# Dialight

# **Dialight LED Bulkhead - Conveyor** Technical Specification Sheet - APAC



**JUNE 2024** 

## SafeSite® LED Bulkhead - Conveyor

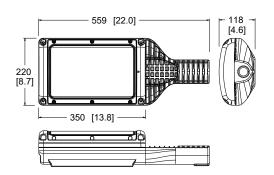
**Technical Specifications** 

Dialight



### **Certifications & Ratings**

- 10 year warranty (excluding battery)
- ATEX / IECEx Zone 1, 21
  - Ex eb mb IIC T4 Gb
  - EX tb IIIC T130°C Db
- ATEX / IECEx Zone 2, 22
  - Ex ec IIC T4 Gc
  - Ex to IIIC T130°C Do
- IECEx CSA 21.0047X Ta = -40°C to +65°C for standard models
- IECEX CSA 21.0047X Ta = -20°C to +55°C for battery backup model
- IP66/67
- IK10
- DNV TAE00004H1
- L70 > 150,000 hours @ 65°C (149°F)



Dimensions in mm (inches)

#### **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)
Hardware:	316 Stainless Steel
Electrical Specification	ons:
Operating voltage:	100-277 VAC / 120-250 VDC 230-240 VAC
<b>Operating temperature:</b> 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)
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 Mod	els: (integral battery)
<b>Battery duration* (circula</b> 6.5k lumen outputs:	180 mins ~ 900 lm 90 mins ~ 1100 lm
3k lumen outputs:	60 mins ~ 1140 lm 180 mins ~ 800 lm

#### **Photometric Information:**

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

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

90 mins ~ 1100 lm 60 mins ~ 1140 lm

All values typical unless otherwise stated (tolerance +/- 10%)  $* @ 25^{\circ}$ C ambient

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#### www.dialight.com



## **Ordering Information** SafeSite® LED Bulkhead - Conveyor



## Zone 1, 21

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	ССТ	Lens	Beam Distribution			
Conveyor Models										
BPA-4UC2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)			
BPA-4UN2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)			
BPA-4UA2-5NNN-VGN	4,000	46	87 100-277VAC / 120-250VDC		Amber	Clear Polycarbonate	Ultra-Wide (Type 1)			
	Conveyor Battery Backup Models									
BPA-4UCG-6NNN-VGF	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)			
BPA-4UNG-6NNN-VGF	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)			
BPA-4UAG-5NNN-VGF	4,000	49	82	230-240VAC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)			

## Zone 2, 22 or Zone 21

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	ССТ	Lens	Beam Distribution			
Conveyor Models										
BPB-4UC2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)			
BPB-4UN2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)			
BPB-4UA2-5NNN-VGN	3,900	46	85	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)			
	Conveyor Battery Backup Models									
BPB-4UCG-6NNN-VGF	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)			
BPB-4UNG-6NNN-VGF	6,400	48	133	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)			
BPB-4UAG-5NNN-VGF	3,900	49	80	230-240VAC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)			

All values typical unless otherwise stated (tolerance +/- 10%). 2700k models available on request 44mm spigot entry option available



# Accessories



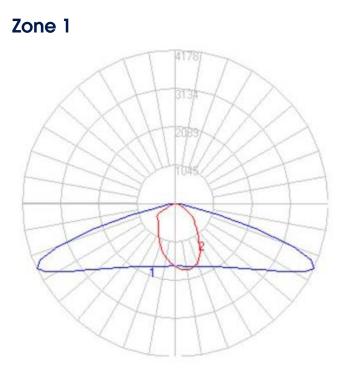
HZX-SPIGOT-34Aluminium wall mount spigot plate - 34mm

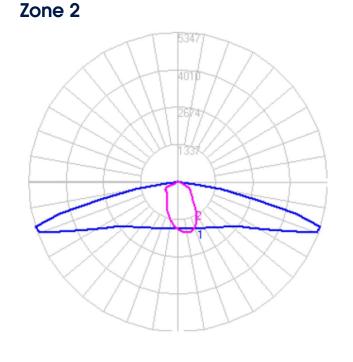


BH-WG-KITStainless steel wire guard kit

# **Beam Distribution**

## Ultra-Wide Walkway (Type 1) - Clear





DISCLAIMER. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. When ordering, refer to <u>www.dialight.com</u> 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.com as at the date of Dialight roducts and/or an end-user, versions of documents available at <u>www.dialight.com</u> 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 <u>www.dialight.com</u>, the latter shall prevail.

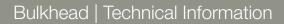


# Lumen Maintenance Factor

	Vigilant Bulkhead 6,500Im										
Ambient											
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%			

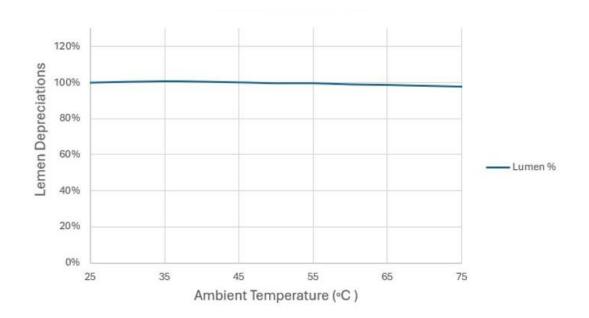
Based on 9,000 hour LM80 data

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# **Thermal Roll-Off**



# **Inrush Current**

Inrush Current									
Duration (T50), 0.4ms									
Supply Voltage (VAC)		100	120	230	240	277			
Peak Inrush Current (Apk)		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		

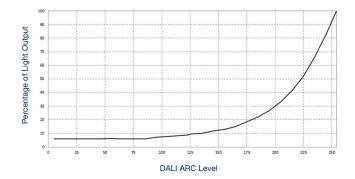
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# **Dimming Curves**

## **DALI** Dimming

6,500lm



## 0-10V Dimming



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## Australia

#### **Southeast Asia**

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