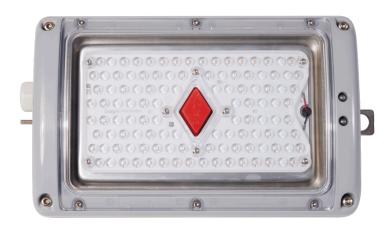
Dialight





Dialight SafeSite® LED Bulkhead

Technical Specification Sheet - Americas



SafeSite® LED Bulkhead

Standard Model

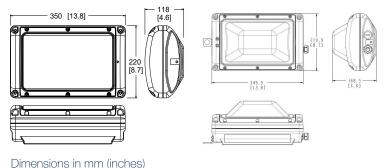


Certifications & Ratings

- 10 year warranty (excluding battery)
- UL 844 / CSA C22.2 No. 137
 - Class I, Division 2 (Groups A, B, C, D)
 - Class I, Zone 2 (Groups IIC)
 - Class II, Division 2 (Groups F, G)
 - Zone 22
 - Class III
- IECEx Zone 2, 22
 - Ex eb mb IIC T4 Gb
 - Ex tb IIIC T130°C Db
 - 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, NEMA 4X
- IK10

2

• L70>150,000 hours @ 65°C (149°F)



Mechanical Information:

Fixture weights:

Standard models: 15.0 lb (6.8 kg)

Battery backup models: 17 lb (7.7kg)

Shipping weights:

Standard models: 16.1 lb (7.3 kg)

Battery backup models: 18.5 lb (8.4 kg)

Cable entry: (2) 3/4" NPT - optional (4) 3/4" NPT

Materials:

Housing: A360 Die-cast aluminium

Finish: Superior dual coat finish
- Sealed polyester topcoat

- Sealed polyester topco - 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: 100-277 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: (integrated battery)

Lumen Output in BB mode: (5000k, Type V):

180 mins ~ 900 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm

Photometric Information:

CRI: > 80 (white light) **CCT:** 5000K (cool white)
4000K (neutral white)
2700K (warm white)

Amber `Green

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

Temperature Ratings							
Ambient Temp. Range T4	Ambient Temp. Range T4A						
-40°C to +65°C (-40°F to +149°F)	-40°C to +55°C (-40°F to +131°F)						

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Ordering Information

SafeSite® LED Bulkhead



CID2/Zone 2

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT/CRI	Lens	Beam Distribution								
Standard Models with Flush Mounting Bracket															
BHQ4BC26NFAVGN	6,700	45	149	100-277VAC	5000K 80CRI	Clear Polycarbonate	Type V (Circular)								
BHQ4BN26NFAVGN	6,700	45	149	100-277VAC	4000K 80CRI	Clear Polycarbonate	Type V (Circular)								
BHQ4UC26NFAVGN	6,400	45	142	100-277VAC	5000K 80CRI	Clear Polycarbonate	Type I (Walkway)								
BHQ4UN26NFAVGN	6,400	45	142	100-277VAC	4000K 80CRI	Clear Polycarbonate	Type I (Walkway)								
	Amber LED Standard Models with Flush Mounting Bracket														
BHQ4BA25NFAVGN	4,200	46	91	100-277VAC	Amber	Clear Polycarbonate	Type V (Circular)								
BHQ4UA25NFAVGN	3,900	46	85	100-277VAC	Amber	Clear Polycarbonate	Type I (Walkway)								
Green LED Standard Models with Flush Mounting Bracket															
BHQ4BG23NFAVGN	2,900	27	107	100-277VAC	Green	Clear Polycarbonate	Type V (Circular)								
BHQ4UG23NFAVGN	2,800	27	104	100-277VAC	Green	Clear Polycarbonate	Type I (Walkway)								
	For Eyewa	ash/Safety	Shower S	Stations - Green LED Standard	Models with Flush	Mounting Bracket									
BHQ6BG23NFAVGN	2,600	27	96	100-277VAC	Green	Domed Diffused PC	Type V (Circular)								
Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT/CRI	Lens	Beam Distribution								
			Battery	Backup Models with Flush Mo	unting Bracket										
BHQ4BC26NFAVGF	6,700	48	140	100-277VAC	5000K 80CRI	Clear Polycarbonate	Type V (Circular)								
BHQ4BN26NFAVGF	6,700	48	140	100-277VAC	4000K 80CRI	Clear Polycarbonate	Type V (Circular)								
BHQ4UC26NFAVGF	6,400	48	133	100-277VAC	5000K 80CRI	Clear Polycarbonate	Type I (Walkway)								
BHQ4UN26NFAVGF	6,400	48	133	100-277VAC	4000K 80CRI	Clear Polycarbonate	Type I (Walkway)								
		Amb	er LED B	attery Backup Models with Flu	sh Mounting Brack	et									
BHQ4BA25NFAVGF	4,200	49	86	100-277VAC	Amber	Clear Polycarbonate	Type V (Circular)								
BHQ4UA25NFAVGF	3,900	49	80	100-277VAC	Amber	Clear Polycarbonate	Type I (Walkway)								
Green LED Battery Backup Models with Flush Mounting Bracket															
BHQ4BG23NFAVGF	2,900	33	88	100-277VAC	Green	Clear Polycarbonate	Type V (Circular)								
	0.000	33	85	100-277VAC	Green	Clear Polycarbonate	Type I (Walkway)								
BHQ4UG23NFAVGF	2,800	00				For Eyewash/Safety Shower Stations - Green LED Standard Models with Flush Mounting Bracket									
BHQ4UG23NFAVGF			Shower S	Stations - Green LED Standard	Models with Flush	Mounting Bracket									

All values typical unless otherwise stated (tolerance +/-10%). For 2700k (warm White CCT, change 6th character to 'W'.



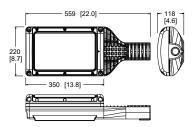
SafeSite® LED Bulkhead

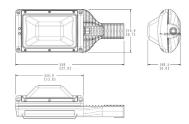
Pole Mount Model



Certifications & Ratings

- 10 year warranty (excluding battery)
- UL 844 / CSA C22.2 No. 137
 - Class I, Division 2 (Groups A, B, C, D)
 - Class I, Zone 2 (Groups IIC)
 - Class II, Division 2 (Groups F, G)
 - 7one 22
 - Class III
- IECEx Zone 2, 22
 - Ex eb mb IIC T4 Gb
 - Ex tb IIIC T130°C Db
 - 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, NEMA 4X
- IK10
- L70>150,000 hours @ 65°C (149°F)





Dimensions in mm (inches)

Mechanical Information:

Fixture weights:

Standard models: 17.4 lb (7.9 kg)

Battery backup models: 19.4 lb (8.8 kg)

Shipping weights:

Standard models: 18.5 lb (8.4 kg)

Battery backup models: 20.5 lb (9.3 kg)

Cable entry: (1) 3/4" NPT

Pole entry size: 1.38" ID (DN25 or 1" pipe)

Optional: 1.73" ID (DN32 or 1-1/4" pipe)

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: 100-277 VAC

Operating temperature:

 $\begin{array}{lll} \mbox{Standard models:} & -40\mbox{°C to } +65\mbox{°C } (-40\mbox{°F to } +149\mbox{°F}) \\ \mbox{Battery backup models:} & -20\mbox{°C to } +55\mbox{°C } (-4\mbox{°F to } +131\mbox{°F}) \\ \end{array}$

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: (integrated battery)

Lumen Output in BB mode: (5000k, Type V):

180 mins ~ 900 lm 90 mins ~ 1100 lm 60 mins ~ 1140 lm

Photometric Information:

CRI: > 80 (white light)

CCT: 5000K (cool white) 4000K (neutral white) 2700K (warm white)

Amber Green

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

Temperature Ratings									
Ambient Temp. Range T4	Ambient Temp. Range T4A								
-40°C to +65°C (-40°F to +149°F)	-40°C to +55°C (-40°E to +131°E)								

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Ordering Information

SafeSite® LED Bulkhead - Pole Mount



CID2/Zone 2

Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT/CRI	Lens	Beam Distribution			
Pole Mount Models										
BPQ4BC26NNAVGN	6,700	45	149	100-277VAC	5000K 80CRI	Clear Polycarbonate	Type V (Circular)			
BPQ4BN26NNAVGN	6,700	45	149	100-277VAC	4000K 80CRI	Clear Polycarbonate	Type V (Circular)			
BPQ4UC26NNAVGN	6,400	45	142	100-277VAC	5000K 80CRI	Clear Polycarbonate	Type I (Walkway)			
BPQ4UN26NNAVGN	6,400	45	142	100-277VAC	4000K 80CRI	Clear Polycarbonate	Type I (Walkway)			
	-			Amber LED Pole Mount Mo	dels					
BPQ4BA25NNAVGN	4,200	46	91	100-277VAC	Amber	Clear Polycarbonate	Type V (Circular)			
BPQ4UA25NNAVGN	3,900	46	85	100-277VAC	Amber	Clear Polycarbonate	Type I (Walkway)			
				Green LED Pole Mount Mo	dels					
BPQ4BG23NNAVGN	2,900	27	107	100-277VAC	Green	Clear Polycarbonate	Type V (Circular)			
BPQ4UG23NNAVGN	2,800	27	104	100-277VAC	Green	Clear Polycarbonate	Type I (Walkway)			
For Eyewash/Safety Shower Stations - Green LED Pole Mount Models										
BPQ6BG23NNAVGN	2,600	27	96	100-277VAC	Green	Domed Diffused PC	Type V (Circular)			
Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT/CRI	Lens	Beam Distribution			
				Pole Mount Battery Backup M	Models					
BPQ4BC26NNAVGF	6,700	48	140	100-277VAC	5000K 80CRI	Clear Polycarbonate	Type V (Circular)			
BPQ4BN26NNAVGF	6,700	48	140	100-277VAC	4000K 80CRI	Clear Polycarbonate	Type V (Circular)			
BPQ4UC26NNAVGF	6,400	48	133	100-277VAC	5000K 80CRI	Clear Polycarbonate	Type I (Walkway)			
BPQ4UN26NNAVGF	6,400	48	133	100-277VAC	4000K 80CRI	Clear Polycarbonate	Type I (Walkway)			
			Amb	er LED Pole Mount Battery Bac	ckup Models					
BPQ4BA25NNAVGF	4,200	49	86	100-277VAC	Amber	Clear Polycarbonate	Type V (Circular)			
BPQ4UA25NNAVGF	3,900	49	80	100-277VAC	Amber	Clear Polycarbonate	Type I (Walkway)			
			Gree	n LED Pole Mount Battery Bac	kup Models					
BPQ4BG23NNAVGF	2,900	33	88	100-277VAC	Green	Clear Polycarbonate	Type V (Circular)			
		1			0	Clear Polycarbonate	Type I (Walkway)			
BPQ4UG23NNAVGF	2,800	33	85	100-277VAC	Green	Clear Folycarboriate	Type I (Vvaikway)			
				ower Station - Green LED Pole			Type I (Waikway)			

All values typical unless otherwise stated (tolerance +/-10%). For 2700k (warm White CCT, change 6th character to 'W'. 1.73" - (DN32) pole entry models available.

Accessories



BH-BRKT-SS-ADJ

 316 stainless steel adjustable bracket kit



BH-BRKT-A-KIT

 316 stainless steel wall/ ceiling flush mount bracket kit



BH-BRKT-F-KIT

 316 stainless steel wall/ ceiling flush mount bracket kit



HZX-SPIGOT-34

 Aluminium wall mount spigot plate - 34mm (for use with 1.38" pole mount)



BH-WG-KIT

• Stainless steel wire guard kit

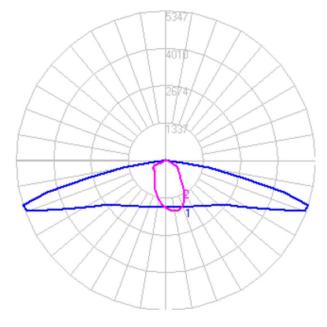


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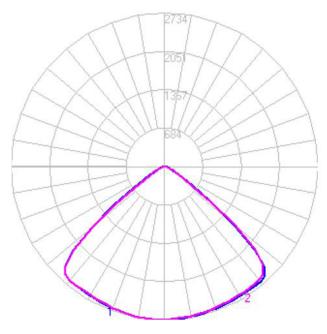
• 72" stainless steel safety rope

Beam Distribution

Type I



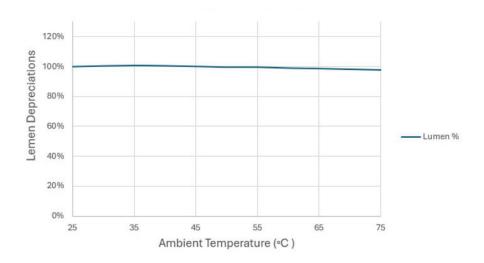
Type V



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Thermal Roll-Off



Inrush Current

Inrush Current								
Duration (T50), 0.4ms								
Supply Voltage (VAC)		100	120	230	240	277		
Peak Inrush Current (Apk)		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		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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