



Specialist low glare, industrial lighting developed & refined for application in Heavy Engineering, Mass Production and Aviation Maintenance industries.

90W-480W series power range – available with integrated smart controls, multiple mounting options a wide array of asymmetric optics.

CE, RoHS, LVD, EMC & ERP international product marks



Henman Series

High Performance Versatile LED Bay Light

CDN:SPEC164REV1

Technical Specifications Summary



Performance Summary:

Code (Series-Wattage/Size)	HEN-90	HEN-120	HEN-150	HEN-180	HEN-210	HEN-240	HEN-300	HEN-360	HEN-420	HEN-480
Nominal Power	90W	120W	150W	180W	210W	240W	300W	360W	420W	480W
Luminaire Efficacy @ CRI>70, 5000K CCT	152lm/W	152lm/W	152lm/W	153lm/W	151lm/W	152lm/W	152lm/W	140lm/W	151lm/W	152lm/W
Lumen Output @ CRI>70, 5000K CCT	13,680lm	18,240lm	22,800lm	27,540lm	31,710lm	36,480lm	45,600lm	50,400lm	63,420lm	72,960lm
Lumen Maintenance (TM21 Reported)	L70 ≥60,000 hours @ 25°C									
Lumen Maintenance (TM21 Calculated)	L70 ≥213,000 hours @ 25°C									
Lumen Maintenance (TM21 Reported)	L80 ≥60,000 hours @ 25°C									
Lumen Maintenance (TM21 Calculated)	L80 ≥131,000 hours @ 25°C									
Certification	CE, RoHS, LVD, EMC & ErP									
Product Warranty	7 Years (3 Years Emergency)									

Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Nichia GRT-V3
Chip Efficacy @ CRI>70, 5000K CCT	162lm/W @150mA, 25°C
Light Emission	Direct
CCT	5000K, (3000K, 4000K optional)
CRI	≥70, (≥80 optional)
SDCM	≤5
Diffusers	Clear
Symmetric Light Distribution	70°
Asymmetric Light Distribution	A1 (30° x 100°), A4 (55° x 130°), A8 (30° x 70°)

Electrical Parameters:

System Operating Power	90W	120W	150W	180W	210W	240W	300W	360W	420W	480W
Driver Brand	Meanwell (Inventronics DALI-dimming Optional)									
Driver Model	HLG-100H	HLG-120H	HLG-150H	HLG-185H	HLG-240H	HLG-240H	HLG-320H	HLG-480H	HLG-480H	HLG-480H
Typical Driver Lifetime (Case Temp.)	100,000 hours @Tc 25°C 50,000 hours @Tc 80°C									
Input Voltage	100-277VAC									
Input Frequency	50-60Hz									
Qty of Drivers per Light	1									
Inrush Current Per Driver @ 230VAC measured at 50% Ipeak (Peak/Duration)	60A/415µs	60A/375µs	65A/425µs	65A/445µs	75A/570µs		70A/1010µs	35A/1800µs		
Recommended Lights per Circuit (16A Type C MCB)	8	9	7	7	4		2	3		
Power Factor	>0.95									
THD	<15% (100-270VAC)									
Insulation Class	Class I									
Surge Protection/Fusing	2kV line-line, 4kV line-earth									

Technical Specifications Summary

Code (Series-Wattage/Size)	HEN-90	HEN-120	HEN-150	HEN-180	HEN-210	HEN-240	HEN-300	HEN-360	HEN-420	HEN-480
Environmental Parameters:										
IP Rating	IP65									
IK Rating	IK08									
Ambient Usage Tolerance	-40°C to 60°C									
Ambient Storage Tolerance	-40°C to 65°C									
Driver automatic turn-off temperature	90°C Tc - Driver Powers OFF to protect the LED Load									
Ambient Humidity Tolerance	15% to 90% RH									
Physical/Mechanical Parameters:										
Product Dimensions: LxWxH (mm)	620 x 195 x 91	620 x 195 x 91	620 x 195 x 91	920 x 195 x 91	920 x 195 x 91	1220 x 195 x 91	680 x 382 x 190	980 x 382 x 190	980 x 382 x 190	1220 x 382 x 190
Qty of LED Chips	114	192	240	288	336	384	480	576	672	768
Qty of Modules	3	4	5	6	7	8	10	12	14	16
Electrical Connection	1000mm C-Core cable									
Fixture Weight ²	4.2kg	4.7kg	5.0kg	6.3kg	6.5kg	8.1kg	10.0kg	12.8kg	13.8kg	15.8kg
Fixture Primary Material(s)	Aluminium Alloy and Stainless Steel Fixings									
Fixture Finish	Anodised									
Lens(es) Materials	UV Stabilised Polycarbonate									
Dimming/Controls Parameters:										
Dimming Options	1-10V, DALI									
Built-in Controls	Microwave Sensor									
Compatible intelligent lighting systems	Wireless Controls and Monitoring									
Options/Accessories:										
Mounting Styles	Cable Suspension, Twin Surface Mount Brackets									
Miscellaneous Accessories	3Hr 5.6W Emergency, Remote-Test or Self-Test									
Available Product Colours	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

Coming Soon:

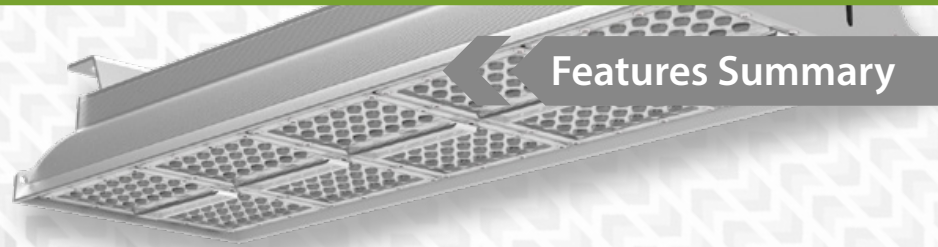
Henman 2 Series - c/w Wireless Occupancy Control and Monitoring



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.

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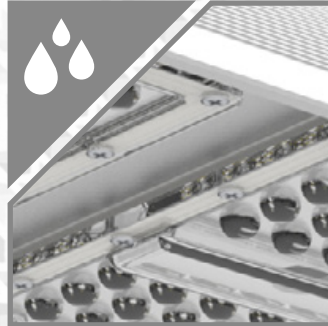


Features Summary



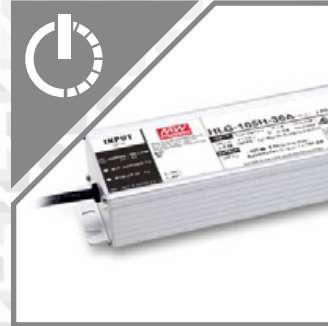
Mounting Options

Twin Suspension Cables, Twin Surface Mount Brackets with adjustable tilt feature



Environmental Protection

IP65 rated



Driver Protocols

Non-dimming, 1-10V, DALI



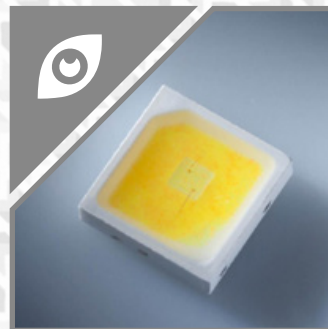
Emergency

3 hour emergency compatible, available with remote-test, and self-test



Optical Distribution

General purpose asymmetric/symmetric dispersion pattern suitable for most applications



Chip Type

Nichia GRT-V3



Dimmable Options

DALI, 1-10V



Sensor(s)

Integrated, standalone (single or multiple luminaires per sensor options). Ingress protection of fitting may reduce subject to integrated controls.

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 Polycarbonate

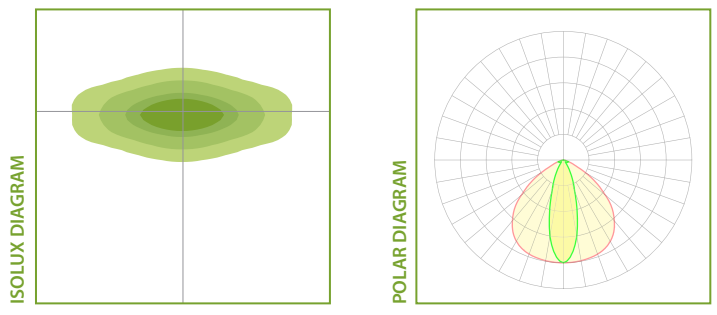




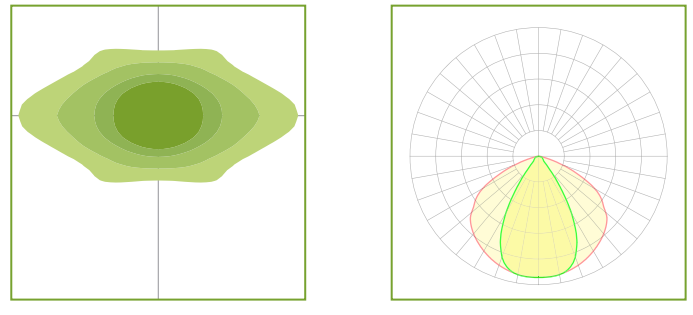
Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

Indicative Product Photometry

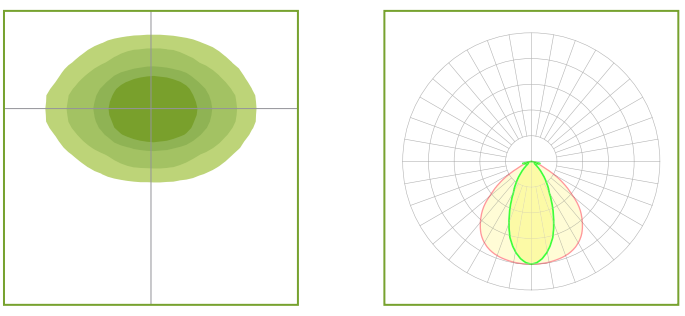
A1 - 30° x 100°



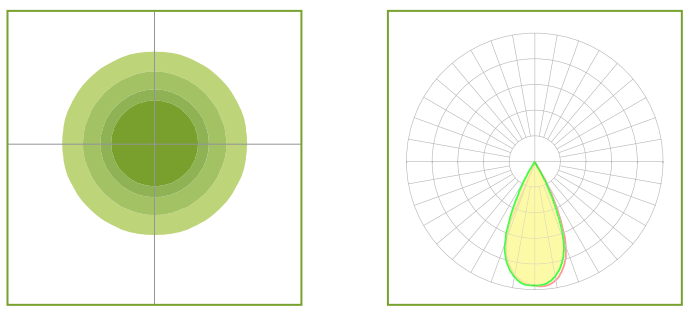
A4 - 55° x 130°



A8 - 30° x 70°



70° 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.





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



Product Ordering Codes

PRODUCT	POWER	CRI & CCT	OPTIC	DRIVER	MOUNTING	COLOUR	CONFIGURABLE OPTION
HEN	90 90W	730 CRI >70, 3000K	70 70° CIRCULAR	D1 NON-DIM	CS CABLE SUSPENSION	SL SILVER	M1 MICROWAVE SENSOR
	120 120W	740 CRI >80, 4000K	A1 30/100° RECTANGULAR	D2 1-10V	TM TWIN SURFACE MOUNT BRACKETS		E3R1 INTEGRATED 3 HOUR MAINTAINED 5.6W EMERGENCY (REMOTE TEST)
	150 150W	750 CRI >70, 5000K	A4 55/130° RECTANGULAR	D3 DALI		E3S1 INTEGRATED 3 HOUR MAINTAINED 5.6W EMERGENCY (SELF TEST)	
	180 180W	830 CRI >80, 3000K	A8 30/70° RECTANGULAR				
	210 210W	840 CRI >80, 4000K					
	240 240W	850 CRI >80, 5000K					
	300 300W						
	360 360W						
	420 420W						
	480 480W						

GENERAL NOTES:

- IF MORE THAN ONE MODIFICATION IS REQUIRED, SEPARATE EACH MODIFICATION WITH A HYPHEN AT THE END OF THE PRODUCT CODE
- PLEASE ENSURE SELECTION OF COMPATIBLE DRIVER FOR OCCUPANCY SENSORS WITH DIMMING FUNCTIONALITY
- PLEASE NOTE THAT MODIFICATIONS WHICH AFFECT LIGHT OUTPUT HAVE SEPARATE PHOTOMETRIC FILES IDENTIFIED WITH "...+(MODIFICATION)"
- ALTERNATIVE DRIVERS MAY BE AVAILABLE - PLEASE CONTACT OUR OFFICE FOR FURTHER DETAILS
- IF PRODUCT IS CUSTOMISED, CODES WILL BE ALTERED AS NECESSARY

Product Ordering Code Examples:

HEN-120-750-A4-D1-TM-SL

HEN-300-850-70-D3-TM-SL-E3W1

DRIVER MANUFACTURER			
POWER	D1	D2	D3
90 90W	Mean Well HLG	Mean Well HLG	Inventronics
120 120W	Mean Well HLG	Mean Well HLG	Inventronics
150 150W	Mean Well HLG	Mean Well HLG	Inventronics
180 180W	Mean Well HLG	Mean Well HLG	Inventronics
210 210W	Mean Well HLG	Mean Well HLG	Inventronics
240 240W	Mean Well HLG	Mean Well HLG	Inventronics
300 300W	Mean Well HLG	Mean Well HLG	Inventronics
360 360W	Mean Well HLG	Mean Well HLG	Inventronics
420 420W	Mean Well HLG	Mean Well HLG	Inventronics
480 480W	Mean Well HLG	Mean Well HLG	Inventronics

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

