



# Dialight LED Bulkhead - Conveyor

## Technical Specification Sheet - APAC



JUNE 2024

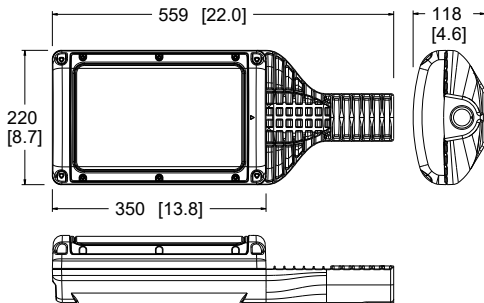
## SafeSite® LED Bulkhead - Conveyor

### Technical Specifications



#### Certifications & Ratings

- 10 year warranty (excluding battery)
- ATEX / IECEx Zone 1, 21
  - Ex eb mb IIC T4 Gb
  - EX tb IIC T130°C Db
- ATEX / IECEx Zone 2, 22
  - Ex ec IIC T4 Gc
  - Ex tc IIC T130°C Dc
- 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:

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

#### Materials:

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

#### Electrical Specifications:

<b>Operating voltage:</b>	100-277 VAC / 120-250 VDC 230-240 VAC
<b>Operating temperature:</b>	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)
<b>Transient protection:</b>	IEC 61000-4-5 6kV line-line & line-ground
<b>THD:</b>	< 20%
<b>Power factor:</b>	> 0.9
<b>Dimming:</b>	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:

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

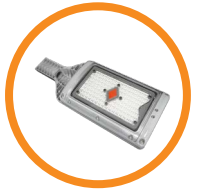
All values typical unless otherwise stated (tolerance +/- 10%)  
\* @ 25°C ambient

**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 Bulkhead - Conveyor



### Zone 1, 21

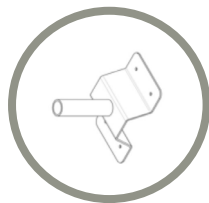
Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Conveyor Models							
BPA-4UC2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4UN2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	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	CCT	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)

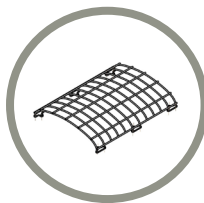
All values typical unless otherwise stated (tolerance +/- 10%).  
 2700k models available on request  
 44mm spigot entry option available

## Accessories



### HZX-SPIGOT-34

- Aluminium wall mount spigot plate - 34mm



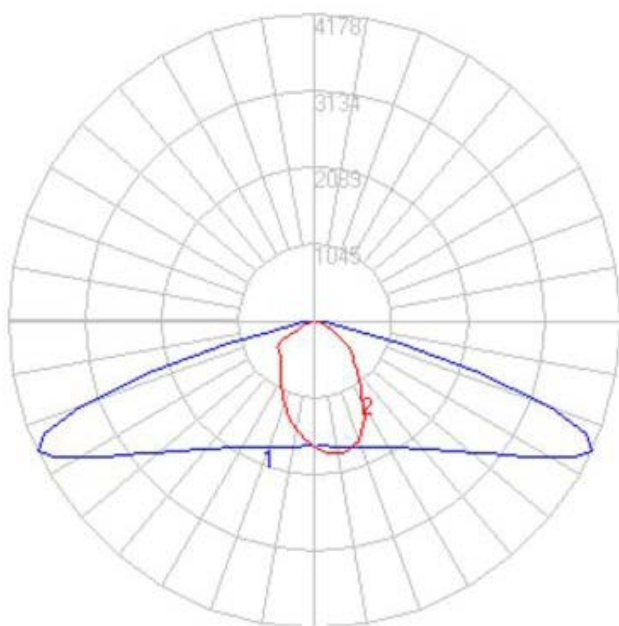
### BH-WG-KIT

- Stainless steel wire guard kit

## Beam Distribution

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

#### Zone 1



#### Zone 2



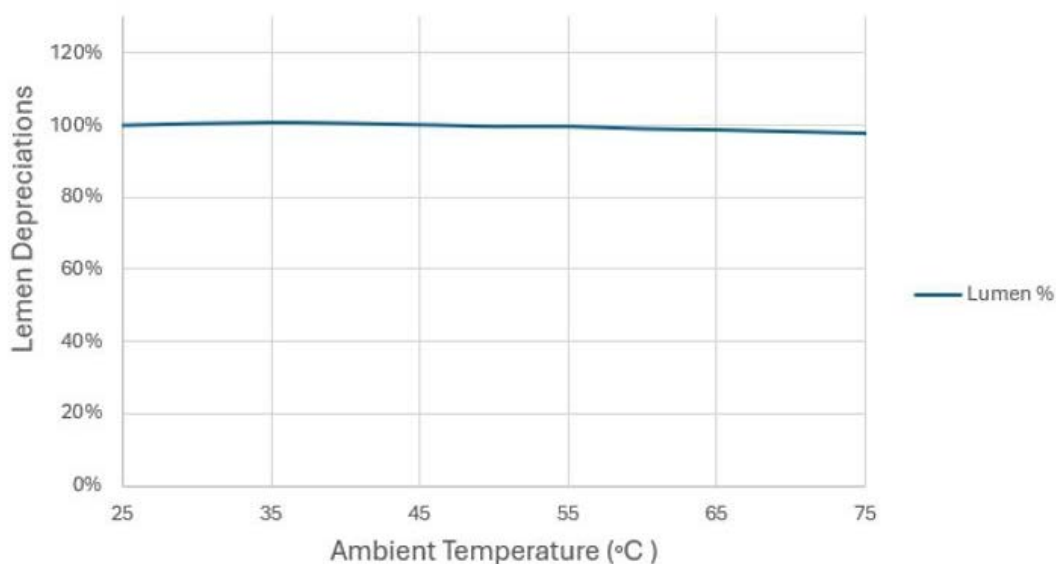
# Lumen Maintenance Factor

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

**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](http://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](http://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](http://www.dialight.com), the latter shall prevail.

## 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

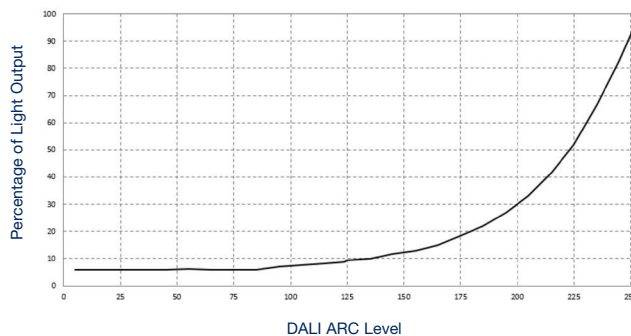
Ground Leakage						
Supply Voltage (VAC)		100	120	230	240	277
Ground Leakage Current (mA)		0.40	0.50	0.80	0.83	1.00

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# Dimming Curves

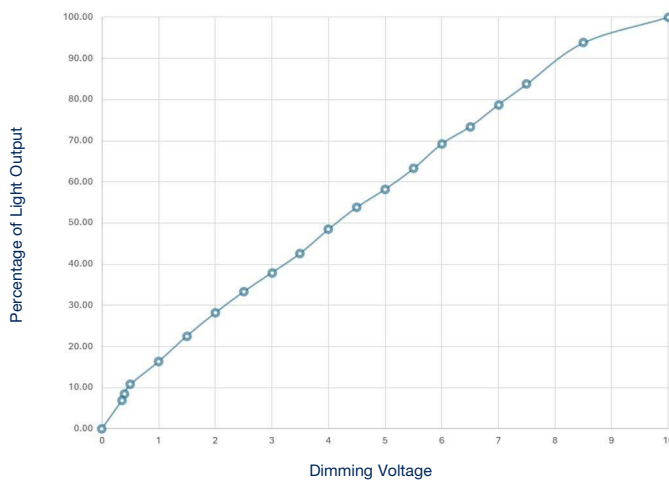
## DALI Dimming

6,500lm



## 0-10V Dimming

6,500lm



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