

.....Dialight



Dialight® LED Bulkhead

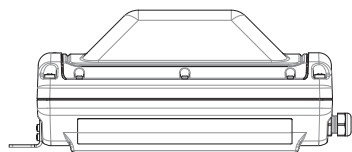
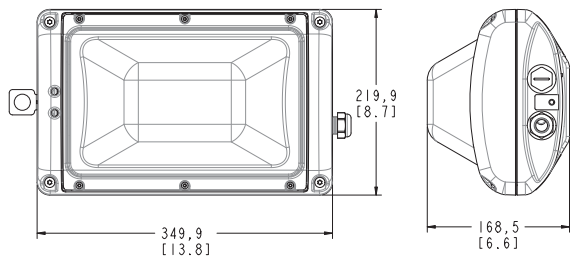
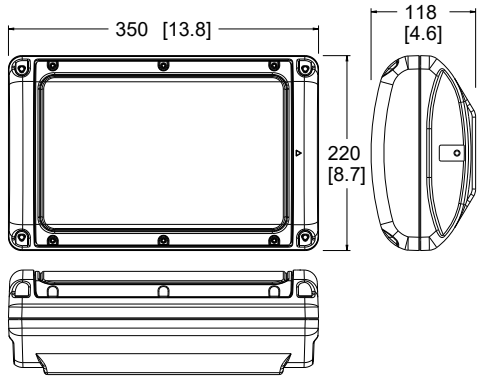
Technical Specification Sheet - APAC

Vigilant® LED Bulkhead Standard Model



Certifications & Ratings

- 10 year warranty (excluding battery)
- CE / RCM
- IP66/67
- IK10
- DNV TAE00004GZ
- L70 > 150,000 hours @ 65°C (149°F) ambient



Dimensions in mm (inches)

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.

Mechanical Information:

Fixture weights:

Standard models: 6.8 kg (15.0 lb)

Battery backup models: 7.7 kg (17.0 lb)

Shipping weights:

Standard models: 7.3 kg (16.1 lb)

Battery backup models: 8.4 kg (18.5 lb)

Cable entry:

(2) M20 - optional (4) M20

Materials:

Housing:

A360 Die-cast aluminium

Finish:

Superior dual coat finish
- Sealed polyester topcoat
- Epoxy primer

Lens:

Polycarbonate clear
Polycarbonate diffused (optional)
Polycarbonate domed diffused

Hardware:

316 Stainless Steel

Electrical Specifications:

Operating voltage:

100-277 VAC / 120-250 VDC
230-240 VAC

Operating temperature:

Standard models: -40°C to +65°C (-40°F to +149°F)
Battery backup models: -20°C to +55°C (-4°F to +131°F)

Transient protection:

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

THD:

< 20%

Power factor:

> 0.9

Dimming:

DALI 1.0 and 2.0 compatible
0-10 VDC dimming to 10%

Battery Backup Models: (integral battery)

Battery duration* (circular optic, clear lens):

6.5k lumen outputs: 180 mins ~ 900 lm
90 mins ~ 1100 lm
60 mins ~ 1140 lm
3k lumen outputs: 180 mins ~ 800 lm
90 mins ~ 1100 lm
60 mins ~ 1140 lm

Photometric Information:

Lumen output*:

3,000 & 6,500 lm (white light)

CRI:

> 80 (white light)

CCT:

5000K (cool white)
4000K (neutral white)
2700K (warm white)
Amber
Green

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

* @ 25°C ambient

Ordering Information

Vigilant® LED Bulkhead



Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Standard Models with Flush Bracket							
BHE-4BN2-3NFN-VGN	3,200	22	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BHE-4BN2-6NFN-VGN	6,700	45	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BHE-4UN2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4UN2-6NFN-VGN	6,400	45	142	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4BC2-3NFN-VGN	3,200	22	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BHE-4BC2-6NFN-VGN	6,700	45	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BHE-4UC2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4UC2-6NFN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4BA2-3NFN-VGN	2,300	24	96	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular
BHE-4BA2-5NFN-VGN	4,200	46	91	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular
Battery Backup Models with Flush Bracket							
BHE-4BNG-3NFN-VGF	3,200	25	128	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHE-4BNG-6NFN-VGF	6,700	48	140	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHE-4UNG-3NFN-VGF	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4UNG-6NFN-VGF	6,400	48	133	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4BCG-3NFN-VGF	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHE-4BCG-6NFN-VGF	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHE-4UCG-3NFN-VGF	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4UCG-6NFN-VGF	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4BAG-3NFN-VGF	2,300	27	85	230-240VAC	Amber	Clear Polycarbonate	Circular
BHE-4BAG-5NFN-VGF	4,200	49	86	230-240VAC	Amber	Clear Polycarbonate	Circular
BHE-6BGG-3NFN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

All values typical unless otherwise stated (tolerance +/- 10%).
 Part numbers listed in **bold** are typically available in stock.
 For 2700K (warm white) CCT, change the 6th character to 'W'.

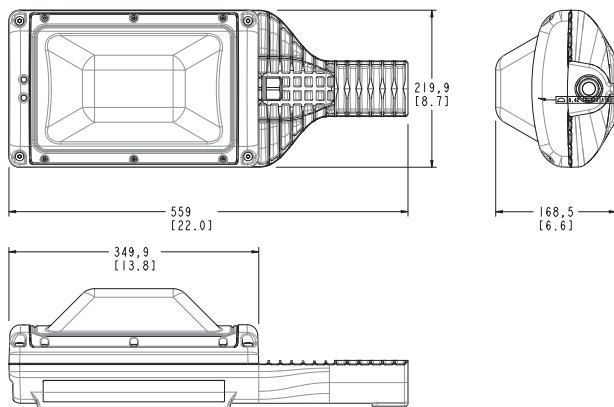
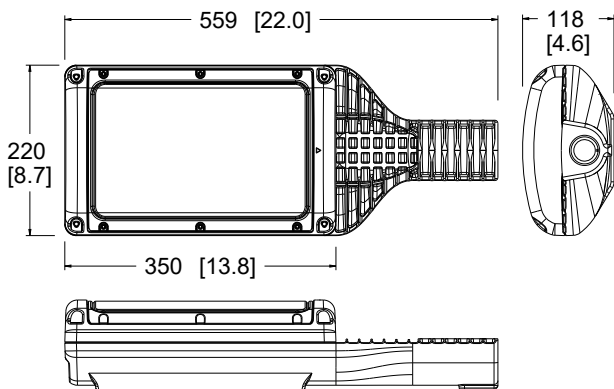
DISCLAIMER. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. When ordering, refer to www.dialight.com for current versions of: (a) relevant product documentation (including the relevant product data sheets); (b) Dialight terms and conditions 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.

Vigilant® LED Bulkhead Pole Mount Model



Certifications & Ratings

- 10 year warranty (excluding battery)
- CE / RCM
- IP66/67
- IK10
- DNV TAE00004GZ
- L70 > 150,000 hours @ 65°C (149°F) ambient



Dimensions in mm (inches)

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.

Mechanical Information:

Fixture weights:	
Standard models:	7.9 kg (17.4 lb)
Battery backup models:	8.8 kg (19.4 lb)
Shipping weights:	
Standard models:	8.4 kg (18.5 lb)
Battery backup models:	9.3 kg (20.5 lb)
Cable entry:	(1) M25
Spigot entry size:	35mm ID optional 44mm ID

Materials:

Housing:	A360 Die-cast aluminium
Finish:	Superior dual coat finish - Sealed polyester topcoat - Epoxy primer
Lens:	Polycarbonate clear Polycarbonate diffused (optional) Polycarbonate domed diffused
Hardware:	316 Stainless Steel

Electrical Specifications:

Operating voltage:	100-277 VAC / 120-250 VDC 230-240 VAC
Operating temperature:	Standard models: -40°C to +65°C (-40°F to +149°F) Battery backup models: -20°C to +55°C (-4°F to +131°F)
Transient protection:	IEC 61000-4-5 6kV line-line & line-ground
THD:	< 20%
Power factor:	> 0.9
Dimming:	DALI 1.0 and 2.0 compatible 0-10 VDC dimming to 10%

Battery Backup Models: (integral battery)

Battery duration* (circular optic, clear lens):	
6.5k lumen outputs:	180 mins ~ 900 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm
3k lumen outputs:	180 mins ~ 800 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm

Photometric Information:

Lumen output*:	3,000 & 6,500 lm (white light)
CRI:	> 80 (white light)
CCT:	5000K (cool white) 4000K (neutral white) 2700K (warm white) Amber Green

All values typical unless otherwise stated (tolerance +/- 10%)
* @ 25°C ambient

Ordering Information

Vigilant® LED Bulkhead - Pole Mount Model

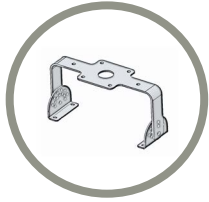


Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Pole Mount Models							
BPE-4BN2-3NNN-VGN	3,200	22	149	100-277VAC / 120-250VDC	4000K	Clear Polycarbonate	Circular
BPE-4BN2-6NNN-VGN	6,700	45	149	100-277VAC / 120-250VDC	4000K	Clear Polycarbonate	Circular
BPE-4UN2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	4000K	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4UN2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	4000K	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4BC2-3NNN-VGN	3,200	22	149	100-277VAC / 120-250VDC	5000K	Clear Polycarbonate	Circular
BPE-4BC2-6NNN-VGN	6,700	45	149	100-277VAC / 120-250VDC	5000K	Clear Polycarbonate	Circular
BPE-4UC2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4UC2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4BA2-3NNN-VGN	2,300	24	96	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular
BPE-4BA2-5NNN-VGN	4,200	46	91	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular
BPE-4UA2-3NNN-VGN	2,100	24	88	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4UA2-5NNN-VGN	3,900	46	85	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)
Pole Mount Models - 44mm Spigot Entry							
BZE-4UN2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	4000K	Clear Polycarbonate	Ultra-Wide (Type 1)
Pole Mount Battery Backup Models							
BPE-4BNG-3NNN-VGF	3,200	25	128	230-240VAC	4000K	Clear Polycarbonate	Circular
BPE-4BNG-6NNN-VGF	6,700	48	140	230-240VAC	4000K	Clear Polycarbonate	Circular
BPE-4UNG-3NNN-VGF	3,100	25	124	230-240VAC	4000K	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4UNG-6NNN-VGF	6,400	48	133	230-240VAC	4000K	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4BCG-3NNN-VGF	3,200	25	128	230-240VAC	5000K	Clear Polycarbonate	Circular
BPE-4BCG-6NNN-VGF	6,700	48	140	230-240VAC	5000K	Clear Polycarbonate	Circular
BPE-4UCG-3NNN-VGF	3,100	25	124	230-240VAC	5000K	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4UCG-6NNN-VGF	6,400	48	133	230-240VAC	5000K	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4BAG-3NNN-VGF	2,300	27	85	230-240VAC	Amber	Clear Polycarbonate	Circular
BPE-4BAG-5NNN-VGF	4,200	49	86	230-240VAC	Amber	Clear Polycarbonate	Circular
BPE-4UAG-3NNN-VGF	2,100	27	78	230-240VAC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4UAG-5NNN-VGF	3,900	49	80	230-240VAC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-6BGG-3NNN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular
Pole Mount Battery Backup Models - 44mm Spigot Entry							
BZE-4UNG-6NNN-VGF	6,400	48	133	230-240VAC	4000K	Clear Polycarbonate	Ultra-Wide (Type 1)

All values typical unless otherwise stated (tolerance +/- 10%).
 Part numbers listed in bold are typically available in stock.
 For 2700k (warm white) CCT, change the 6th character to 'W'
 44mm spigot entry models available.

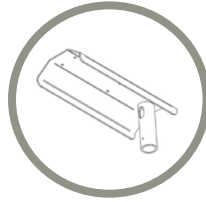
DISCLAIMER. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. When ordering, refer to www.dialight.com for current versions of: (a) relevant product documentation (including the relevant product data sheets); (b) Dialight terms and conditions 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.

Accessories



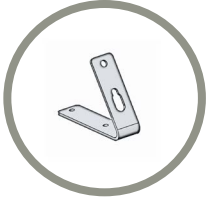
BH-BRKT-SS-ADJ

- 316 stainless steel adjustable bracket kit



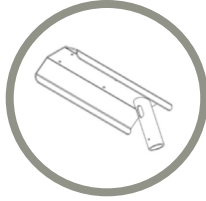
BH-STMB-05-10-HD

- Aluminium stanchion mount, 5° up-tilt - 50mm pole



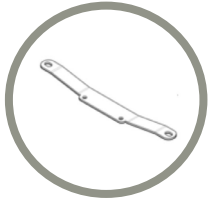
BH-BRKT-A-KIT

- 316 stainless steel wall/ceiling flush mount bracket kit



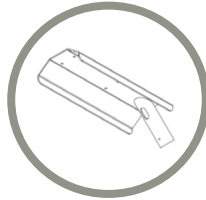
BH-STMB-25-10-HD

- Aluminium stanchion mount, 25° up-tilt - 50mm pole



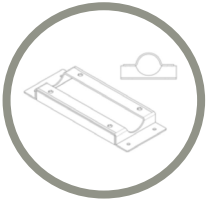
BH-BRKT-F-KIT

- 316 stainless steel wall/ceiling flush mount bracket kit



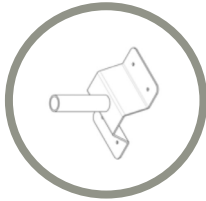
BH-STMB-45-10-HD

- Aluminium stanchion mount, 45° up-tilt - 50mm pole



BH-BRKT-LG-PF

- Aluminium pipe mount bracket kit - 50mm



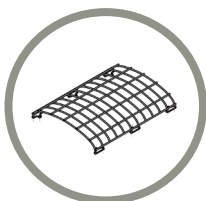
HZX-SPIGOT-34

- Aluminium wall mount spigot plate - 34mm



H6XCAB72

- 72" stainless steel safety rope



BH-WG-KIT

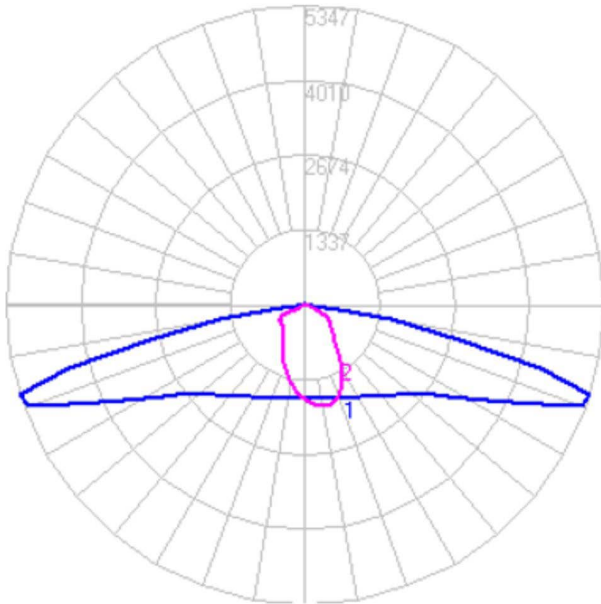
- Stainless steel wire guard kit

Vigilant Replacement Parts	
Part Number	Description
BHPSEG3BN	Driver Replacement Kit 230VAC 350mA Battery Backup (3,000lm) - White LED Models
BHPSEG6BN	Driver Replacement Kit 230VAC 750mA Battery Backup (6,500lm) - White LED Models
BHPSE23NN	Driver Replacement Kit 100-277VAC 350mA (3,000lm) - White LED Models
BHPSE26NN	Driver Replacement Kit 100-277VAC 750mA (6,500lm) - White LED Models
BHPSEG3BNA	Driver Replacement Kit 230VAC 430mA Battery Backup (3,000lm) - Amber LED Models
BHPSEG5BNA	Driver Replacement Kit 230VAC 860mA Battery Backup (5,000lm) - Amber LED Models
BHPSE23NNA	Driver Replacement Kit 100-277VAC 430mA (3,000lm) - Amber LED Models
BHPSE25NNA	Driver Replacement Kit 100-277VAC 860mA (5,500lm) - Amber LED Models
BHPSEG3BNG	Driver Replacement Kit 100-277VAC 430mA (2,600lm) - Green LED Models
BHBATTKIT	Battery Replacement Kit (Vigilant & SafeSite)
BHLENSCLR	Lens Kit Clear Polycarbonate
BHLENSDIFF	Lens Kit Diffused Polycarbonate
BHLENSDD	Lens Kit Domed Diffused Polycarbonate

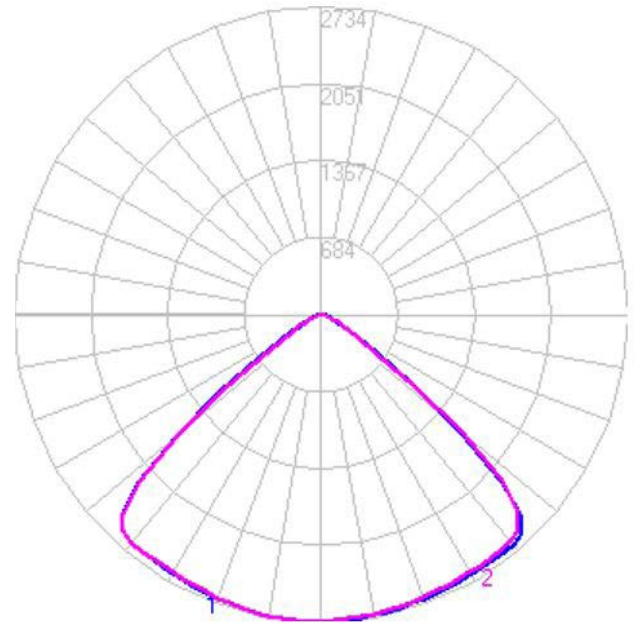
DISCLAIMER. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. When ordering, refer to www.dialight.com for current versions of: (a) relevant product documentation (including the relevant product data sheets); (b) Dialight terms and conditions 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.

Beam Distribution

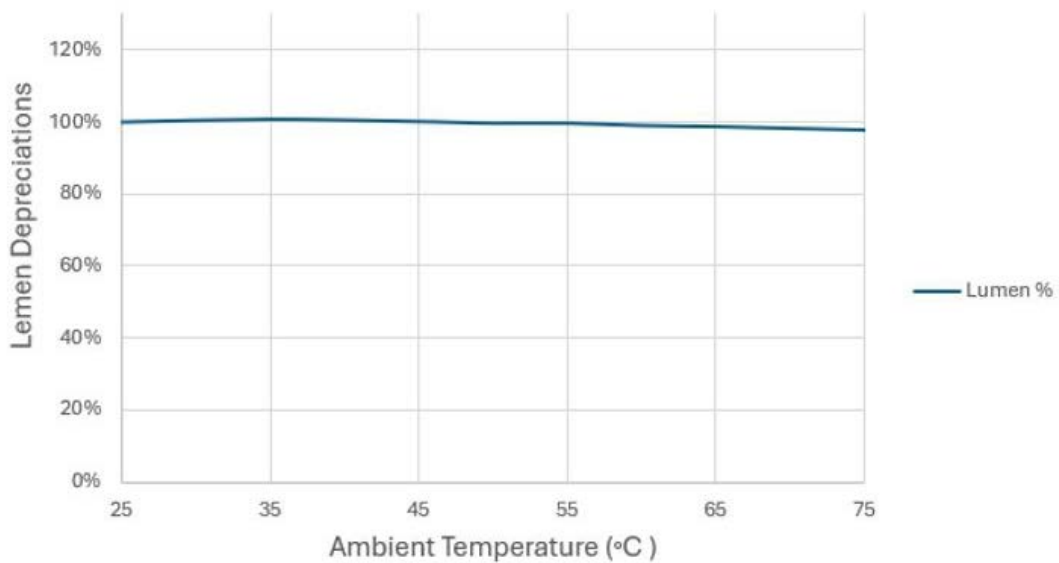
Ultra-Wide Walkway (Type 1) - Clear



Circular - Clear



Thermal Roll-Off



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.

Inrush Current

Inrush Current						
Duration (T50), 0.4ms						
Supply Voltage (VAC)		100	120	230	240	277
Peak Inrush Current (A _{pk})		6.40	7.70	14.80	15.40	17.80

Ground Leakage						
Supply Voltage (VAC)		100	120	230	240	277
Ground Leakage Current (mA)		0.40	0.50	0.80	0.83	1.00

Lumen Maintenance Factor

Vigilant Bulkhead 6,500lm								
Ambient Temperature	Hours							
	0	15000	30000	45000	60000	75000	90000	100000
25°C	100%	98%	96%	95%	93%	92%	90%	90%
30°C	100%	98%	96%	95%	93%	92%	90%	90%
35°C	100%	98%	96%	95%	93%	92%	90%	90%
40°C	100%	98%	96%	95%	93%	92%	90%	90%
45°C	100%	98%	96%	95%	93%	92%	90%	90%
50°C	100%	97%	96%	95%	93%	92%	90%	89%
55°C	100%	97%	96%	95%	93%	92%	90%	89%
60°C	99%	97%	95%	94%	93%	91%	90%	89%
65°C	99%	97%	95%	94%	92%	91%	89%	89%

Based on 9,000 hour LM80 data

Vigilant Bulkhead 3,000lm								
Ambient Temperature	Hours							
	0	15000	30000	45000	60000	75000	90000	100000
25°C	100%	98%	96%	95%	93%	92%	90%	90%
30°C	100%	98%	96%	95%	93%	92%	90%	90%
35°C	100%	98%	96%	95%	93%	92%	90%	90%
40°C	100%	98%	96%	95%	93%	92%	90%	90%
45°C	100%	98%	96%	95%	93%	92%	90%	90%
50°C	100%	97%	96%	95%	93%	92%	90%	89%
55°C	100%	97%	96%	95%	93%	92%	90%	89%
60°C	99%	97%	95%	94%	93%	91%	90%	89%
65°C	99%	97%	95%	94%	92%	91%	89%	89%

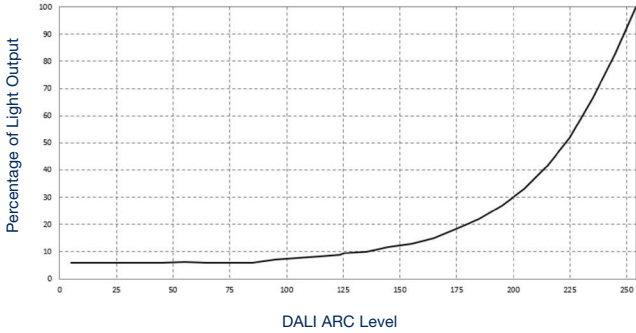
Based on 9,000 hour LM80 data

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.

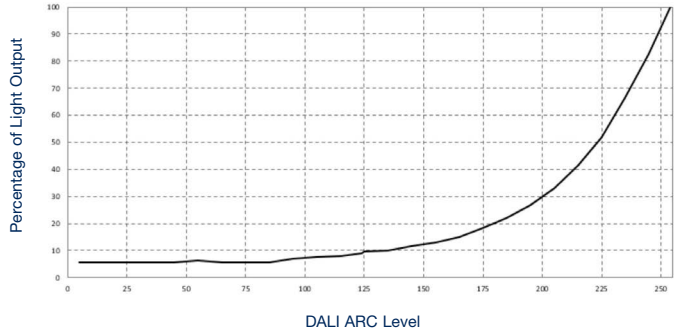
Dimming Curves

DALI Dimming

6,500lm

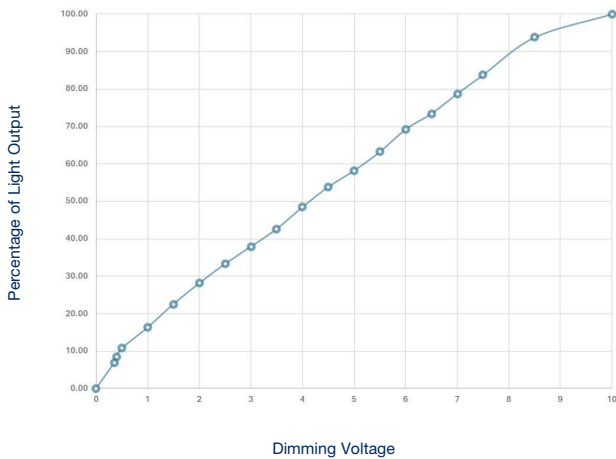


3,000lm

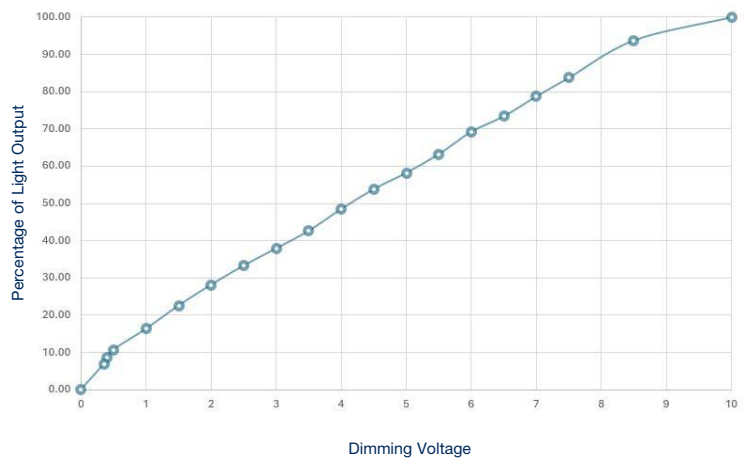


0-10V Dimming

6,500lm



3,000lm



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.

Australia

108 Howe Street
Osborne Park, WA 6017
Tel: +61 (0) 8 9244 7600
Fax: +61 (0) 8 9244 7601
info@dialight.com.au

Southeast Asia

56 Kallang Pudding Road
#09 – 08 HH@Kallang
Singapore 349328
Tel: +65 6578 7271
Fax: +65 6578 7150
enquiry@dialight.com.sg

WARNING / DISCLAIMERS:

Installation & secondary retention. The use of this product 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) as applicable. Dialight products are intended for ultimate purchase, installation and operation by knowledgeable persons trained in the functional assessment, installation, use and maintenance of such products and all customers (including but not limited to end customers) are responsible for assessing the suitability of Dialight products for any given installation requirement. 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 as appropriate) and in compliance with all applicable laws and regulations.

Product specifications & warranties. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. All values and performance data herein are design or typical values when measured under laboratory conditions. The information herein is subject to change without notice. The products / software detailed herein are subject to applicable warranties and terms and conditions of use/purchase. Unless agreed otherwise in writing by an authorized representative of Dialight, Dialight does not represent that its products are fit for any particular purpose and accepts no liability for the installation and/or unauthorised use of its products. When ordering, refer to www.dialight.com for current versions of: (a) relevant product documentation (including relevant product data sheets); (b) Dialight terms and conditions of sale; and, (c) the relevant product warranties. 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 and information provided at www.dialight.com, the latter shall prevail.

Exclusion of liability. To the extent permissible under the relevant law, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products. Whilst Dialight has used its reasonable endeavours to ensure the completeness and accuracy of information herein, Dialight does not assume any liability for damages resulting from use of this information or for any third-party representations made in relation to Dialight products.