Dialight





Dialight LED SafeSite® Bulkhead

Technical Specification Sheet - APAC









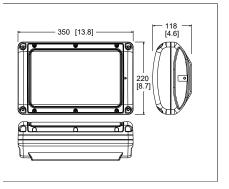
SafeSite® LED Bulkhead

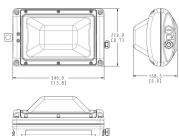
100-277 VAC Model



Certifications & Ratings

- 10 year warranty
- ATEX / IECEx Zone 1, 21
 - Ex eb mb IIC T4 Gb
 - EX tb IIIC T130°C Db
- ATEX / IECEx Zone 2, 22
 - Ex ec IIC T4 Gc
 - Ex to IIIC T130°C Do
- Ta = -40°C to +65°C for standard models
- Ta = -20°C to +55°C for battery backup models
- IP66/67
- IK10
- L70 > 150,000 hours @ 65°C (149°F)





Dimensions in mm (inches)

2

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: 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)

2700K (warm white) Amber Green

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

* @ 25°C ambient

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.



Ordering Information

SafeSite® LED Bulkhead

Zone 1, 21



Part Number	Fixture Lumens	Wattage	lm/W	Voltage	ССТ	Lens	Beam Distribution
			S	tandard Models with Flush Bra	cket		
BHA-4BC2-3NFN-VGN	3,300	22	153	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BHA-4BC2-6NFN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BHA-4UC2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4UC2-6NFN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4BN2-3NFN-VGN	3,300	22	153	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BHA-4BN2-6NFN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BHA-4UN2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4UN2-6NFN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4BA2-5NFN-VGN	4,200	46	91	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular
			Batte	ery Backup Models with Flush	Bracket		
BHA-4BCG-3NFN-VGF	3,300	25	132	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHA-4BCG-6NFN-VGF	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHA-4UCG-3NFN-VGF	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4UCG-6NFN-VGF	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4BNG-3NFN-VGF	3,300	25	132	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHA-4BNG-6NFN-VGF	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHA-4UNG-3NFN-VGF	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4UNG-6NFN-VGF	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4BAG-5NFN-VGF	4,200	49	86	230-240VAC	Amber	Clear Polycarbonate	Circular
BHA-6BGG-3NFN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

Zone 2, 21 and 22

Part Number	Fixture Lumens Wattage In		lm/W	Voltage	ССТ	Lens	Beam Distribution	
	-		S	tandard Models with Flush Bra	cket		-	
BHB-4BC2-3NFN-VGN	BHB-4BC2-3NFN-VGN 3,200 22		149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular	
BHB-4BC2-6NFN-VGN	6,700	45	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular	
BHB-4UC2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)	
BHB-4UC2-6NFN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)	
BHB-4BN2-3NFN-VGN	3,200	22	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular	
BHB-4BN2-6NFN-VGN	6,700	45	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular	
BHB-4UN2-3NFN-VGN	3,100	22	144	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)	
BHB-4UN2-6NFN-VGN	6,400	45	142	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)	
BHB-4BA2-5NFN-VGN	4,200	46	91	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular	
			Batte	ery Backup Models with Flush	Bracket			
BHB-4BCG-3NFN-VGF	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular	
BHB-4BCG-6NFN-VGF	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular	
BHB-4UCG-3NFN-VGF	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)	
BHB-4UCG-6NFN-VGF	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)	
BHB-4BNG-3NFN-VGF	3,200	25	128	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular	
BHB-4BNG-6NFN-VGF	6,700	48	140	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular	
BHB-4UNG-3NFN-VGF	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)	
BHB-4UNG-6NFN-VGF	6,400	48	133	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)	
BHB-4BAG-5NFN-VGF	4,200	49	86	230-240VAC	Amber	Clear Polycarbonate	Circular	
BHB-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. 2700k models available on request

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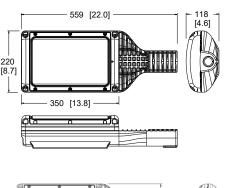
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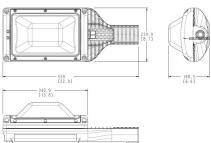
Pole Mount Model



Certifications & Ratings

- 10 year warranty
- ATEX / IECEx Zone 1, 21
 - Ex eb mb IIC T4 Gb
 - EX tb IIIC T130°C Db
- ATEX / IECEx Zone 2, 22
 - Ex ec IIC T4 Gc
 - Ex tc IIIC T130°C Dc
- Ta = -40°C to +65°C for standard models
- Ta = -20°C to +55°C for battery backup model
- IP66/67
- IK10
- L70 > 150,000 hours @ 65°C (149°F)





Dimensions in mm (inches)

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

Sagled polyecter tapace

Sealed polyester topcoatEpoxy 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: 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 180 mins ~ 800 lm

3k lumen outputs: 180 mins ~ 800 lm 90 mins ~ 1100 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

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Ordering Information

SafeSite® LED Bulkhead - Pole Mount

Zone 1, 21



Part Number	Fixture Lumens	Wattage	lm/W	Voltage	ССТ	Lens	Beam Distribution
			_	Pole Mount Models			!
BPA-4BC2-3NNN-VGN	3,300	22	153	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BPA-4BC2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BPA-4UC2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4UC2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4BN2-3NNN-VGN	3,300	22	153	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BPA-4BN2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BPA-4UN2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4UN2-6NNN-VGN	6,200	45	138	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4BA2-5NNN-VGN	4,200	46	91	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular
BPA-4UA2-5NNN-VGN	4,000	46	87	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)
			P	ole Mount Battery Backup Mo	dels		
BPA-4BCG-3NNN-VGF	3,300	25	132	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BPA-4BCG-6NNN-VGF	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BPA-4UCG-3NNN-VGF	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4UCG-6NNN-VGF	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4BNG-3NNN-VGF	3,300	25	132	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BPA-4BNG-6NNN-VGF	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BPA-4UNG-3NNN-VGF	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4UNG-6NNN-VGF	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4BAG-5NNN-VGF	4,200	49	86	230-240VAC	Amber	Clear Polycarbonate	Circular
BPA-4UAG-5NNN-VGF	4,000	49	82	230-240VAC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-6BGG-3NNN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

7one 2 21 and 22

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	ССТ	Lens	Beam Distribution
				Pole Mount Models			
BPB-4BC2-3NNN-VGN	3,200	22	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BPB-4BC2-6NNN-VGN	6,700	45	149	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Circular
BPB-4UC2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4UC2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4BN2-3NNN-VGN	3,200	22	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BPB-4BN2-6NNN-VGN	6,700	45	149	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Circular
BPB-4UN2-3NNN-VGN	3,100	22	144	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4UN2-6NNN-VGN	6,400	45	142	100-277VAC / 120-250VDC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4BA2-5NNN-VGN	4,200	46	91	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Circular
BPB-4UA2-5NNN-VGN	3,900	46	85	100-277VAC / 120-250VDC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)
			Р	ole Mount Battery Backup Mo	dels		
BPB-4BCG-3NNN-VGF	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BPB-4BCG-6NNN-VGF	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BPB-4UCG-3NNN-VGF	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4UCG-6NNN-VGF	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4BNG-3NNN-VGF	3,200	25	128	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BPB-4BNG-6NNN-VGF	6,700	48	140	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BPB-4UNG-3NNN-VGF	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4UNG-6NNN-VGF	6,400	48	133	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4BAG-5NNN-VGF	4,200	49	86	230-240VAC	Amber	Clear Polycarbonate	Circular
BPB-4UAG-5NNN-VGF	3,900	49	80	230-240VAC	Amber	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-6BGG-3NNN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular



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



HZX-SPIGOT-34

 Aluminium wall mount spigot plate - 34mm



H6XCAB72

 72" stainless steel safety rope



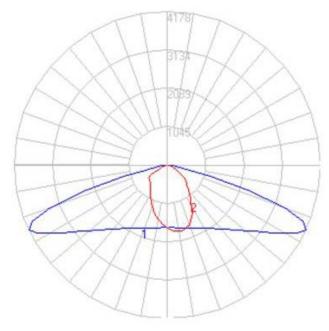
BH-WG-KIT

• Stainless steel wire guard kit

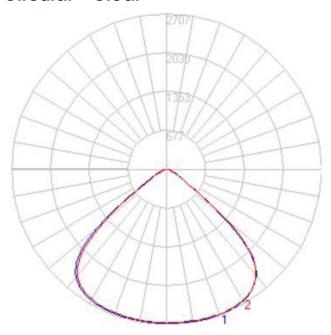


Beam Distribution - Zone 1

Ultra-Wide Walkway (Type 1) - Clear

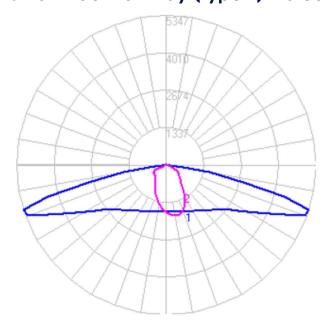


Circular - Clear

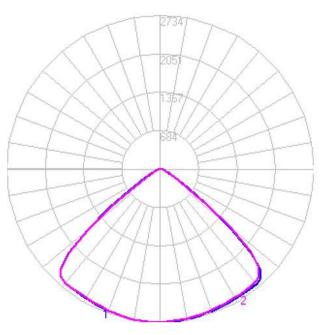


Beam Distribution - Zone 2

Ultra-Wide Walkway (Type 1) - Clear



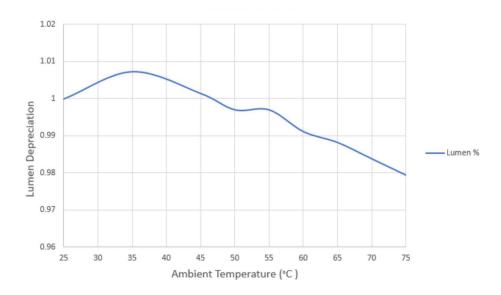
Circular - Clear



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Thermal Roll-Off



Inrush Current / Circuit Breakers

Output				In rush (A) curre	nt @ input \	/oltage		
Output	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 (n	nA) 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		Hours											
Temperature	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	Hours										
Temperature	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%			

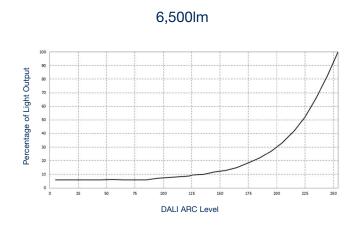
Based on 9,000 hour LM80 data

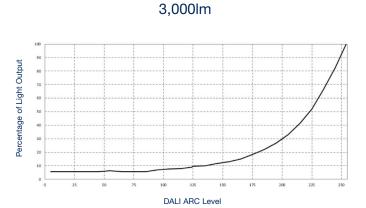
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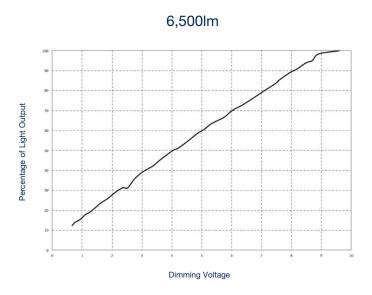
Dimming Curves

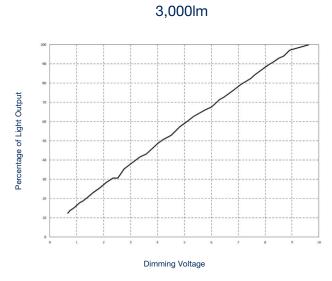
DALI Dimming





0-10V Dimming





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