ATMOS IP20 TP_b RATED LED PANEL LIGHTS

This great quality, TP_b rated, high specification range of panels deliver excellent performance providing substantial energy savings for fast ROI. They replace traditional T8 and T5 lay-in modulars to provide energy efficient, but perhaps more importantly, low-maintenance solutions where constant replacement of fluorescent tubes can be avoided. The Thermoplastic rating of these panels reduce the risk of fire spread within a building.

Applications:

- Offices
- Hospitals & Health Centres
- Shops
- Hotels
- Schools & Colleges
- Receptions
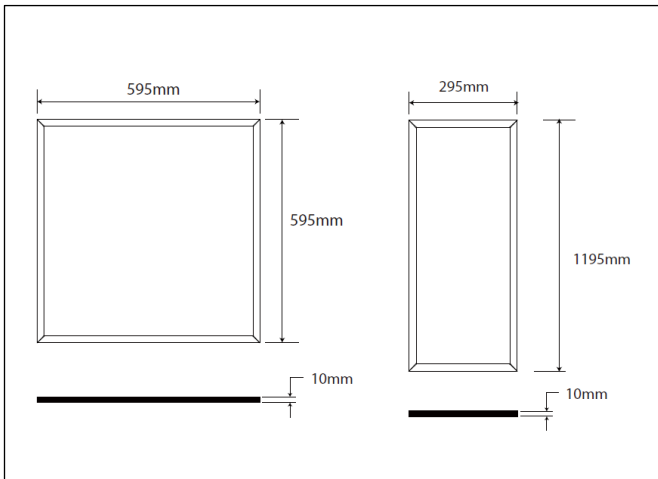- Inspection areas

Construction:

White powder coated aluminium frame
Thermo-plastic diffuser
Steel back plate

Features and Benefits:

- There's a full range of sizes and lumen packages available to provide a solution for most applications and ceiling grid layouts

- They are slim with clean stylish lines with a white powder coat finish aluminium trim which ensures they always look good, are easy to clean and less likely to harbour germs or dirt and match most ceiling tile and grid T-bar colours

- Available in Warm, Neutral or Cool White colour temperature options provides the light colour most suitable for the use of the lit space while providing a common aesthetic throughout. Warm white for a more relaxing breakout area with neutral white for task areas and cool white for more clinical applications

- They utilise high quality SMD LED's tested to IES LM80 and IES TM21 to verify LED and Luminaire rated life, consistent lumen output and colour temperature, low energy consumption and high efficacy

- The fitting therefore provides low maintenance cost with no lamp changes, more light per watt than many similar LED fittings available, comparable light output to T5 so is a one for one replacement and provides compliance with current & future efficacy legislation

- There is a universal DALI, Analogue and SwitchDim driver accessory available to provide functional dimming or greater energy savings through daylight harvesting

- An emergency pack is available which provides high lumen output, almost double that of many competitor fittings, to allow safe traverse and exit of the building on power failure

- A high quality PP thermoplastic diffuser ensures that light transmission is maximised into the lit space and provides a TPb rating to comply with fire regulations in commercial buildings. It also reduces glare allowing the fittings to comply with the UGR required for small offices and corridors

- Utilising solid-state lighting technology with no heat filaments or electrodes, they are less susceptible to failure due to building vibration caused by traffic or hot to cold temperature changes

- "Instant on" and no cool down period means they can be switched by microwave, PIR and/or photocell which provides even greater energy savings when lighting is not required. Short time switching reduces life of traditional light sources

- Advanced driver architecture design provides a low flicker light output to reduce eye discomfort and fatigue and associated headaches or drowsiness for more susceptible people

- To aid mounting, a range of surface mount boxes, recess kits and suspension solutions are available for solid, apex or suspended ceiling applications

- Installation is fast and simple with the use of traditional large terminals providing loop in, loop out functionality to other fittings

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Product Code:	RAM40306060-01	RAM40406060-01	RAM40506060-01	RAM40403012-01
Comparable to:	4x18W	4x18W	4x18W	2x36W
Total Power (W):	38.1	38.3	37.7	37.5
Total Light Output (lm):	3,390	3,800	3,800	3,730
Emergency Mode Light Output (lm):	300	550	550	550
Efficacy (lm / cctW):	89	99	101	100
Rated Life (hrs):	50,000	50,000	50,000	50,000
Warranty (yrs):	5	5	5	5
Illuminance at 1m (lux):	1,070	1,310	1,310	1,290
Emergency Mode Illuminance at 1m(lx):	80	160	160	160
Beam Angle (deg):	110	110	110	110
CCT (K):	3,000	4,000	5,000	4,000
CRI (Ra):	80	80	80	80
Ingress Protection (IP):	20	20	20	20
Impact Rating (IK):	IK05	IK05	IK05	IK05
Operating Temperature (˚C):	−20 ≤ Ta ≤ +40	−20 ≤ Ta ≤ +40	−20 ≤ Ta ≤ +40	−20 ≤ Ta ≤ +40
Power Factor (PF):	0.97	0.97	0.97	0.97
Length (mm):	595	595	595	1,195
Width (mm):	595	595	595	295
Depth (mm):	10	10	10	10
Box Qty:	1	1	1	1
Weight (kg):	2.0	2.0	2.0	2.4

Accessories:

R3EMPK-PSU	PLUG AND PLAY EMERGENCY PACK
HED2040-D	DALI, 1-10V, SWITCHDIM DRIVER
R6060SMKFB-01	600x600MM SURFACE MOUNT BOX
R1230SMKFB-01	300x1200MM SURFACE MOUNT BOX
RAMSUS-4W	4 WIRE SUSPENSION KIT FOR 600x600MM
RAMSUS-3W	3 WIRE SUSPENSION KIT FOR 300x1200MM
RAMSST	SAFETY BRACKET AND 2M STRAP
RAMRC	PLASTER BOARD RECESSED CLIPS KIT

Standards & Approvals:

Complies with: EN 60598-2-1, EN 60598-2-2, EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547, EN 62471, EN 62493, EN 62384
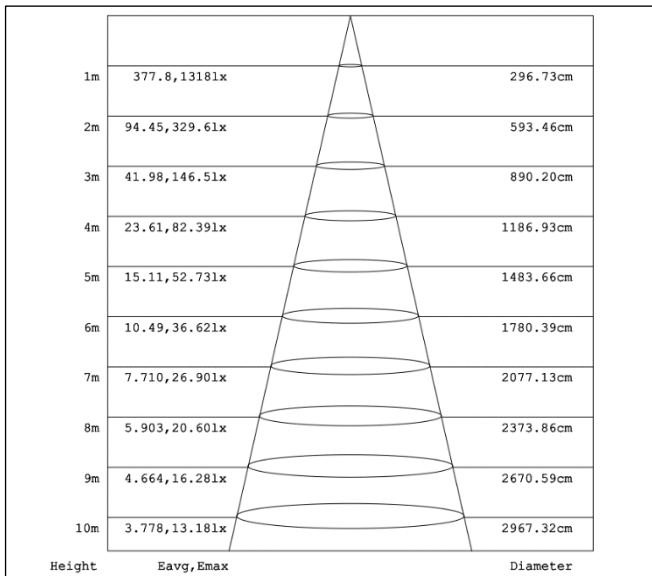
Cone Illuminance Diagram:

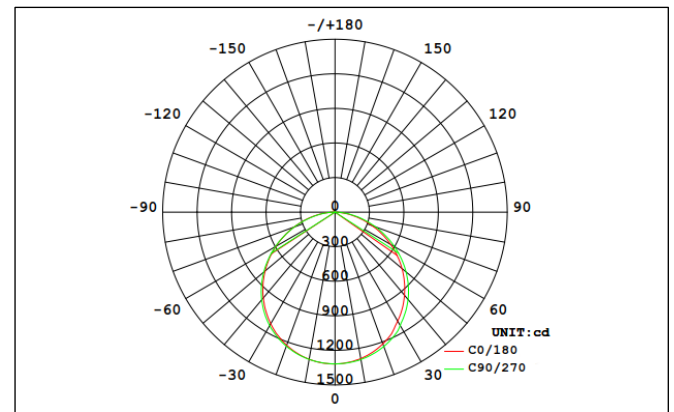| Height	Eavg,Emax	Diameter
1m	377.8,13181x	296.73cm
2m	94.45,329.61x	593.46cm
3m	41.98,146.51x	890.20cm
4m	23.61,82.391x	1186.93cm
5m	15.11,52.731x	1483.66cm
6m	10.49,36.621x	1780.39cm
7m	7.710,26.901x	2077.13cm
8m	5.903,20.601x	2373.86cm
9m	4.664,16.281x	2670.59cm
10m	3.778,13.181x	2967.32cm

Diagram for RAM40406060-01 in 4,000K. Other diagrams available on request

Polar Intensity Diagram:

UNIT:cd
C0/180
C90/270

Diagram for RAM40406060-01 in 4,000K. Other diagrams available on request