

Dialight LED Bulkhead - Conveyor

Technical Specification Sheet - EMEA











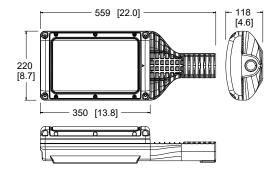
SafeSite® LED Bulkhead - Conveyor

Technical Specifications



Certifications & Ratings

- 10 year warranty (excluding battery)
- ATEX / IECEx Zone 1, 21
 - Ex eb mb IIC T4 Gb
 - EX tb IIIC T130°C Db
- ATEX / IECEx Zone 2, 22
 - Ex ec IIC T4 Gc
 - Ex to IIIC T130°C Do
- Ta = -40°C to +65°C for standard models
- Ta = -20°C to +55°C for battery backup models
- 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: 44mm ID
Optional 35mm 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 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 180 mins ~ 800 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

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

* @ 25°C ambient

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Ordering Information

SafeSite® LED Bulkhead - Conveyor



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Zone 1, 21

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	ССТ	Lens	Beam Distribution				
Conveyor Models											
BZA-4UC2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)				
BZA-4UN2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)				
Conveyor Battery Backup Models											
BZA-4UCG-6NNN-VGF	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)				
BZA-4UNG-6NNN-VGF	6,200	48	129	230-240VAC	4000K (neutral white)	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										
BZB-4UC2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)			
BZB-4UN2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC 4000K (neutral white		Clear Polycarbonate	Ultra-Wide (Type 1)			
Conveyor Battery Backup Models										
BZB-4UCG-6NNN-VGF	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)			
BZB-4UNG-6NNN-VGF	6,400	48	133	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)			

All values typical unless otherwise stated (tolerance +/- 10%). 2700k models available on request 35mm spigot entry option available



Accessories



HZX-SPIGOT-34

 Aluminium wall mount spigot plate - 34mm



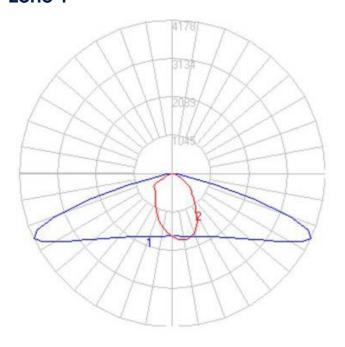
BH-WG-KIT

• Stainless steel wire guard kit

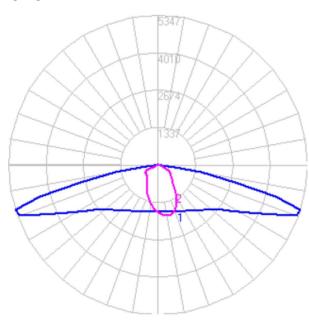
Beam Distribution

Ultra-Wide Walkway (Type 1) - Clear

Zone 1



Zone 2



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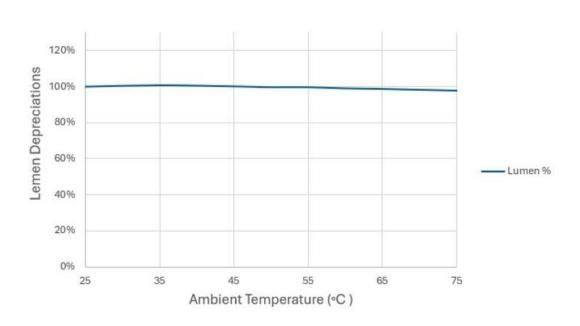
Lumen Maintenance Factor

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



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			

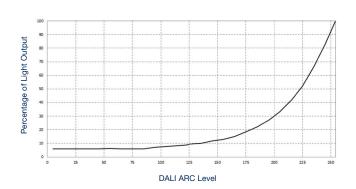
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Dimming Curves

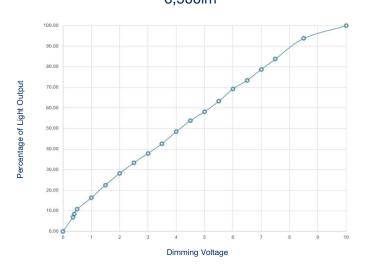
DALI Dimming





0-10V Dimming

6,500lm



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