





Dialight LED SafeSite® Bulkhead Technical Specification Sheet - EMEA



DECEMBER 2023

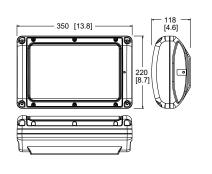
SafeSite[®] LED Bulkhead

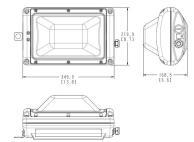
100-277 VAC Model



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 Dc
- 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)

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 Specification	ns:
Operating voltage: Standard models: Battery backup models:	100-277 VAC / 120-250 VDC 110/120 VAC, 230/240 VAC
Operating temperature: Standard models: Battery backup models:	-40°C to +65°C (-40°F to +149°F) -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 Model	s: (integral batterv)
Pottory duration* (aircular	

Mechanical Information:

Fixture weights:

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
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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light)



Ordering Information

SafeSite® LED Bulkhead

Dialight



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	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	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-VGG	3,300	25	132	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHA-4BCG-6NFN-VGG	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHA-4UCG-3NFN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4UCG-6NFN-VGG	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4BNG-3NFN-VGG	3,300	25	132	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHA-4BNG-6NFN-VGG	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHA-4UNG-3NFN-VGG	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-4UNG-6NFN-VGG	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHA-6BGG-3NFN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

Zone 2, 22 or Zone 21

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	ССТ	Lens	Beam Distribution
			S	tandard Models with Flush Bra	cket		
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-VGG	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHB-4BCG-6NFN-VGG	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BHB-4UCG-3NFN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-4UCG-6NFN-VGG	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-4BNG-3NFN-VGG	3,200	25	128	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHB-4BNG-6NFN-VGG	6,700	48	140	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BHB-4UNG-3NFN-VGG	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BHB-4UNG-6NFN-VGG	6,400	48	133	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
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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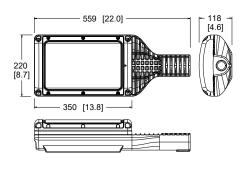
SafeSite® LED Bulkhead

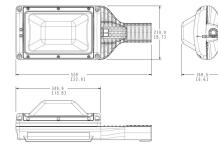
Pole Mount Model



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 to IIIC T130°C Dc
- 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)

	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 Specification	ns:
	Operating voltage: Standard models: Battery backup models:	100-277 VAC / 120-250 VDC 110/120 VAC, 230/240 VAC
	Operating temperature: Standard models: Battery backup models:	-40°C to +65°C (-40°F to +149°F) -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 Model	s: (integral battery)
	Battery duration* (circular 6.5k lumen outputs: 3k lumen outputs:	optic, clear lens): 180 mins ~ 900 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm 180 mins ~ 800 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm
	Expected battery life:	4 years
I	Photometric Informatio	on:
	Lumen output*:	3,000 & 6,500 lm (white light)

Mechanical Information:

Fixture weights:

CRI: CCT: > 80 (white light)

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)
			F	ole Mount Battery Backup Mo	dels		
BPA-4BCG-3NNN-VGG	3,300	25	132	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BPA-4BCG-6NNN-VGG	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BPA-4UCG-3NNN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4UCG-6NNN-VGG	6,200	48	129	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4BNG-3NNN-VGG	3,300	25	132	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BPA-4BNG-6NNN-VGG	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BPA-4UNG-3NNN-VGG	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-4UNG-6NNN-VGG	6,200	48	129	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPA-6BGG-3NNN-VGG	2,600	33	79	230-240VAC	Green	Domed Diffused	Circular

Zone 2, 22 or Zone 21

Part Number	Fixture Lumens	Wattage	lm/W	Voltage CCT		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	JN2-6NNN-VGN 6,700 45 149 100-277VAC / 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
			P	ole Mount Battery Backup Mo	dels		
BPB-4BCG-3NNN-VGG	3,200	25	128	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BPB-4BCG-6NNN-VGG	6,700	48	140	230-240VAC	5000K (cool white)	Clear Polycarbonate	Circular
BPB-4UCG-3NNN-VGG	3,100	25	124	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4UCG-6NNN-VGG	6,400	48	133	230-240VAC	5000K (cool white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4BNG-3NNN-VGG	3,200	25	128	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BPB-4BNG-6NNN-VGG	6,700	48	140	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Circular
BPB-4UNG-3NNN-VGG	3,100	25	124	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-4UNG-6NNN-VGG	6,400	48	133	230-240VAC	4000K (neutral white)	Clear Polycarbonate	Ultra-Wide (Type 1)
BPB-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. 2700k models available on request 44mm spigot entry option available

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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



HZX-SPIGOT-34 Aluminium wall mount spigot plate - 34mm



H6XCAB7272" stainless steel safety

72 stailless steel salety rope

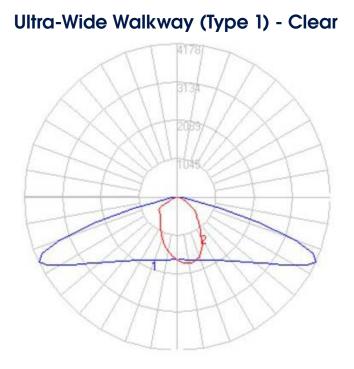


BH-WG-KITStainless steel wire guard kit

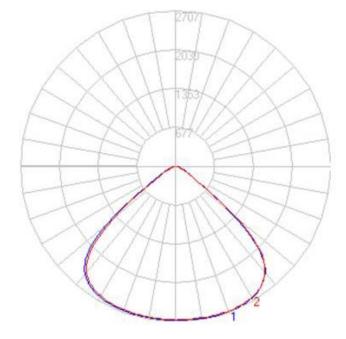
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Beam Distribution - Zone 1

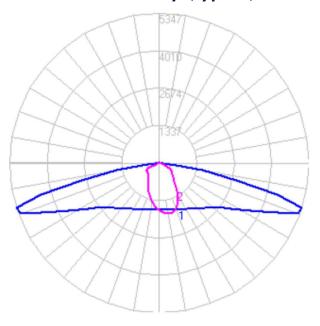


Circular - Clear

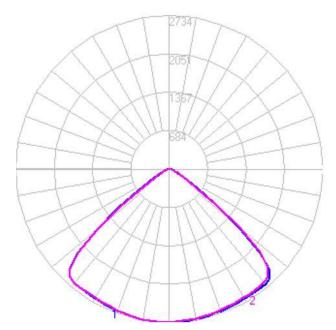


Beam Distribution - Zone 2

Ultra-Wide Walkway (Type 1) - Clear



Circular - Clear

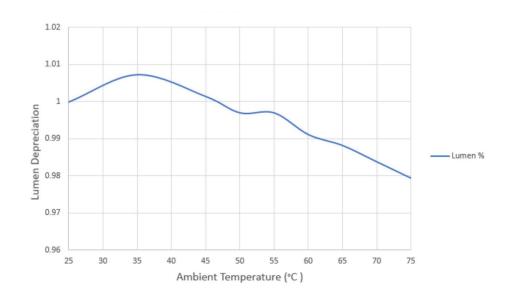


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Thermal Roll-Off



Inrush Current / Circuit Breakers

Output			In rush (A) current @ input voltage									
Output			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		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

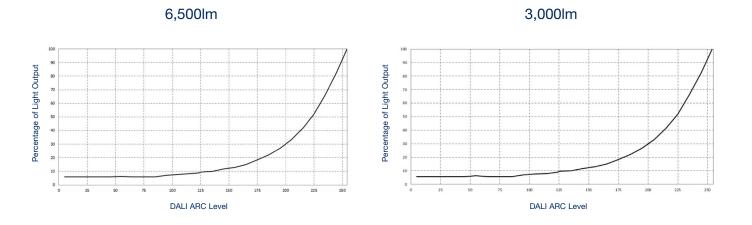
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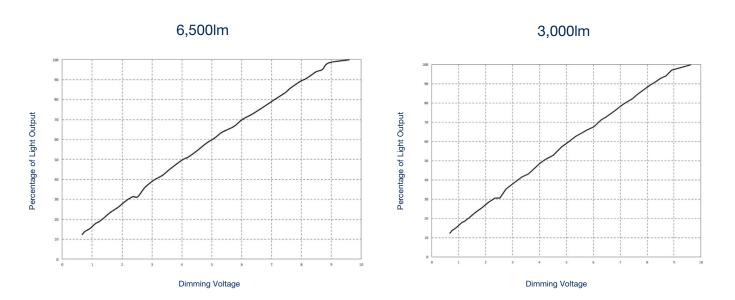


Dimming Curves

DALI Dimming



0-10V Dimming



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WARNING / DISCLAIMERS:

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