



# .....Dialight

## **Dialight® LED Bulkhead - Conveyor** Technical Specification Sheet - EMEA

JUNE 2024

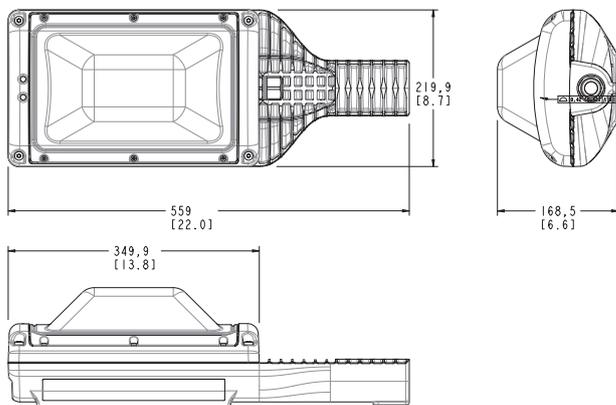
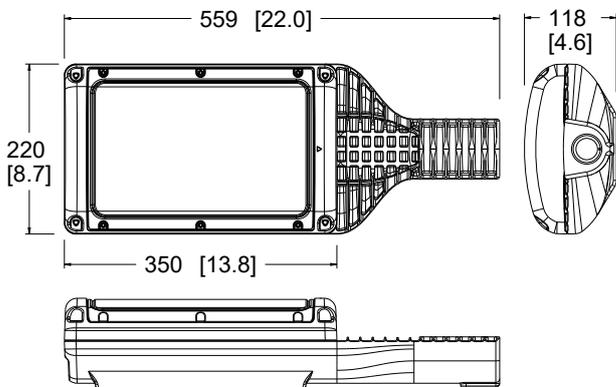
## Vigilant® LED Bulkhead - Conveyor

### Technical Specifications



#### Certifications & Ratings

- 10 year warranty (excluding battery)
- CE / ENEC / UKCA
- 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:

<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>	44mm ID Optional 35mm 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) Polycarbonate domed diffused
<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)

<b>Battery duration* (circular optic, clear lens):</b>	
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

## Ordering Information

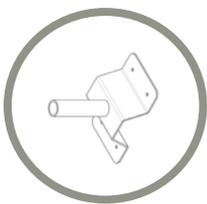
### Vigilant® LED Bulkhead - Conveyor



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

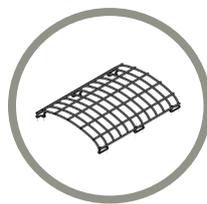
All values typical unless otherwise stated (tolerance +/- 10%)  
 For 2700k (warm white) CCT, please contact your local representative for more information.  
 35mm spigot entry models available.

## Accessories



### HZX-SPIGOT-34

- Aluminium wall mount spigot plate - 34mm



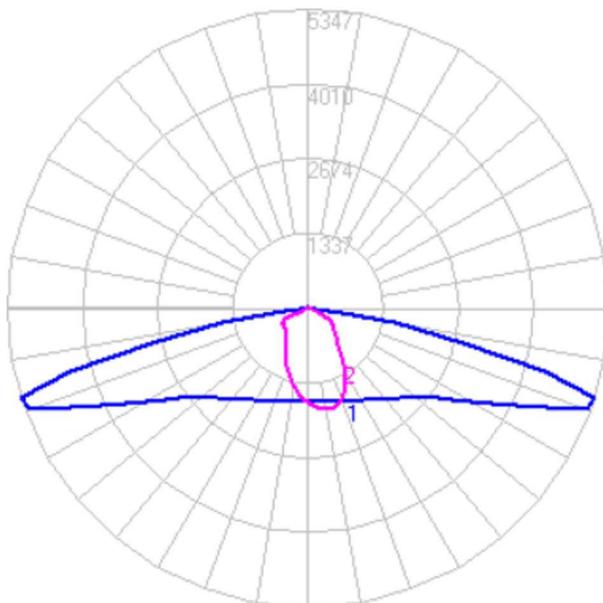
### BH-WG-KIT

- Stainless steel wire guard kit

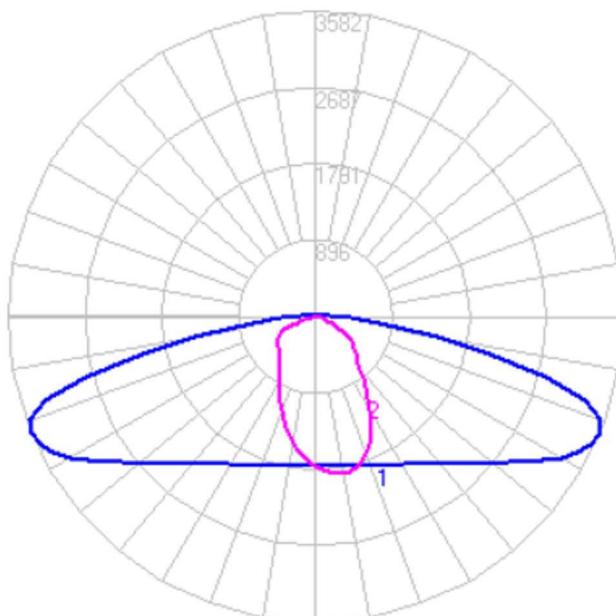
**DISCLAIMER.** All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. When ordering, refer to [www.dialight.com](http://www.dialight.com) for current versions of: (a) relevant product documentation (including the relevant product data sheets);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

# Beam Distribution

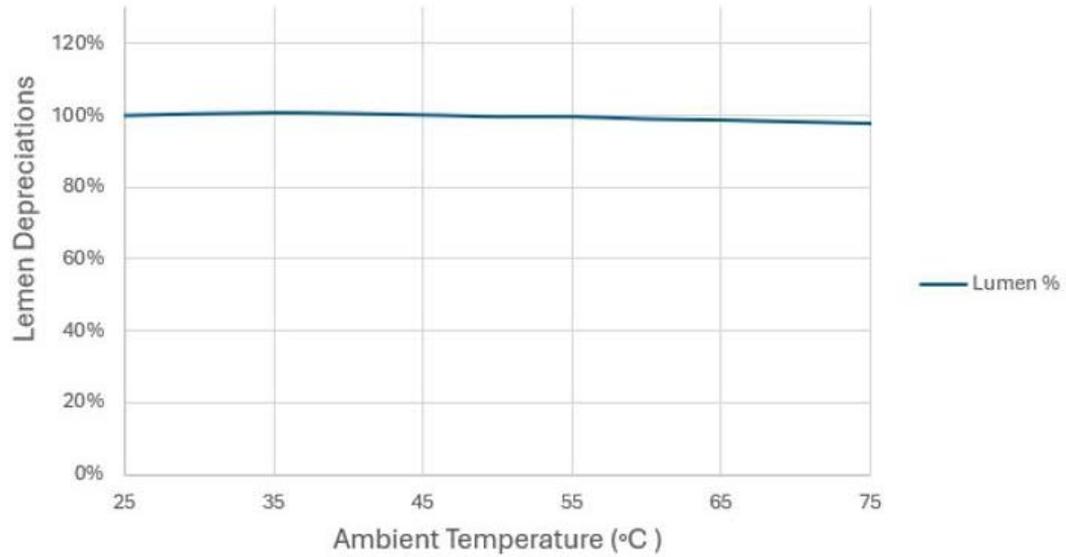
## Ultra-Wide Walkway (Type 1) - Clear



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



## Thermal Roll-Off



## Inrush Current

Inrush Current					
Duration (T50), 0.4ms					
Supply Voltage (VAC)	100	120	230	240	277
Peak Inrush Current (A <sub>pk</sub> )	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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# Lumen Maintenance Factor

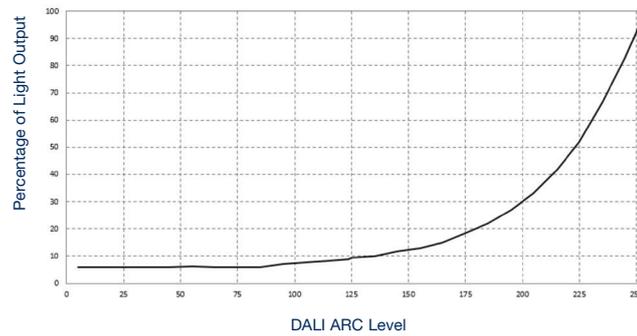
Vigilant Bulkhead 6,500lm								
Ambient Temperature	Hours							
	0	15000	30000	45000	60000	75000	90000	100000
25°C	100%	98%	96%	95%	93%	92%	90%	90%
30°C	100%	98%	96%	95%	93%	92%	90%	90%
35°C	100%	98%	96%	95%	93%	92%	90%	90%
40°C	100%	98%	96%	95%	93%	92%	90%	90%
45°C	100%	98%	96%	95%	93%	92%	90%	90%
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

# Dimming Curves

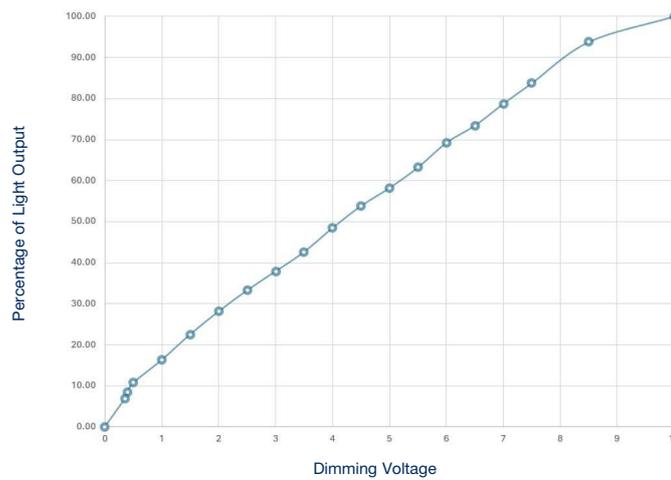
## DALI Dimming

6,500lm



## 0-10V Dimming

6,500lm



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