Dialight

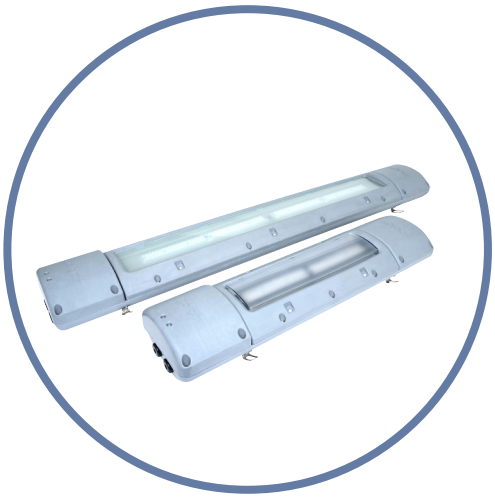
Dialight® LED GRP Linear

Technical Specification Sheet

OCTOBER 2026

Vigilant® LED GRP Linear

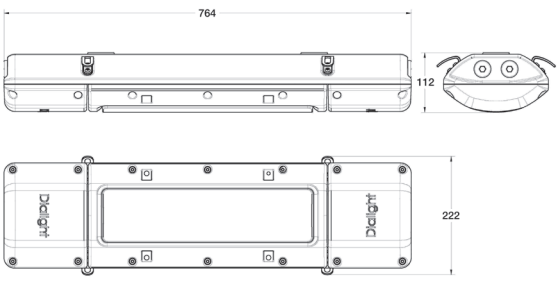
Technical Specification



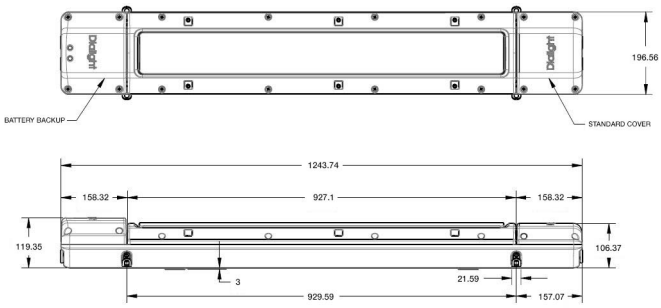
Certifications & Ratings

- 10 year warranty
- CE (IEC 60598-2-1, IEC 60598-1, IEC 61547, IEC 62031, IEC 61347-1, IEC 61347-2-11)
- RCM
- IP66/67
- IK08
- DALI 1.0/2.0 compatible
- Wireless controls available on select models (please consult factory)
- 2,785 & 5,575 (nominal) lumen outputs

764 mm Model



1244 mm Model



Dimensions in mm

Mechanical Information:

Fixture weights:	
Standard model:	764 mm models: 7.7 kg 1244 mm models: 10.9 kg
Emergency model:	764 mm models: 8.6 kg 1244 mm models: 11.8 kg
Mounting:	2x M8 fixing points Other mounting options available
Cable entry:	2x M25 cable entries at both ends, through wired as standard

Electrical Specifications:

Operating voltage:	Standard: 100-277 VAC, 50/60Hz 120-250 VDC Emergency: 230/240 VAC, 50Hz
Operating temperature:	
Standard models:	-40°C to +65°C
Emergency models:	-20°C to +50°C
EMC:	CISPR 15 Flicker: IEC 61000-3-3 Immunity requirements for lighting: IEC 61547 Harmonics: IEC 61000-3-2 Class C
Surge immunity:	IEC 61000-4-5 6kV/3kA line-line & line-ground
THD:	<20%
Power factor:	> 0.9
Dimming:	DALI 1 and DALI 2 compatible

Emergency Models:

Lumen output in EM mode:	600-900
Battery duration*:	180 min. (standard) 60/90 min. (optional, field-configurable)
Initial lumen output:	
2ft models:	60/90/180 min. = 25%
4ft models:	60 min. = 14% 90/180 min. = 11%

Power Supply:

ALT: **(accelerated life testing)**	Over 15 yr equivalent at 24/7 service
MTBF: **(mean time between failures)**	Over 300 years with annual failure rate less than 0.3% expected
Driver:	Fully potted and sealed for superior protection

Materials:

Housing:	Glass-reinforced polyester
Lens:	Diffused (textured) polycarbonate convex lens (standard) Diffused flat glass lens (optional)
Mounting brackets:	316 stainless steel
Vibration:	Up to 5G @ 10-150Hz for 750,000 cycles, per IEC 60068-2-6 for luminaire only
Shock:	50G half-sine for 3 cycles, per IEC 60068-2-27 for luminaire only

Photometric Information:

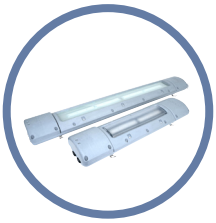
CRI:	80 minimum
CCT:	5000K (cool white) 4000K (neutral white) Green (Shower-Safe/Eye-wash station model) & Amber versions available. Please consult your local Dialight representative

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

Vigilant® LED GRP Linear



Part Number	Fixture Lumens (Nominal)	Wattage	lm/W	Voltage	CCT	Lens
Industrial Models (Standard)						
P2EBMC23A54WGN	2,875	25	115	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P4EBMC26A54WGN	5,750	47	123	100-277 VAC/120-250 VDC	5000K (cool white)	Textured Polycarbonate
P2EBMN23A54WGN	2,785	25	111	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
P4EBMN26A54WGN	5,575	47	119	100-277 VAC/120-250 VDC	4000K (neutral white)	Textured Polycarbonate
Industrial Models (Emergency Backup)						
P2EBMC23A54WGG	2,875	29	99	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P4EBMC26A54WGG	5,750	51	113	230/240 VAC	5000K (cool white)	Textured Polycarbonate
P2EBMN23A54WGG	2,785	29	96	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
P4EBMN26A54WGG	5,575	51	109	230/240 VAC	4000K (neutral white)	Textured Polycarbonate
Shower-Safe/Eye-Wash Station Version - Industrial (Emergency Backup)						
P2EBMG23A54WGG		29		230/240 VAC	Green	Textured Polycarbonate
P4EBMG26A54WGG		51		230/240 VAC	Green	Textured Polycarbonate

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

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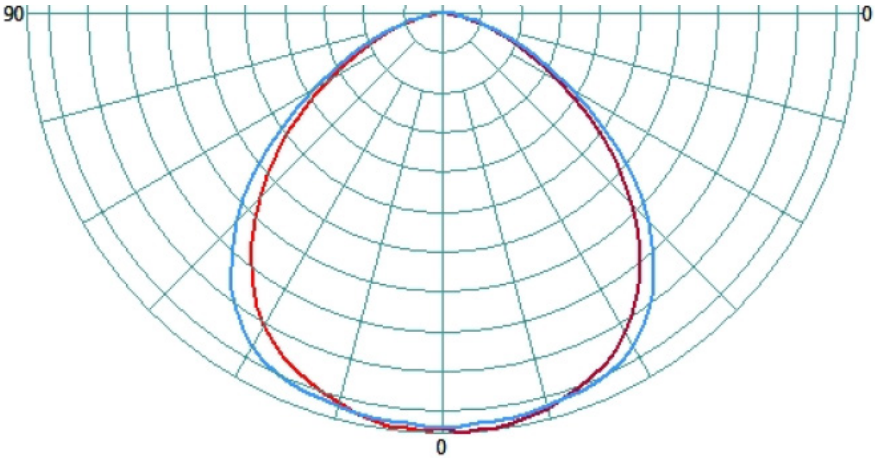
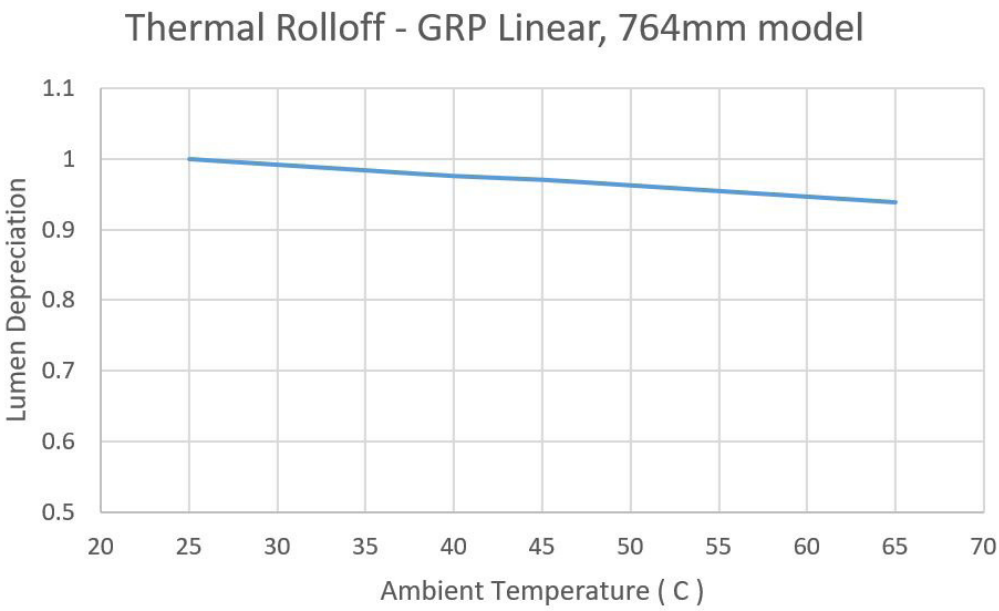
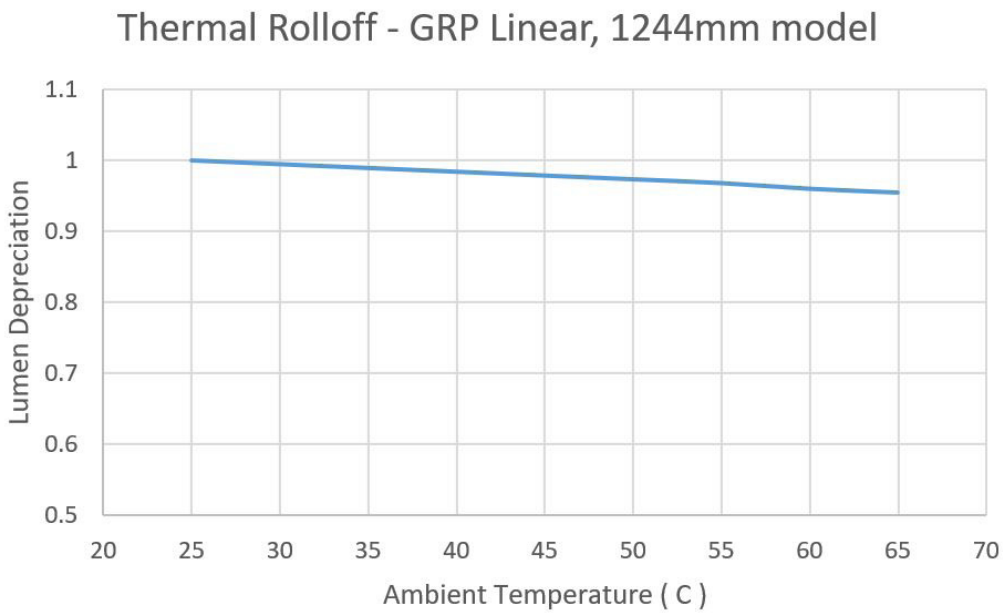
Beam Distribution



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.

Thermal Roll-Off





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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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Accessories

ELX-CMB-SS
- 316 Marine Grade stainless steel ceiling mount kit

ELX-PC-SS-42
- (2) 40–45mm Ø 316 Marine Grade stainless steel pole clamp

ELX-PC-SS-47
- (2) 47–51mm Ø 316 Marine Grade stainless steel pole clamp

ELX-PC-SS-54
- (2) 54–57mm Ø 316 Marine Grade stainless steel pole clamp

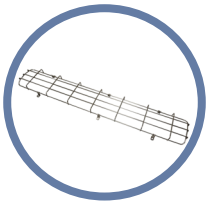
ELX-PC-SS-59
- (2) 59–62mm Ø 316 Marine Grade stainless steel pole clamp

ELX-WMB-SS-45
- (2) 45° 316 Marine Grade stainless steel wall mount kit

ELX-WMB-SS-60
- (2) 60° 316 Marine Grade stainless steel wall mount kit

HBXCAB48
- 1.2m long stainless steel safety rope (for use with safety bracket)

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

RLX-BATT-KIT-4
- 1244mm replacement battery kit

RL-WIRELESS-2*
- Wireless controls kit for 764mm models

RL-WIRELESS-4*
- Wireless controls kit for 1244mm models

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

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