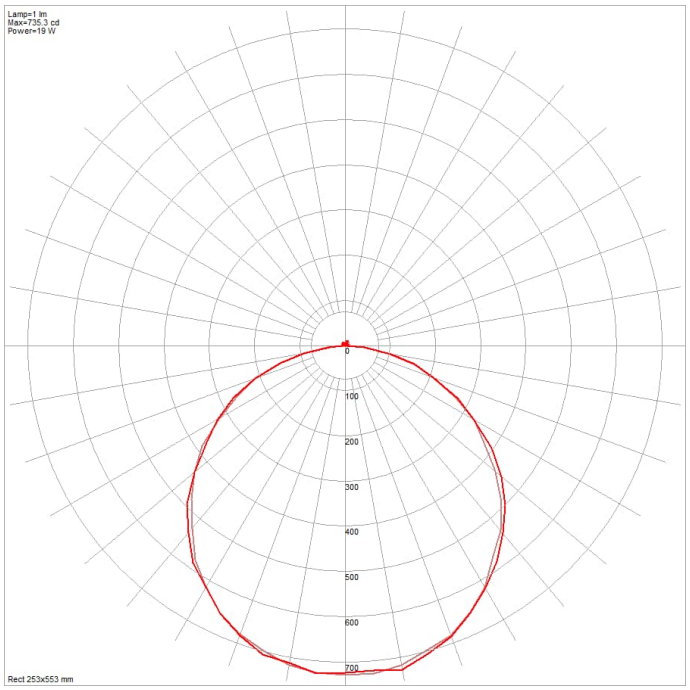
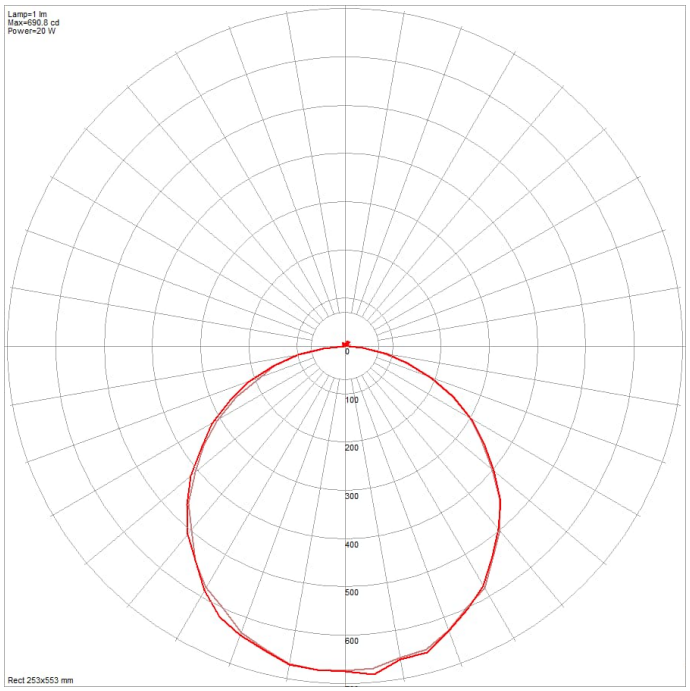


AT6023/306 6500K



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