





Dialight® LED Bulkhead Technical Specification Sheet - APAC

APRIL 2022



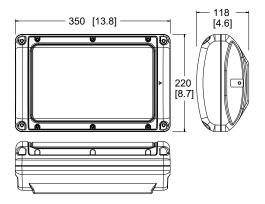
Vigilant[®] LED Bulkhead

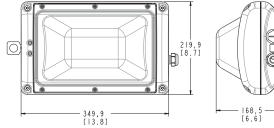
100-277 VAC Model



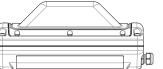
Certifications & Ratings

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









Dimensions in mm (inches)

Mechanical Informati	ion:
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 Specification	ons:
Operating voltage: Standard models: Battery backup models:	100-277 VAC / 120-250 VDC 110/120 VAC, 230/240 VAC
Operating temperature: Standard models: Battery backup models:	-40°C to +65°C (-40°F to +149°F) -20°C to +55°C (-4°F to +131°F)
Surge protection:	Tested to IEC 61000-4-5 6kV/3kA, 1.2/50, 8/20us Combination Wave Line-line and line-ground
THD:	< 18%
Power factor:	> 0.9
Dimming:	DALI 1.0 and 2.0 0-10 VDC continuous dimming to <10%
Battery Backup Mode	els: (integral battery)
Battery duration* (circula 6.5k lumen outputs:	180 mins ~ 900 lm 90 mins ~ 1100 lm
3k lumen outputs:	60 mins ~ 1140 lm 180 mins ~ 800 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm
Expected battery life:	4 years
Photometric Informati	ion:
Lumen output*:	3,000 & 6,500 lm (white light)
CRI:	> 80 (white light)
CCT:	5000K (cool white) 4000K (neutral white) 2700K (warm white)

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

Amber

Green

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Ordering Information

Vigilant® LED Bulkhead



Part Number	ber Fixture Under Wat		lm/W	Voltage	ССТ	Lens	Beam Distribution
		-	Sta	ndard Models with F	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 Polycarbonat		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
			Batter	y Backup Models wi	th 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, please contact your local representative for more information.

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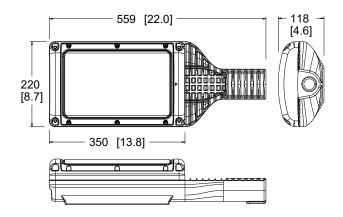
Vigilant[®] LED Bulkhead

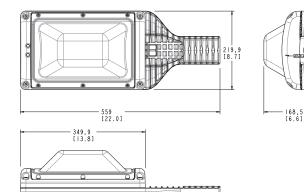
Pole Mount Model



Certifications & Ratings

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





Dimensions in mm (inches)

	211. 2
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 Specification	ns:
Operating voltage: Standard models: Battery backup models:	100-277 VAC / 120-250 VDC 110/120 VAC, 230/240 VAC
Operating temperature: Standard models: Battery backup models:	-40°C to +65°C (-40°F to +149°F) -20°C to +55°C (-4°F to +131°F)
Surge protection:	Tested to IEC 61000-4-5 6kV/3kA, 1.2/50, 8/20us Combination Wave Line-line and line-ground
THD:	< 18%
Power factor:	> 0.9
Dimming:	DALI 1.0 and 2.0 0-10 VDC continuous dimming to <10%
Battery Backup Model	ls: (integral battery)
Battery duration* (circular 6.5k lumen outputs: 3k lumen outputs:	optic, clear lens): 180 mins ~ 900 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm 180 mins ~ 800 lm 90 mins ~ 1100 lm
Expected battery life:	60 mins ~ 1140 lm 4 years

Mechanical Information:

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

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Ordering Information

Vigilant® LED Bulkhead - Pole Mount Model



Part Number	Fixture Lumens	Wattage	lm/W	Voltage	ССТ	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)
			Pol	e Mount Battery Backup Mode	els		·
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

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

Part numbers listed in bold are typically available in stock. For 2700k (warm white) CCT, please contact your local representative for more information. 44mm spigot entry models available.

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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



H6XCAB7272" stainless steel safety

rope



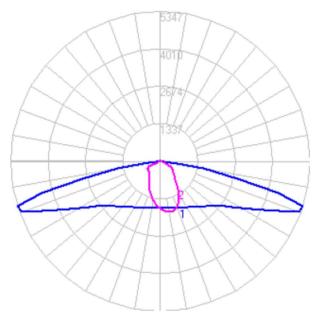
BH-WG-KITStainless steel wire guard kit

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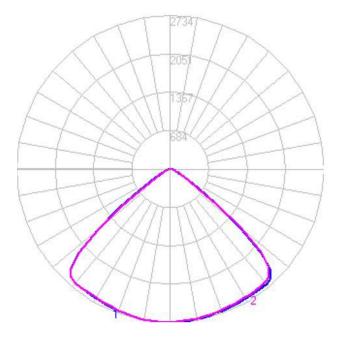


Beam Distribution

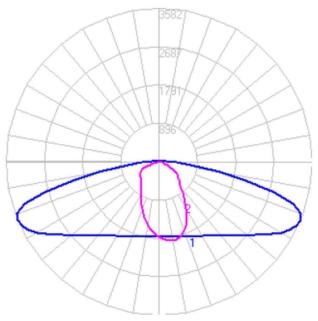
Ultra-Wide Walkway (Type 1) - Clear



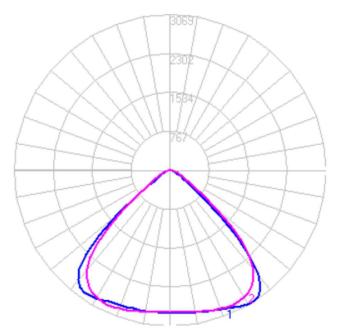
Circular - Clear



Ultra-Wide Walkway (Type 1) - Diffused



Circular - Diffused

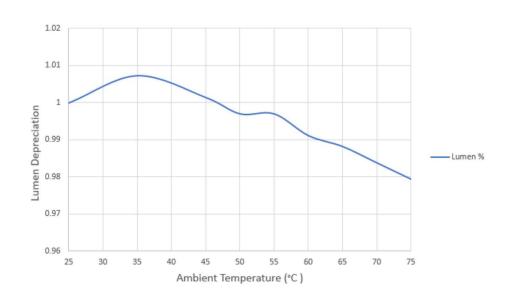


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Thermal Roll-Off



Inrush Current / Circuit Breakers

Output	In rush (A) current @ input voltage							
Output	100 VAC Duration (MS) 120 VAC Duration (MS) 230 VAC Duration (MS) 2							Duration (MS)
6,500	6	0.6	8	0.6	15	0.6	18	0.6
3,000	6	0.6	8	0.6	15	0.6	18	0.6

Output	GND Leakage (mA) input voltage								
Output	100 VAC	120 VAC	230 VAC	277 VAC					
6,500	0.5	0.5	0.8	1.0					
3,000	0.5	0.5	0.8	1.0					

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Lumen Maintenance Factor

	Vigilant Bulkhead 6,500lm									
Ambient	Hours									
Temperature	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	Hours										
Temperature	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

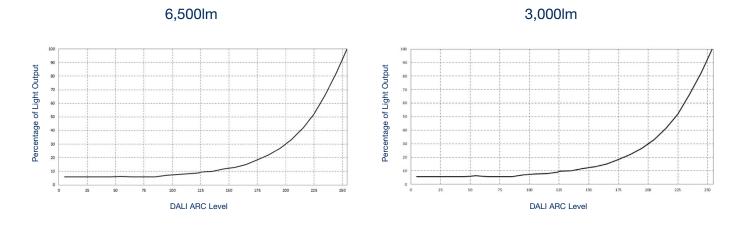
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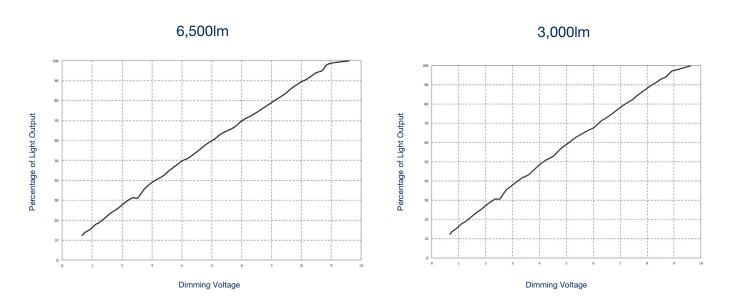


Dimming Curves

DALI Dimming



0-10V Dimming



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Australia

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Southeast Asia

33 Ubi Avenue 3 #07-72 Vertex (Tower A) Singapore 408868 Tel: +65 6578 7157 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 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 use and maintenance of such products and in 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. A 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 product / 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 comes not represent that its products are fit for any particular purpose and accepts no liability for the installation and/or unauthorised use of its 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 w