

**KINGSTON 70W & 120W LED low bay, IP20, 5000K,  
1-10V Dimmable or Integral MW Sensor with 3-step dimming**

This superb fitting ticks all the boxes having great aesthetics, two wattages with either 1-10v driver for daylight harvest energy saving or integral sensor with 3 step dimming (corridor function) options. This functionality together with efficacies of over 120lm/cctW lowers the energy consumption of the installation, making a huge contribution to reducing the carbon footprint of the building



**Application Areas:**

- Low/medium height rack storage
- Factory manufacturing and assembly
- Industrial units
- Shopping arcades/centres
- Bus, coach and car repair garages
- Workshops
- Exhibition halls
- Gymnasiums

**Construction:**

White (RAL9016) powder coated steel body  
Polycarbonate Lens and end caps  
Aluminium reflector  
Aluminium composite PCB

**Features:**

- Two power options available utilising PHILIPS 5,000K high quality IES LM80 tested SMD LED's and IES TM21 extrapolation
- Available with:
  - 1-10VDC driver as standard
  - OR for 120W version
  - 1-10VDC driver + Integral 800W LED rated microwave sensor with 3-step dimming (corridor function) providing:
    - Lux switching point (how dark before switching on)
    - Sensitivity (adjustable detection zone)
    - Hold time delay (time after no detection to go to standby)
    - Standby light output % and time delay before off
- Emergency versions available via conversions department
- Quality construction materials
- Tested to IK08
- Dual row LED design
- Standard clear lens provides 110° beam angle with optional lenses for 90° or 60° light distribution
- Option of 110° opal lens
- Grommeted access cover to termination area with large terminals
- Space available for additional terminals
- Surface and suspension mounting kits included
- Wide ambient operating temperature range

**Benefits:**

- Comparable output to T8 or T16 with energy savings of ≈ 40%
- Has high efficacies of >120lm/cctW, long Rated LED Life, low lumen depreciation and low colour temperature shift for a consistent lighting solution over its extended lifetime
- Can be used with Robus externally mounted sensors for presence detection and daylight harvesting, or for retrofit where analogue sensors are already installed
- No external wiring other than mains supply required to provide a simple, cost effective functional solution for energy saving when the area is vacated
- With a couple of terminals added in the termination area, additional non-sensor fittings can be switched by the sensor fitting up to the sensor max load capacity
- Complete rows of fittings can be switched using the sensors "SYNC" function
- Integral emergency reduces install cost associated with dedicated emergency fittings
- Modern design provides great aesthetics
- Robust with a feel of quality for long life
- Reduces point source of light for greater eye comfort
- Provides efficient light distribution and uniformity
- Provides wide beam coverage at lower mounting heights with options for higher mounting and narrow beam distribution
- Anti-glare option
- Allows easy termination for 1.5mm<sup>2</sup> loop in/out conductors
- Sheathing is protected from chaffing
- Provision to loop sensor switched live and control conductors
- Allows dual mounting solutions suitable for most installations
- Ideal for areas with no heating or cooling where extremes of temperature may be experienced during summer/winter times

## COMMERCIAL

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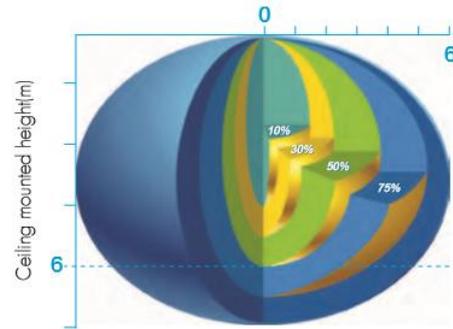
# ROBUS®

| Product Codes:                         | 1-10V dimmable<br>MW Sensor - 3 step dimming<br>Emergency | RKN7050DA-01<br>N/A<br>RKN7050DA-01E | RKN12050DA-01<br>RKN12050DP-01<br>RKN12050DA-01E |
|--|---|--------------------------------------|--|
| Comparable to:                         |   | 4x36W T8                             | 4x49W T16  |
| Total Power (W):                       |   | 71.9                                 | 122.9  |
| Total Light Output (lm):               |   | 9,240                                | 14,870   |
| Emergency Mode Light Output (lm):      |   | 630                                  | 630  |
| Efficacy (lm / cctW):                  |   | 129                                  | 121  |
| Rated Life (hrs):                      |   | 50,000                               | 50,000   |
| Warranty (yrs):                        |   | 5                                    | 5  |
| Illuminance at 1m (lux):               |   | 4,110                                | 6,620  |
| Emergency Mode illuminance at 1m (lx): |   | 280                                  | 280  |
| Beam Angle (deg):                      |   | 110                                  | 110  |
| CCT (K):                               |   | 5,000                                | 5,000  |
| CRI (Ra):                              |   | 80                                   | 80   |
| Ingress Protection (IP):               |   | 20                                   | 20   |
| Impact Rating (IK):                    |   | 08                                   | 08   |
| Operating Temperature (°C):            |   | -20 ≥ +40                            | -20 ≥ +40  |
| Operating Voltage (Vac):               |   | 100-240                              | 100-240  |
| Power Factor (PF):                     |   | 0.95                                 | 0.95   |
| Height (mm):                           |   | 47                                   | 47   |
| Length (mm):                           |   | 1,207                                | 1,207  |
| Width (mm):                            |   | 208                                  | 208  |
| Box Qty:                               |   | 1                                    | 1  |
| Weight (kg):                           |   | 4.39                                 | 4.7  |

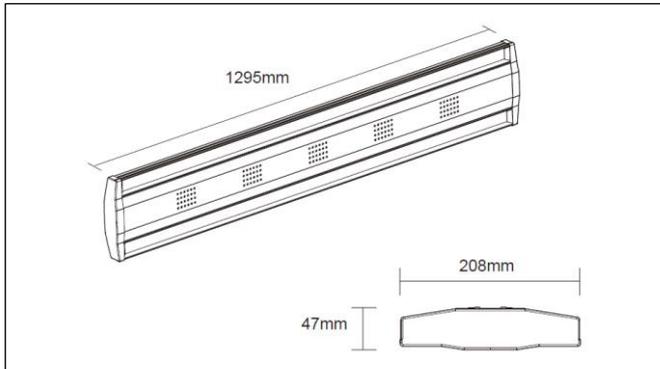
MW Sensor version data: RKN12050DP-01

|                             |             |
|-----------------------------|-------------|
| Max mounting height (m):    | 6           |
| Detection zone (Ø x H) (m): | 12 x 6      |
| Sensitivity (%):            | 10 to 100   |
| Hold time:                  | 5s to 30min |
| Standby light level (%):    | 10 to 50    |

### Detection Pattern



Ceiling mounted detection pattern (m)



### Accessories:

|                    |  |
|--------------------|--|
| <b>RKNL60</b>      | 60° lens accessory for 70W and 120W        |
| <b>RKNL90</b>      | 90° lens accessory for 70W and 120W        |
| <b>RKN0PL</b>      | Opal lens accessory for 70W and 120W       |
| <b>RDLHRV-</b>     | Daylight Harvest Sensor, 1-10V dimming     |
| <b>RRD360MW-01</b> | Radar 360deg MW Sensor with 3 step dimming |

### Standards & Approvals:

Complies with: EN 60598-1, EN 60598-2-1, EN 62471, EN 62493, EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547

### Cone Illuminance Diagram:

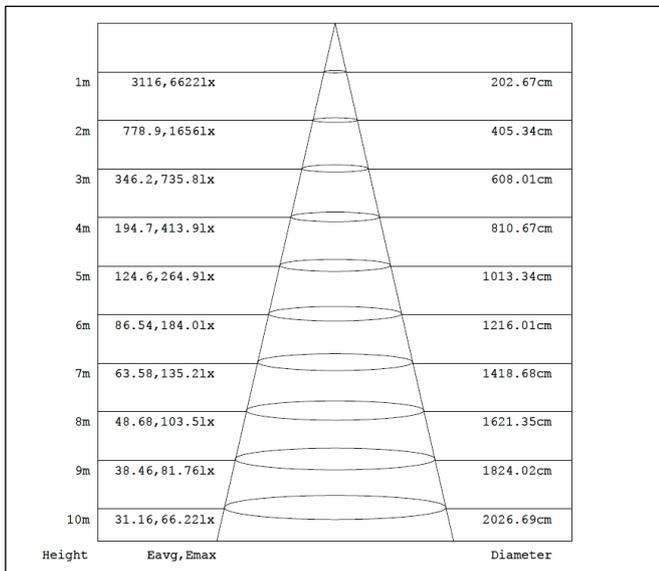


Diagram for RKN12050DA-01 in 5,000K. Other diagrams available on request



### Polar Intensity Diagram:

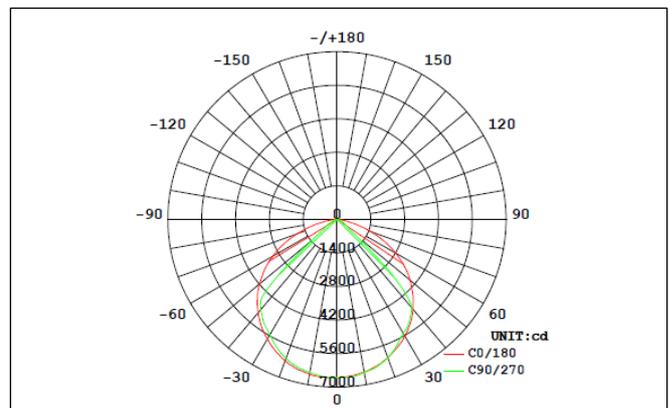


Diagram for RKN12050DA-01 in 5,000K. Other diagrams available on request