



.....Dialight

Dialight® LED Bulkhead - Conveyor

Technical Specification Sheet - EMEA

JUNE 2024

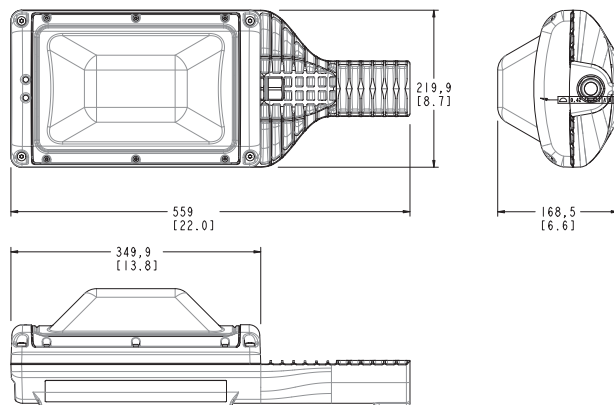
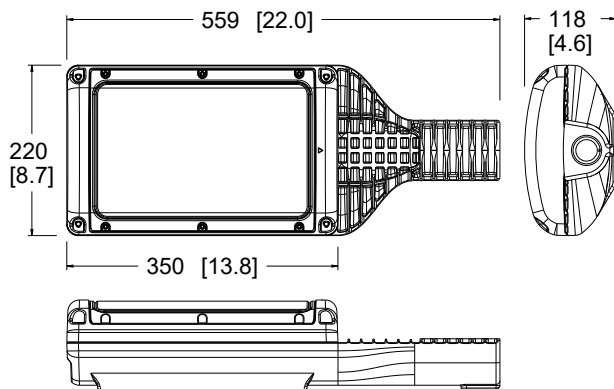
Vigilant® LED Bulkhead - Conveyor

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:

| | |
|---------------------------|-----------------------------|
| 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) 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

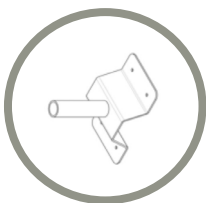
Vigilant® LED Bulkhead - Conveyor



| Part Number | Fixture Lumens | Wattage | lm/W | Voltage | CCT | Lens | Beam Distribution |
|--------------------------------|----------------|---------|------|-------------------------|-----------------------|---------------------|---------------------|
| Conveyor Models | | | | | | | |
| 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) |
| Conveyor Battery Backup Models | | | | | | | |
| 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) |

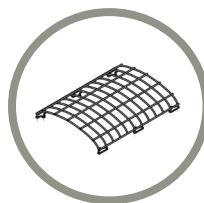
All values typical unless otherwise stated (tolerance +/- 10%)
For 2700k (warm white) CCT, please contact your local representative for more information.
35mm spigot entry models available.

Accessories



HZX-SPIGOT-34

- Aluminium wall mount spigot plate - 34mm



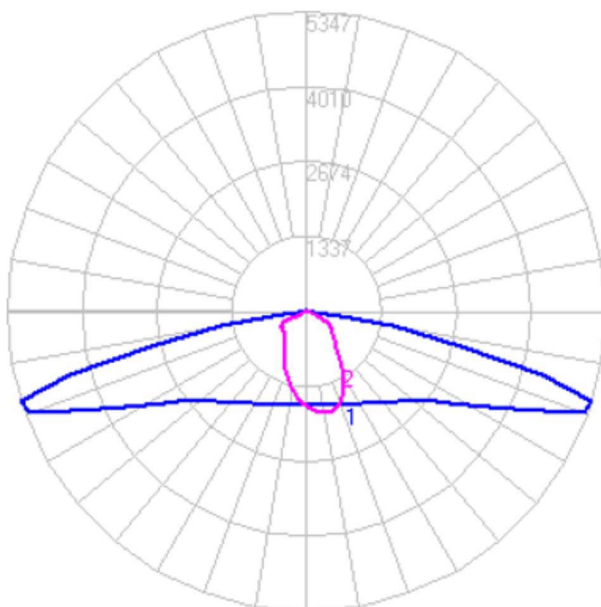
BH-WG-KIT

- Stainless steel wire guard kit

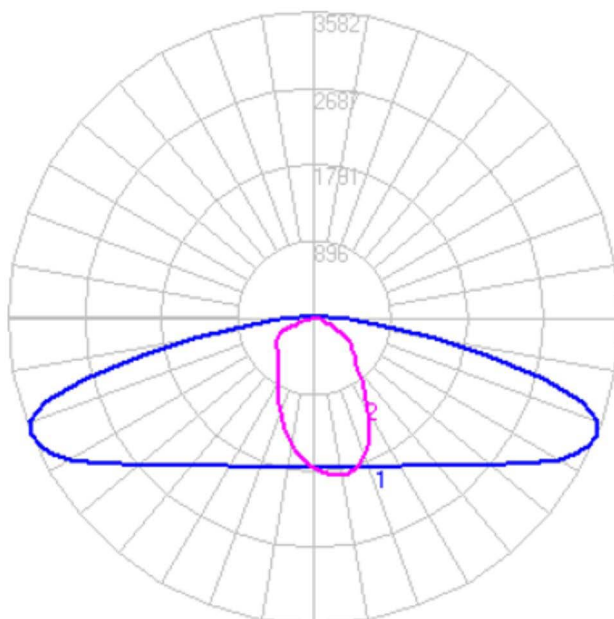
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Beam Distribution

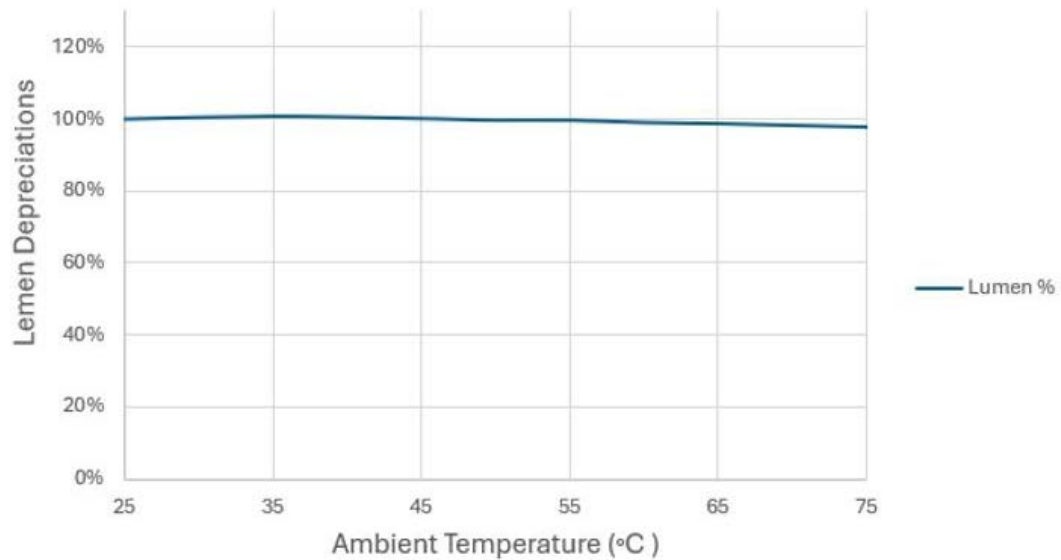
Ultra-Wide Walkway (Type 1) - Clear



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 _{pk}) | | 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% |

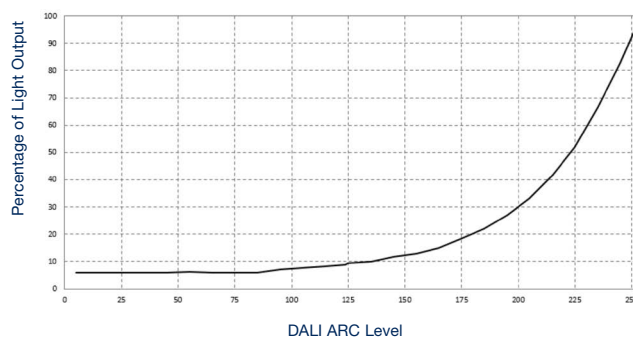
Based on 9,000 hour LM80 data

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Dimming Curves

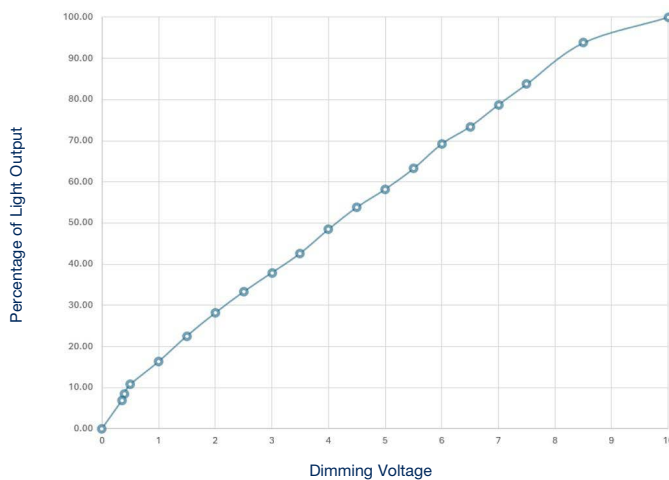
DALI Dimming

6,500lm



0-10V Dimming

6,500lm



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