

Dialight



Dialight® LED GRP Linear - IECEx Technical Specification Sheet - APAC



FEBRUARY 2021

SafeSite® LED GRP Linear

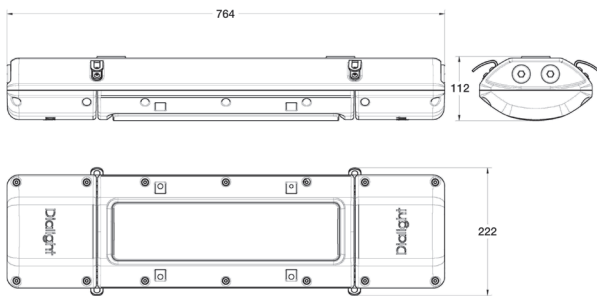
IECEx



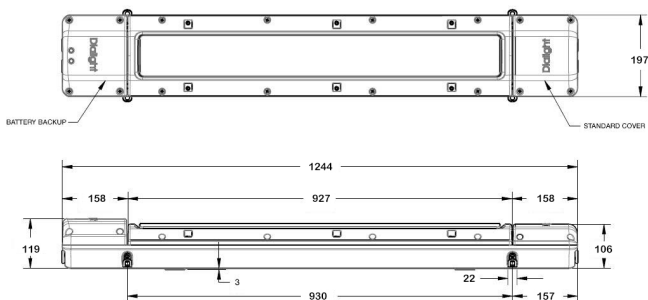
Certifications & Ratings

- 10 year warranty
- CE
- RCM
- IP66/67
- IECEx Zone 1, 2, 21 & 22
 - Ex II 2 GD
 - Ex eb mb op is IIC T4 Gb
 - Ex tb op is IIIC T130°C Db
 - Certification numbers:
 - Sira 19ATEX4226X
 - IECEx SIR 19.0068X
 - IECEx Zones 2, 21 & 22
 - Ex II 3 GD
 - Ex ec IIC T4 Gc
 - Ex tc IIIC T130°C Dc
 - IECEx SIR 19.0069X
 - Ex II 2 D
 - Ex tb op is IIIC T130°C Db
 - IECEx SIR 19.0069X
- DALI 1.0/2.0 as standard
- Up to 2,875 & 5,750 (nominal) lumen outputs

764 mm Model



1244 mm Model



Dimensions in mm

Mechanical Information:

Fixture weights:

Standard models: 764 mm: 7.7 kg
1244 mm: 10.9 kg

Emergency models:

764 mm: 8.6 kg
1244 mm: 11.8 kg

Mounting:

(2) M8 fixing points
Other mounting options available, see page 5 for details

Cable entry:

(2) M25 cable entries at both ends, through wired as standard

Impact rating:

IK 08

Safety retention:

(4) 316 Stainless steel tabs as standard

Electrical Specifications:

Operating voltage:

Standard: 100-277 VAC, 50/60Hz
120-250 VDC

Emergency:

230/240 VAC, 50Hz
110/120 VAC, 60Hz (Zone 1 only)

Operating temperature:

Standard models: -40°C to +65°C
Emergency models: -20°C to +50°C

Harmonics & emissions:

IEC 55015 (conducted & radiated)
IEC 61000-3-2
IEC 61000-3-3
IEC 61547

Transient protection:

IEC 61000-4-5
6kV line-to-line & line-to-ground

Power factor:

> 0.9

Emergency Models:

Lumen output in EM mode: 10-25% of initial light output (depending on selected duration and length of fitting)

Expected battery life*:

4 years

Battery duration*:

90 min. (standard)
60/180 min. (optional, field-configurable)

Materials:

Housing:

Glass-reinforced polyester

Lens:

- Textured polycarbonate convex lens (standard)
- Textured flat glass lens (optional)

Photometric Information:

CRI:

80 minimum

CCT:

5000K (cool white)
4000K (neutral white)
Green (Shower-Safe/Eye-Wash station model)
Amber (Wildlife-Friendly)

All values typical unless otherwise stated (tolerance +/- 10%)

* @ 25°C ambient

Ordering Information

SafeSite® LED GRP Linear - IECEx



| Part Number | Fixture Lumens (Nominal) | Wattage | lm/W | Voltage | CCT | Lens |
|---|--------------------------|---------|------|-------------------------|-----------------------|------------------------|
| Zone 1, 2, 21 & 22 Models (Standard) | | | | | | |
| P2ABMC23A54WGN | 2,875 | 25 | 115 | 100-277 VAC/120-250 VDC | 5000K (cool white) | Textured Polycarbonate |
| P4ABMC26A54WGN | 5,750 | 47 | 123 | 100-277 VAC/120-250 VDC | 5000K (cool white) | Textured Polycarbonate |
| P2ABMN23A54WGN | 2,785 | 25 | 111 | 100-277 VAC/120-250 VDC | 4000K (neutral white) | Textured Polycarbonate |
| P4ABMN26A54WGN | 5,575 | 47 | 119 | 100-277 VAC/120-250 VDC | 4000K (neutral white) | Textured Polycarbonate |
| Zone 1, 2, 21 & 22 Models (Emergency Backup) | | | | | | |
| P2ABMCG3A54WGF | 2,875 | 29 | 99 | 230/240 VAC | 5000K (cool white) | Textured Polycarbonate |
| P4ABMCG6A54WGF | 5,750 | 51 | 113 | 230/240 VAC | 5000K (cool white) | Textured Polycarbonate |
| P2ABMC13A54WGF | 2,875 | 29 | 99 | 110/120 VAC | 5000K (cool white) | Textured Polycarbonate |
| P4ABMC16A54WGF | 5,750 | 51 | 113 | 110/120 VAC | 5000K (cool white) | Textured Polycarbonate |
| P2ABMNG3A54WGF | 2,785 | 29 | 96 | 230/240 VAC | 4000K (neutral white) | Textured Polycarbonate |
| P4ABMNG6A54WGF | 5,575 | 51 | 109 | 230/240 VAC | 4000K (neutral white) | Textured Polycarbonate |
| P2ABMN13A54WGF | 2,785 | 29 | 96 | 110/120 VAC | 4000K (neutral white) | Textured Polycarbonate |
| P4ABMN16A54WGF | 5,575 | 51 | 109 | 110/120 VAC | 4000K (neutral white) | Textured Polycarbonate |
| Zone 2, 21 & 22 Models (Standard) | | | | | | |
| P2BBMC23A5NWGN | 2,875 | 25 | 115 | 100-277 VAC/120-250 VDC | 5000K (cool white) | Textured Polycarbonate |
| P4BBMC26A5NWGN | 5,750 | 47 | 123 | 100-277 VAC/120-250 VDC | 5000K (cool white) | Textured Polycarbonate |
| P2BBMN23A5NWGN | 2,785 | 25 | 111 | 100-277 VAC/120-250 VDC | 4000K (neutral white) | Textured Polycarbonate |
| P4BBMN26A5NWGN | 5,575 | 47 | 119 | 100-277 VAC/120-250 VDC | 4000K (neutral white) | Textured Polycarbonate |
| Zone 2, 21 & 22 Models (Emergency Backup) | | | | | | |
| P2BBMC23A5NWGF | 2,875 | 29 | 99 | 230/240 VAC | 5000K (cool white) | Textured Polycarbonate |
| P4BBMC26A5NWGF | 5,750 | 51 | 113 | 230/240 VAC | 5000K (cool white) | Textured Polycarbonate |
| P2BBMN23A5NWGF | 2,785 | 29 | 96 | 230/240 VAC | 4000K (neutral white) | Textured Polycarbonate |
| P4BBMN26A5NWGF | 5,575 | 51 | 109 | 230/240 VAC | 4000K (neutral white) | Textured Polycarbonate |

All values typical unless otherwise stated (tolerance +/- 10%).

DISCLAIMER. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. When ordering, refer to www.dialight.com for current versions of: (a) relevant product documentation (including the relevant product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranty. To the extent that any contract is deemed formed between Dialight and the purchaser of Dialight products and/or an end-user, versions of documents available at www.dialight.com as at the date of sale shall be the versions incorporated therein. In the event of any discrepancy between this document or information provided at www.dialight.com, the latter shall prevail.

Ordering Information

SafeSite® LED GRP Linear - IECEx



| Part Number | Fixture Lumens (Nominal) | Wattage | lm/W | Voltage | CCT | Lens |
|---|--------------------------|---------|------|-------------------------|-------|------------------------|
| Shower-Safe/Eye-Wash Station Version - Zone 1, 2, 21 & 22 (Emergency Backup) | | | | | | |
| P2ABMG3A54WGF | | 29 | | 230/240 VAC | Green | Textured Polycarbonate |
| P4ABMG6A54WGF | | 51 | | 230/240 VAC | Green | Textured Polycarbonate |
| P2ABMG13A54WGF | | 29 | | 110/120 VAC | Green | Textured Polycarbonate |
| P4ABMG16A54WGF | | 51 | | 110/120 VAC | Green | Textured Polycarbonate |
| Shower-Safe/Eye-Wash Station Version - Zone 2, 21 & 22 (Emergency Backup) | | | | | | |
| P2BBMG23A5NWGF | | 29 | | 230/240 VAC | Green | Textured Polycarbonate |
| P4BBMG26A5NWGF | | 51 | | 230/240 VAC | Green | Textured Polycarbonate |
| Wildlife Friendly - Zone 1, 2, 21 & 22 (Standard) | | | | | | |
| P2ABMA23A54WGN | | 25 | | 100-277 VAC/120-250 VDC | Amber | Textured Polycarbonate |
| P4ABMA26A54WGN | | 47 | | 100-277 VAC/120-250 VDC | Amber | Textured Polycarbonate |
| Wildlife Friendly - Zone 1, 2, 21 & 22 (Emergency Backup) | | | | | | |
| P2ABMAG3A54WGF | | 29 | | 230/240 VAC | Amber | Textured Polycarbonate |
| P4ABMAG6A54WGF | | 51 | | 230/240 VAC | Amber | Textured Polycarbonate |
| P2ABMA13A54WGF | | 29 | | 110/120 VAC | Amber | Textured Polycarbonate |
| P4ABMA16A54WGF | | 51 | | 110/120 VAC | Amber | Textured Polycarbonate |
| Wildlife Friendly - Zone 2, 21 & 22 (Standard) | | | | | | |
| P2BBMA23A5NWGN | | 25 | | 100-277 VAC/120-250 VDC | Amber | Textured Polycarbonate |
| P4BBMA26A5NWGN | | 47 | | 100-277 VAC/120-250 VDC | Amber | Textured Polycarbonate |
| Wildlife Friendly - Zone 2, 21 & 22 (Emergency Backup) | | | | | | |
| P2BBMA23A5NWGF | | 29 | | 230/240 VAC | Amber | Textured Polycarbonate |
| P4BBMA26A5NWGF | | 51 | | 230/240 VAC | Amber | Textured Polycarbonate |

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Accessories



ELX-CMB-SS

- 316 Marine Grade stainless steel ceiling mount kit



ELX-PC-SS-42

- 37-44mm Ø 316 Marine Grade stainless steel pole clamp



ELX-WMB-SS-45

- 45° 316 Marine Grade stainless steel wall mount kit



HBXCAB48

- 1.2m (48") long stainless steel safety rope (for use with safety bracket)



ELX-PC-SS-47

- 44-50mm Ø 316 Marine Grade stainless steel pole clamp

ELX-WMB-SS-60

- 60° 316 Marine Grade stainless steel wall mount kit

ELX-PC-SS-54

- 50-58mm Ø 316 Marine Grade stainless steel pole clamp

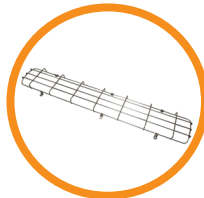
ELX-PC-SS-59

- 58-68mm Ø 316 Marine Grade stainless steel pole clamp



ELX-EYE-SS

- 316 Marine Grade stainless steel eyelet kit



RLX-WG-2

- Wire guard for 764mm model

RLX-WG-4

- Wire guard for 1244mm model



RLX-BATT-KIT-2

- 764mm replacement battery kit



RL-WIRELESS-2*

- Wireless controls kit for 764mm models (Zone 2 only)

RLX-BATT-KIT-4

- 1244mm replacement battery kit

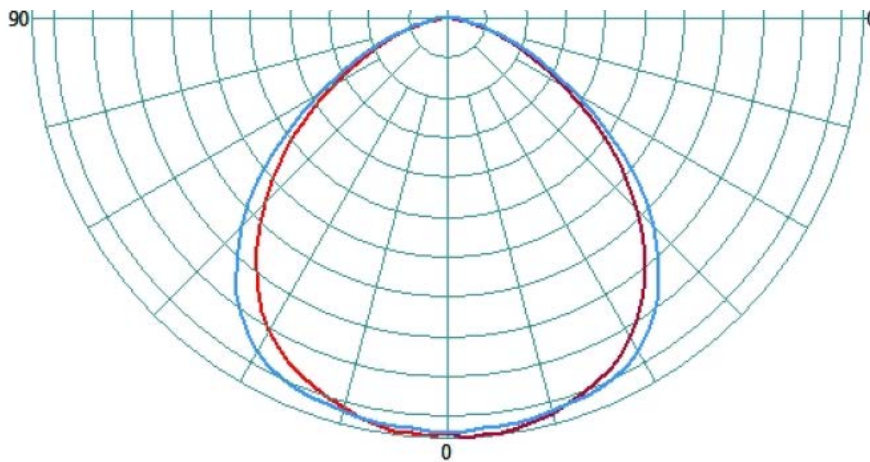
RL-WIRELESS-4*

- Wireless controls kit for 1244mm models (Zone 2 only)

*Must be fitted to GRP Linear by authorized Dialight personnel prior to delivery

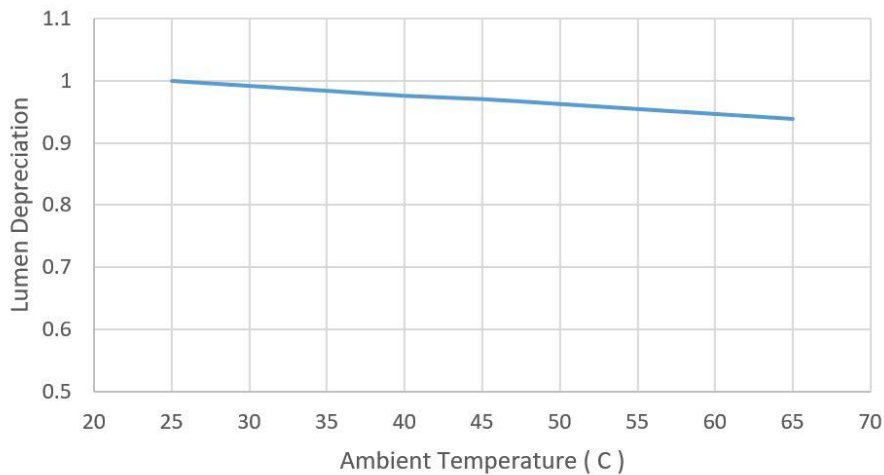
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Beam Distribution

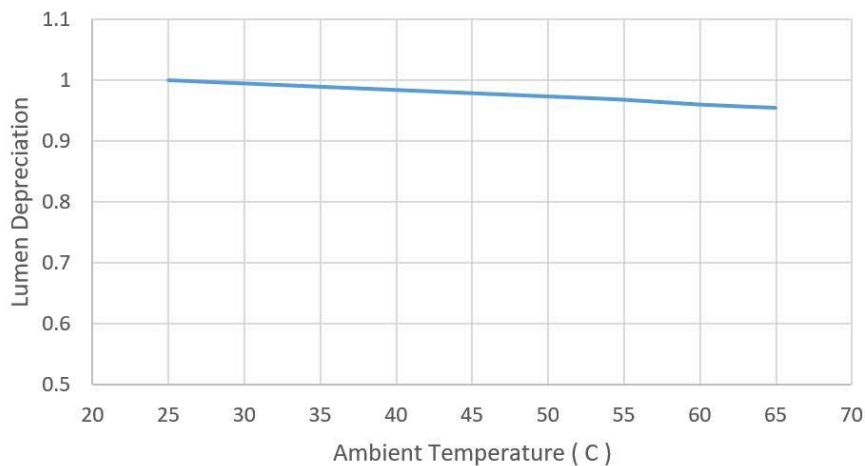


Thermal Roll-Off

Thermal Rolloff - GRP Linear, 764mm model



Thermal Rolloff - GRP Linear, 1244mm model



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Lumen Maintenance Factor

| 764mm GRP Linear | | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Ambient Temperature | Hours | | | | | | | | |
| | 0 | 15000 | 30000 | 45000 | 60000 | 75000 | 90000 | 100000 | 150000 |
| 25°C | 100% | 98% | 96% | 95% | 94% | 92% | 91% | 90% | 86% |
| 30°C | 99% | 97% | 96% | 94% | 93% | 92% | 90% | 89% | 85% |
| 35°C | 98% | 96% | 95% | 93% | 92% | 91% | 90% | 89% | 85% |
| 40°C | 98% | 95% | 94% | 93% | 91% | 90% | 89% | 88% | 84% |
| 45°C | 97% | 95% | 94% | 92% | 91% | 90% | 88% | 88% | 84% |
| 50°C | 96% | 94% | 93% | 91% | 90% | 89% | 88% | 87% | 83% |
| 55°C | 96% | 93% | 92% | 91% | 89% | 88% | 87% | 86% | 82% |
| 60°C | 95% | 92% | 91% | 90% | 89% | 87% | 86% | 85% | 82% |
| 65°C | 94% | 91% | 90% | 88% | 87% | 85% | 84% | 83% | 78% |

| 1244mm GRP Linear | | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Ambient Temperature | Hours | | | | | | | | |
| | 0 | 15000 | 30000 | 45000 | 60000 | 75000 | 90000 | 100000 | 150000 |
| 25°C | 100% | 98% | 96% | 95% | 94% | 92% | 91% | 90% | 86% |
| 30°C | 99% | 97% | 96% | 94% | 93% | 92% | 91% | 90% | 86% |
| 35°C | 99% | 97% | 95% | 94% | 93% | 91% | 90% | 89% | 85% |
| 40°C | 98% | 96% | 95% | 93% | 92% | 91% | 90% | 89% | 85% |
| 45°C | 98% | 96% | 94% | 93% | 92% | 90% | 89% | 88% | 84% |
| 50°C | 97% | 95% | 94% | 92% | 91% | 90% | 89% | 88% | 84% |
| 55°C | 97% | 95% | 93% | 92% | 91% | 89% | 88% | 87% | 83% |
| 60°C | 96% | 94% | 92% | 91% | 90% | 89% | 87% | 87% | 83% |
| 65°C | 96% | 93% | 92% | 91% | 89% | 88% | 87% | 86% | 82% |

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