





 CE, RoHS, ATEX & IECEx International product marks

Ex t IIIC T95°C or T80°C Db IP66

Ex d IIB T5 or T6 Gb

The most competitive, high-end solution for projects worldwide



Rankine Series

Explosion Proof Low Bay & Pendant Lights

CDN:SPEC42REV25





Technical Specifications Summary







Performance Summary:			
Code (Series-Wattage/Size)	RAN-30	RAN-60	
Nominal Power	30W	60W	
Luminaire Efficacy @ CRI>70, 5700K CCT	103lm/W	103lm/W	
Lumen Output @ CRI>70, 5700K CCT	3,090lm	5,940lm	
Chip Lumen Maintenance (TM21 Reported)			
Chip Lumen Maintenance (TM21 Calculated)			
Certification	CE, RoHS, ATEX, IECEx		
Product Warranty	51	/ears	
Light Source and Photometric F	arameters:		
Chip Brand, Model, & Size	Osram Osl	on SSL 3030	
Chip Efficacy @ CRI>70, 5700K CCT	130lm/W	/ @ 600mA	
Light Emmission	Di	rect	
сст	5700K, (3000K, 400	00K, 5000K optional)	
CRI	≥70), ≥80	
Diffusers	Clear		
Symmetric Light Distribution	15°		
Electrical Parameters1:			
System Operating Power	30W	60W	
Input Voltage	100-2	240VAC	
Input Frequency	50-	60Hz	
Inrush Current @ 100-240VAC	30A	30A	
Power Factor	>(0.98	
THD	<10% (100VAC-240VAC)		
Insulation Class	T.		
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		
Marine Resistance Rating	C5		
Ambient Storage Tolerance	-40°C to 55°C		
Ambient Humidity Tolerance	0% to 90% RH		
Physical/Mechanical Parameter			
Product Dimensions: LxWxH (mm)	311 x 284 x 190	311 x 284 x 190	
Qty of LED Chips	28	28	
Electrical Connection	Recommended 1mm ² to 4mm ²		
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

Protection Method

Tempered Glass

Flame proof



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Code (Series-Wattage/Size)	RAN-30	RAN-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
- 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.
- ⁶ Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights

Certifications						
Division		ATEX Zone 1 & 21 and 2 & 22				
Product Marking	€x) II 2 G D					
	Ex d IIB T* or T* Gb					
	Ex t IIIC T* or T* Db IP66					
		*for further information please see temperate table				
Temperature Table						
Product		Temperature Class				
	Rated Power (Watts)	-40° to 40°C (Ta)		-40°C to 55°C (Ta)		
		Gas	Dust	Gas	Dust	
Rankine Series	30W	-	-	T6	T80°C	
	60W	T6	T80°C	T5	T95°C	
Certificate 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.





Features Summary



Mounting Options

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



Distribution

1no. optic available



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

IK09 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

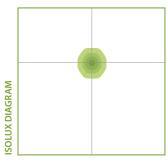
Orange, grey, custom - Available subject to MOQ

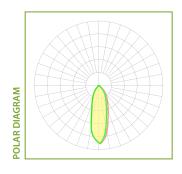


Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

Indicative Product Photometry

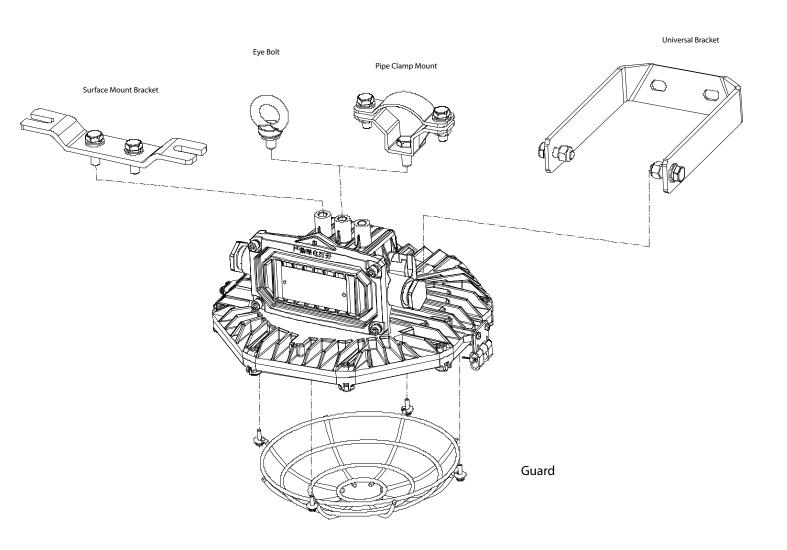








Bracketry

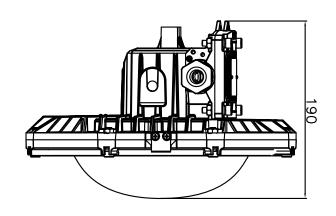


All units are in mm

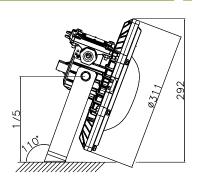


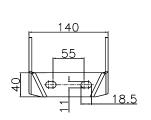
311

Dimensional Drawings

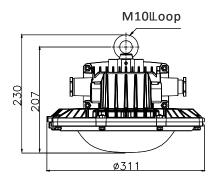


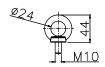
Universal Bracket



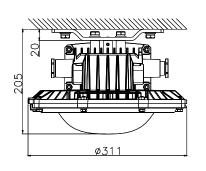


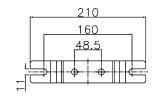
Eye Bolt



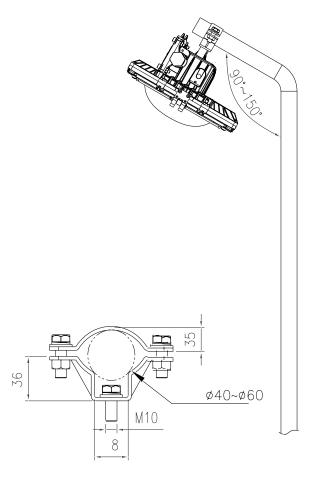


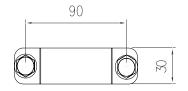
Surface Mount Bracket





Pipe Clamp Mount





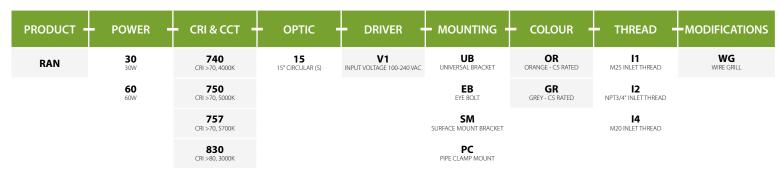
All units are in mm



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







Product Ordering Code Examples: RAN-30-757-15-V1-UB-OR-I1 RAN-60-740-15-V1-SM-GR-I2-WG

BRACKETS & ACCESSORIES		
CODE	DESCRIPTION	
RAN-UB	UNIVERSAL BRACKET FOR RANKINE SERIES	
RAN-EB	EYE BOLT FOR RANKINE SERIES	
RAN-SM	SURFACE MOUNT BRACKET FOR RANKINE SERIES	
RAN-PC	PIPE CLAMP FOR RANKINE SERIES	
RAN-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

NOTE: 2017 Product Code Updates

This product series previously used ordering codes starting with LED/HAZ-RAN/... Please contact us if you require further information on corresponding codes.