

# .....Dialight



## Dialight® LED Bulkhead

### Technical Specification Sheet - EMEA

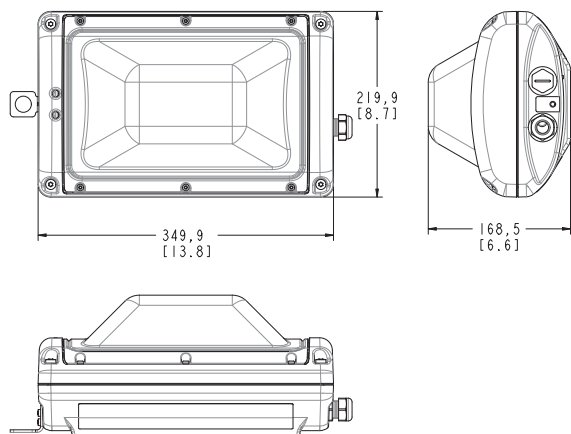
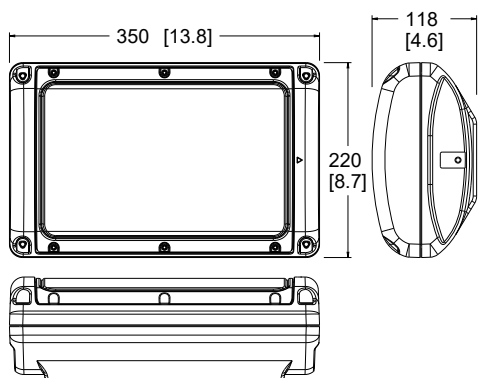
### Vigilant® LED Bulkhead

#### 100-277 VAC Model



#### Certifications & Ratings

- 10 year warranty
- CE / ENEC / UKCA
- IP66/67
- IK10
- 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: 6.8 kg (15.0 lb)

Battery backup models: 7.7 kg (17 lb)

##### Shipping weights:

Standard models: 7.3 kg (16.1 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)  
Polycarbonate domed diffused

##### Hardware:

316 Stainless Steel

#### Electrical Specifications:

##### Operating voltage:

Standard models: 100-277 VAC / 120-250 VDC  
Battery backup models: 110/120 VAC, 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:

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)

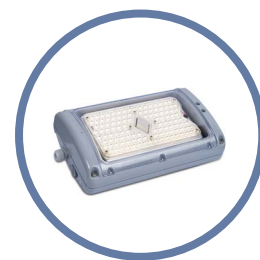
##### CCT:

5000K (cool white)  
4000K (neutral white)  
2700K (warm white)  
Amber  
Green

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

# Ordering Information

## Vigilant® LED Bulkhead



Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Standard Models with Flush Bracket							
<b>BHE-4BC2-3NFN-VGN</b>	3,200	22	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
<b>BHE-4BC2-6NFN-VGN</b>	6,700	45	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
<b>BHE-4UC2-3NFN-VGN</b>	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
<b>BHE-4UC2-6NFN-VGN</b>	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
Battery Backup Models with Flush Bracket							
<b>BHE-4BCG-3NFN-VGG</b>	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHE-4BCG-6NFN-VGG	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
<b>BHE-4UCG-3NFN-VGG</b>	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-4UCG-6NFN-VGG	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHE-6BGG-3NFN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

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

Part numbers listed in **bold** are typically available in stock.

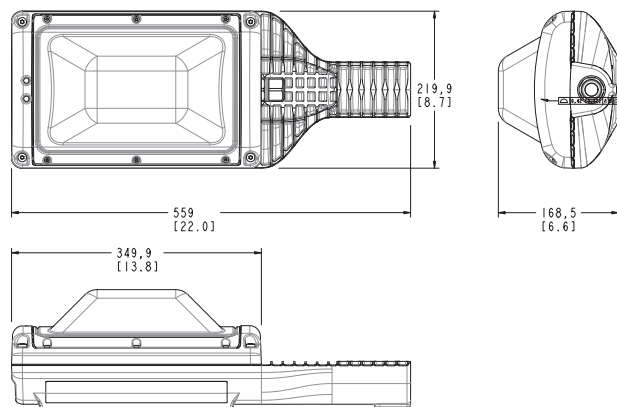
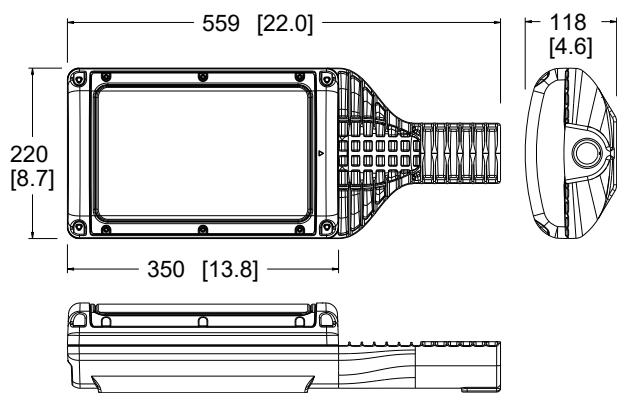
For 4000K (neutral white), 2700K (warm white) or amber CCT, please contact your local representative for more information.

### Vigilant® LED Bulkhead Pole Mount Model



#### Certifications & Ratings

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



Dimensions in mm (inches)

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#### 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>	35mm ID optional 44mm 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>	
Standard models:	100-277 VAC / 120-250 VDC
Battery backup models:	110/120 VAC, 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>	6kV/3kA, 1.2/50, 8/20us Combination Wave Line-line and line-ground
<b>THD:</b>	< 18%
<b>Power factor:</b>	> 0.9
<b>Dimming:</b>	DALI 1.0 and 2.0 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 90 mins ~ 1100 lm 60 mins ~ 1140 lm
3k lumen outputs:	180 mins ~ 800 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm

<b>Expected battery life:</b>	4 years
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#### 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 Green

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

# Ordering Information

## Vigilant® LED Bulkhead



### Pole Mount

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Distribution
Pole Mount Models							
BPE-4BC2-3NNN-VGN	3,200	22	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BPE-4BC2-6NNN-VGN	6,700	45	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BPE-4UC2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4UC2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
Pole Mount Battery Backup Models							
BPE-4BCG-3NNN-VGG	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BPE-4BCG-6NNN-VGG	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BPE-4UCG-3NNN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-4UCG-6NNN-VGG	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPE-6BGG-3NNN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

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

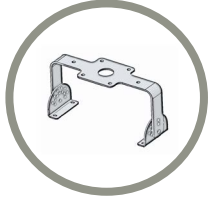
Part numbers listed in **bold** are typically available in stock.

For 4000K (neutral white), 2700K (warm white) or amber CCT, please contact your local representative for more information.

44mm spigot entry model available.

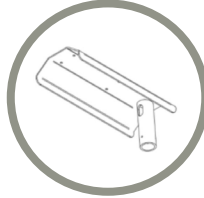
## Accessories

Please consult local Dialight sales office for availability.



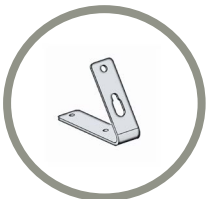
### BH-BRKT-SS-ADJ

- 316 stainless steel adjustable bracket kit



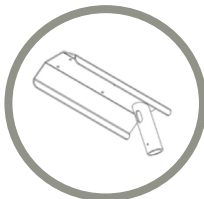
### BH-STMB-05-10-HD

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



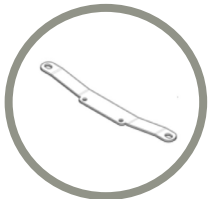
### BH-BRKT-A-KIT

- 316 stainless steel wall/ceiling flush mount bracket kit



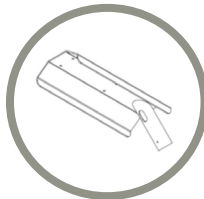
### BH-STMB-25-10-HD

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



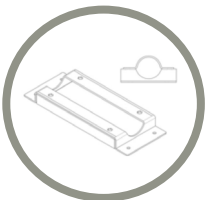
### BH-BRKT-F-KIT

- 316 stainless steel wall/ceiling flush mount bracket kit



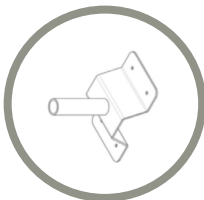
### BH-STMB-45-10-HD

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



### BH-BRKT-LG-PF

- Aluminium pipe mount bracket kit - 50mm



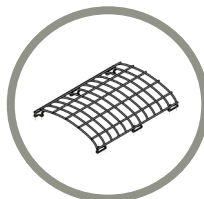
### HZX-SPIGOT-34

- Aluminium wall mount spigot plate - 34mm



### H6XCAB72

- 72" stainless steel safety rope



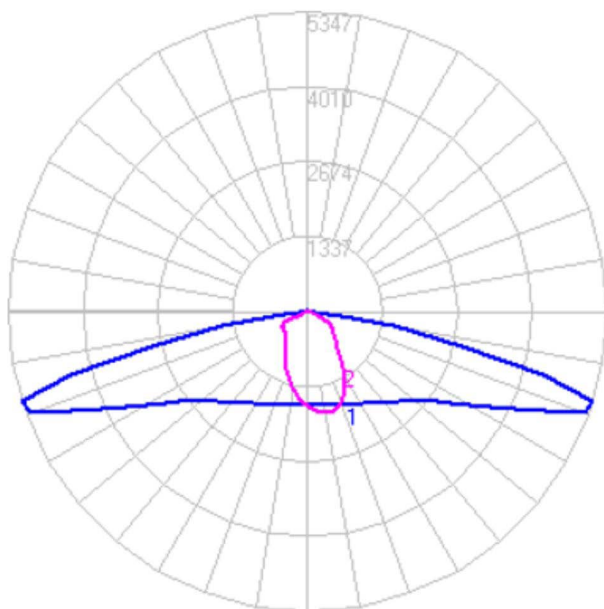
### BH-WG-KIT

- Stainless steel wire guard kit

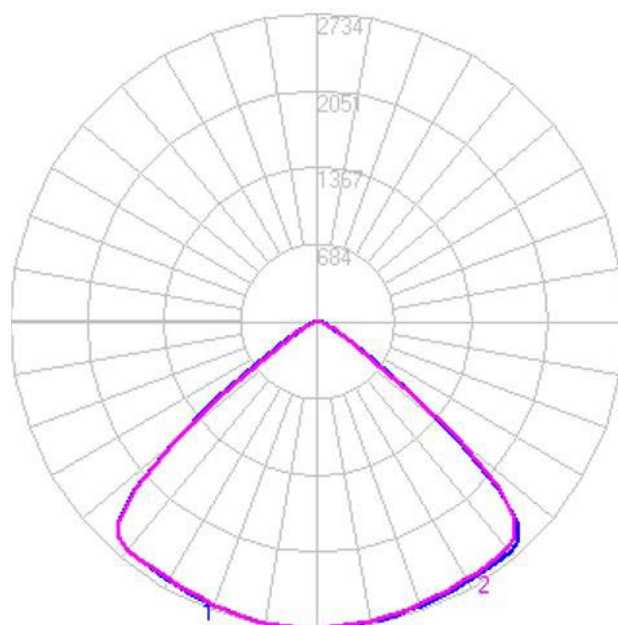


## Beam Distribution

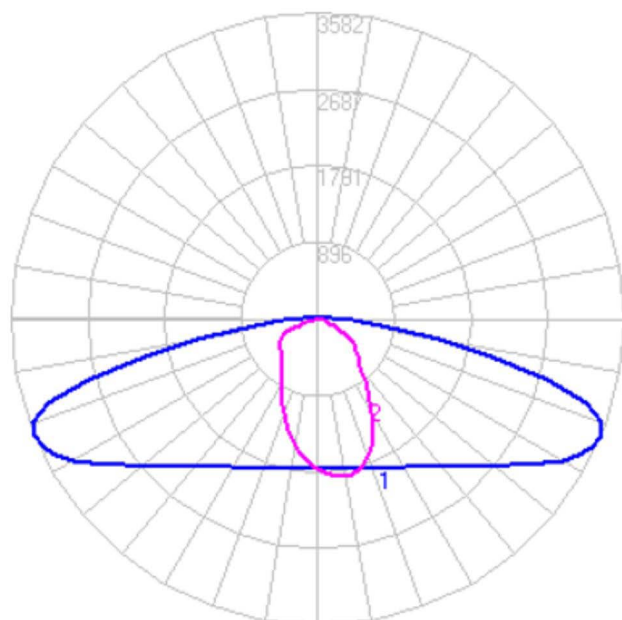
Ultra-Wide Walkway (Type 1) - Clear



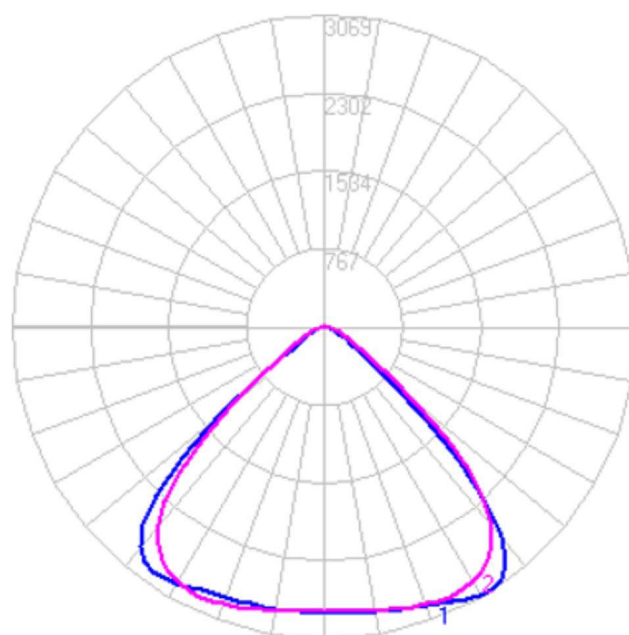
Circular - Clear



Ultra-Wide Walkway (Type 1) - Diffused

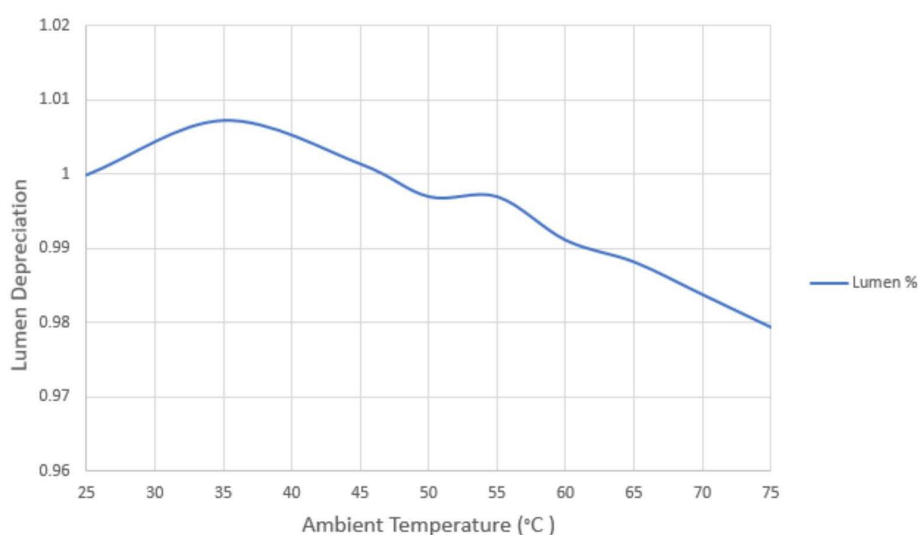


Circular - Diffused



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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%

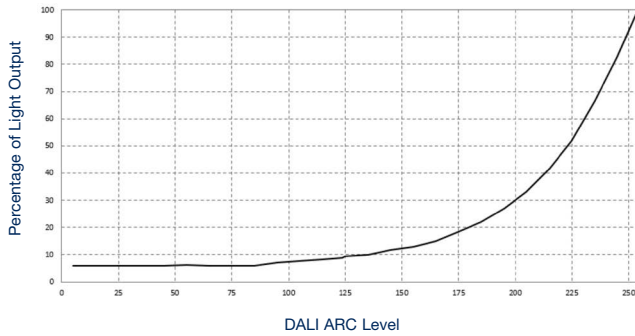
Based on 9,000 hour LM80 data

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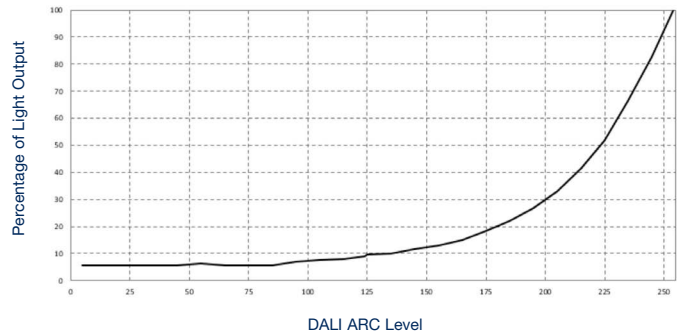
# Dimming Curves

## DALI Dimming

6,500lm

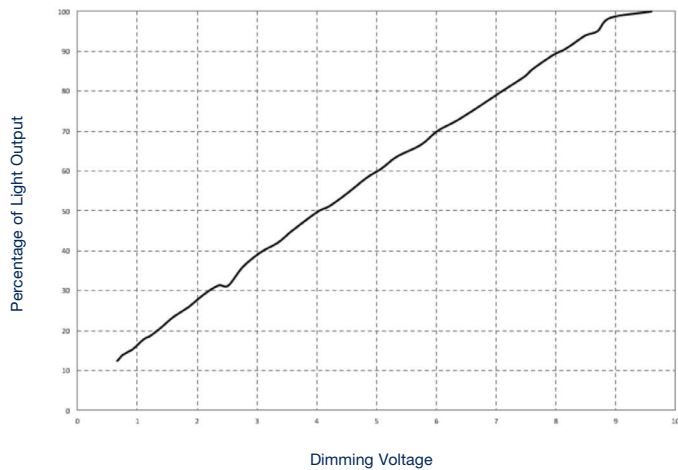


3,000lm

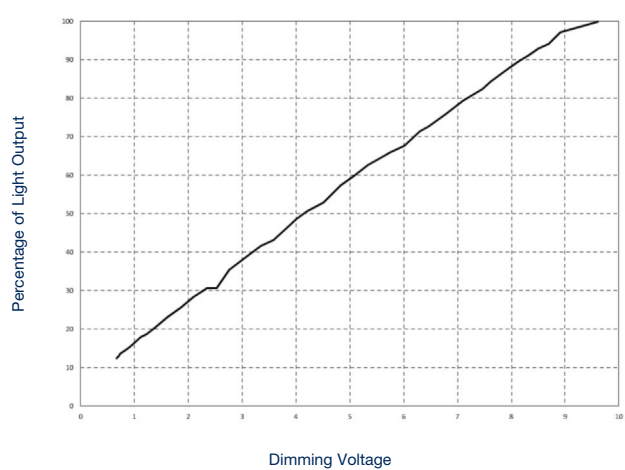


## 0-10V Dimming

6,500lm



3,000lm



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[sales-emea@dialight.com](mailto:sales-emea@dialight.com)

### WARNING / DISCLAIMERS:

**Installation & secondary retention.** The use of this product 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) as applicable. Dialight products are intended for ultimate purchase, installation and operation by knowledgeable persons trained in the functional assessment, installation, use and maintenance of such products and all customers (including but not limited to end customers) are responsible for assessing the suitability of Dialight products for any given installation requirement. 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 as appropriate) and in compliance with all applicable laws and regulations.

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