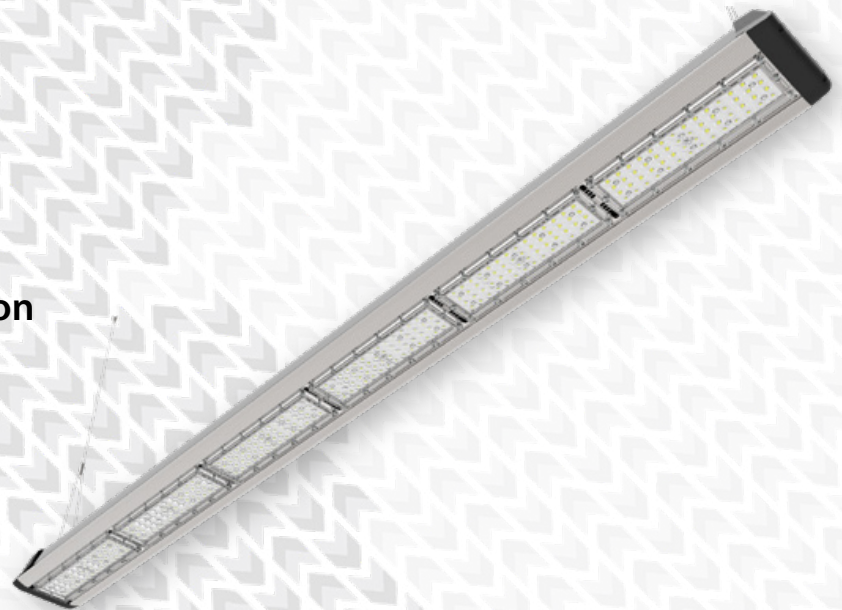




Industrial lighting hardware, developed & refined for application throughout, warehousing & associated environments - Light distribution variants suitable for both racking corridors & open-plan areas

50W-300W series power range - Impact, ingress, & corrosion, resistant fittings - >140lm/W family efficacy - 8no. general purpose & task-specific optics - Surface mounting & suspension installation suitable - Integrated, standalone, & wireless network, intelligent control options available

CE, RoHS, DLC, & CB, international product marks



Argyll 2 Series

Warehouse High Bay Lights

CDN:SPEC151REV1

Technical Specifications Summary



Performance Summary:

| Code (Series-Wattage/Size) | ARG2-50 | ARG2-100 | ARG2-150 | ARG2-200 | ARG2-300 |
|--|----------------------|----------|----------|----------|----------|
| Nominal Power | 50W | 100W | 150W | 200W | 300W |
| Luminaire Efficacy @ CRI>70, 4000K CCT | 140lm/W | | | | |
| Lumen Output @ CRI>70, 4000K CCT | 7,000lm | 14,000lm | 21,000lm | 28,000lm | 42,000lm |
| Lumen Maintenance (TM21 Calculated) | L70BXX ≥82,000 hours | | | | |
| Certification | CE, RoHS, DLC, CB | | | | |
| Product Warranty | 5 Years | | | | |

Light Source and Photometric Parameters:

| | |
|-----------------------------------|--|
| Chip Brand, Model, & Size | Philips Lumileds 3030 |
| Chip Efficacy @ CRI>80, 4000K CCT | 162lm/W @ 120mA |
| Light Emission | Direct |
| CCT | 5000K, (3000K, 4000K, 6000K optional) |
| CRI | ≥70, (≥80 optional) |
| Diffusers | Clear |
| Symmetric Light Distribution | 90°, 110°, 150° |
| Asymmetric Light Distribution | IESNA 1S, 2S, 3M, A1(30° x 100°), A2 (60° x 100°), |

Electrical Parameters²:

| System Operating Power | 50W | 100W | 150W | 200W | 300W |
|--|-------------------|--------------|--------------|--------------|--------------|
| Driver Brand | Mean Well | | | | |
| Driver Model | HLG-60H-48A | HLG-100H-48A | HLG-150H-48A | HLG-240H-48A | HLG-150H-48A |
| System Power Factor | >0.95 | | | | |
| Typical Driver Lifetime | 62,000 hours | | | | |
| Input Voltage | 220-240VAC | | | | |
| Input Frequency | 50-60Hz | | | | |
| Qty of Drivers per Light | 1 | 1 | 1 | 1 | 2 |
| Inrush Current (Non-Dimming Driver) ³ | 55A | 60A | 65A | 75A | 65A |
| Power Factor | >0.9 | | | | |
| THD | <20% (220-240VAC) | | | | |

Environmental Parameters:

| | |
|----------------------------|---------------|
| IP Rating | IP65 |
| IK Rating | IK10 |
| Ambient Usage Tolerance | -30°C to 45°C |
| Ambient Storage Tolerance | -40°C to 80°C |
| Ambient Humidity Tolerance | 15% to 95% RH |

Technical Specifications Summary

| Code (Series-Wattage/Size) | ARG2-50 | ARG2-100 | ARG2-150 | ARG2-200 | ARG2-300 |
|--|---|----------------|----------------|-----------------|-----------------|
| Physical/Mechanical Parameters: | | | | | |
| Product Dimensions: LxWxH (mm) | 335 x 159 x 95 | 650 x 159 x 95 | 945 x 159 x 95 | 1240 x 159 x 95 | 1830 x 159 x 95 |
| Electrical Connection | 1000mm Cable | | | | |
| Fixture Weight³ | 2.5kg | 4.5kg | 6.5kg | 8.8kg | 13.7kg |
| Fixture Primary Material(s) | Aluminium Alloy | | | | |
| Fixture Finish | Anodised, (Corrosion Resistant Finish optional) | | | | |
| Lens(es) Materials | UV Stabilised Polycarbonate | | | | |
| Dimming/Controls Parameters: | | | | | |
| Dimming Options | 1-10V, DALI | | | | |
| Built-in Controls | Photocell, Microwave Sensor (Remote Control) | | | | |
| Compatible intelligent lighting systems | Wireless Controls and Monitoring | | | | |
| Options/Accessories: | | | | | |
| Mounting Styles | Cable Suspension, Twin Surface Mount Brackets | | | | |
| Miscellaneous Accessories | IP68 13A In-Line Connector, 3 Hour Emergency Pack | | | | |
| Available Product Colours | Black, Silver | | | | |

¹ UGR varies with light distribution. For further details contact our office

² Electrical Parameter data is for D1 drivers, unless otherwise stated

³ Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights

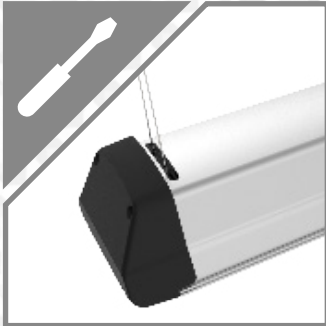
All stated values should be considered indicative only. Technical data is provided from sample luminaires and construction components as assessed by OEM(s) under industry-standard, laboratory conditions. In practice, stated values can vary. Kellwood Lighting operates a policy of continual product improvement. 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.

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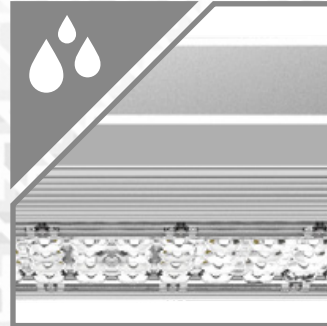
Features Summary


Mounting Options

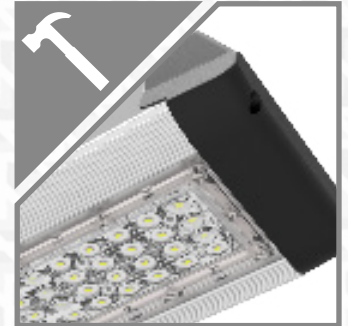
Surface mount brackets, wire suspension


Optional Fitting Colours

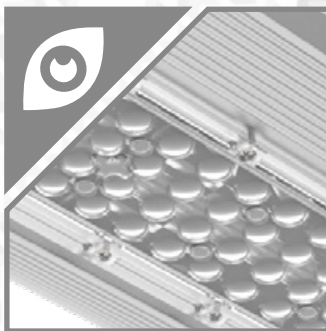
Silver - Black & custom, subject to MOQ


Environmental Protection

IP65 - corrosion-resistant anodisation available - 304 stainless steel exposed fixtures


Impact Protection

IK10 rated


Distribution

8no. optic variants are available for general & task-specific applications


Cable

Cable extensions available c/w IP66 in-line barrel connector


Driver Protocols

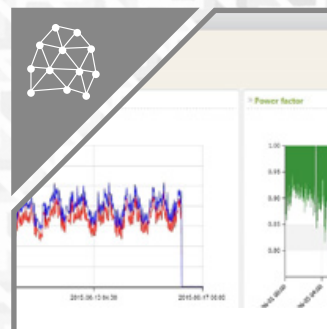
Non-dimming, 0-10V, 1-10V, DALI


Sensor(s)

Integrated, standalone (single or multiple luminaires per sensor options)


Sensor Functions

Occupancy, multi-step dimming, photocell, daylight harvesting


Advanced Controls

System energy reports, data monitoring, IoT (wireless/wired/mesh) networks


Non-Integrated Emergency Pack

Available in a range of outputs (2.8W to 15W) and enclosures (IP54, IP65 and IP66)

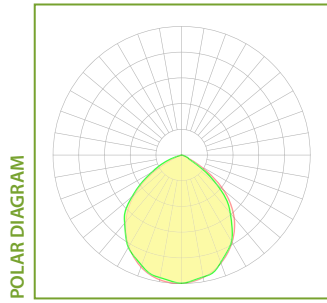
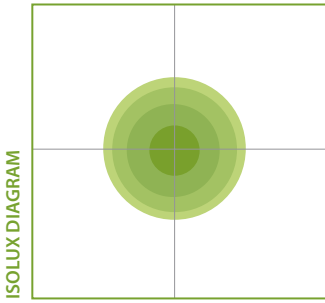
15W (IP66) pack is suitable for M2 variant with permanent supply only



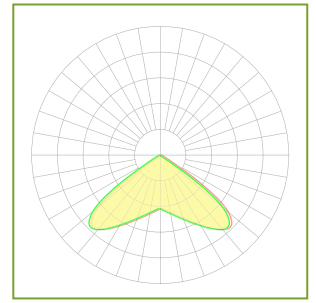
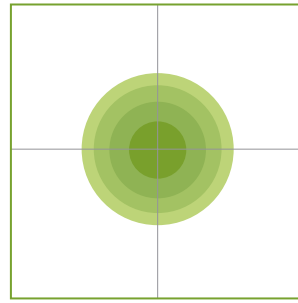
Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

Indicative Product Photometry

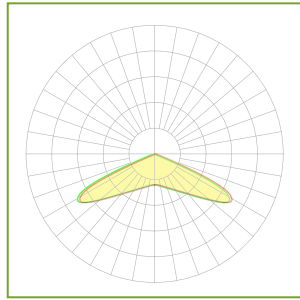
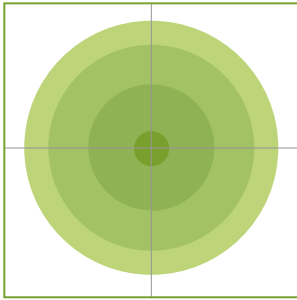
90° Optic



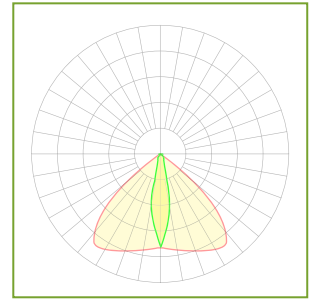
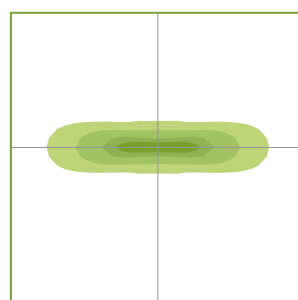
110° Optic



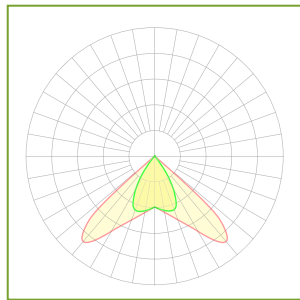
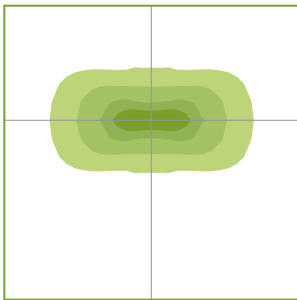
150° Optic



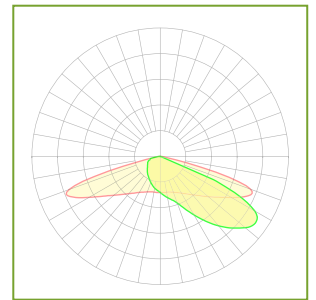
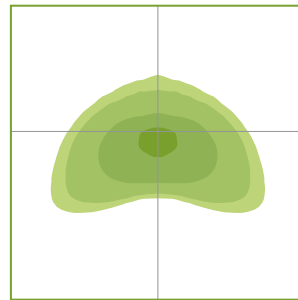
A1 Optic



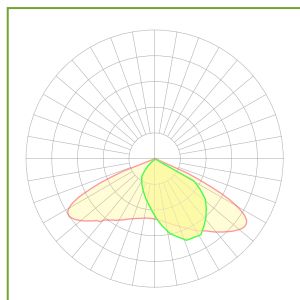
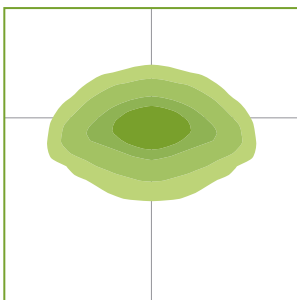
A2 Optic



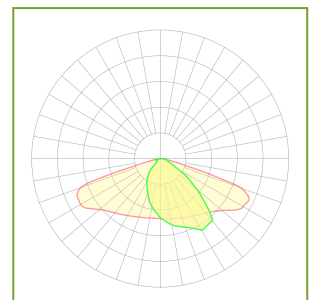
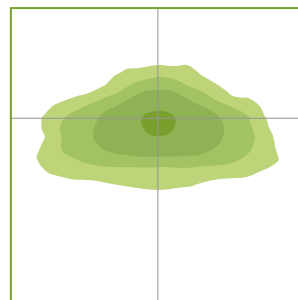
IESNA Type 1S



IESNA Type 2S



IESNA Type 2M



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)

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 | MODIFICATIONS |
|-------------|--------------------|-----------------------------------|----------------------------------|----------------------|--|---------------------|---|
| ARG2 | 50 50W | 730 CRI >70, 3000K | 90 90° CIRCULAR | D1 NON-DIM | CS CABLE SUSPENSION | BL BLACK | PH1 PHOTOCELL |
| | 100 100W | 740 CRI >70, 4000K | 110 110° CIRCULAR | D2 1-10V | TM TWIN SURFACE MOUNT BRACKETS | SI SILVER | CR CORROSION RESISTANT FINISH |
| | 150 150W | 750 CRI >70, 5000K | 150 150° CIRCULAR | D3 DALI | | | UM COMPATIBLE WITH UMBILICAL EMERGENCY MODULE |
| | 200 200W | 760 CRI >70, 6000K | A1 30X100° RECTANGULAR | | | | M2 MICROWAVE SENSOR (REMOTE CONTROL) |
| | 300 300W | 840 CRI >80, 4000K | A2 60X100° RECTANGULAR | | | | |
| | | 850 CRI >80, 5000K | 1S IESNA TYPE I SHORT | | | | |
| | | 860 CRI >80, 6000K | 2S IESNA TYPE II SHORT | | | | |
| | | 2M IESNA TYPE II MEDIUM | | | | | |

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:

ARG2-50-750-90-D1-TM-BL

ARG2-100-840-110-D2-CS-SI-M2-UM

| DRIVER MANUFACTURER | | | |
|---------------------|------------------|------------------|---------------------|
| POWER | D1 | D2 | D3 |
| 50 50W | Mean Well | Mean Well | Inventronics |
| 100 100W | Mean Well | Mean Well | Inventronics |
| 150 150W | Mean Well | Mean Well | Inventronics |
| 200 200W | Mean Well | Mean Well | Inventronics |
| 300 300W | Mean Well | Mean Well | Inventronics |

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

| ACCESSORIES |
|---|
| JB1 IP68 13A IN-LINE CONNECTOR |
| JB1-(LENGTH IN METRES) IP68 13A IN-LINE CONNECTOR WITH CABLE TO REQUESTED LENGTH |
| ARG2-E3R1-"POWER"-3 3HR MAINTAINED NED EMERGENCY PACK - REMOTE TEST WITH 3 CELL NiCd BATTERY AND IP54 ENCLOSURE - 2.8W OUTPUT |
| ARG2-E3R1-"POWER"-6 3HR MAINTAINED NED EMERGENCY PACK - REMOTE TEST WITH 6 CELL NiCd BATTERY AND IP54 ENCLOSURE - 5.6W OUTPUT |

