





 CE, RoHS, ATEX & IECEx International product marks

Ex t IIIC T95°C or T80°C Db IP66

The most competitive, high-end solution for projects worldwide



Rankine 2 Series

Explosion Proof Low Bays & Floodlights

CDN:SPEC96REV15





Technical Specifications Summary



Performance Summary:					
Code (Series-Wattage/Size)	RAN2-30	RAN2-60			
Nominal Power	30W	60W			
Luminaire Efficacy @ CRI>70, 5700K CCT	139lm/W 132lm/W				
Lumen Output @ CRI>70, 5700K CCT	3,960lm	7,920lm			
Chip Lumen Maintenance (TM21 Reported)	L80B10 ≥50,000 hours @ 25°C Ambient				
Chip Lumen Maintenance (TM21 Calculated)	L80B10 ≥76,685 hours @ 25°C Ambient				
Certification	CE, RoHS, ATEX, IECEx				
Product Warranty	5 Years				

Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Osram Duris S5	
Chip Efficacy @ CRI>70, 5000K CCT	151lm/W	
Light Emmission	Direct	
ССТ	5700K, (3000K, 4000K, 5000K optional)	
CRI	≥70, ≥80	
Diffusers	Clear	
Symmetric Light Distribution	120°	
Electrical Parameters ¹ :		

Liectifical rainfileters.				
System Operating Power	30W 60W			
Input Voltage	100-240VAC			
Input Frequency	50-60Hz			
Inrush Current @ 100-240VAC	30A			
Power Factor	>0.98			
THD	<10% (100VAC-240VAC)			
Insulation Class				
Surge Protection/Fusing	5kV			

Environmental Parameters:

IP Rating	IP66		
IK Rating ²	IK10/IK08 or IK10/IK10		
Ambient Usage Tolerance	-40°C to 55°C		
Ambient Storage Tolerance	-40°C to 55°C		
Ambient Humidity Tolerance	0% to 90% RH		
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Physical/Mechanical Parameter	'S:			
Product Dimensions: LxWxH (mm)	311 x 284 x 190	311 x 284 x 190		
Qty of LED Chips	84	140		
Electrical Connection	Recommended	1mm² to 4mm²		
Wire-In-Wire-Out Installation	Yes			
Inlet Thread	M20 (M20x1.5), M25 (M25x1.5), NPT3/4"			
Gland Type ^{3,4}	Brass with Nickel Plated Non-Armoured (Armoured optional)			
Suitable Cable Size (ø) ⁵	M20 = 6.1-13.2mm, M25 = 9.5-15.9mm, NPT3/4" = 12.5-20.5mm			
Fixture Weight ⁶	5.3kg 5.3kg			
Fixture Primary Material(s)	ADC12 Aluminium Alloy (1.5-3.5% Copper) and 316 Stainless Steel Fixings			
Fixture Finish	Epoxy Powder Coated			
Lens(es) Materials	Tempered Glass			
Protection Method	Flame Proof			



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Code (Series-Wattage/Size)	RAN2-30	RAN2-60		
Options/Accessories:				
Mounting Styles	Universal Bracket, Eye Bolt, Surface Mount Bracket, Pipe Clamp Mount			
Miscellaneous Accessories	Wire Grill			
Available Product Colours	Orange (RAL2011), Grey (RAL7040)			

¹ Details are for standard non-dimming driver

 $^{^{6}}$ Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights

rtifications							
Division		A	ATEX Zone 1 & 21 and 2 & 22	2			
			€x II 2 G D				
Dura des et 84 aulière e			Ex d IIB T* or T* Gb				
Product Marking			Ex t IIIC T* or T* Db IP66				
		*for further information please see temperate table					
mperature Table							
		Temperature Class					
Product	Rated Power (Watts)	-40° to 40°C (Ta)		-40°C to 55°C (Ta)			
		Gas	Dust	Gas	Dust		
Rankine Series	30W	-	-	T6	T80°C		
Kankine Series	60W	T6	T80°C	T5	T95°C		
ertificate Number							
ATEX		LCIE 12 ATEX 3070 X					
IECEx	IECEx CQM 12.0033X						

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.



² (Format: "IK Rating: Housing" / "IK Rating: Front Face") – IK10 if fitted with wire guard accessory

³ Wire-in-wire-out compatible products supplied with one non-armoured ATEX certified gland and one ATEX certified blanking plug.

⁴ Armoured Cable gland available as a optional accessory. Please contact Kellwood for more information.

⁵ Stated cable size is applicable to standard gland. Armoured cable may vary, contact Kellwood for more information.







Mounting Options

Surface mount bracket, pipe clamp mount, universal bracket, eye bolt,



Distribution

General purpose symmetrical dispersion pattern suitable for most applications



User Friendly

Terminal block enclosure covers are secured to the luminaire for easier installation & faster maintenance



Environmental Protection

IP66, aluminium body c/w corrosion resistant paint finish - Salt spray testing reports available



Impact Protection

IK10 body, IK08 tempered glass front-face - Wire guard accessory increases front-face impact protection from IK08 to IK10



Electrical Protection

Custom-built PSU incorporates 5kV surge protection - Output voltage overload protection 48-51VDC



Reduced Glare

Recessed & spaced light engines also allow for excellent heat dissipation & low junction temperature



Optional Fitting Colours

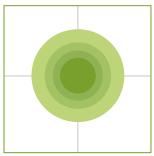
Orange, grey, custom - Available subject to MOQ

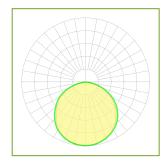


Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

Indicative Product Photometry

120° Circular

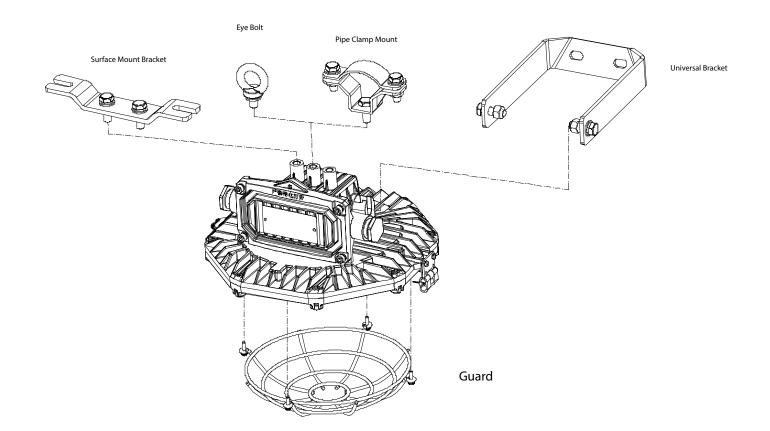






Colourations on isolux diagrams are qualitative, i.e. the same colour on any two isolux diagrams will not necessarily have the same lux value.

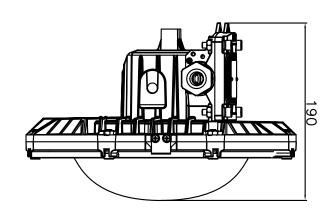
Bracketry



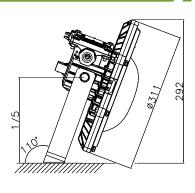
All units are in mm

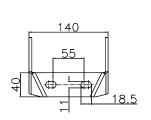


Dimensional Drawings

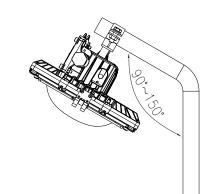


Universal Bracket

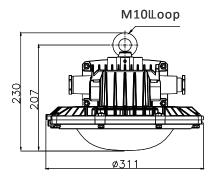


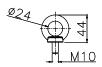


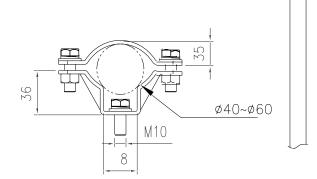
Pipe Clamp Mount



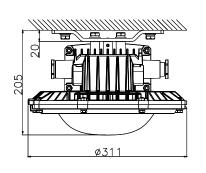


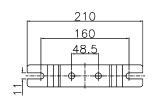


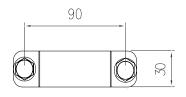




Surface Mount Bracket







All units are in mm



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	THREAD -	MODIFICATIONS
RAN2	30 30W	740 CRI >70, 4000K	120 120° CIRCULAR (S)	V1 INPUT VOLTAGE 100-240 VAC	UB UNIVERSAL BRACKET	OR ORANGE	I1 M25 INLET THREAD	WG WIRE GRILL
	60 60W	750 CRI >70, 5000K			EB EYE BOLT	GR GREY	I2 NPT3/4" INLET THREAD	
		757 CRI >70, 5700K			SM SURFACE MOUNT BRACKET		14 M20 INLET THREAD	
		830 CRI >80, 3000K			PC PIPE CLAMP MOUNT			

Product Ordering Code Examples: RAN2-30-757-120-V1-UB-OR-I1 RAN2-60-740-120-V1-SM-GR-I2-WG

BRACKETS & ACCESSORIES			
CODE	DESCRIPTION		
RAN2-UB	UNIVERSAL BRACKET FOR RANKINE 2 SERIES		
RAN2-EB	EYE BOLT FOR RANKINE 2 SERIES		
RAN2-SM	SURFACE MOUNT BRACKET FOR RANKINE 2 SERIES		
RAN2-PC	PIPE CLAMP FOR RANKINE 2 SERIES		
RAN2-WG	WIRE GRILL		

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

GENERAL NOTES:

- 1. IF MORE THAN ONE MODIFICATION IS REQUIRED, SEPARATE EACH MODIFICATION WITH A HYPHEN AT THE END OF THE PRODUCT CODE
- 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 -HAZARDOUS AREA CERTIFIED PRODUCT MODIFICATIONS ARE TYPICALLY LIMITED TO BRACKETRY (TO ENSURE COMPLIANCE WITH CERTIFICATION)
- 6. HAZARDOUS AREA CERTIFIED PRODUCTS ARE LISTED USING KELLWOOD'S STANDARD ORDERING CODE TEMPLATE FOR MARKETING PURPOSES. PRODUCTS WILL BE SUPPLIED WITH OEM NAMEPLATES, CODES & DOCUMENTATION CORRESPONDING TO PRODUCT CERTIFICATION