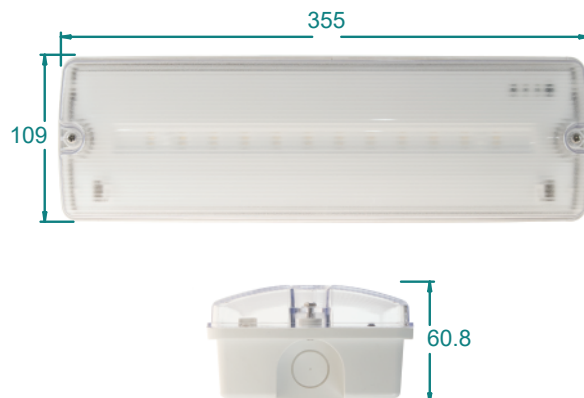
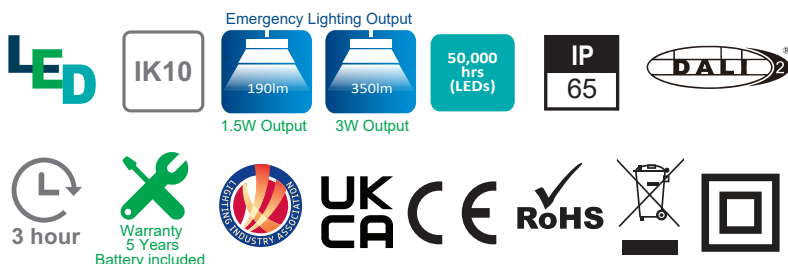




Specification: DALI-2 certified, addressable, Weatherproof (IP65) and robust (IK10) self-contained emergency LED bulkhead. Constant emergency light (1.5W/190lm & 3W/350lm) for 3 hours. Low stand-by power consumption. Self-adhesive legend available for 20m viewing distance exit sign. Lithium battery as standard. Maintained or non-maintained configurations. Suitable for indoor and outdoor applications such as car parks, distribution centres, storage rooms and sports centres.



Key Features

- DALI-2
- Maintained and Non-maintained configurations
- Low stand-by power consumption (0.5 W)*
- Fast battery re-charge (8 hrs)**
- IP65 cable gland included
- Remote control available

* Non-maintained mode only

** First battery charge takes up to 16 hours

GRANITE Emergency Bulkhead

Part number	Description	Testing facility	Remote control part number *	Operating temperature	Net weight
BHD1.5-DL	EM LED bulkhead 1.5W 190lm DL	DALI-2 Addressable with Z10 certified PCB LPD1-DL	-	0°C ~ 40°C	0.51kg
BHA3-DL	EM LED bulkhead 3W 350lm DL	DALI-2 Addressable with Z10 certified PCB LPD1-DL	-		

GRANITE Emergency Bulkhead

Technical information	1.5W	3W
Input voltage/frequency	220-240V AC 50Hz	
Power consumption		
Maintained	3W(Max)	4.5W(Max)
Non-maintained	0.5W(standby)	0.5W(standby)
Lumen output		
On mains voltage	190lm	350lm
On emergency mode	190lm	350lm
LEDs Lifetime (L-70)	50,000h	
Discharge duration	3 hours	
Wh (maintained standby)	3	4.5
Wh (non-maintained standby)	0.5	
Charge duration	up to 8hrs (first charge up to 16hrs)	
Test facility	DALI-2 Addressable	
IP rating	IP65	
IK rating	IK10	
Insulation class	II	
Operation temp.	0~40°C	
Storage temp.	0~50°C	

Light Source	
Brand	Everlight
Quantity	12 pcs
CCT	4000K
CRI	>80

Materials	1.5W	3W
Luminaire housing	Polycarbonate	
Luminaire diffuser	Polycarbonate	
Luminaire bracket	Polycarbonate	
Luminaire legend	N.A.	
Luminaire screws	SS 316	
Finish	Back Matt, Front smooth	
Colour	White	
Battery type	Li-Ion 3.6V 2500mAh	Li-Ion 3.6V 5000mAh

Logistic information	
Product dimensions (L x W x D)mm	355 x 109 x 60.8 mm
Product Net weight (kg)	0.51kg
Box dimensions (L x W x D)mm	360 x 112 x 70 mm
Gross weight (kg)	0.565kg
Quantity of outer carton	16 pc's
Outer carton dimensions(L x W x D)mm	370 x 355 x 355 mm
Outer carton gross weight (kg)	11.5kg
Quantity per Euro pallet (1200 x 800)	360 pcs
Pallet weight (kg)	10 kg

Certification	
Safety standard	BS EN 60598-2-22
Certified by	DEKRA
UKCA / CE Mark	Yes
Factory QMS	ISO9001

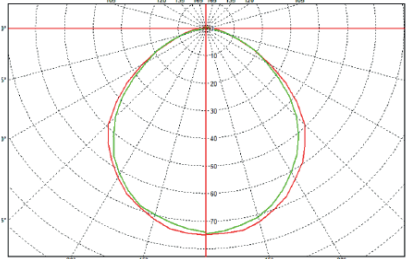
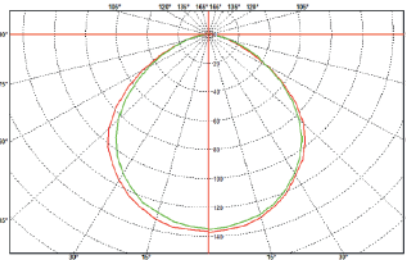
INSTALLATION NOTES

- Surface ceiling or wall mount
- BESA entry drilling template on rear
- IP65 and IK10 rating
- Cable entry to sides, top/bottom and rear (20mm cut-outs)
- Screwless terminal block (SL, L, N)
- Terminal block takes wires up to 3 x 2.5mm²
- Recess kit available (BHA-RK)

TESTING FACILITIES

DL (DALI-2 Addressable)	This luminaire is DALI-2 compatible and requires additional software and hardware to program and control it. Testing should be carried out in accordance to BS EN 50172:2004.
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SPACING TABLE

Photometric curve	Model Number	Mounting height (m)	Lux level directly under	Anti-panic 0.5 lux				Escape Route 1 lux			
				 Transverse to Wall	 Transverse to Transverse	 Axial to Axial	 Axial to Wall	 Transverse to Wall	 Transverse to Transverse	 Axial to Axial	 Axial to Wall
	BHA1.5	2.5	15.0	4.0	9.6	9.6	3.9	3.2	8.0	7.8	3.1
		3	11.2	4.3	10.5	10.3	4.2	3.4	8.6	8.4	3.3
		3.5	8.0	4.6	11.3	11.0	4.4	3.5	9.1	8.9	3.4
		4	4.7	4.8	11.9	11.6	4.6	3.5	9.5	9.2	3.4
		4.5	4.1	4.9	12.5	12.1	4.7	3.5	9.8	9.5	3.3
		5	3.4	5.0	12.9	12.6	4.8	3.3	9.9	9.6	3.2
		5.5	2.8	5.0	13.3	12.9	4.8	3.1	10.0	9.6	2.9
		6	2.1	4.9	13.6	13.3	4.8	2.8	9.9	9.5	2.6
		6.5	1.9	4.9	13.9	13.4	4.7	2.3	9.7	9.4	2.1
		7	1.7	4.7	14.0	13.6	4.5	1.5	9.0	9.1	1.3
		7.5	1.5	4.5	14.1	13.6	4.3	-	8.9	8.7	-
		8	1.2	4.2	14.1	13.6	4.0	-	8.4	8.1	-
		8.5	1.1	3.9	14.0	13.5	3.7	-	6.8	6.5	-
	BHA3	9	1.0	3.4	13.8	13.3	3.2	-	5.4	5.3	-
		9.5	0.9	2.8	13.5	13.1	2.6	-	4.2	4.0	-
		10	0.8	1.9	13.2	12.8	1.6	-	2.6	2.3	-
		2.5	27.9	4.6	11.1	11.2	4.6	3.8	9.4	9.3	3.8
		3	21.4	5.0	12.2	12.2	5.0	4.1	10.2	10.0	4.1
		3.5	15.0	5.4	13.3	13.0	5.4	4.4	10.9	10.7	4.3
		4	8.6	5.7	14.0	13.8	5.6	4.5	11.5	11.3	4.5
		4.5	7.4	6.0	14.8	14.5	5.9	4.7	12.1	11.8	4.6
		5	6.2	6.2	15.5	15.2	6.1	4.7	12.5	12.2	4.6
		5.5	5.0	6.4	16.1	15.8	6.3	4.7	12.9	12.5	4.6
		6	3.8	6.5	16.7	16.3	6.4	4.6	13.2	12.8	4.5
		6.5	3.4	6.6	17.2	16.8	6.5	4.5	13.4	13.0	4.4
		7	3.0	6.7	17.7	17.2	6.5	4.3	13.5	13.0	4.2
		7.5	2.5	6.7	18.0	17.6	6.5	4.0	13.5	13.1	4.0
		8	2.1	6.6	18.4	17.8	6.5	3.7	13.4	13.0	3.7
		8.5	2.0	6.5	18.6	18.1	6.4	3.3	13.2	12.8	3.2
		9	1.8	6.4	18.8	18.3	6.3	2.7	13.0	12.6	2.6
		9.5	1.6	6.3	19.0	18.4	6.2	1.9	12.7	12.3	1.6
		10	1.4	6.0	19.1	18.4	5.9	0.0	12.2	11.9	0.0