KELLWOOD LIGHTING

Multi-purpose, compact, industrial lighting hardware, developed for application in warehouses, factories, workshops, & production areas

80W-200W series power range - Impact, ingress, & corrosion resistant fitting - 130lm/W family efficacy - 2no. general purpose & task-specific optics

Reduced UGR control through optional anti-glare reflector

Magnesium alloy heat sink & graphene thermal paste provides superior heat dissipation

Harris Series

POB High Bays

CE, and RoHS international product marks

CDN:SPEC175REV1

EST. 1985

ENGINEERING

ELECTRICAL

LIGHTING

Technical Specifications Summary

Performance Summary:					
Code (Series-Wattage/Size)	HARR-80	HARR-100	HARR-120	HARR-150	HARR-200
Nominal Power	80W	100W	120W	150W	200W
Luminaire Efficacy @ CRI70, 5000K CCT	130lm/W	130lm/W	130lm/W	130lm/W	130lm/W
Lumen Output @ CRI70, 5000K CCT	10,400lm	13,000lm	15,600lm	19,500lm	26,000lm
Lumen Maintenance (TM21 Reported)	L80B10>52,421 Hours @Ta 25°C				
Lumen Maintenance (TM21 Calculated)	L70B50>100,000 Hours @Ta 25°C				
Certification	CE, RoHS, SAA				
Product Warranty	5 Years				

Light Source and Photometric Parameters:	
Chip Brand, Model, & Size	Nichia GRT-V3
Chip Efficacy @ CRI70, 5000K CCT	162lm/W @150mA, 25°C
Light Emmission	Direct
CCT	5000K (3000K, 4000K, 5700K optional)
CRI	≥70Ra, (≥80Ra optional)
SDCM	≤5
Diffusers	Clear, (Frosted optional)
Symmetric Light Distribution	120°
Optical Accessories	Low UGR Reflector, Arc Lens

Electrical Parameters[1]:					
System Operating Power	100W	120W	150W	200W	200W
Driver Model	Power On Board (POB)				
System Power Factor	>0.99				
Typical Driver Lifetime	5 Years				
Input Voltage	220-240VAC , (100-120VAC optional)				
Input Frequency	50-60Hz				
Qty of Drivers per Light	Not Applicable				
Inrush Current (Non-Dimming Driver)	Zero				
THD	<10% (220-240VAC)				
Insulation Class	Class I				
Surge Protection/Fusing	1.5kV, (15kV optional)				

Environmental Parameters:	
IP Rating	IP65
IK Rating	IK10
Ambient Usage Tolerance	-40°C to 50°C
Ambient Storage Tolerance	-40°C to 65°C
Ambient Humidity Tolerance	15% to 90% RH

Code (Series-Wattage/Size)	HARR-80	HARR-100	HARR-120	HARR-150	HARR-200
Physical/Mechanical Parameters:					
Product Dimensions: LxWxH (mm)	200 x 200 x 155	250 x 250 x 155	250 x 250 x 155	320 x 320 x 155	320 x 320 x 155
Qty of LED Chips	126	126	168	210	301
Qty of Modules	1	1	1	1	1
Electrical Connection	AC cable 0.3m, 3 core 1.5m²				
Fixture Weight²	1.3kg	1.7kg	1.7kg	2.3kg	2.3kg
Fixture Primary Material(s)	Aluminium Magnesium Alloy				
Fixture Finish	Powder Coated				
Lens(es) Materials	UV Stabilised Polycarbonate				
Options/Accessories:					
Mounting Styles	Eyebolt				
Available Product Colours	Black, White				

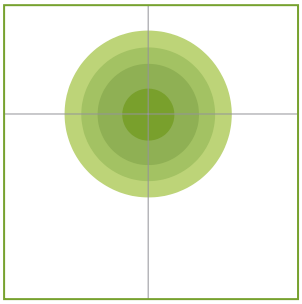
[1] Electrical Parameter data is for D1 drivers, unless otherwise stated
[2] Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights

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.

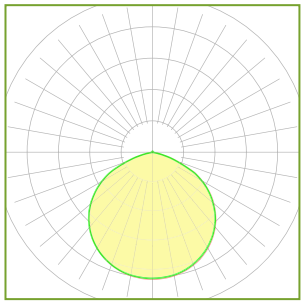
Indicative Product Photometry

120° Optic

ISOLUX DIAGRAM



POLAR DIAGRAM



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 Diffuser

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.

Features Summary

Power On Board

A fully customised design: Power-On-Board (POB) drivers are designed specifically for the LED load and electronic circuitry that they are powering

A compact design (more lights can fit on a pallet, resulting in reduced shipping costs)

Assembly time and costs are reduced - the electronics and LED chips are combined on the same PCB

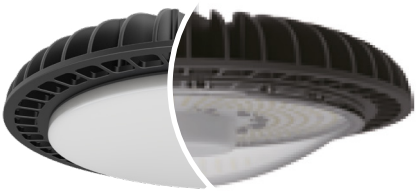
The inrush current is negligible

Heat Dissipation

Combining the graphene thermal paste and magnesium alloy heat sink, allows for a longer luminaire life span of L80B10>52,420 Hours @Ta 25°C

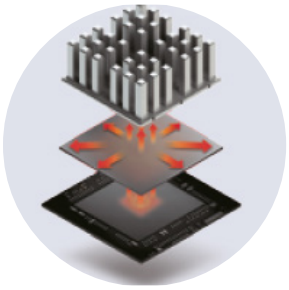
Low Glare Rating

<19 UGR can be achieved with the use of the anti-glare reflector.



Lens/Diffuser

The Harris Series has the choice of Clear, Frosted diffuser and Arc Lens.



Graphene

The Harris Series utilises graphene thermal grease as a thermal filler between the PCB and heat sink - this provides efficient thermal dissipation and higher luminaire efficacy.

Product Ordering Codes

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	FILTER	MODIFICATIONS
HARR	**80** 80W	**730** CRI >70, 3000K	**120** 120° CIRCULAR	**D1** NON-DIM (220-240VAC)	**EB** EYEBOLT	**BL** BLACK	**F1** EMI FILTER	**SP1** 15kV SURGE PROTECTION
	100 100W	**740** CRI >70, 4000K	**FR** FROSTED COVER	**D4** NON-DIM (100-120VAC)				**LGR** LOW GLARE (UGR) REFLECTOR
	120 120W	**750** CRI >70, 5000K						**ARC** ARC LENS
	150 150W	**757** CRI >70, 5700K						
	200 200W	**830** CRI >80, 3000K						
		840 CRI >80, 4000K						
		850 CRI >80, 5000K						
		857 CRI >80, 5700K						

Product Ordering Code Examples:
HARR-100-750-120-D1-EB-BL-F1
HARR-150-840-120-D4-EB-BL-F1

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

ACCESSORIES

HAR- LGR
LOW GLARE (UGR) REFLECTOR