



.....Dialight

# Dialight® LED Bulkhead - Conveyor

## Technical Specification Sheet - APAC

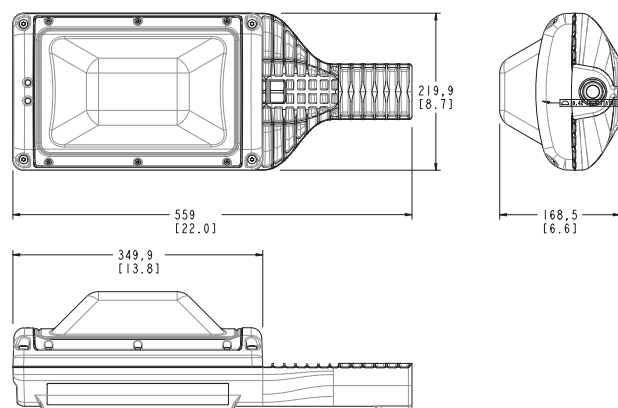
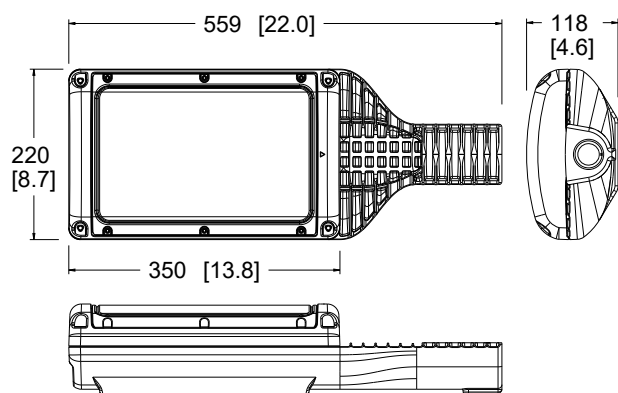
# Vigilant® LED Bulkhead - Conveyor

## Technical Specifications



### Certifications & Ratings

- 10 year warranty (excluding battery)
- CE / RCM
- 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:

#### 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 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  
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

# Ordering Information

## Vigilant® LED Bulkhead - Conveyor



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

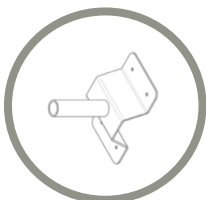
All values typical unless otherwise stated (tolerance +/- 10%).

Part numbers listed in bold are typically available in stock.

For 2700k (warm white) CCT, please contact your local representative for more information.

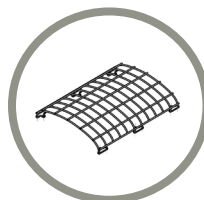
44mm spigot entry models available.

## Accessories



### HZX-SPIGOT-34

- Aluminium wall mount spigot plate - 34mm



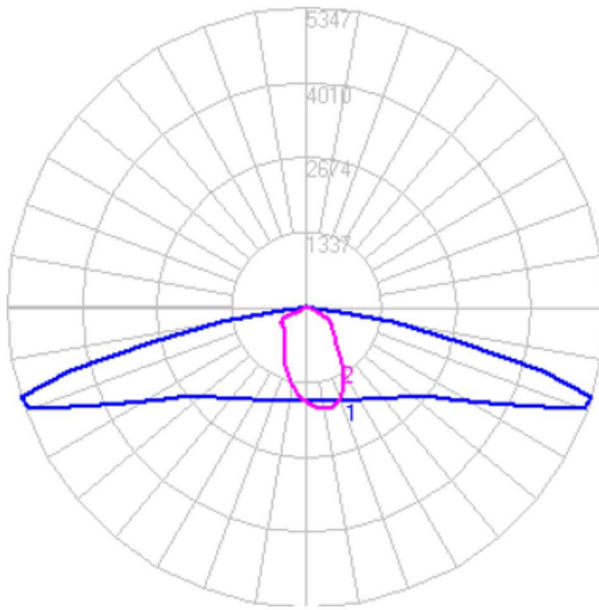
### BH-WG-KIT

- Stainless steel wire guard kit

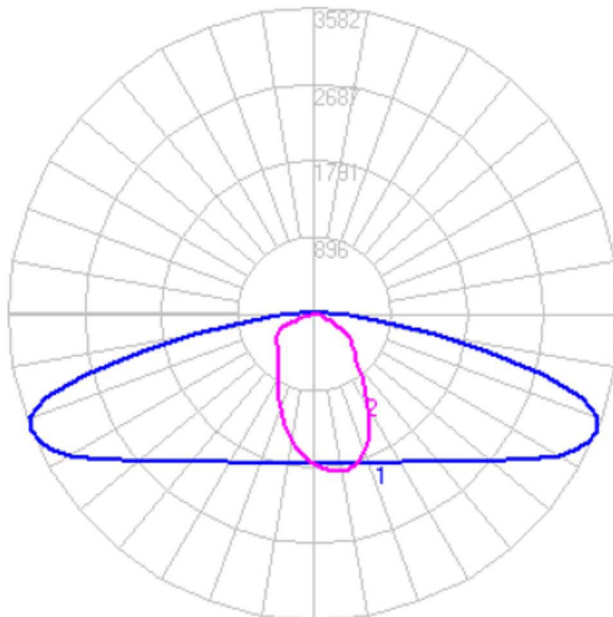
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# Beam Distribution

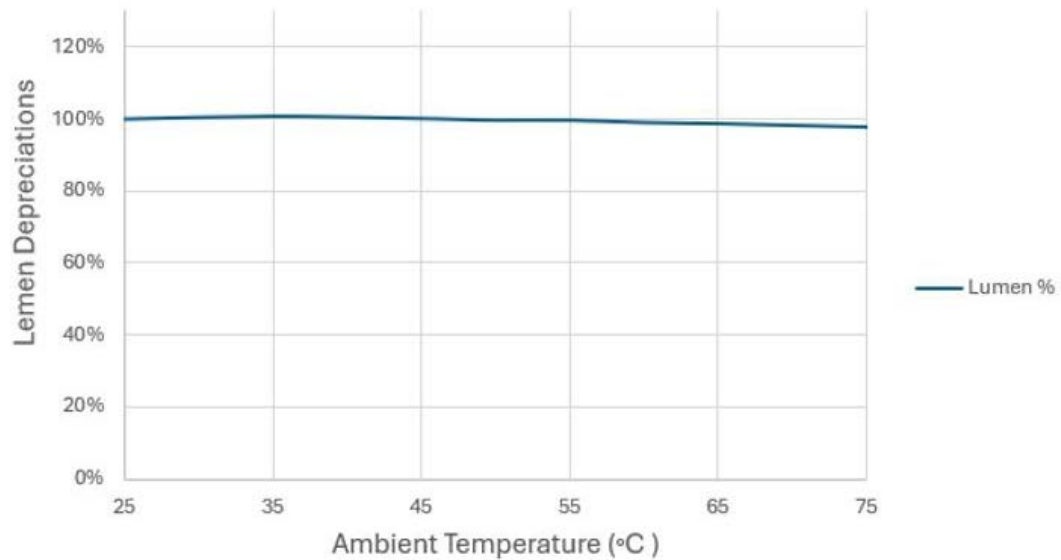
## Ultra-Wide Walkway (Type 1) - Clear



## 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%

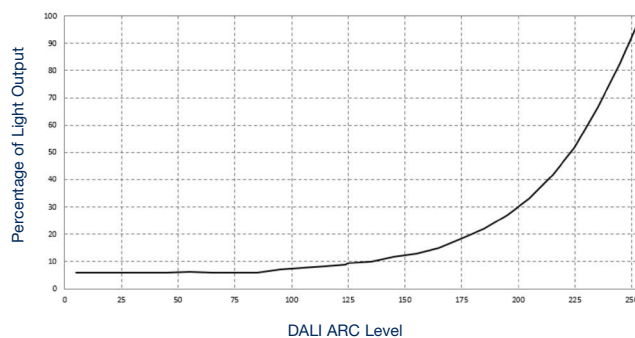
Based on 9,000 hour LM80 data

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# Dimming Curves

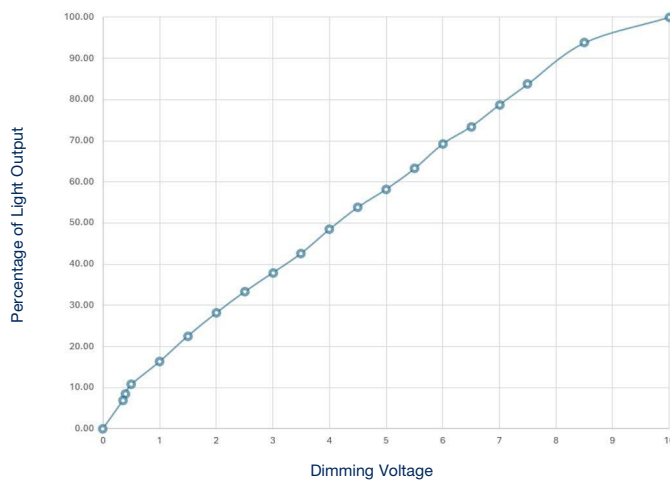
## DALI Dimming

6,500lm



## 0-10V Dimming

6,500lm



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