



Juniper S

RECESSED DOWNLIGHTS AND SPOTLIGHTS | TEC 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:

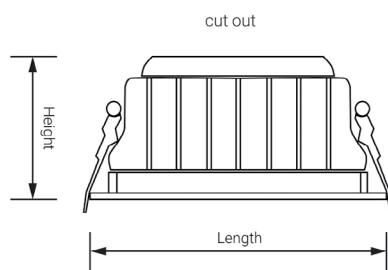
- Juniper S TEC – the standard for a large number of spaces – offices, showrooms, restaurants
- Juniper S TEC EM – with emergency lighting kit
- Juniper S ECO-DALI – with DALI controls for illumination adjustments
- Juniper S ECO-DALI EM - with both dimming and emergency kit

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 (for ECO-DALI series)

APPLICATION

Grocery & Supermarkets | Office | Healthcare | Hospitality | DIY



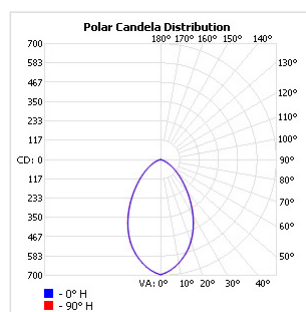
SPECIFICATIONS

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)	<20%		
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	For more information please see JUNIPER S ECO-DALI EM datasheet		
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						
110012 JuniperS 125mm/3000/9W/80/A75/EM1H	140x140xH57mm±1mm	3000	900	9W	100	75°
110013 JuniperS 125mm/4000/9W/80/A75/EM1H	140x140xH57mm±1mm	4000	940	9W	105	75°
110014 JuniperS 125mm/5000/9W/80/A75/EM1H	140x140xH57mm±1mm	5000	965	9W	108	75°
110015 JuniperS 125mm/6500/9W/80/A75/EM1H	140x140xH57mm±1mm	6500	940	9W	105	75°
110016 JuniperS 160mm/3000/9W/80/A75/EM1H	180x180xH67mm±1mm	3000	935	9W	104	75°
110017 JuniperS 160mm/4000/9W/80/A75/EM1H	180x180xH67mm±1mm	4000	975	9W	109	75°
110018 JuniperS 160mm/5000/9W/80/A75/EM1H	180x180xH67mm±1mm	5000	1000	9W	112	75°
110019 JuniperS 160mm/6500/9W/80/A75/EM1H	180x180xH67mm±1mm	6500	975	9W	109	75°
110020 JuniperS 195mm/3000/17W/80/A75/EM1H	220x220xH67mm±1mm	3000	1955	17W	115	75°
110021 JuniperS 195mm/4000/17W/80/A75/EM1H	220x220xH67mm±1mm	4000	2035	17W	120	75°
110022 JuniperS 195mm/5000/17W/80/A75/EM1H	220x220xH67mm±1mm	5000	2090	17W	123	75°
110023 JuniperS 195mm/6500/17W/80/A75/EM1H	220x220xH67mm±1mm	6500	2035	17W	120	75°
110024 JuniperS 125mm/3000/9W/80/A75/EM3H	140x140xH57mm±1mm	3000	900	9W	100	75°
110025 JuniperS 125mm/4000/9W/80/A75/EM3H	140x140xH57mm±1mm	4000	940	9W	105	75°
110026 JuniperS 125mm/5000/9W/80/A75/EM3H	140x140xH57mm±1mm	5000	965	9W	108	75°
110027 JuniperS 125mm/6500/9W/80/A75/EM3H	140x140xH57mm±1mm	6500	940	9W	105	75°
110028 JuniperS 160mm/3000/9W/80/A75/EM3H	180x180xH67mm±1mm	3000	935	9W	104	75°
110029 JuniperS 160mm/4000/9W/80/A75/EM3H	180x180xH67mm±1mm	4000	975	9W	109	75°
110030 JuniperS 160mm/5000/9W/80/A75/EM3H	180x180xH67mm±1mm	5000	1000	9W	112	75°
110031 JuniperS 160mm/6500/9W/80/A75/EM3H	180x180xH67mm±1mm	6500	975	9W	109	75°
110032 JuniperS 195mm/3000/17W/80/A75/EM3H	220x220xH67mm±1mm	3000	1955	17W	115	75°
110033 JuniperS 195mm/4000/17W/80/A75/EM3H	220x220xH67mm±1mm	4000	2035	17W	120	75°
110034 JuniperS 195mm/5000/17W/80/A75/EM3H	220x220xH67mm±1mm	5000	2090	17W	123	75°
110035 JuniperS 195mm/6500/17W/80/A75/EM3H	220x220xH67mm±1mm	6500	2035	17W	120	75°