











Technical Specifications Summary



| Performance Summary: | | | | | | | | |
|--|---|--|----------|----------|----------|-----------|----------|-----------|
| Code (Series-Wattage/Size) | CAR3-100 | CAR3-100A | CAR3-120 | CAR-120A | CAR3-150 | CAR3-150A | CAR3-200 | CAR3-200A |
| Nominal Power | 100W | 100W | 120W | 120W | 150W | 150W | 200W | 200W |
| Luminaire Efficacy @ CRI>70, 5000К ССТ | 155lm/W | 155lm/W | 158lm/W | 155lm/W | 159lm/W | 155lm/W | 155lm/W | 155lm/W |
| Lumen Output @ CRI>70, 5000К ССТ | 15,500lm | 15,500lm | 18,960lm | 18,600lm | 23,850lm | 23,250lm | 31,000lm | 31,000lm |
| Lumen Maintenance (TM21 Reported) | | L70B10 ≥50,000 hours @ Ta 30°C | | | | | | |
| Lumen Maintenance (TM21 Calculated) | | L80B10 ≥67,000 hours @ Ta 25°C | | | | | | |
| Certification | | CE, RoHS, DLC, SAA, UL, CB, NSF Approved | | | | | | |
| Product Warranty | | 5 Years | | | | | | |
| Light Source and Photometric P | arameters: | | | | | | | |
| Chip Brand, Model, & Size | | Nichia GRT-V3 | | | | | | |
| Light Emmission | | Direct | | | | | | |
| сст | | 5000K, (3000K, 4000K optional) | | | | | | |
| CRI | | ≥70Ra, (≥80Ra optional) | | | | | | |
| SDCM | <5 | | | | | | | |
| Diffusers | Clear (120°) - Polycarbonate or Tempered Glass, Frosted | | | | | | | |
| Symmetric Light Distribution | 50°, 60°, 90°, 120° | | | | | | | |
| Electrical Parameters1: | | | | | | | | |
| System Operating Power | 100 | ow | 120 | oW. | 15 | 0W | 20 | 0W |

| Diffusers | Clear (120°) - Polycarbonate or Tempered Glass, Frosted | | | | | |
|---|---|-------------------------|------------------------|---------|--|--|
| Symmetric Light Distribution | 50°, 60°, 90°, 120° | | | | | |
| Electrical Parameters ¹ : | | | | | | |
| System Operating Power | 100W 120W 150W 200W | | | | | |
| Driver Brand | | Mean Well (Inventronics | DALI-dimming optional) | | | |
| Driver Model | HLG-100 | HLG-120 | HLG-150 | HLG-240 | | |
| Typical Driver Lifetime | | ≥100,000 ho | urs @Tc 70°C | | | |
| Input Voltage | | 100-24 | 40VAC | | | |
| Input Frequency | 50-60Hz | | | | | |
| Qty of Drivers per Light | 1 | | | | | |
| Inrush Current Per Driver @ 230VAC measured at 50% Ipeak (Peak/Durata- tio) | 60A/415μs 60A/375μs 65A/425μs 75A/570μ | | | | | |
| Max Lights per Circuit (16A Type C MCB) | 8 | 9 | 7 | 4 | | |
| Power Factor | >0.94 | | | | | |
| THD | <20% | | | | | |
| Insulation Class | Class I | | | | | |
| Surge Protection/Fusing | 2kV line-line, 4kV line-earth | | | | | |
| Environmental Parameters: | | | | | | |
| IP Rating | | ID ₆ | 56 | · | | |

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|-------------------------------------|
| IP Rating |

| IP Rating | IP66 |
|-----------|------|
| IK Rating | IK10 |
| | |

Ambient Usage Tolerance -30°C to 50°C -40°C to 70°C **Ambient Storage Tolerance**

Driver automatic turn-off temperature $90^{\circ}\text{C}\,\text{Tc}$ - Driver Powers OFF to protect the LED Load

Ambient Humidity Tolerance 15% to 90% RH



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| Code (Series-Wattage/Size) | CAR3-100 | CAR3-100A | CAR3-120 | CAR3-120A | CAR3-150 | CAR3-150A | CAR3-200 | CAR3-200A |
|--|--|---|----------|-----------|----------|-----------|----------|-----------|
| Physical/Mechanical Parameter | s: | | | | | | | |
| Product Dimensions: (0xL) (mm) | 489 x 200 | 489 x 200 380 x 163 489 x 200 380 x 163 489 x 200 380 x 163 489 x 200 | | | | | | |
| Electrical Connection | | 1,500mm 3-Core Cable | | | | | | |
| Fixture Weight ² | | | | 7.2 | kg | | | |
| Fixture Primary Material(s) | | ADC12 Aluminium Alloy and 304 Stainless Steel Fixings | | | | | | |
| Fixture Finish | | Powder Coated Powder Coated | | | | | | |
| Lens(es) Materials | UV Stabilised Polycarbonate | | | | | | | |
| Dimming/Controls Parameters: | | | | | | | | |
| Dimming Options | 1-10V, DALI | | | | | | | |
| Compatible intelligent lighting systems | Wireless Controls and Monitoring | | | | | | | |
| Options/Accessories: | | | | | | | | |
| Mounting Styles | Eye Bolt | | | | | | | |
| Miscellaneous Accessories | Stainless Steel Safety Chain, IP68 In-Line Connector | | | | | | | |
| Available Product Colours | Grey | | | | | | | |
| 1 Flantical Dayons atom data in fax D1 drivers | بمئين سمطهم مممامين | . atataal | | | | | | |

¹ Electrical Parameter data is for D1 drivers, unless otherwise stated

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. 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. ©2024 Kellwood Lighting Ltd. All rights reserved.

² Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights



Technical Specifications Summary



Mounting Options

Eye-bolt - Stainless steel 304 fixture



Materials & Construction

Glass-free - Chassis is hydrophobically treated - Curved surfaces ensure rapid drying process and minimised dust build-up



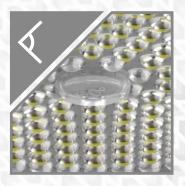
Environmental Protection

IP66 c/w corrosion-resistant powder



Impact Protection

IK10 rated



Distribution

3no. optic variants are available for general & task-specific applications



Glare Reduction

Recessed light source reduces horizontal glare, compared to flush/ visible market alternatives



Driver Protocols

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



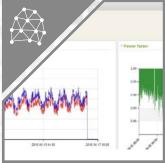
Sensor(s)

Standalone (single or multiple luminaires per sensor options)



Sensor Functions

Occupancy, multi-step dimming, photocell, daylight harvesting



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

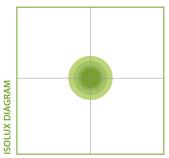


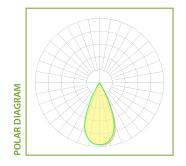


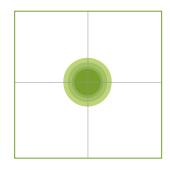
Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

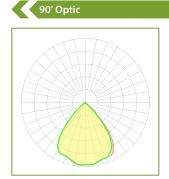
Indicative Product Photometry

50°/60° Optic

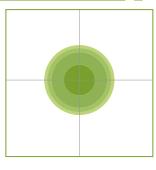


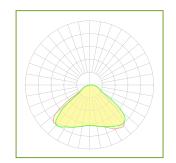






120° Optic



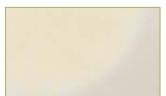


Diffusers

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 (120°) (Polycarbonate or Tempered Glass)



Frosted



Clear Optic (Various Beam Angles)

Images are illustrative of diffuser type only and not neccessarily taken from this product series

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 • | POWER - | CRI & CCT | ОРТІС | DRIVER - | COLOUF |
|-----------|---------------------|------------------------------|-----------------------------|----------------------|-------------------|
| CAR3 | 100 100W | 730 CRI >70, 3000K | 50 50° CIRCULAR | D1 NON-DIM | GR GREY |
| | 100A 100W | 740 CRI >70, 4000K | 60 60° CIRCULAR | D2 1-10V | |
| | 120 120W | 750 CRI >70, 5000K | 90 90° CIRCULAR | D3 DALI | |
| | 120A 120W | 830 CRI >80, 3000K | 120 120° CIRCULAR | | |
| | 150 150W | 840 CRI >80, 4000K | FR FROSTED DIFFUSER | | |
| | 150A 150W | 850 CRI >80, 5000K | TG TEMPERED GLASS | | GEI |
| | 200 200W | | CL CLEAR PC LENS | | 1. IF MOI |
| | 200A 200W | | | | 2. PI SEN |

| Product Ordering Code Examples: |
|---------------------------------|
| CAR3-120-750-120-D1-GR |
| CAR3-150A-850-90-D3-GR |

| DRIVER MANUFACTURER | | | | | |
|---------------------|-----------|-----------|--------------|----|-------|
| POWER | D1 | D2 | D3 | D4 | D6 |
| 100 100W | Mean Well | Mean Well | Inventronics | Us | Sosen |
| 120 120W | Mean Well | Mean Well | Inventronics | Us | Sosen |
| 150 150W | Mean Well | Mean Well | Inventronics | Us | Sosen |
| 200 200W | Mean Well | Mean Well | Inventronics | Us | Sosen |

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

| CE | NEDA | II NI | OTES |
|----|------|-------|------|
| | | | |

- IF MORE THAN ONE MODIFICATION IS REQUIRED, SEPARATE EACH ODIFICATION WITH A HYPHEN AT THE END OF THE PRODUCT CODE
- 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 |
|---|
| JB1 IP68 13A IN-LINE CONNECTOR |
| JB1-(LENGTH IN METRES) IP68 13A IN-LINE CONNECTOR WITH CABLE TO REQUESTED LENGTH |
| CAR3-CH STAINLESS STEEL M8 SAFETY CHAIN AND CARABINER - 340MM |