



- Enhanced thermal management heavy duty luminaires, ideal for application in high temperature industrial environments
- Ingress & impact resistant. Progressive, modular light-engine design featuring European long-life SMDs
- CE, RoHS, CB, ELT, & DLC international product marks
- The most competitive, high-end solution for projects worldwide



## ***Parker 3 Series***

# ***High Temp High Bays & Floodlights***

CDN:SPEC150REV12

## Technical Specifications Summary



### Performance Summary:

| Code (Series-Wattage/Size)                   | PAR3-50                             | PAR3-100 | PAR3-150 | PAR3-200 | PAR3-300 | PAR3-450 |
|--|-------------------------------------|----------|----------|----------|----------|----------|
| Nominal Power                                | 50W                                 | 100W     | 150W     | 200W     | 300W     | 450W     |
| Luminaire Efficacy @ CRI>70, 4000K/5000K CCT | 140lm/W                             | 140lm/W  | 140lm/W  | 140lm/W  | 140lm/W  | 140lm/W  |
| Lumen Output @ CRI>70, 4000K/5000K CCT       | 7,000lm                             | 14,000lm | 21,000lm | 28,000lm | 42,000lm | 63,000lm |
| Lumen Maintenance (TM21 Calculated)          | L80B10 ≥82,000 hours @ 25°C Ambient |          |          |          |          |          |
| Lumen Maintenance (TM21 Calculated)          | L80B10 ≥67,000 hours @ 70°C Ambient |          |          |          |          |          |
| Lumen Maintenance (TM21 Calculated)          | L80B10 ≥63,000 hours @ 80°C Ambient |          |          |          |          |          |
| Certification                                | CE, RoHS, CB, ELT, DLC              |          |          |          |          |          |
| Product Warranty                             | 5 Years                             |          |          |          |          |          |

### Light Source and Photometric Parameters:

|                                   |   |
|-----------------------------------|---|
| Chip Brand, Model, & Size         | Philips Lumileds 3030                     |
| Chip Efficacy @ CRI>70, 5000K CCT | 169lm/W @ 122mA, 25°C                     |
| Upper Temperature Limit of Chip   | Tj = 125°C                                |
| Light Emission                    | Direct                                    |
| CCT                               | 5000K, (3000K, 4000K, 6000K)              |
| CRI                               | ≥70Ra, (≥80Ra optional)                   |
| SDCM                              | ≤5  |
| Diffusers                         | Clear                                     |
| Symmetric Light Distribution      | 90°, 110° (Standard), 150°                |
| Asymmetric Light Distribution     | A1 (30°x100°), A2 (60°x100°), 1S, 2S, 2M, |

### Electrical Parameters:

| System Operating Power   | 50W   | 100W      | 150W      | 200W      | 300W      | 450W      |
|--|---|-----------|-----------|-----------|-----------|-----------|
| Driver Brand   | Meanwell (Inventronics DALI-dimming optional)   |           |           |           |           |           |
| Driver Model   | HLG-100   | HLG-150   | HLG-185   | HLG-240   | HLG-185   | HLG-185   |
| Typical Driver Lifetime (Case Temp.)                                     | 100,000 hours @Tc 25°C   50,000 hours @Tc 80°C  |           |           |           |           |           |
| Typical Driver Lifetime  | 100,000 hours @25°C Ambient   80,000 hours @70°C Ambient   43,000 hours @80°C Ambient |           |           |           |           |           |
| Input Voltage  | 100-277VAC  |           |           |           |           |           |
| Input Frequency  | 50-60Hz   |           |           |           |           |           |
| Qty of Drivers per Light   | 1   | 1         | 1         | 1         | 2         | 3         |
| Inrush Current Per Driver @ 230VAC measured at 50% Ipeak (Peak/Duration) | 60A/415µs   | 65A/425µs | 65A/445µs | 75A/570µs | 65A/445µs | 65A/445µs |
| Power Factor   | >0.95   |           |           |           |           |           |
| THD  | <15% (220-240VAC)   |           |           |           |           |           |
| Insulation Class   | Class I   |           |           |           |           |           |
| Surge Protection/Fusing  | 2kV line-line, 4kV line-earth   |           |           |           |           |           |

### Environmental Parameters:

|                                       |   |
|---------------------------------------|---|
| IP Rating                             | IP66  |
| IK Rating                             | IK10  |
| Ambient Usage Tolerance (D1 Driver)   | -30°C to 80°C                                       |
| Ambient Storage Tolerance (D1 Driver) | -40°C to 80°C                                       |
| Driver automatic turn-off temperature | 90°C Tc - Driver Powers OFF to protect the LED Load |
| Ambient Humidity Tolerance            | 15% to 90% RH                                       |



## Technical Specifications Summary

| Code (Series-Wattage/Size)              | PAR3-50   | PAR3-100        | PAR3-150        | PAR3-200        | PAR3-300        | PAR3-450        |
|---|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| Physical/Mechanical Parameters:         |   |                 |                 |                 |                 |                 |
| Product Dimensions: LxWxH (mm)          | 273 x 365 x 235   | 308 x 365 x 235 | 402 x 365 x 235 | 496 x 365 x 235 | 684 x 365 x 235 | 966 x 365 x 235 |
| Qty of LED Chips                        | 56  | 112             | 168             | 224             | 336             | 504             |
| Qty of Modules                          | 1   | 2               | 3               | 4               | 6               | 9               |
| Electrical Connection                   | 1000mm 3-Core Cable   |                 |                 |                 |                 |                 |
| Fixture Weight <sup>2</sup>             | 5.2kg   | 9.35kg          | 10.70kg         | 12.05kg         | 20.85kg         | 29.95kg         |
| Fixture Primary Material(s)             | Aluminium Alloy and Stainless Steel Fixings   |                 |                 |                 |                 |                 |
| Fixture Finish                          | Painted, (Corrosion Resistant Finish optional)  |                 |                 |                 |                 |                 |
| Lens(es) Materials                      | UV Stabilised Polycarbonate   |                 |                 |                 |                 |                 |
| PC Lens Melting Point                   | 200°C   |                 |                 |                 |                 |                 |
| Dimming/Controls Parameters:            |   |                 |                 |                 |                 |                 |
| Dimming Options                         | 1-10V, DALI   |                 |                 |                 |                 |                 |
| Compatible intelligent lighting systems | Wireless Controls and Monitoring  |                 |                 |                 |                 |                 |
| Options/Accessories:                    |   |                 |                 |                 |                 |                 |
| Mounting Styles                         | Universal Bracket (optional 180° rotation), Slip Fit, Twin Surface Mount Brackets, Eye Bolt, Twin Eye Bolts, Wall Mount |                 |                 |                 |                 |                 |
| Miscellaneous Accessories               | Wire Grill, IP68 13A In-Line Connector  |                 |                 |                 |                 |                 |
| Available Product Colours               | Black (RAL 9011), Grey (RAL 7045)   |                 |                 |                 |                 |                 |

<sup>1</sup> Electrical Parameter data is for D1 drivers, unless otherwise stated<sup>2</sup> 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



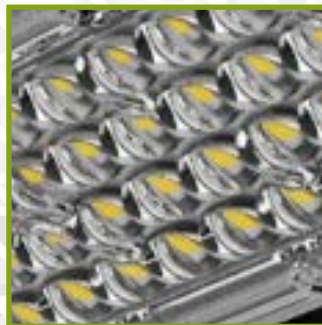
### Mounting Options

Universal bracket, universal bracket with 180° rotation, slip fit, twin surface mount brackets, eye bolt, twin eye bolts and wall mount available



### Fitting Colouration

Black, Silver, & custom fitting colouration - Custom colouration available subject to MOQ



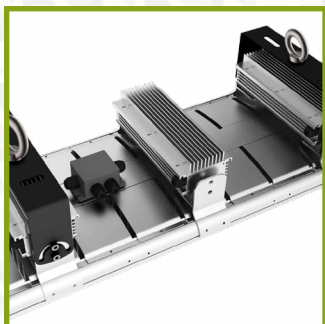
### Flexible Optics

Racking-specific, open-area, street lighting & floodlight dispersion patterns available



### IP68 Barrel Connector

Temperature-resistant, 13A, TUV-rated, ingress-resistant connector with optional length of three core flex



### Up-rated Thermal Management

Driver electronics are thermally protected by dedicated aluminium heat sinks



### Stainless Steel Components

Exposed metal fixtures are fabricated from 304 stainless steel



### WAGO Connectors

Internal connections use premium WAGO connectors for reliability



### Safety Wire & Carabiner

Additional safety-feature



### DALI / 1-10V

Intelligent operation compatibility - dimming, photocells, occupancy...



### Complimentary Series

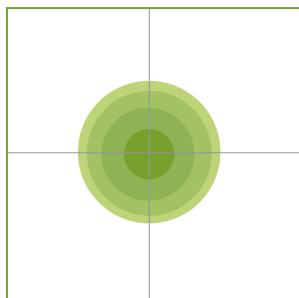
Parker series complements Kellwood's Forsyth series. Similar control & emergency upgrades are available - subject to thermal tolerance considerations. Please contact the office for further details

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.

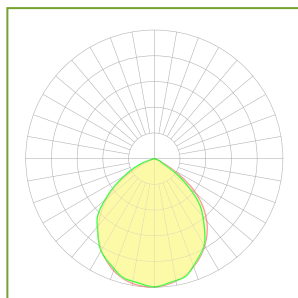
## Indicative Product Photometry

90° Optic

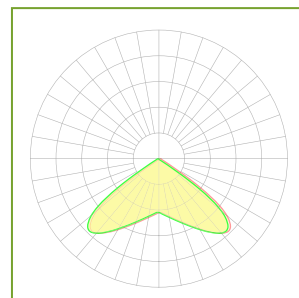
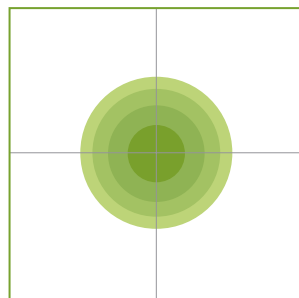
ISOLUX DIAGRAM



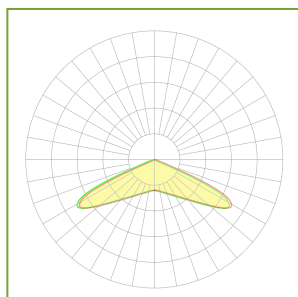
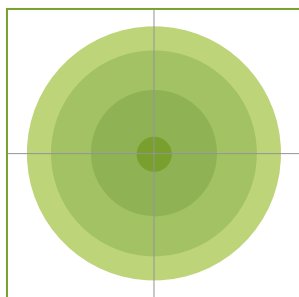
POLAR DIAGRAM



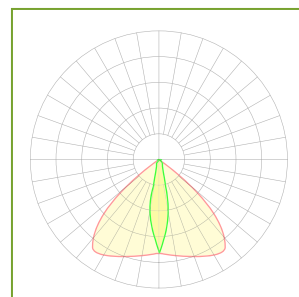
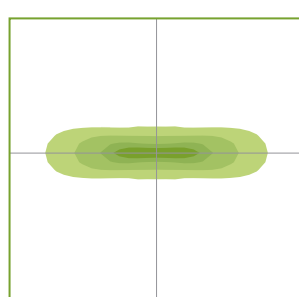
110° Optic



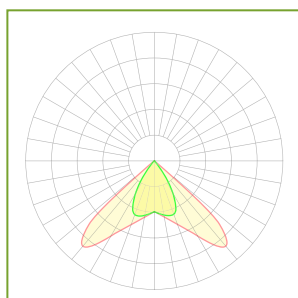
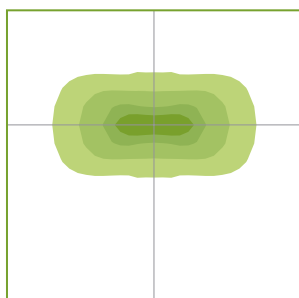
150° Optic



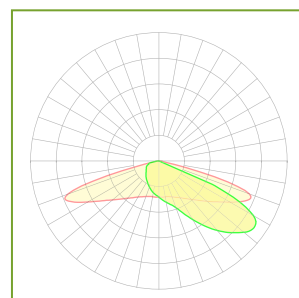
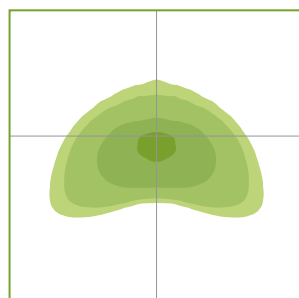
A1 Optic



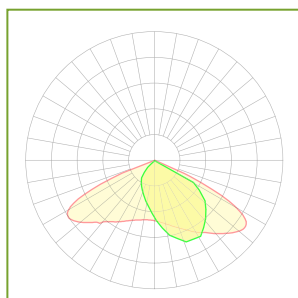
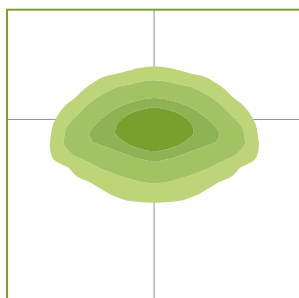
A2 Optic



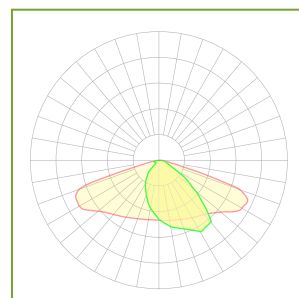
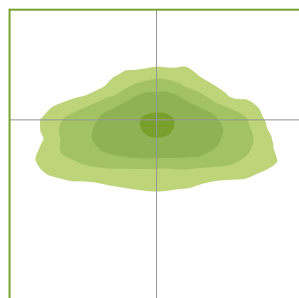
IESNA Type 1S



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  |
|---------|-------------|-----------------------|---------------------------|---------------|---|---|--|
| PAR3    | 50<br>50W   | 730<br>CRI >70, 3000K | 90<br>90° CIRCULAR        | D1<br>NON-DIM | UB <sup>2</sup><br>UNIVERSAL BRACKET    | GR<br>GREY (RAL 7045)                                     | WG<br>WIRE GRILL                                     |
|         | 100<br>100W | 740<br>CRI >70, 4000K | 110<br>110° CIRCULAR      | D2<br>1-10V   | UE<br>UNIVERSAL BRACKET (180° ROTATION) | BL <sup>1</sup><br>BLACK (RAL 9011)                       | T1 <sup>3</sup><br>TERMINAL BOX                      |
|         | 150<br>150W | 750<br>CRI >70, 5000K | 150<br>150° CIRCULAR      | D3<br>DALI    | SF<br>SLIP FIT                          | GR2<br>GREY - CORROSION<br>RESISTANT FINISH               | T1B <sup>3</sup><br>TERMINAL BOX<br>WIRE-IN-WIRE-OUT |
|         | 200<br>200W | 760<br>CRI >70, 6000K | 1S<br>IESNA TYPE 1S       |               | TM<br>TWIN SURFACE MOUNT BRACKETS       | BL2 <sup>1</sup><br>BLACK - CORROSION<br>RESISTANT FINISH |  |
|         | 300<br>300W | 840<br>CRI >80, 4000K | 2S<br>IESNA TYPE 2S       |               | EB<br>EYE BOLT                          |   |  |
|         | 450<br>450W | 850<br>CRI >80, 5000K | 2M<br>IESNA TYPE 2M       |               | TE<br>TWIN EYE BOLTS                    |   |  |
|         |             | 860<br>CRI >80, 6000K | A1<br>30X100° RECTANGULAR |               | WM<br>WALL MOUNT                        |   |  |
|         |             |                       | A2<br>60X100° RECTANGULAR |               |   |   |  |

<sup>1</sup> MOQ 100 pieces - end caps and bracket only

<sup>2</sup> Universal Bracket (mounting code "UB") has restricted rotations when mounted on a solid surface: 100W = ±60°, 150W = ±45°, and 200W = ±20°. 300W, and 450W not available with UB mount. Specify the Extended Universal Bracket (mounting code "UE") to allow for unrestricted rotation, e.g. wall mounting while facing directly at the ground.

<sup>3</sup> Rear terminal box supplied with WAGO 222 Series electrical connectors and M20 inlet Gland. Compatible with 200W, 300W and 450W versions

## NOTES:

- IF PRODUCT IS CUSTOMISED, CODES WILL BE ALTERED TO REFLECT CUSTOMISATION.
- IF MORE THAN ONE CONFIGURABLE OPTION IS REQUIRED, SEPARATE OPTIONS WITH HYPHENS.
- PLEASE ENSURE SELECTION OF COMPATIBLE DRIVER FOR OCCUPANCY SENSORS WITH DIMMING FUNCTIONALITY.
- PLEASE NOTE THAT CONFIGURABLE OPTIONS WHICH AFFECT LIGHT OUTPUT WILL BE IDENTIFIED IN PHOTOMETRIC FILES AS "+ (CONFIGURABLE OPTION)".

## Product Ordering Code Examples:

PAR3-150-750-90-D1-UE

PAR3-100-860-110-D2-TM-CR-WG

| DRIVER MANUFACTURER |           |           |              |
|---------------------|-----------|-----------|--------------|
| POWER               | D1        | D2        | D3           |
| 50<br>50W           | Mean Well | Mean Well | Inventronics |
| 100<br>100W         | Mean Well | Mean Well | Inventronics |
| 150<br>150W         | Mean Well | Mean Well | Inventronics |
| 200<br>200W         | Mean Well | Mean Well | Inventronics |
| 300<br>300W         | Mean Well | Mean Well | Inventronics |
| 450<br>450W         | Mean Well | Mean Well | Inventronics |

CONTACT OUR OFFICE FOR FURTHER INFORMATION ON DRIVER PARAMETERS

## ACCESSORIES

|   |
|---|
| JB1<br>IP68 13A IN-LINE CONNECTOR   |
| JB1-(LENGTH IN METRES)<br>IP68 13A IN-LINE CONNECTOR WITH CABLE TO REQUESTED LENGTH |