<table>
<thead>
<tr>
<th>Features</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Power</strong></td>
<td>Light feature with 15 Watts (+/- 1 Watts)</td>
</tr>
<tr>
<td><strong>Modular Design</strong></td>
<td>Designed to stand harsh weather conditions</td>
</tr>
<tr>
<td></td>
<td>-30ºC to +55ºC Operating Temp, -20°C to +55°C Storage Temp</td>
</tr>
<tr>
<td><strong>Optical Design</strong></td>
<td>Optical design with multichip SMD LED in each unit</td>
</tr>
<tr>
<td></td>
<td>surface-mount LED that reduces the size of the light while at the same time adding more colors to a</td>
</tr>
<tr>
<td></td>
<td>single LED</td>
</tr>
<tr>
<td><strong>Heat Dissipation</strong></td>
<td>Light feature built in with heat dissipation, aluminum radiator at the case of the modular</td>
</tr>
<tr>
<td><strong>Case Material</strong></td>
<td>Rigid structure made of anti-corrosion die-cast aluminum, electrostatic spraying. Polyester powder</td>
</tr>
<tr>
<td></td>
<td>coated. painting after chemical washing treatment and a toughened glass to prevent upward light PC</td>
</tr>
<tr>
<td></td>
<td>diffuser. The lamp housing will be protected by a shield to prevent direct sun contact. The body</td>
</tr>
<tr>
<td></td>
<td>cover is provided with a screw to ensure easy manual opening for maintenance and replacement of</td>
</tr>
<tr>
<td></td>
<td>LED modules and other electronic components.</td>
</tr>
<tr>
<td><strong>Case color options</strong></td>
<td>Grey RAL 7022, White, Black</td>
</tr>
<tr>
<td><strong>Typical Application</strong></td>
<td>Outdoor street lighting</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>The lamp body shall be delivered with supporting adjustable/gradient arm to connect to pole and/or</td>
</tr>
<tr>
<td></td>
<td>angle arm (diameter 2 inch) with mast spigot of MINIMUM 60mm diameter</td>
</tr>
<tr>
<td><strong>Required Certificates</strong></td>
<td></td>
</tr>
<tr>
<td>From independent</td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IEC 60598-2-3</td>
</tr>
<tr>
<td></td>
<td>IEC 60598-1</td>
</tr>
<tr>
<td></td>
<td>LVD (low voltage directives)</td>
</tr>
<tr>
<td></td>
<td>LMB for LED chip from the chip manufacturer</td>
</tr>
<tr>
<td></td>
<td>Certification for LED driver</td>
</tr>
<tr>
<td></td>
<td>CeCE, UL, SAA, Jordan Standards Department</td>
</tr>
<tr>
<td></td>
<td>Certification for complete lighting unit</td>
</tr>
<tr>
<td></td>
<td>CE, or CB or TUV or RoHS for complete lighting unit</td>
</tr>
<tr>
<td><strong>Input Voltage</strong></td>
<td>40 - 305 V AC</td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
<td>47 - 63 Hz</td>
</tr>
<tr>
<td><strong>Driver</strong></td>
<td>Certified driver with no inrush current.</td>
</tr>
<tr>
<td></td>
<td>Driver compartment can be opened for maintenance and it’s equipped with 1 or 2 LED Driver (DALI 2.0)</td>
</tr>
<tr>
<td></td>
<td>, Surge protection (SPD) of 10 kV, with standardized receptacle interface on the lighting fixture and</td>
</tr>
<tr>
<td></td>
<td>the base and dome components which combine to house a control module within Socket and PIR/RADAR</td>
</tr>
<tr>
<td></td>
<td>sensors.</td>
</tr>
<tr>
<td></td>
<td>• Dim by timer, light levels, site-mode or automatic-mode</td>
</tr>
<tr>
<td></td>
<td>• Power save mode with night dimming functionality</td>
</tr>
<tr>
<td></td>
<td>• Automatic regulation of daylight and standard saving time</td>
</tr>
<tr>
<td></td>
<td>• Individual adjustment of the illumination through continuous dimming</td>
</tr>
<tr>
<td></td>
<td>• Real-time profiles with time and weekday dependent dim levels</td>
</tr>
<tr>
<td></td>
<td>• Combines the benefits of both the central and independent controlled lights</td>
</tr>
<tr>
<td></td>
<td>• 2.4 GHz radio network with self-organized meshing</td>
</tr>
<tr>
<td></td>
<td>• Dimming interface DALI and DALI 2.0, supports various industry standard LED drivers</td>
</tr>
<tr>
<td></td>
<td>• Can be operated by 12 - 24V DC</td>
</tr>
<tr>
<td></td>
<td>• Low power consumption in operation</td>
</tr>
<tr>
<td></td>
<td>• Information about the luminaire status for proactive maintenance and early failure detection</td>
</tr>
<tr>
<td></td>
<td>• Active monitoring of the light source (LED) temperature</td>
</tr>
<tr>
<td><strong>Nominal Initial Flux</strong></td>
<td>MINIMUM 800 lm</td>
</tr>
<tr>
<td><strong>Color Temperature</strong></td>
<td>Standard: 4,000 - 6,000 K</td>
</tr>
<tr>
<td><strong>Delivered Lumen at</strong></td>
<td></td>
</tr>
<tr>
<td>4000K</td>
<td>&gt; 110 lm/W</td>
</tr>
<tr>
<td><strong>CRI</strong></td>
<td>MINIMUM, 75, Optional: 80,90</td>
</tr>
<tr>
<td><strong>PFC</strong></td>
<td>&gt;0.9</td>
</tr>
<tr>
<td><strong>THD</strong></td>
<td>&lt;20%</td>
</tr>
<tr>
<td><strong>Protection</strong></td>
<td>IP66</td>
</tr>
<tr>
<td><strong>IK rating</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>30ºC to +55ºC</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>20ºC to +55ºC</td>
</tr>
<tr>
<td><strong>Working Humidity</strong></td>
<td>10% - 90% RH</td>
</tr>
<tr>
<td><strong>Surge Protection</strong></td>
<td>10 Kv</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>100,000 hrs. (or 5 years warranty, whichever comes first)</td>
</tr>
<tr>
<td></td>
<td>Lifespan: L80 Minimum 100,000 hours</td>
</tr>
<tr>
<td><strong>Delivery time</strong></td>
<td>Goods to be delivered on site within maximum 60 days upon purchase order's issuance</td>
</tr>
</tbody>
</table>
### System Power
- Light feature with 30 Watts (+/- 2 Watts)

### Modular Design
- Designed to stand harsh weather conditions
- Operating Temp: -30ºC to +55ºC
- Storage Temp: -20°C to +55°C

### Optical Design
- Optical design with multi-chip SMD LED in each unit
- Surface-mount LED that reduces the size of the light while at the same time adding more colors to a single LED
- Low glare, UGR <18

### Heat Dissipation
- Light feature built in with heat dissipation, alluminim radiator at the case of the modular

### Case Material
- Rigid structure made of anti-corrosion die-cast aluminum, electrostatic spraying, polyester powder coated
- Painted after chemical washing treatment and a toughened glass to prevent upward light PC diffuser
- The lamp housing shall be protected by a shield to prevent direct sun contact

### Case color options
- Grey RAL 7022, White or Black

### Typical Application
- Outdoor street lighting

### Mounting
- The lamp body shall be delivered with supporting adjustable/gradient arm to connect to pole and/or angle arm (diameter 2 inch) with mast spigot of MINIMUM 60mm diameter

### Required Certificates
- From independent Laboratory
- CE, UL, SAA, Jordan Standards Department

### Input Voltage
- 90-305 V AC

### Frequency
- 47-63 Hz

### Driver
- Certified driver with no inrush current
- Driver compartment can be opened for maintenance and it’s equipped with 1 or 2 LED Driver (DALI 2.0), Surge protection (SPD) of 10 kV, with standardized receptacle interface on the lighting fixture and the base and dome components which combine to house a control module within Socket and PIR/RADAR sensors
- Dim by timer, light levels, site-mode or automatic-mode
- Power save mode with right dimming functionality
- Automatic regulation of daylight and standard saving time
- Individual adjustment of the illumination through continuous dimming
- Real-time profiles with time and weekday dependent dim levels
- Combines the benefits of both the central and independent controlled lights
- Dimming interface DALI and DALI 2.0, supports various industry standard LED drivers
- Can be operated by 12 - 24V DC
- Low power consumption in operation
- Information about the luminaire status for proactive maintenance and early failure detection
- Active monitoring of the light source (LED) temperature

### Nominal Initial Flux (lm)
- Minimum 2500 lm

### Color Temperature
- Standard: 4.000 - 6.000 K

### Delivered Lumen at 4000K
- > 110 lm/W

### CRI
- Minimum, 75, Optional: 80.90

### PFC
- >0.9

### THD
- <20%

### Protection
- IP66

### IK rating
- 9

### Operating temperature
- 30ºC to +55ºC

### Storage Temperature
- 20ºC to +55ºC

### Working Humidity
- 10% - 90% RH

### Surge Protection
- 10 kV

### Warranty
- 100,000 hrs. (or 5 years warranty, whichever comes first)
- Lifespan: 1.80 Minimum of 100,000 hours

### Delivery time
- Goods to be delivered on site within maximum 60 days after receipt of the purchase order
### System Power
- Light feature with 70 Watts (+/- 2 Watts)

### Modular Design
- Designed to stand harsh weather conditions
- Operating Temp: -30ºC to +55ºC
- Storage Temp: -20°C to +55°C

### Optical Design
- Optical design with multichip SMD LED in each unit
- Surface-mount LED that reduces the size of the light while at the same time adding more colors to a single LED
- CRI: ≥80

### Heat Dissipation
- Light feature built in with heat dissipation, aluminum radiator at the case of the modular

### Case Material
- Rigid structure made of anti-corrosion die-cast aluminum, electrostatic spraying, Polyester powder coated. Painted after chemical washing treatment and a toughened glass to prevent upward light PC diffuser. The lamp housing shall be protected by a shield to prevent direct sun contact. The body cover shall be provided with a screw to ensure easy manual opening for maintenance and replacement of LED modules and other electronic components.

### Case Color Options
- Grey RAL 7022, White and Black

### Typical Application
- Outdoor street lighting

### Mounting
- The lamp body will be delivered with supporting adjustable/gradient arm to connect to pole and/or angle arm (diameter 2 inch) with mast spigot of mini 60mm diameter.

### Required Certificates from Independent Laboratory
- IEC 60598-2-13
- LM80 for Led chip from the chip manufacturer
- Certification for LED driver:
  - CE, UL, SAA, Jordan Standards Department
- Certification for complete lighting unit:
  - CE, or CB or TUV or RoHS for complete lighting unit

### Input Voltage
- 90-305 V AC

### Frequency
- 47-63 Hz

### Driver
- Certified driver with no inrush current.
- Driver compartment can be opened for maintenance and it's equipped with 1 or 2 LED Driver (DALI 2.0), Surge protection (SPD) of 10 kV, with standardized receptacle interface on the lighting fixture and the base and dome components which combine to house a control module within Socket and PIR/RADAR sensors.
  - Dim by timer, light levels, site-mode or automatic-mode
  - Power save mode with night dimming functionality
  - Automatic regulation of daylight and standard saving time
  - Individual adjustment of the illumination through continuous dimming
  - Real-time profiles with time and weekday dependent dim levels
  - Combines the benefits of both the central and independent controlled lights
  - 2.4GHz radio network with self-organized meshing
  - Dimming interface DALI and DALI 2.0, supports various industry standard LED drivers
  - Can be operated by 12 - 24V DC
  - Low power consumption in operation
  - Information about the luminaire status for proactive maintenance and early failure detection
  - Active monitoring of the light source (LED) temperature

### Nominal Initial Flux (lm)
- Minimum 6500 lm

### Color Temperature
- Standard: 4,000 - 6,000 K
- Delivered Lumen at 4000K > 110 lm/W

### CRI
- Minimum, 75, Optional:80,90

### PFC
- >0.9

### THD
- <20%

### Protection
- IP66

### IK Rating
- 6

### Operating Temperature
- 30ºC to +55ºC

### Storage Temperature
- 20ºC to +55ºC

### Working Humidity
- 10% - 90% RH

### Surge Protection
- 10 kV

### Warranty
- 100,000 hrs. (or 5 years warranty, whichever comes first)
- Lifespan: L80 Minimum of 100,000 hours

### Delivery Time
- Goods to be delivered on site within maximum 60 days after receipt of the purchase order
<table>
<thead>
<tr>
<th><strong>System Power</strong></th>
<th>Light feature with 90 Watts (+/- 3 Watts)</th>
</tr>
</thead>
</table>
| **Modular Design** | Designed to stand harsh weather conditions  
  30ºC to +55ºC Operating Temp.  
  20ºC to +55ºC Storage Temp |
| **Optical Design** | Optical design with multichip SMD LED in each unit  
  surface-mount LED that reduces the size of the light while at the same time adding more colors to a single LED |
| **Heat Dissipation** | Light feature built in with heat dissipation, aluminium radiator at the case of the modular |
| **Case Material** | Rigid structure made of anti-corrosion die-cast aluminum, electrostatic spraying. Polyester powder coated, painting after chemical washing treatment and a toughened glass to prevent upward light PC diffuser. The lamp housing will be protected by a shield to prevent direct sun contact.  
The body cover is provided with a screw to ensure easy manual opening for maintenance and replacement of LED modules and other electronic |
| **Case color options** | Grey RAL 7022, White or Black |
| **Typical Application** | Outdoor street lighting |
| **Mounting** | The lamp body will be delivered with supporting adjustable/gradient arm to connect to pole and/or angle arm (diameter 2 inch) with mast spigot of mini 60mm diameter |
| **Required Certificates** | From independent Laboratory |
| **Driver** | Certified driver with no inrush current.  
  Driver compartment can be opened for maintenance and it's equipped with 1 or 2 LED Driver (DALI 2.0), Surge protection (SPD) of 10 kV, with standardized receptacles interface on the lighting fixture and the base and dome components which combine to house a control module within Socket and PIR/RADAR sensors.  
  • Dim by timer, light levels, site-mode or automatic-mode  
  • Power save mode with right dimming functionality  
  • Automatic regulation of daylight and standard saving time  
  • Individual adjustment of the illumination through continuous dimming  
  • Real-time profiles with time and weekday dependent dim levels  
  • Combines the benefits of both the central and independent controlled lights  
  • 2.4GHz radio network with self-organized meshing  
  • Dimming interface DALI and DALI 2.0, supports various industry standard LED drivers  
  • Can be operated by 12 - 24V DC  
  • Low power consumption in operation  
  • Information about the luminaire status for proactive maintenance and early failure detection  
  • Active monitoring of the light source (LED) temperature |
| **Nominal Initial Flux (lm)** | Minimum 5400 lm |
| **Input Voltage** | 90-305 V AC |
| **Frequency** | 47-63 Hz |
| **Color Temperature** | Standard: 4.000 - 6.000 K |
| **Delivered Lumen at 4000K** | > 110 lm/W |
| **CRI** | Minimum, 75, Optional:80,90 |
| **PFC** | >0.9 |
| **THD** | <20% |
| **Protection** | IP66 |
| **IK rating** | 0 |
| **Operating temperature** | 30ºC to +55ºC |
| **Storage Temperature** | 20ºC to +55ºC |
| **Working Humidity** | 10% - 90% RH |
| **Surge Protection** | 10 kV |
| **Warranty** | 100,000 hrs. (or 5 years warranty, whichever comes first)  
  Lifespan: L80 Minimum of 100,000 hours |
| **Delivery time** | Goods to be delivered on site within maximum 60 days after receipt of the purchase order |
System Power
- Light feature with 110 Watts (+/- 5 Watts)

Modular Design
- Designed to stand harsh weather conditions
- -30ºC to +55ºC Operating Temp, -20°C to +55°C Storage Temp

Optical Design
- Optical design with multi-chip SMD LED in each unit
- Surface-mount LED that reduces the size of the light while at the same time adding more colors to a single LED
- Low glare, UGR <18

Heat Dissipation
- Light feature built in with heat dissipation, aluminum radiator at the case of the modular

Case Material
- Rigid structure made of anti-corrosion die-cast aluminum, electrostatic spraying, polyester powder coated, painting after chemical washing treatment and a toughened glass to prevent upward light PC diffuser. The lamp housing will be protected by a shield to prevent direct sun contact.

Case color options
- Grey RAL 7022, White or Black

Typical Application
- Outdoor street lighting

Mounting
- The lamp body will be delivered with supporting adjustable/gradient arm to connect to pole and/or angle arm (diameter 2 inch) with mast spigot of mini 60mm diameter

Required Certificates from independent Laboratory
- IEC 60598-2-13
- LM80 for LED chip from the chip manufacturer

Driver
- Certified driver with no inrush current.
- Driver compartment can be opened for maintenance and it’s equipped with 1 or 2 LED Driver (DALI 2.0), Surge protection (SPD) of 10 kV, with standardized receptacle interface on the lighting fixture and the base and dome components which combine to house a control module within Socket and PIR/RADAR sensors.
  - Dim by timer, light levels, site-mode or automatic-mode
  - Power save mode with right dimming functionality
  - Automatic regulation of daylight and standard saving time
  - Individual adjustment of the illumination through continuous dimming
  - Real-time profiles with time and weekday dependent dim levels
  - Combines the benefits of both the central and independent controlled lights
  - 2.4GHz radio network with self-organized meshing
  - Dimming interface DALI and DALI 2.0, supports various industry standard LED drivers
  - Can be operated by 12 - 24V DC
  - Low power consumption in operation
  - Information about the luminare status for proactive maintenance and early failure detection
  - Active monitoring of the light source (LED) temperature

Nominal Initial Flux (lm)
- Mini 9000 lm

Color Temperature
- Standard: 4.000 - 6.000 K

Delivered Lumen at 4000K
- > 110 lm/W

CRI
- Minimum, 75; Optional: 80, 90

PFC
- >0.9

THD
- <20%

Protection
- IP65

IK rating
- 9

Operating temperature
- 30ºC to +55ºC

Storage Temperature
- 20ºC to +55ºC

Working Humidity
- 10% - 90% RH

Surge Protection
- 10 kV

Warranty
- 100,000 hrs. (or 5 years warranty, whichever comes first)
  - Life span: L80 Minimum of 100,000 hours

Delivery time
- Goods to be delivered on site within maximum 60 days after receipt of the purchase order