





CE, RoHS, ATEX & IECEx international product marks

Ex nR IIC T* Gc

Ex tc IIIC T* Dc IP66

The most competitive, high-end solution for projects worldwide



Gainsborough Series

Explosion Proof Floodlights & High Bays

* Product/temperature dependant - contact office for details

CDN:SPEC41REV20





Technical Specifications Summary



Performance Summary:					
Code (Series-Wattage/Size)	GAI-80 GAI-120 GAI-160 GAI-200 GAI-240				
Nominal Power	80W	120W	160W	200W	240W
Luminaire Efficacy @ CRI>70, 5000K CCT	84lm/W	82lm/W	81lm/W	84lm/W	84lm/W
Lumen Output @ CRI>70, 5000K CCT	6,720lm	9,840lm	11,745lm	15,120lm	20,160lm
Chip Lumen Maintenance (TM21 Reported)	L80B10 ≥42,000 hours @ 25°C Ambient				
Chip Lumen Maintenance (TM21 Calculated)	L80B10 ≥70,000 hours @ 25°C Ambient				
Certification	CE, RoHS, ATEX, IECEx				
Product Warranty	5 Years, (10 Years optional)				
Light Source and Photometric Parameters:					
Chip Brand, Model, & Size	Osram Oslon SSL 3030				
CI : FCC	1201 114 0 600 1				

Chip Brand, Model, & Size	Osram Oslon SSL 3030
Chip Efficacy @ CRI>70, 5700K CCT	130lm/W @ 600mA
Light Emmission	Direct
ССТ	5000K, (3000K, 4000K, 5700K optional)

CRI ≥70Ra, (≥80Ra optional) Diffusers Clear

Asymmetric Light Distribution	FW (120°x100°), SL (90°x150°)						
Electrical Parameters ¹ :							
System Operating Power	80W	120W	160W	200W	240W		
Input Voltage	100-130VAC, 220-240VAC						
Input Frequency (D1)		50-60Hz					
Inrush Current @100-130 or 220-240VAC	60A	60A 65A 65A 75A 75A					
Power Factor	>0.98						
THD	<10% (220-240VAC)						
Insulation Class	I I						
Surge Protection/Fusing	6kV						

surge i rotection, rusning	
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



Technical Specifications Summary

Cada (Carias Matta ra /Cina)	GAI-80	GAI-120	GAI-160	GAI-200	GAI-240	
Code (Series-Wattage/Size)		GAI-120	GAI-160	GAI-200	GAI-240	
Physical/Mechanical Parameters:						
Product Dimensions: LxWxH (mm)	210 x 400 x 161	260 x 400 x 161	260 x 400 x 161	500 x 400 x 161	500 x 400 x 161	
Qty of LED Chips	42	56	76	120	120	
Standard Electrical Connection	Terminal Block 1mm ² to	4mm ² - 0.7m 1mm ² 3-Cor	e Cable (Note: 1mm² to 2m	nm² if installed as Wire-In-	Wire-Out configuration)	
Electrical Connection JB (Optional)		Recommended for armo	oured cable glands, suppli	ed without cable glands		
Wire-In-Wire-Out Installation			Yes			
Inlet Thread		M20 (N	120x1.5), M25 (M25x1.5), N	IPT3/4"		
Gland Type ^{3,4}	Brass with Nickel Plated Non-Armoured (Armoured optional)					
Suitable Cable Size (ø) ⁵		M20 = 6.1-13.2mm,	M25 = 12.5-20.5mm, NPT	3/4" = 12.5-20.5mm		
Fixture Weight ⁶	7.3kg 11.0kg 11.0kg 18.4kg 18.4kg					
Fixture Primary Material(s)	600	63 Copper-Free Aluminiu	m Alloy (≤0.1% Copper) an	d 316 Stainless Steel Fixin	ngs	
Fixture Finish	Epoxy Powder Coated					
Lens(es) Materials	Tempered Glass					
Protection Method	Restricted Breathing					
Options/Accessories:						
Mounting Styles		Universal Bracket, Slip I	Fit, Pipe Clamp Mount, Eye	Bolt, Cable Suspension		
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

Certifications						
Division		ATEX Zone 2 & 22				
	€ <u></u> } II 3 G D					
Due deset Meuleine			Ex nR IIC T* Gc			
Product Marking			Ex tc IIIC T* Dc IP66			
		*for furthe	r information please see tempe	erate table		
Temperature Table						
		Temperature Class				
Product	Rated Power (Watts)	-40° to	40°C (Ta)	-40°C to 55°C (Ta)		
		Gas	Dust	Gas	Dust	
	80W		T80°C	T5		
	120W	Т6			T95°C	
Gainsborough Series	160W	10	160 C		195 C	
	200W					
	240W T5		T95°C	T4	T130°C	
Certificate Number						
ATEX	LCIE 14 ATEX 1014 X					
IECEx	IECEx CQM 13.0044X					

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.



Technical Specifications Summary



Mounting Options

Pipe clamp mount, universal bracket, slip fit, eye bolt, cable suspension, & custom



Distribution

7 no. optic variants are available for general & task-specific applications



User-Friendly

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



Environmental Protection

IP66, copper-free 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 4 or 6kV surge protection - Output voltage overload protection 54-63VDC



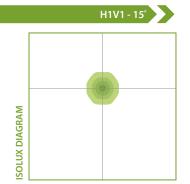
Optional Fitting Colours

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.

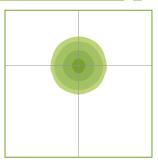
Indicative Product Photometry

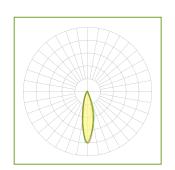






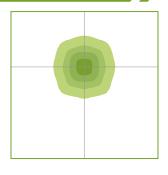


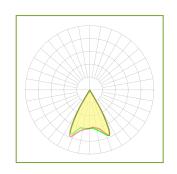






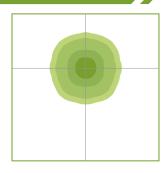
H4V4 - 60°

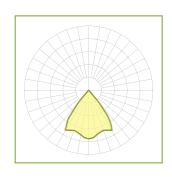






H5V5 - 80°





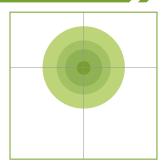


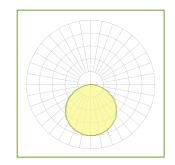


Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

Indicative Product Photometry

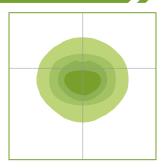
H6V6 - 120°

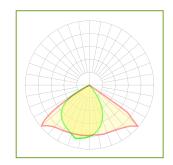






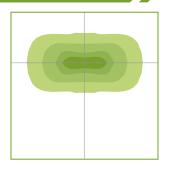
FW - 120° x 100°

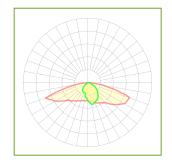






SL - 90° x 150°









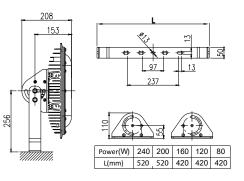
Slip Fit Dimensional Drawings

Cable Suspension

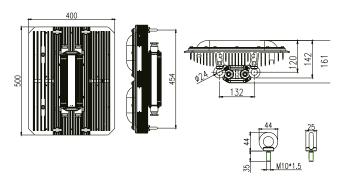
355

492 262 97 13 237 Power(W) 240 200 160 120 80 L(mm) 520 520 420 420 420

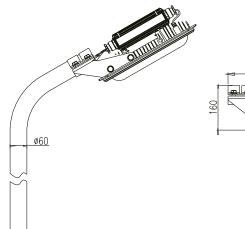
Universal Bracket

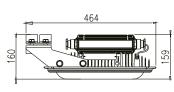


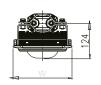
Eye Bolts

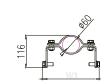


Pipe Clamp Mount











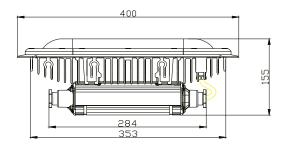
Power(W)	80	120	160
W(mm)	210	260	260
W1(mm)	203	253	253

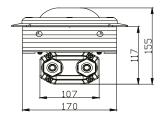
All units are in mm

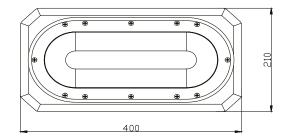


Dimensional Drawings

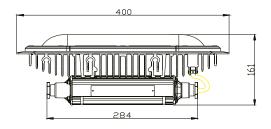
Nominal Power / Product Class 80W

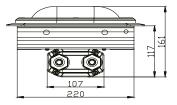


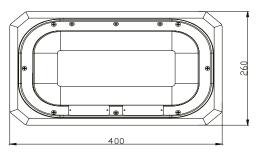




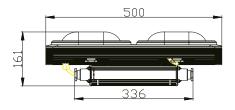
Nominal Power / Product Class 120W, 160W

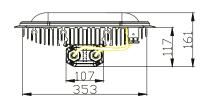


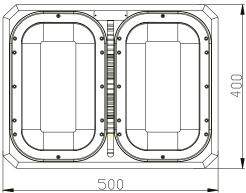




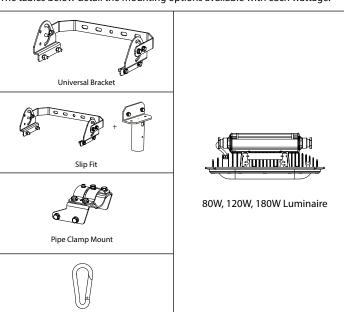
Nominal Power / Product Class 200W, 240W



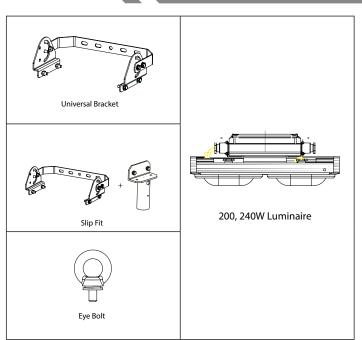




The tables below detail the mounting options available with each wattage:



Bracketry



Cable Suspension



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



Product Ordering Codes

PRODUCT •	POWER -	– CRI & CCT –	- ОРТІС	DRIVER -	- MOUNTING*	COLOUR -	THREAD -	CONFIGURABLE OPTION
GAI	80 80W	740 CRI >70, 4000K	15 15° CIRCULAR (H1V1)	V10 INPUT VOLTAGE 100-130 VAC	UB UNIVERSAL BRACKET	OR ORANGE	I1 M25 INLETTHREAD	WG WIRE GRILL
	120 120W	750 CRI >70, 5000K	40 40° CIRCULAR (H3V3)	V11 INPUT VOLTAGE 220-240 VAC	SF SLIP FIT	GR GREY	I2 NPT3/4" INLET THREAD	JB 90° CABLE ENTRY OPTION. RECOMMENDED FOR ARMOURED CABLE GLAND
	160 160W	757 CRI >70, 5700K	60 60° CIRCULAR (H4V4)		PC PIPE CLAMP MOUNT		14 M20 INLETTHREAD	
	200 200W	830 CRI >80, 3000K	80 80° CIRCULAR (H5V5)		EB EYE BOLT			
	240 240W		120 120° CIRCULAR (H6V6)		CS CABLE SUSPENSION			
			FW 120° × 100° WITH FORWARD THRON	N				
			SL 90° x 150° STREET LIGHT					

Product Ordering Code Examples: *GAI-120-757-80-V11-UB-OR-I1 GAI-200-750-FW-V11-PC-GR-I2*

*NOT ALL BRACKETRY IS AVAILABLE WITH ALL WATTAGES - PLEASE REFER TO BRACKETRY TABLES FOR FURTHER DETAILS

	BRACKETS & ACCESSORIES				
CODE	DESCRIPTION				
GAI-UB1	UNIVERSAL BRACKET FOR 80W, 120W, 160W GAINSBOROUGH SERIES				
GAI-SF1	SLIP FIT FOR 80W, 120W, 160W GAINSBOROUGH SERIES				
GAI-PC1	PIPE CLAMP FOR 80W, 120W, 160W GAINSBOROUGH SERIES				
GAI-CS1	CABLE SUSPENSION FOR 80W, 120W, 160W GAINSBOROUGH SERIES				
GAI-UB2	UNIVERSAL BRACKET FOR 200W, 240W GAINSBOROUGH SERIES				
GAI-SF2	SLIP-FIT FOR 200W, 240W GAINSBOROUGH SERIES				
GAI-EB2	EYE BOLT FOR 200W, 240W GAINSBOROUGH SERIES				
GAI-WG	WIRE GRILL FOR GAINSBOROUGH SERIES				

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

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS