





unit upgrades include; wireless intelligent controls, 3hrs emergency operation, low-glare diffusers, & mounting variations

CE, RoHS, CB, TUV, SAA, ENEC & UL international product marks

The most competitive, high-end solution for projects worldwide



Raeburn 2 Series Premium Quality High Bays

CDN:SPEC107REV3





Technical Specifications Summary









Performance Summary:									
Code (Series-Wattage/Size)	RAE2-70	RAE2-100	RAE2-120	RAE2-150	RAE2-200	RAE2-240	RAE2-300		
Nominal Power	70W	100W	120W	150W	200W	240W	300W		
Luminaire Efficacy @ 5000K CCT	140lm/w	151lm/W	161lm/W	157lm/W	153lm/W	144lm/W	143lm/W		
Lumen Output @ 5000K CCT	9,800lm	15,100lm	19,320lm	23,550lm	30,600lm	34,560lm	42,900lm		
Lumen Maintenance (TM21 Calculated)	L80B10 ≥96,000 hours @Ta 30°C								
Certification	CE, ROHS, CB, TUV, SAA, ENEC & UL								
Product Warranty	5 Years								
Light Source and Photometric P	arameters:								
Chip Brand, Model, & Size				Nichia GRT-V3					
Chip Efficacy @ CRI>70, 5000K CCT			157lr	m/W @ 150mA Ran	k P20				
Light Emmission				Direct					
сст			5000K	, (3000K, 4000K op	tional)				
CRI				≥70, (≥80 optional)					
Diffusers				Clear					
Symmetric Light Distribution		120° (50°, 90° optional)							
Optical Accessories	Diffusion Hood (Open Bottomed), Diffusion Hood (Closed Bottomed)								
Electrical Parameters:									
System Operating Power	70W	100W	120W	150W	200W	240W	300W		
Driver Brand				Meanwell					
Driver Model	HBG-100 HBG-160 HBG-200 HBG-240 HLG-32						HLG-320		
System Power Factor	>0.93								
Typical Driver Lifetime	>100,000 hours @Tc 60°C								
Input Voltage	100-277VAC								
Input Frequency	50-60Hz								
Power Factor	>0.9								
Qty of Drivers per Light	1								
Inrush Current Per Driver @ 230VAC measured at 50% Ipeak (Peak/Duration)	45A/100μs	60A/415μs	65A/4	425μs	85A/600µs	75A/680µs	70A/1010μs		
Recommended Lights per Circuit (16A Type C MCB)	≤32pcs	≤8pcs	Note: MCB may creased number of	m Product Power allow for an in- of lights per circuit owered versions	≤7pcs	≤3pcs	≤2pcs		
THD	<15%								
Surge Protection/Fusing	2kV line-line, 4kV line-earth								
Environmental Parameters ² :									
IP Rating				IP65					
IK Rating	IK08 (Tempered Glass)/ IK10 (Polycarbonate)								
Ambient Usage Tolerance	-30°C to 50°C								
Ambient Storage Tolerance	-40°C to 70°C								
Ambient Humidity Tolerance	15% to 90% RH								
	000CT-								

Driver automatic turn-off temperature

90°C Tc





Code (Series-Wattage/Size)	RAE2-70	RAE2-100	RAE2-120	RAE2-150	RAE2-200	RAE2-240	RAE2-300		
Physical/Mechanical Parameters:									
Product Dimensions: 0xH (mm)	383 x 203	383 x 203	383 x 203	383 x 203	383 x 203	383 x 203	383 x 254		
Electrical Connection	300mm 3-Core cable								
Fixture Weight ²	3.1kg	7.0kg	7.0kg	7.0kg	7.8kg	7.8kg	8.7kg		
Fixture Primary Material(s)		Aluminium Alloy and Stainless Steel Fixings							
Fixture Finish		Powder Coated							
Lens(es) Materials		Tempered Glass, UV Stabilised Polycarbonate							
Dimming/Controls Parameters:									
Dimming Options	0-10V, DALI								
Built-in Controls	Microwave Sensor (Remote Control), Daylight Harvesting, Emergency								
Compatible intelligent lighting systems	Wireless Controls and Monitoring								
Options/Accessories:									
Mounting Styles	Eye Bolt, Universal Bracket								
Miscellaneous Accessories	Safety cable								
Available Product Colours	Black, White, Silver								

¹ Electrical Parameter data is for D1 drivers, unless otherwise stated

² Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights

Emergency Options Summary:							
Emergency Variant Code	E3R1						
Test Method	Remote-Test						
Style	Integrated						
Output Power in Emergency Mode		8W 10W					
Nominal Emergency Lumen Output		>12	200lm (@ CRI>70 50	000K)		1300lm (@ Cl	RI>70 5000K)
Emergency Correction Factor	0.133	0.041	0.033				
IP Rating	IP65 IP20						20
Emergency Switch Brand	BILDA UPSHINE						
Emergency Switch Model	BLD-CMZZE-48YYYY UP-UPS10W						
Battery Chemical Composition	Ni-MH Lithium						
Battery Capacity	3000mAh 4000mAh						
Battery Output Voltage	9.6V 7.4V					4V	
Output Power Duration	≥3 hours						
Time to Charge	≥24 hours						
Ambient Product Usage Tolerance	0°C to 45°C						

All stated values should be considered indicative only. Technical data is provided from sample luminaires and construction components as assessed by OEM(s) under industry-standard, laboratory conditions. In practice, stated values can vary. Kellwood Lighting operates a policy of continual product improvement. Our luminaires' capabilities are regularly enhanced to outperform in-class market alternatives. Please contact our technical team directly for clarifications prior to purchase. All images depicted should be considered indicative only. Stated product warranty periods do not include associated labour costs. Stated product warranty periods are for UK projects only. For international projects, please contact our offices directly. Optional upgrades can often affect or supersede unit technical parameters, capabilities, and warranties. It is the responsibility of the purchasing authority to ensure selected hardware is suitable for application. For further documentation, including Returns Policy and Conditions of Unit Failure, please contact our offices. Hazardous area documentation (eg. ATEX) are issued to OEM codes. WEEE compliance reference code: WEE/MP3838PR/SCH. Please do not look directly at LED lighting products during operation.

This datasheet & corresponding certification should be reviewed by a competent person to ensure project suitability. ©2020 Kellwood Engineering Ltd. All rights reserved.







Eye Bolt

Bolt-locked suspension point



Universal Bracket

Suitable for ceiling & wall-mounting applications



3m Cable Extension

Temperature-resistant cable supplied c/w 1no.IP68 connector



Enclosed Diffuser

Polycarbonate, lateral & vertical perspective glare-reducer



Semi-Enclosed Diffuser

Polycarbonate, lateral perspective glare-reducer



Standalone Daylight Harvesting

Photosensitive operation c/w antirotation-&-tilt anchor point



Standalone Occupancy Sensor

Microwave operation c/w antirotation-&-tilt anchor point



DALI / 1-10V

Intelligent operation compatibility - Dimming, photocells, occupancy...



Wireless Lighting Controls

Inter-communicating, tablet controlled, intelligent operations



Customisation

Alternative fitting & accent halo colours available subject to MOQ



Integrated Emergency Operation

3 hours, maintained, remote testing emergency complete with battery pack, IP65 enclosure for 60W to 200W



Integrated Emergency Operation

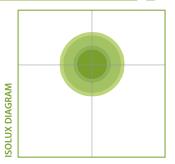
3 hours, maintained, remote testing emergency complete with battery pack, IP20 240-300W thermally isolated enclosure for high powered high bay

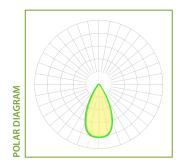


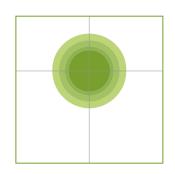
Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

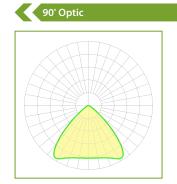
Indicative Product Photometry

60° Optic

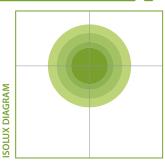


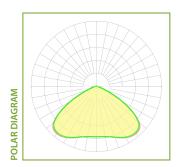






120° Optic





Diffusers

This series is available with the following diffusers. Each diffuser will have a varying effect on photometric distribution and intensity. Please refer to downloadable photometrics for exact data.





Clear Optic (Various Beam Angles)

Frosted Optic (Various Beam Angles)



Standard product code fields are presented as: Further customisation may be available - please contact us if required





PRODUCT •	POWER -	CRI & CCT -	OPTIC -	DRIVER -	- MOUNTING .	COLOUR -	MODIFICATIONS
RAE2	70 70W	730 CRI >70, 3000K	60 60° CIRCULAR	D1 NON-DIM	EB EYE BOLT	BL BLACK	E3R1 ¹ INTEGRATED 3 HOUR MAINTAINED EMERGENCY (REMOTE TEST)
	100 100W	740 CRI >70, 4000K	90 90° CIRCULAR	D3 DALI	UB UNIVERSAL BRACKET	WH WHITE	WG WIRE GUARD
	120 120W	750 CRI >70, 5000K	120 120° CIRCULAR	D4 0-10V (INVENTRONICS)		GR GREY	
	150 150W	830 CRI >80, 3000K	FR FROSTED DIFFUSER	D6 DALI (INVENTRONICS)			
	200 200W	840 CRI >80, 4000K		D7 NON-DIMMING (SOSEN)			
	240 240W	850 CRI >80, 5000K			¹Em	nergency 240W & 300W has	IP20 rating
	300 300W				1		ODIFICATION IS REQUIRED, SEPARATE EACH

Product Ordering Code Examples: RAE2-70-750-120-D1-EB-BL RAE2-240-830-120-D6-UB-BL-E3R1

- 2. PLEASE ENSURE SELECTION OF COMPATIBLE DRIVER FOR OCCUPANCY SENSORS WITH DIMMING FUNCTIONALITY
- 3. PLEASE NOTE THAT MODIFICATIONS WHICH AFFECT LIGHT OUTPUT HAVE SEPARATE PHOTOMETRIC FILES IDENTIFIED WITH ..."+(MODIFICATION)"
- 4. ALTERNATIVE DRIVERS MAY BE AVAILABLE PLEASE CONTACT OUR OFFICE FOR FURTHER DETAILS
- 5. IF PRODUCT IS CUSTOMISED, CODES WILL BE ALTERED AS NECESSARY

	DRIVER & EMERGENCY CONTROLS MANUFACTURERS							
		NON-EMERGENCY		EMERGENCY				
POWER	D1 (NON-DIM)	D3 (DALI-DIM)	D6 (DALI-DIM)	D1 (NON-DIM)	D6 (DALI-DIM)	D7 (NON-DIM)		
60 60W	Meanwell HBG	-	Inventronics	-	Inventronics (BILDA +8W OUTPUT)	Sosen (BILDA +8W OUTPUT)		
100 100W	Meanwell HBG	Meanwell HBG	-	-	Inventronics (BILDA +8W OUTPUT)	Sosen (BILDA +8W OUTPUT)		
120 120W	Meanwell HBG	Meanwell HBG	-	-	Inventronics (BILDA +8W OUTPUT)	Sosen (BILDA +8W OUTPUT)		
150 150W	Meanwell HBG	Meanwell HBG	-	-	Inventronics (BILDA +8W OUTPUT)	Sosen (BILDA +8W OUTPUT)		
200 200W	Meanwell HBG	Meanwell HBG	-	-	Inventronics (BILDA +8W OUTPUT)	Sosen (BILDA +8W OUTPUT)		
240 240W	Meanwell HBG	Meanwell HBG	-	Meanwell HLG¹ (UPSHINE +10W OUTPUT)	Inventronics ¹ (BILDA +8W OUTPUT)	-		
300 300W	Meanwell HLG	-	Inventronics	Meanwell HLG¹ (UPSHINE +10W OUTPUT)	Inventronics ¹ (BILDA +8W OUTPUT)	-		

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

ACCESSORIES
JB1 IP68 13A IN-LINE CONNECTOR
JB1-(LENGTH IN METRES) IP68 13A IN-LINE CONNECTOR
RAE2-DO DIFFUSION HOOD (OPEN BOTTOMED)
RAE2-DC DIFFUSION HODD (CLOSED BOTTOMED)