

# .....Dialight



## Dialight® LED Bulkhead

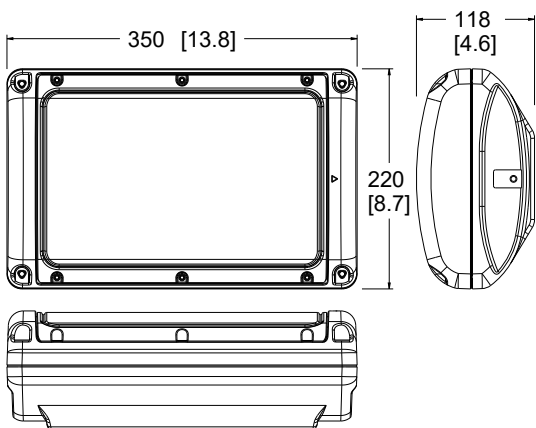
### Technical Specification Sheet - APAC

## Vigilant® LED Bulkhead 100-277 VAC Model



### Certifications & Ratings

- 10 year warranty
- CE / RCM
- IP66/67
- IK10
- L70 > 150,000 hours @ 65°C (149°F) ambient



Dimensions in mm (inches)

### Mechanical Information:

#### Fixture weights:

Standard models: 6.3 kg (13.8 lb)

Battery backup models: 7.7 kg (17 lb)

#### Shipping weights:

Standard models: 7 kg (15.4 lb)

Battery backup models: 8.4 kg (18.5 lb)

#### Cable entry:

(2) M20 - optional (4) M20

### 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:

Standard models: 100-277 VAC / 120-250 VDC

Battery backup models: 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)

#### Surge protection:

Tested to IEC 61000-4-5  
6kV/3kA, 1.2/50, 8/20us  
Combination Wave  
Line-line and line-ground

#### THD:

< 18%

#### Power factor:

> 0.9

#### Dimming:

DALI 1.0 and 2.0  
0-10 VDC continuous 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

#### Expected battery life:

4 years

### Photometric Information:

**Lumen output\*:** 3,000 & 6,500 lm (white light)

#### CRI:

> 80 (white light)

#### CCT:

5000K (cool white)

4000K (neutral white)

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

\* @ 25°C ambient

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## Ordering Information

### Vigilant® LED Bulkhead



### Australia

| Part Number                                     | Fixture Lumens | Wattage | lm/W | Voltage                   | CCT                   | Lens                | Beam Distribution   |
|---|----------------|---------|------|---------------------------|-----------------------|---------------------|---------------------|
| <b>Standard Models with Flush Bracket</b>       |                |         |      |                           |                       |                     |                     |
| <b>BHE-4BN2-3NFN-VGN</b>                        | 3,200          | 22      | 149  | 100-277 VAC / 120-250 VDC | 4000K (neutral white) | Clear Polycarbonate | Circular            |
| <b>BHE-4BN2-6NFN-VGN</b>                        | 6,700          | 45      | 149  | 100-277 VAC / 120-250 VDC | 4000K (neutral white) | Clear Polycarbonate | Circular            |
| BHE-4UN2-3NFN-VGN                               | 3,100          | 22      | 144  | 100-277 VAC / 120-250 VDC | 4000K (neutral white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| BHE-4UN2-6NFN-VGN                               | 6,400          | 45      | 142  | 100-277 VAC / 120-250 VDC | 4000K (neutral white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| <b>Battery Backup Models with Flush Bracket</b> |                |         |      |                           |                       |                     |                     |
| <b>BHE-4BNG-3NFN-VGF</b>                        | 3,200          | 25      | 128  | 230/240 VAC               | 4000K (neutral white) | Clear Polycarbonate | Circular            |
| <b>BHE-4BNG-6NFN-VGF</b>                        | 6,700          | 48      | 140  | 230/240 VAC               | 4000K (neutral white) | Clear Polycarbonate | Circular            |
| BHE-4UNG-3NFN-VGF                               | 3,100          | 25      | 124  | 230/240 VAC               | 4000K (neutral white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| BHE-4UNG-6NFN-VGF                               | 6,400          | 48      | 133  | 230/240 VAC               | 4000K (neutral white) | Clear Polycarbonate | Ultra-Wide (Type 1) |

All values typical unless otherwise stated (tolerance +/- 10%). Part numbers listed in **bold** are typically available in stock.

### Asia

| Part Number                                     | Fixture Lumens | Wattage | lm/W | Voltage                   | CCT                | Lens                | Beam Distribution   |
|---|----------------|---------|------|---------------------------|--------------------|---------------------|---------------------|
| <b>Standard Models with Flush Bracket</b>       |                |         |      |                           |                    |                     |                     |
| BHE-4BC2-3NFN-VGN                               | 3,200          | 22      | 149  | 100-277 VAC / 120-250 VDC | 5000K (cool white) | Clear Polycarbonate | Circular            |
| BHE-4BC2-6NFN-VGN                               | 6,700          | 45      | 149  | 100-277 VAC / 120-250 VDC | 5000K (cool white) | Clear Polycarbonate | Circular            |
| BHE-4UC2-3NFN-VGN                               | 3,100          | 22      | 144  | 100-277 VAC / 120-250 VDC | 5000K (cool white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| BHE-4UC2-6NFN-VGN                               | 6,400          | 45      | 142  | 100-277 VAC / 120-250 VDC | 5000K (cool white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| <b>Battery Backup Models with Flush Bracket</b> |                |         |      |                           |                    |                     |                     |
| BHE-4BCG-3NFN-VGG                               | 3,200          | 25      | 128  | 230/240 VAC               | 5000K (cool white) | Clear Polycarbonate | Circular            |
| BHE-4BCG-6NFN-VGG                               | 6,700          | 48      | 140  | 230/240 VAC               | 5000K (cool white) | Clear Polycarbonate | Circular            |
| BHE-4UCG-3NFN-VGG                               | 3,100          | 25      | 124  | 230/240 VAC               | 5000K (cool white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| BHE-4UCG-6NFN-VGG                               | 6,400          | 48      | 133  | 230/240 VAC               | 5000K (cool white) | Clear Polycarbonate | Ultra-Wide (Type 1) |

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

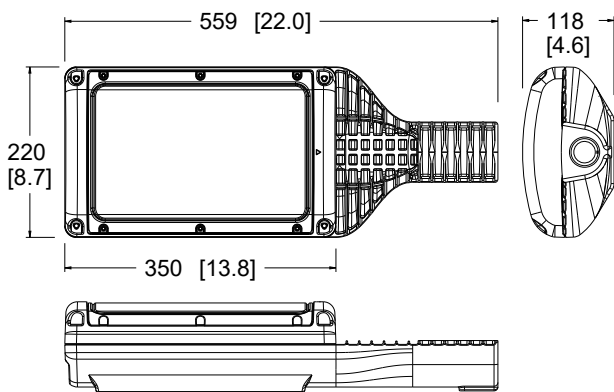
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### Vigilant® LED Bulkhead Pole Mount Model



#### Certifications & Ratings

- 10 year warranty
- CE / RCM
- IP66/67
- IK10
- L70 > 150,000 hours @ 65°C (149°F) ambient



Dimensions in mm (inches)

#### Mechanical Information:

|                           |                  |
|---------------------------|------------------|
| <b>Fixture weights:</b>   |                  |
| Standard models:          | 8.1 kg (17.9 lb) |
| Battery backup models:    | 9 kg (19.7 lb)   |
| <b>Shipping weights:</b>  |                  |
| Standard models:          | 8.8 kg (19.4 lb) |
| Battery backup models:    | 9.7 kg (20.4 lb) |
| <b>Cable entry:</b>       | (1) M25          |
| <b>Spigot entry size:</b> | 35mm ID          |

#### Materials:

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

#### Electrical Specifications:

|                               |   |
|-------------------------------|---|
| <b>Operating voltage:</b>     |   |
| Standard models:              | 100-277 VAC / 120-250 VDC   |
| Battery backup models:        | 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>Surge protection:</b>      | Tested to IEC 61000-4-5<br>6kV/3kA, 1.2/50, 8/20us<br>Combination Wave<br>Line-line and line-ground |
| <b>THD:</b>                   | < 18%   |
| <b>Power factor:</b>          | > 0.9   |
| <b>Dimming:</b>               | DALI 1.0 and 2.0<br>0-10 VDC continuous dimming to <10%   |

#### Battery Backup Models: (integral battery)

|  |   |
|--|---|
| <b>Battery duration* (circular optic, clear lens):</b> |   |
| 6.5k lumen outputs:                                    | 180 mins ~ 900 lm<br>90 mins ~ 1100 lm<br>60 mins ~ 1140 lm |
| 3k lumen outputs:                                      | 180 mins ~ 800 lm<br>90 mins ~ 1100 lm<br>60 mins ~ 1140 lm |

**Expected battery life:** 4 years

#### 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)<br>4000K (neutral white) |

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

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# Ordering Information

## Vigilant® LED Bulkhead - Pole Mount Model



### Australia

| Part Number                             | Fixture Lumens | Wattage | lm/W | Voltage                   | CCT                   | Lens                | Beam Distribution   |
|---|----------------|---------|------|---------------------------|-----------------------|---------------------|---------------------|
| <b>Pole Mount Models</b>                |                |         |      |                           |                       |                     |                     |
| BPE-4BN2-3NNN-VGN                       | 3,200          | 22      | 149  | 100-277 VAC / 120-250 VDC | 4000K (neutral white) | Clear Polycarbonate | Circular            |
| BPE-4BN2-6NNN-VGN                       | 6,700          | 45      | 149  | 100-277 VAC / 120-250 VDC | 4000K (neutral white) | Clear Polycarbonate | Circular            |
| <b>BPE-4UN2-3NNN-VGN</b>                | 3,100          | 22      | 144  | 100-277 VAC / 120-250 VDC | 4000K (neutral white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| <b>BPE-4UN2-6NNN-VGN</b>                | 6,400          | 45      | 142  | 100-277 VAC / 120-250 VDC | 4000K (neutral white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| <b>Pole Mount Battery Backup Models</b> |                |         |      |                           |                       |                     |                     |
| BPE-4BNG-3NNN-VGF                       | 3,200          | 25      | 128  | 230/240 VAC               | 4000K (neutral white) | Clear Polycarbonate | Circular            |
| BPE-4BNG-6NNN-VGF                       | 6,700          | 48      | 140  | 230/240 VAC               | 4000K (neutral white) | Clear Polycarbonate | Circular            |
| <b>BPE-4UNG-3NNN-VGF</b>                | 3,100          | 25      | 124  | 230/240 VAC               | 4000K (neutral white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| <b>BPE-4UNG-6NNN-VGF</b>                | 6,400          | 48      | 133  | 230/240 VAC               | 4000K (neutral white) | Clear Polycarbonate | Ultra-Wide (Type 1) |

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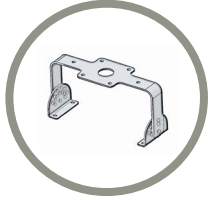
### Asia

| Part Number                             | Fixture Lumens | Wattage | lm/W | Voltage                   | CCT                | Lens                | Beam Distribution   |
|---|----------------|---------|------|---------------------------|--------------------|---------------------|---------------------|
| <b>Pole Mount Models</b>                |                |         |      |                           |                    |                     |                     |
| BPE-4BC2-3NNN-VGN                       | 3,200          | 22      | 149  | 100-277 VAC / 120-250 VDC | 5000K (cool white) | Clear Polycarbonate | Circular            |
| BPE-4BC2-6NNN-VGN                       | 6,700          | 45      | 149  | 100-277 VAC / 120-250 VDC | 5000K (cool white) | Clear Polycarbonate | Circular            |
| BPE-4UC2-3NNN-VGN                       | 3,100          | 22      | 144  | 100-277 VAC / 120-250 VDC | 5000K (cool white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| BPE-4UC2-6NNN-VGN                       | 6,400          | 45      | 142  | 100-277 VAC / 120-250 VDC | 5000K (cool white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| <b>Pole Mount Battery Backup Models</b> |                |         |      |                           |                    |                     |                     |
| BPE-4BCG-3NNN-VGG                       | 3,200          | 25      | 128  | 230/240 VAC               | 5000K (cool white) | Clear Polycarbonate | Circular            |
| BPE-4BCG-6NNN-VGG                       | 6,700          | 48      | 140  | 230/240 VAC               | 5000K (cool white) | Clear Polycarbonate | Circular            |
| BPE-4UCG-3NNN-VGG                       | 3,100          | 25      | 124  | 230/240 VAC               | 5000K (cool white) | Clear Polycarbonate | Ultra-Wide (Type 1) |
| BPE-4UCG-6NNN-VGG                       | 6,400          | 48      | 133  | 230/240 VAC               | 5000K (cool white) | Clear Polycarbonate | Ultra-Wide (Type 1) |

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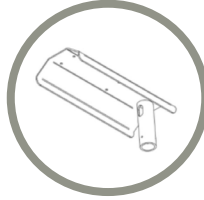
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# Accessories



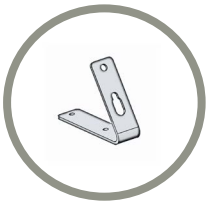
**BH-BRKT-SS-ADJ**

- 316 stainless steel adjustable bracket kit



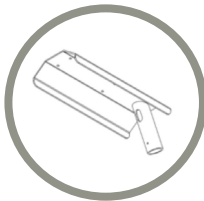
**BH-STMB-05-10-HD**

- Aluminium stanchion mount, 5° up-tilt - 50mm pole



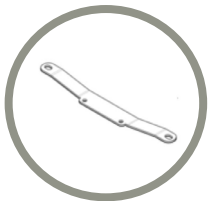
**BH-BRKT-A-KIT**

- 316 stainless steel wall/ceiling flush mount bracket kit



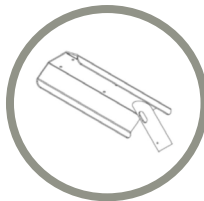
**BH-STMB-25-10-HD**

- Aluminium stanchion mount, 25° up-tilt - 50mm pole



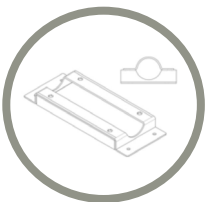
**BH-BRKT-F-KIT**

- 316 stainless steel wall/ceiling flush mount bracket kit



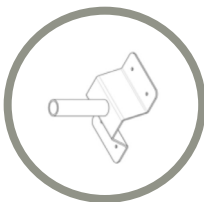
**BH-STMB-45-10-HD**

- Aluminium stanchion mount, 45° up-tilt - 50mm pole



**BH-BRKT-LG-PF**

- Aluminium pipe mount bracket kit - 50mm



**HZG-SPIGOT-34**

- Aluminium wall mount spigot plate - 34mm



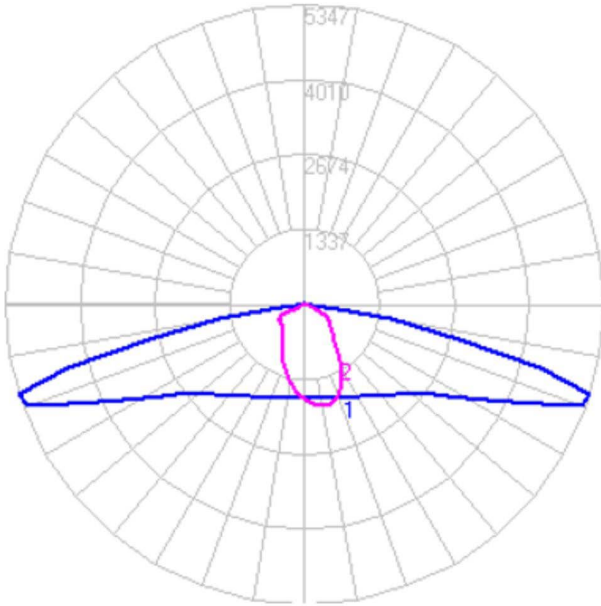
**H6XCAB72**

- 72" stainless steel safety rope

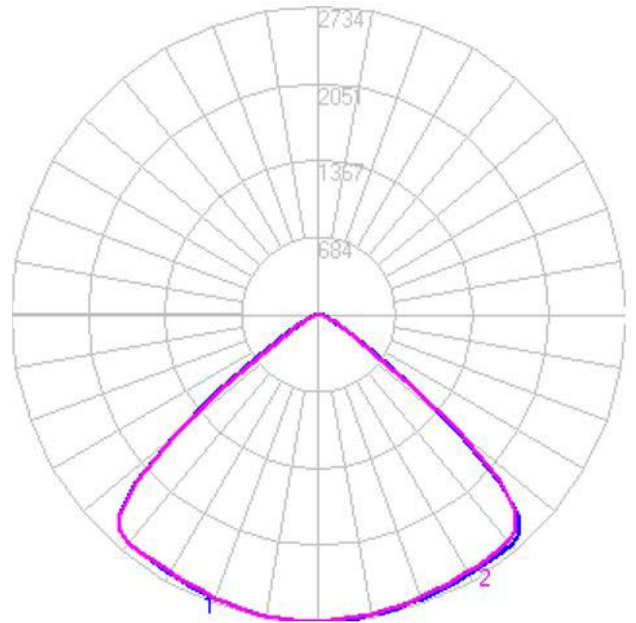


# Beam Distribution

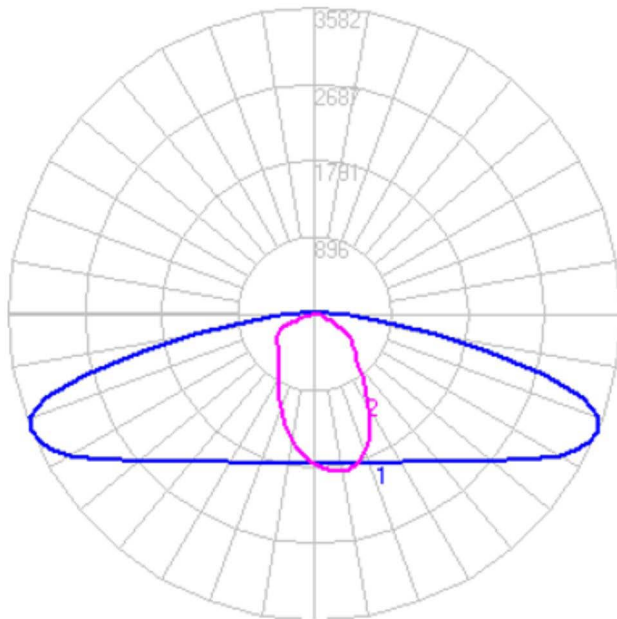
Ultra-Wide Walkway (Type 1) - Clear



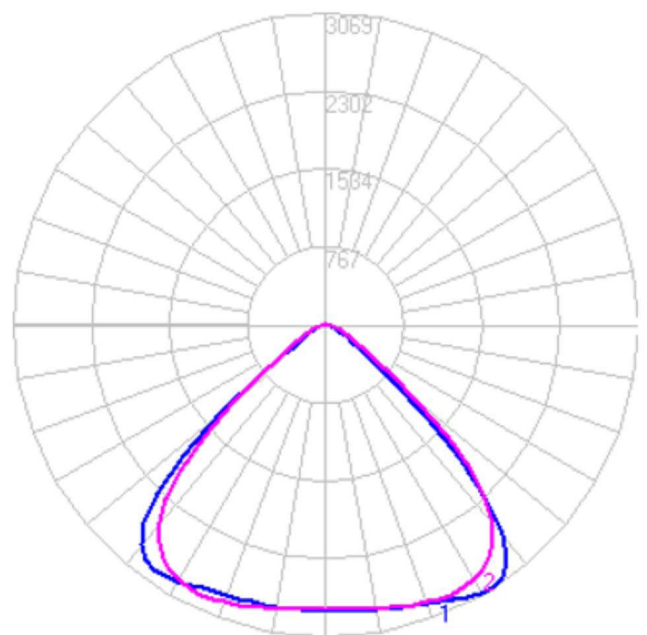
Circular - Clear



Ultra-Wide Walkway (Type 1) - Diffused

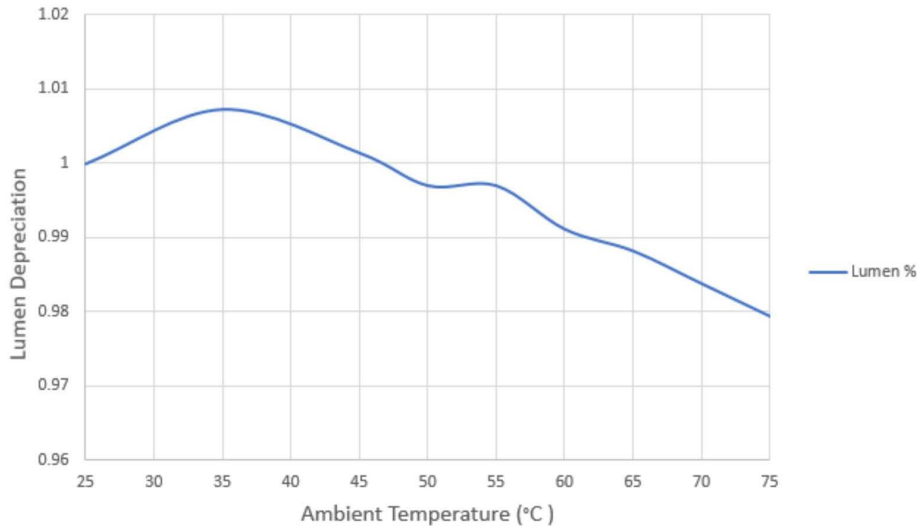


Circular - Diffused



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## Thermal Roll-Off



## Inrush Current / Circuit Breakers

| Output | In rush (A) current @ input voltage |               |         |               |         |               |         |               |
|--------|-------------------------------------|---------------|---------|---------------|---------|---------------|---------|---------------|
|        | 100 VAC                             | Duration (MS) | 120 VAC | Duration (MS) | 230 VAC | Duration (MS) | 277 VAC | Duration (MS) |
| 6,500  | 6                                   | 0.6           | 8       | 0.6           | 15      | 0.6           | 18      | 0.6           |
| 3,000  | 6                                   | 0.6           | 8       | 0.6           | 15      | 0.6           | 18      | 0.6           |

| Output | GND Leakage (mA) input voltage |         |         |         |
|--------|--------------------------------|---------|---------|---------|
|        | 100 VAC                        | 120 VAC | 230 VAC | 277 VAC |
| 6,500  | 0.5                            | 0.5     | 0.8     | 1.0     |
| 3,000  | 0.5                            | 0.5     | 0.8     | 1.0     |

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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

| Vigilant Bulkhead 3,000lm |       |       |       |       |       |       |       |        |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| 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%    |

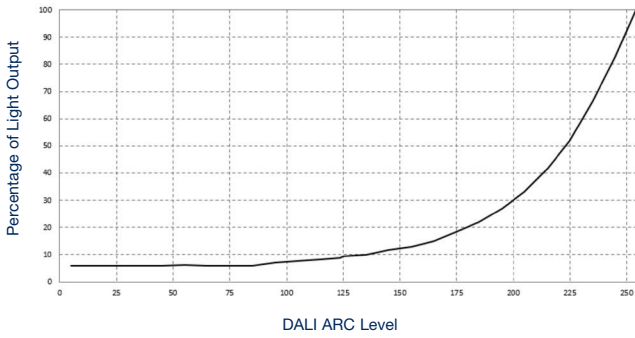
Based on 9,000 hour LM80 data

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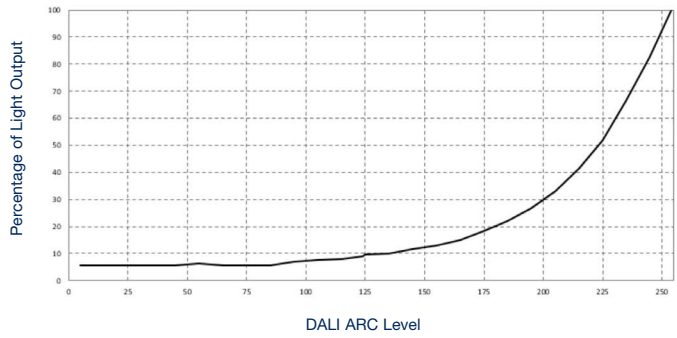
# Dimming Curves

## DALI Dimming

6,500lm

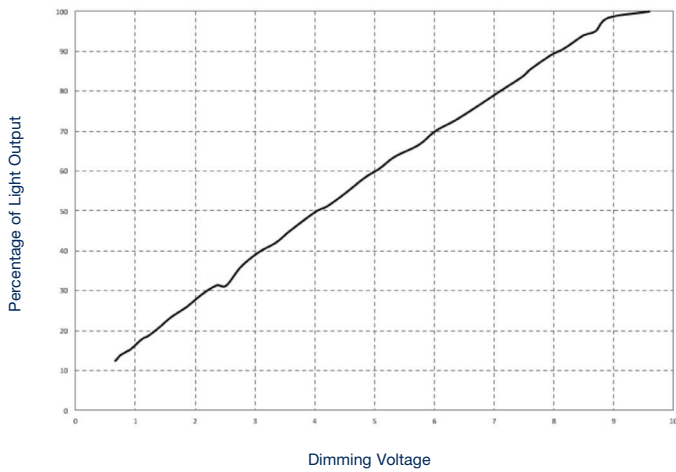


3,000lm

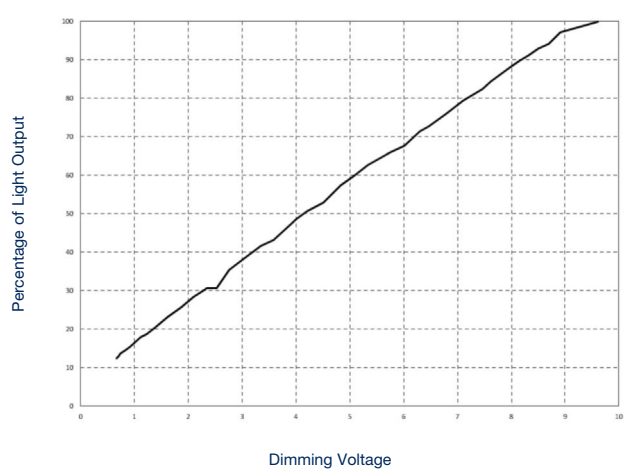


## 0-10V Dimming

6,500lm



3,000lm



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