



Juniper S

RECESSED DOWNLIGHTS AND SPOTLIGHTS | ECO-DALI EM SERIES

Square recessed luminaire with 3 different dimensions suitable for replacing any type of conventional lamp. Easy to install thanks to an optimized mechanical and electrical design. Provides high illuminance levels and high uniformity on the working plane. The perfect combination of efficiency, light comfort and design, without compromising on lighting performance.

Juniper S recessed luminaires come in several series, with various add-on and controls:

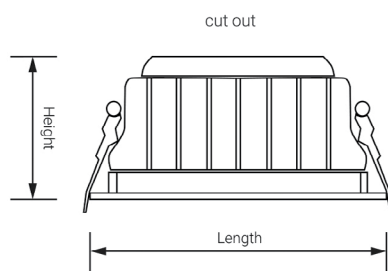
- Juniper S TEC – the standard for a large number of spaces – offices, showrooms, restaurants
- Juniper S TEC EM – with emergency lighting kit
- Juniper S ECO-DALI – with DALI controls for illumination adjustments
- Juniper S ECO-DALI EM - with both dimming and emergency kit

APPLICATION

Grocery & Supermarkets | Office | Healthcare | Hospitality | DIY

FEATURES & BENEFITS

- CRI \geq 80 standard
- IP40 when encased in closed ceilings
- Very long service life: 50,000 h at 90% luminous flux
- High efficiency of 120 lm/watt
- Lens angle of 75°
- Very low UGR starting with factor 17
- Comes in three diameters, suitable for any replacement of traditional lamps
- With emergency kits of 1h and 3 h
- Dimmable



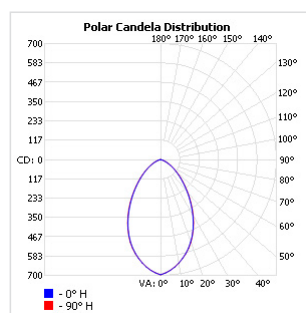
SPECIFICATIONS

| | | | |
|--------------------------------|---------------------------|-----------------|-----------------|
| Power consumption | 9W | 9W | 9W, 17W |
| Dimensions | 140x140xH57±1mm | 180x180xH67±1mm | 220x220xH67±1mm |
| Weight | 1.4Kg | 1.6Kg | 1.8Kg |
| Housing materials | Aluminium, Glass | | |
| IK code | IK02 | | |
| THD (at 230V, 50Hz, Full load) | <10% | | |
| Protection class | Safety class 1 | | |
| Operating temperature [°C] | +5C...+40C/+41F...+ 104F | | |
| Operating humidity [%] | 10 ÷ 85 | | |
| Power factor | ≥0.95 | | |
| AC Input [Vac] | 220 - 240 VAC | | |
| Lens angle [°] | 75° | | |
| Lifespan [h] | 50,000 | | |
| Housing color | ○ RAL 9003 - signal white | | |
| Lumen maintenance | L90/B10@50.000h at 25°C | | |
| IP factor (front face) | IP40 | | |
| Control option | ECO-DALI | | |
| Warranty [years] | 5 | | |
| Storage temperature range [°C] | +5...+25C / +41F ... +77F | | |
| Emergency option | EM1H, EM3H | | |

| | |
|-------------------|-------------------------|
| Light application | Standard |
| CRI | CRI 80 |
| CCT [K] | 3000K/4000K/5000K/6500K |
| MacAdam | 4 |

CRI - Color rendering, CCT - Color temperature, MacAdam - Color consistency

LIGHT DISTRIBUTION



A75

RISK GROUP

RG1

The evaluation of photobiological safety is carried out according to the standard IEC 62471:2008 (“Photobiological safety of lamps and lamp systems”). Following the definition of the risk grouping system of the mentioned IEC standard, the LEDs mounted on this family fall into the class “Low Risk (RG1 – No photobiological hazard under normal behavioral limitations)”. Under real circumstances (regarding exposure time, pupils, observation distance), it is assumed that there is no endangerment to the eye from these devices. As a matter of principle, however, it should be mentioned that intense light sources have a high secondary exposure potential due to their blinding effect.

TOLERANCES

Luminous flux tolerances: -/+ 5%

Consumption tolerance: -/+ 5% for TEC | -/+ 10% for TEC & KIT EM | -/+ 10% for ECO-DALI | -/+ 15% for ECO-DALI & KIT EM

BATTERY WARRANTY

TEC EM & ECO EM: 12 months warranty

TEC & ECO: -

MAXIMUM NO. OF LUMINAIRES ON A CIRCUIT

| Power | Driver type | Control type | Circuit Breaker Type | | | | | | |
|-------|-------------|--------------|----------------------|----|----|----|----|----|----|
| | | | Amperage | B | | | C | | |
| | | | | 20 | 16 | 10 | 20 | 16 | 10 |
| < 50W | | TEC | | 37 | 30 | 18 | 62 | 51 | 31 |
| ≥ 50W | | TEC | | 37 | 30 | 18 | 62 | 51 | 31 |
| < 80W | | ECO | | 27 | 21 | 13 | 45 | 35 | 21 |

SKU SPECIFICATIONS

| Product Code | Dimensions (mm) | CCT (K) | Lumens (lm) | Power (W) | Eff. (lm/watt) | Lens Angle (°) |
|--|-------------------|---------|-------------|-----------|----------------|----------------|
| CRI 80 | | | | | | |
| 210012 JuniperS 125mm/3000/9W/80/A75/EM1H | 140x140xH57mm±1mm | 3000 | 900 | 9W | 100 | 75° |
| 210013 JuniperS 125mm/4000/9W/80/A75/EM1H | 140x140xH57mm±1mm | 4000 | 940 | 9W | 105 | 75° |
| 210014 JuniperS 125mm/5000/9W/80/A75/EM1H | 140x140xH57mm±1mm | 5000 | 965 | 9W | 108 | 75° |
| 210015 JuniperS 125mm/6500/9W/80/A75/EM1H | 140x140xH57mm±1mm | 6500 | 940 | 9W | 105 | 75° |
| 210016 JuniperS 160mm/3000/9W/80/A75/EM1H | 180x180xH67mm±1mm | 3000 | 935 | 9W | 104 | 75° |
| 210017 JuniperS 160mm/4000/9W/80/A75/EM1H | 180x180xH67mm±1mm | 4000 | 975 | 9W | 109 | 75° |
| 210018 JuniperS 160mm/5000/9W/80/A75/EM1H | 180x180xH67mm±1mm | 5000 | 1000 | 9W | 112 | 75° |
| 210019 JuniperS 160mm/6500/9W/80/A75/EM1H | 180x180xH67mm±1mm | 6500 | 975 | 9W | 109 | 75° |
| 210020 JuniperS 195mm/3000/17W/80/A75/EM1H | 220x220xH67mm±1mm | 3000 | 1955 | 17W | 115 | 75° |
| 210021 JuniperS 195mm/4000/17W/80/A75/EM1H | 220x220xH67mm±1mm | 4000 | 2035 | 17W | 120 | 75° |
| 210022 JuniperS 195mm/5000/17W/80/A75/EM1H | 220x220xH67mm±1mm | 5000 | 2090 | 17W | 123 | 75° |
| 210023 JuniperS 195mm/6500/17W/80/A75/EM1H | 220x220xH67mm±1mm | 6500 | 2035 | 17W | 120 | 75° |
| 210024 JuniperS 125mm/3000/9W/80/A75/EM3H | 140x140xH57mm±1mm | 3000 | 900 | 9W | 100 | 75° |
| 210025 JuniperS 125mm/4000/9W/80/A75/EM3H | 140x140xH57mm±1mm | 4000 | 940 | 9W | 105 | 75° |
| 210026 JuniperS 125mm/5000/9W/80/A75/EM3H | 140x140xH57mm±1mm | 5000 | 965 | 9W | 108 | 75° |
| 210027 JuniperS 125mm/6500/9W/80/A75/EM3H | 140x140xH57mm±1mm | 6500 | 940 | 9W | 105 | 75° |
| 210028 JuniperS 160mm/3000/9W/80/A75/EM3H | 180x180xH67mm±1mm | 3000 | 935 | 9W | 104 | 75° |
| 210029 JuniperS 160mm/4000/9W/80/A75/EM3H | 180x180xH67mm±1mm | 4000 | 975 | 9W | 109 | 75° |
| 210030 JuniperS 160mm/5000/9W/80/A75/EM3H | 180x180xH67mm±1mm | 5000 | 1000 | 9W | 112 | 75° |
| 210031 JuniperS 160mm/6500/9W/80/A75/EM3H | 180x180xH67mm±1mm | 6500 | 975 | 9W | 109 | 75° |
| 210032 JuniperS 195mm/3000/17W/80/A75/EM3H | 220x220xH67mm±1mm | 3000 | 1955 | 17W | 115 | 75° |
| 210033 JuniperS 195mm/4000/17W/80/A75/EM3H | 220x220xH67mm±1mm | 4000 | 2035 | 17W | 120 | 75° |
| 210034 JuniperS 195mm/5000/17W/80/A75/EM3H | 220x220xH67mm±1mm | 5000 | 2090 | 17W | 123 | 75° |
| 210035 JuniperS 195mm/6500/17W/80/A75/EM3H | 220x220xH67mm±1mm | 6500 | 2035 | 17W | 120 | 75° |

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