

Dialight



Dialight® LED GRP Linear - INMETRO

Technical Specification Sheet



SEPTEMBER 2021

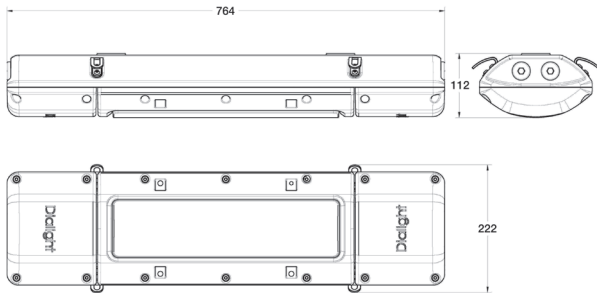
SafeSite® LED GRP Linear INMETRO



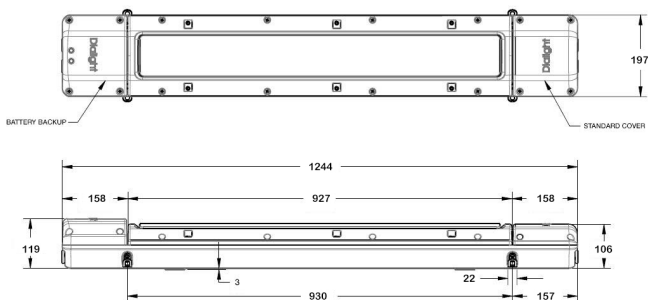
Certifications & Ratings

- 10 year warranty
- CE
- IP66/67
- INMETRO Zone 1, 2, 21 & 22
- INMETRO Zones 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:
 - UL-BR 20.1765X
- Ex II 3 GD
 - Ex ec IIC T4 Gc
 - Ex tc IIIC T130°C Dc
 - BRA 19.GE0030X
- Ex II 2 D
 - Ex tb op is IIIC T130°C Db
 - BRA 19.GE0030X
- 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

WARNING - INSTALLATION & SECONDARY RETENTION. Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

Ordering Information

SafeSite® LED GRP Linear - INMETRO



Part Number	Fixture Lumens (Nominal)	Wattage	lm/W	Voltage	CCT	Lens
Zone 1, 2, 21 & 22 (Standard)						
P2KBMC23A54WGN	2,875	25	115	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P4KBMC26A54WGN	5,750	47	123	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P2KBMN23A54WGN	2,785	25	111	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
P4KBMN26A54WGN	5,575	47	119	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
Zone 1, 2, 21 & 22 (Emergency Backup)						
P2KBMC3A54WGF	2,875	29	99	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P4KBMC6A54WGF	5,750	51	113	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P2KBMC13A54WGF	2,875	4	99	110/120 VAC	5000K (cool white)	Textured Polycarbonate
P4KBMC16A54WGF	5,750	33	113	110/120 VAC	5000K (cool white)	Textured Polycarbonate
P2KBMNG3A54WGF	2,785	29	96	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
P4KBMNG6A54WGF	5,575	51	109	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
P2KBMN13A54WGF	2,785	29	96	110/120 VAC	4000K (neutral white)	Textured Polycarbonate
P4KBMN16A54WGF	5,575	51	109	110/120 VAC	4000K (neutral white)	Textured Polycarbonate
Zone 2, 21 & 22 (Standard)						
P2LBMC23A5NWGN	2,875	25	115	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P4LBMC26A5NWGN	5,750	47	123	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P2LBMN23A5NWGN	2,785	25	111	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
P4LBMN26A5NWGN	5,575	47	119	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
Zone 2, 21 & 22 (Emergency Backup)						
P2LBMC23A5NWGF	2,875	29	99	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P4LBMC26A5NWGF	5,750	51	113	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P2LBMN23A5NWGF	2,785	29	96	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
P4LBMN26A5NWGF	5,575	51	109	230/240 VAC	4000K (neutral white)	Textured Polycarbonate

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

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Ordering Information

SafeSite® LED GRP Linear - INMETRO



Part Number	Fixture Lumens (Nominal)	Wattage	lm/W	Voltage	CCT	Lens
Shower-Safe/Eye-Wash Station Version - Zone 1 & 2, 21 & 22 (Emergency Backup)						
P2KBMGG3A54WGF		29		230/240 VAC	Green	Textured Polycarbonate
P4KBMGG6A54WGF		51		230/240 VAC	Green	Textured Polycarbonate
P2KBMG13A54WGF		29		110/120 VAC	Green	Textured Polycarbonate
P4KBMG16A54WGF		51		110/120 VAC	Green	Textured Polycarbonate
Shower-Safe/Eye-Wash Station Version - Zone 2, 21 & 22 (Emergency Backup)						
P2LBMG23A5NWGF		29		230/240 VAC	Green	Textured Polycarbonate
P4LBMG26A5NWGF		51		230/240 VAC	Green	Textured Polycarbonate
Wildlife Friendly - Zone 1 & 2, 21 & 22 (Standard)						
P2KBMA23A54WGN		25		100-277 VAC/120-250 VDC	Amber	Textured Polycarbonate
P4KBMA26A54WGN		47		100-277 VAC/120-250 VDC	Amber	Textured Polycarbonate
Wildlife Friendly - Zone 1 & 2, 21 & 22 (Emergency Backup)						
P2KBMAG3A54WGF		29		230/240 VAC	Amber	Textured Polycarbonate
P4KBMAG6A54WGF		51		230/240 VAC	Amber	Textured Polycarbonate
P2KBMA13A54WGF		29		110/120 VAC	Amber	Textured Polycarbonate
P4KBMA16A54WGF		51		110/120 VAC	Amber	Textured Polycarbonate
Wildlife Friendly - Zone 2, 21 & 22 (Standard)						
P2LBMA23A5NWGN		25		100-277 VAC/120-250 VDC	Amber	Textured Polycarbonate
P4LBMA26A5NWGN		47		100-277 VAC/120-250 VDC	Amber	Textured Polycarbonate
Wildlife Friendly - Zone 2, 21 & 22 (Emergency Backup)						
P2LBMA23A5NWGF		29		230/240 VAC	Amber	Textured Polycarbonate
P4LBMA26A5NWGF		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



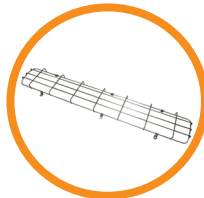
ELX-WMB-SS-60

- 60° 316 Marine Grade stainless steel wall mount kit



ELX-EYE-SS

- 316 Marine Grade stainless steel eyelet kit



RLX-WG-2

- Wire guard for 764mm 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



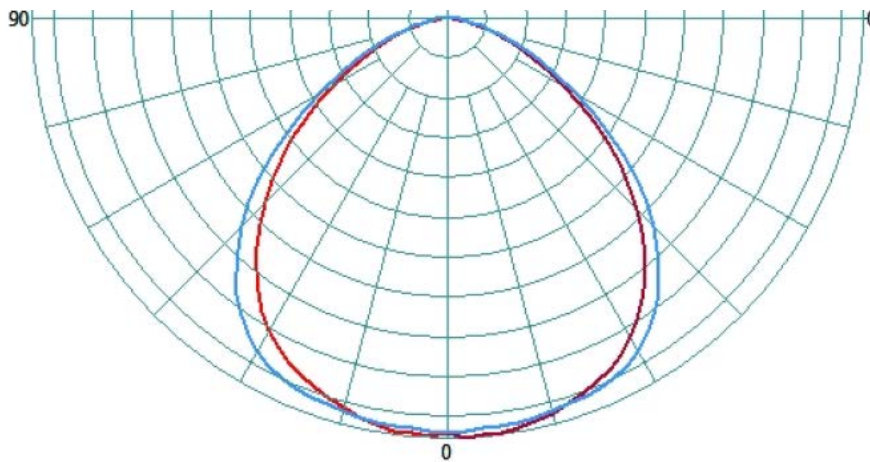
RL-WIRELESS-4*

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

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

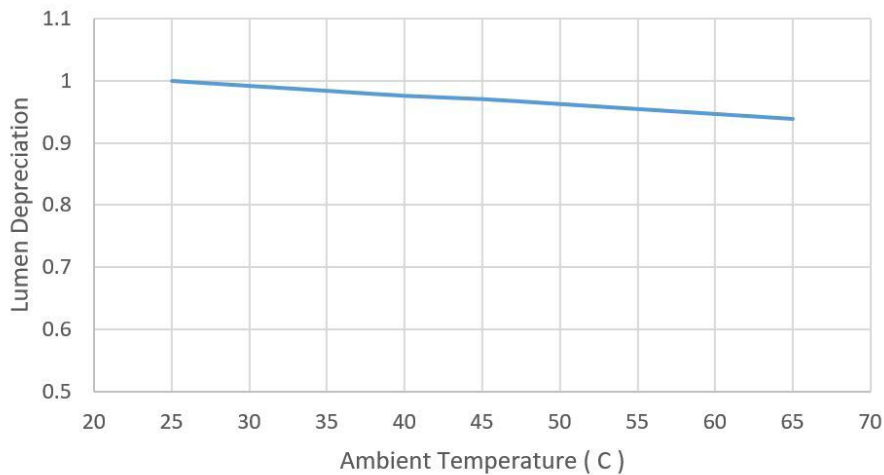
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Beam Distribution

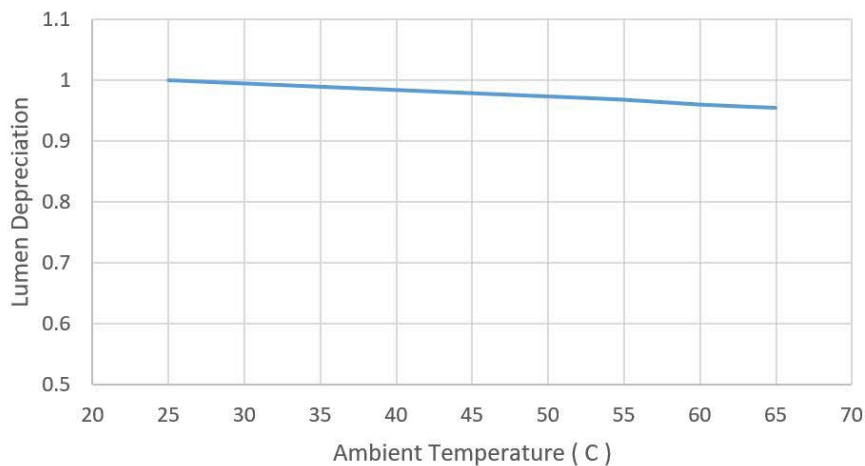


Thermal Roll-Off

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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WARNING / DISCLAIMERS:

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