ROBUS®

ALEXANDER LED batten, IP20, White, 4000K

The Alexander LED batten provides a premium high-quality lighting solution to replace T5 and T8 traditional single and twin fluorescents. Available in a range of lengths, wattages and lumen packages it provides exceptional efficacy of around 120 luminaire lumens per circuit watt to ensure the Carbon Footprint of the building is minimised whilst reducing costs of maintenance and inconvenience associated with the unreliability of these light sources

Applications:

- Commercial offices and corridors
- Retail shop sales areas and store rooms
- Health centres
- Classrooms
- Workshops
- Garages
- Work stations

Construction:

Description of product construction
White powder coated pressed steel housing
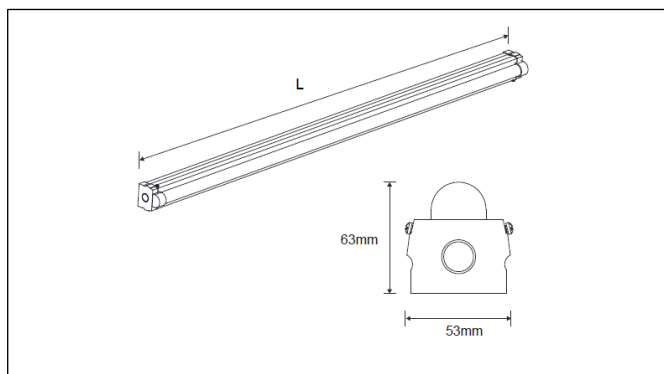Opal polycarbonate diffuser
FR-4 Aluminium laminate PCB

Features:	**Benefits:**
• Complete range of lengths, wattages and lumen packages	• Provides solutions to replace all sizes of T5 and T8 fittings on a one for basis with improved lighting performance and efficiency
• Integral emergency available in all versions ›600mm length	• Provides emergency light outputs greater than most competitors to ensure exit routes are illuminated to a safe level without the need for additional dedicated emergency fittings
• Includes BESA box mounting facility, pre-stamped surface fixing holes and suspension fixing points	• Provides for a number of methods of installation

• White powder coated pressed steel two-part housing with retaining screws and removable nylon supporting straps between them
The base contains the driver and termination area with 4 large terminals
The LED housing section has a 4-pin plug connecting it to the driver supply
	• Strong and durable with an IK08 impact rating
	• Easy open and disassembly of the 2 housing sections provides for fast and simple installation
	  - Allows the base to be quickly and easily mounted
	  - The supply electrical connection to be made. The terminals allow for multiple conductors to accommodate loop in/out and control sensors
	  - The LED section is then plug and play at a later time whilst the section is supported by the nylon body straps

• Opal polycarbonate diffuser	• Light output is diffused to provide a low glare solution with even light spread and uniformity

• Utilises XUYU high quality LM80 tested and approved SMD LED's
• Uses the industry standard TM21 extrapolation method to accurately determine Rated LED life
	• Many suppliers quote LED performance without being able to provide evidence
	• Results from our rigorous testing show these fittings to have:
	  • High initial lumen output
	  • Minimal lumen depreciation over time
	  • Accurate colour temperature and CRI without shift
	  • High efficacy
	  • Exceptionally long Rated LED life

• Solid state technology and Robus optimised driver design	• Allows the fitting to be controlled by PIR, Microwave or photocell sensors without detriment to LED or driver life • Provides additional energy savings to reduce carbon emissions
• Wide ambient operating temperature range	• Ideal for cold unheated areas or hot buildings like care homes

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Product Code: Standard Emergency	RAE204006-01	RAE244012-01 RAE244012E-01	RAE404012-01 RAE404012E-01	RAE404015-01 RAE404015E-01	RAE604015-01 RAE604015E-01	RAE484018-01 RAE484018E-01	RAE804018-01 RAE804018E-01
Comparable to:	2X18W T8	1x36W T8	2x36W T8	1x58W T8	2x58W T8	1x70W T8	2x70W T8
Total Power (W):	19.5	22.6	39.2	38.4	55.4	51.0	83.2
Total Light Output (lm):	2,340	2,870	4,900	4,640	6,690	6,000	9,840
Emergency Mode Light Output (lm):	NA	380	440	350	440	420	400
Efficacy (lm / cctW):	120	127	125	121	121	118	118
Rated Life (hrs):	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Warranty (yrs):	5	5	5	5	5	5	5
Illuminance at 1m (lux):	660	820	1,450	1,310	1,890	1,700	2,790
Emergency Mode illuminance at 1m (lx):	NA	110	120	100	120	120	110
Beam Angle (deg):	130	130	130	130	130	130	130
CCT (K):	4,000	4,000	4,000	4,000	4,000	4,000	4,000
CRI (Ra):	80	80	80	80	80	80	80
Ingress Protection (IP):	20	20	20	20	20	20	20
Impact Rating (IK):	08	08	08	08	08	08	08
Operating Temperature (°C):	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40	-20 ≤ Ta ≤ +40
Output Current (mA):	480	600	1,000	1,000	1,400	1,200	2,000
Operating Voltage (Vac):	220-240	220-240	220-240	220-240	220-240	220-240	220-240
Power Factor (PF):	0.95	0.95	0.97	0.95	0.95	0.95	0.95
Height (mm):	61	61	61	61	61	61	61
Length (mm):	618	1,218	1,218	1,518	1,518	1,780	1,780
Width (mm):	53	53	53	53	53	53	53
Box Qty:	1	1	1	1	1	1	1
Weight (kg):	0.63	1.1/1.56	1.1/1.56	1.39/1.88	1.39/1.88	1.65/2.1	1.65/2.1

Standards & Approvals:

Complies with: EN 60598-1, EN 60598-2-1, EN 62471, EN 62493, EN 55015, EN 61000-3-2, EN 610003-3, EN 61547

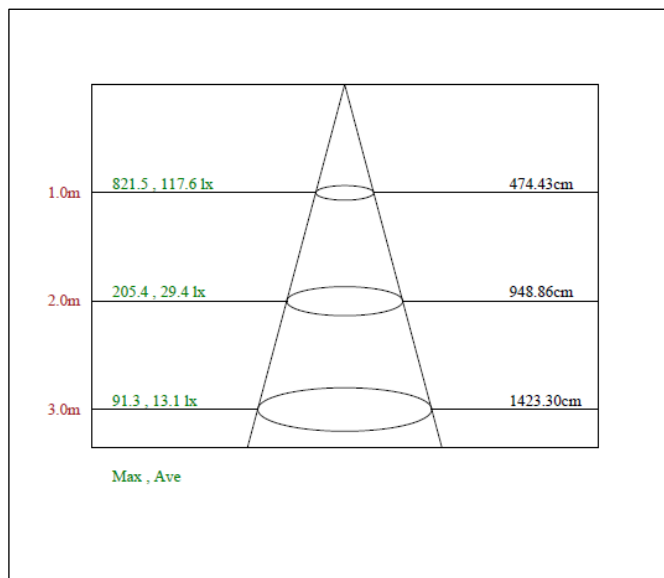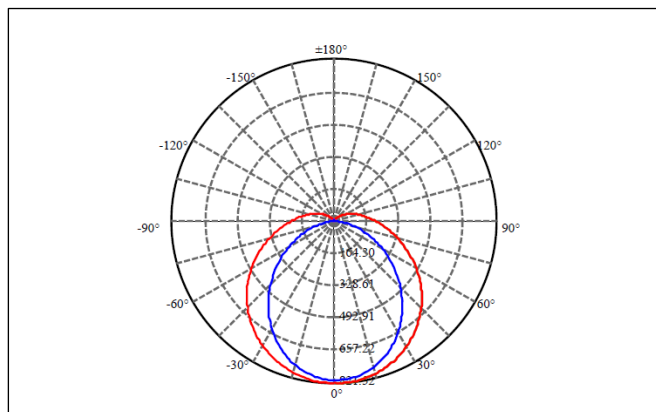## Cone Illuminance Diagram:

Diagram for RAE244012-01 in 4,000K. Other diagrams available on request

Polar Intensity Diagram:

Diagram for RAE244012-01 in 4,000K. Other diagrams available on request