



Empire R

RECESSED DOWNLIGHTS & SPOTLIGHTS | EM SERIES

Empire R is a round recessed luminaire with three different diameters. Easy to install thanks to a clever mechanism. Provides the perfect combination of efficiency, light comfort, and design, without compromising on lighting performance. COB technology makes this line suitable for accent lighting and for special temperature colors. The housing comes in three color options- signal white, jet black and white aluminum – to fit all the particular environments.

Empire R recessed luminaires come in several series, with various add-on and controls:

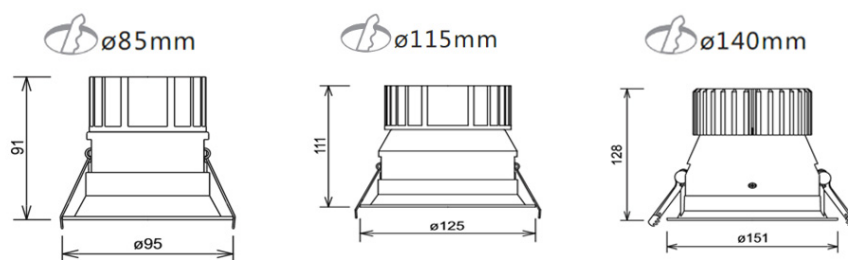
- Empire R TEC – the standard for any project in the retail, health or hospitality sectors
- Empire R EM – with emergency lighting kit of 1h and 3 h
- Empire R ECO-DALI – with DALI controls for illumination adjustments
- Empire R ECO-DALI EM - with both dimming and emergency kit

APPLICATION

Grocery & Supermarkets | Retail | Offices | Hospitality | Art & Exhibitions

FEATURES & BENEFITS

- CRI ≥ 80 as standard, up to 98 for specific special color temperatures
- 15 color temperatures, specialized options included
- Luminaire efficiency: 117 lm/W @4000K
- Optics – three angles 25°, 45°, 50°
- With emergency kits of 1h and 3 h



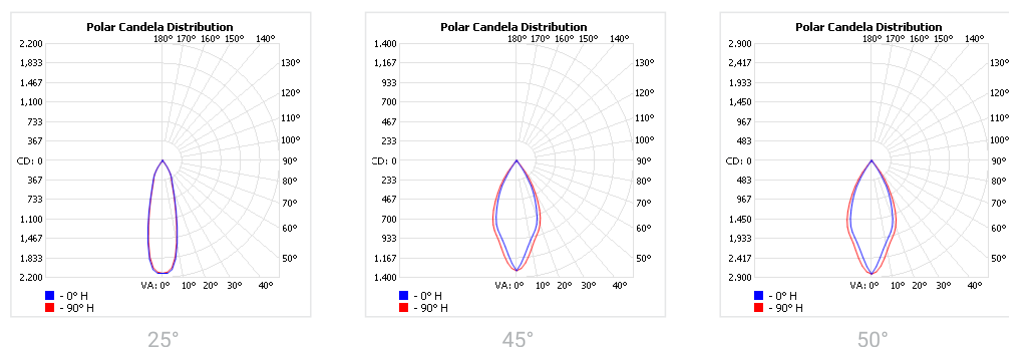
SPECIFICATIONS

Power consumption	8W, 15W	15W, 25W, 32W, 38W, 50W	23W, 33W, 37W, 50W, 60W
Dimensions	Ø95xH91xC85mm±1mm	Ø125xH111xC115mm±1mm	Ø151xH128xC140mm±1mm
Weight	1.0 - 1.3 kg	1.2 - 1.5 kg	1.5 - 1.8 kg
Housing materials	Aluminium, Glass		
IK code	IK02		
THD (at 230V, 50Hz, Full load)	<20%		
Protection class	Safety class 1		
Operating temperature [°C]	-20°C...+45°C / -4°F...+113°F		
Operating humidity [%]	10 ÷ 85		
Power factor	≥0.95		
AC Input [Vac]	220 - 240		
Lens angle [°]	25°, 45°, 50°		
Lifespan [h]	50,000		
Housing color	○ RAL 9003 - Signal white, ● RAL 9005 - Jet Black, ● RAL 9006 - White Aluminium		
Lumen maintenance	L90/B10@50,000h at 25°C		
IP factor	IP20		
Control optional	For product information please see Empire R ECO-DALI EM datasheet		
Warranty [years]	5		
Storage temperature range [°C]	-20°C... +55°C / -4°F ... +131°F		
Emergency option	EM1H, EM3H		

Light application	Standard	Food		Fashion	AGI	Art
CRI	CRI 80	CRI 80		CRI 95	CRI 93	CRI 98
CCT [K]	2700K/3000K/3500K/4000K	BVF/FSM/FSH	FBS/FZM	FAS	AGI 3000/3500/4000	ART 2700/3000
MacAdam	3	3	4	3	3	2

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

LIGHT DISTRIBUTION



SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
CRI 80						
105185 EmpireR D33002/BVF/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	BVF	2065	27W	77	45°
105186 EmpireR D33002/FBS/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FBS	1635	27W	61	45°
105187 EmpireR D33002/FZM/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FZM	1530	27W	57	45°
105188 EmpireR D33002/FSM/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSM	1530	27W	57	45°
105189 EmpireR D33002/FSH/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSH	2250	27W	84	45°
105220 EmpireR D33002/2700/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	2700	1485	14W	107	45°
105221 EmpireR D33002/3000/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	3000	1500	14W	108	45°
105222 EmpireR D33002/3500/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	3500	1540	14W	110	45°
105223 EmpireR D33002/4000/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	4000	1570	14W	113	45°
105225 EmpireR D33002/2700/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	2700	2080	20W	104	45°
105226 EmpireR D33002/3000/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	3000	2100	20W	105	45°
105227 EmpireR D33002/3500/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	3500	2160	20W	108	45°
105228 EmpireR D33002/4000/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	4000	2200	20W	110	45°
105230 EmpireR D33002/2700/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	2700	2945	27W	110	45°
105231 EmpireR D33002/3000/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	3000	2970	27W	110	45°
105232 EmpireR D33002/3500/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	3500	3055	27W	114	45°
105233 EmpireR D33002/4000/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	4000	3135	27W	117	45°
105252 EmpireR D33002/BVF/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	BVF	2065	27W	77	45°
105253 EmpireR D33002/FBS/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FBS	1635	27W	61	45°
105254 EmpireR D33002/FMZ/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FZM	1530	27W	57	45°
105255 EmpireR D33002/FSM/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSM	1530	27W	57	45°
105256 EmpireR D33002/FSH/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSH	2250	27W	84	45°
CRI 93						
105442 EmpireR D33002/AGI3000/12W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3000	735	12W	62	45°
105443 EmpireR D33002/AGI3500/12W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3500	780	12W	65	45°
105444 EmpireR D33002/AGI4000/12W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI4000	830	12W	70	45°
105445 EmpireR D33002/AGI3000/17W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3000	985	17W	58	45°
105446 EmpireR D33002/AGI3500/17W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3500	1050	17W	62	45°
105447 EmpireR D33002/AGI4000/17W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI4000	1115	17W	66	45°
105448 EmpireR D33002/AGI3000/23W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3000	1330	23W	58	45°
105449 EmpireR D33002/AGI3500/23W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3500	1440	23W	63	45°
105450 EmpireR D33002/AGI4000/23W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI4000	1550	23W	68	45°
105472 EmpireR D33002/AGI3000/12W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3000	735	12W	62	45°
105473 EmpireR D33002/AGI3500/12W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3500	780	12W	65	45°
105474 EmpireR D33002/AGI4000/12W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI4000	830	12W	70	45°
105475 EmpireR D33002/AGI3000/17W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3000	985	17W	58	45°
105476 EmpireR D33002/AGI3500/17W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3500	1050	17W	62	45°
105477 EmpireR D33002/AGI4000/17W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI4000	1115	17W	66	45°
105478 EmpireR D33002/AGI3000/23W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3000	1330	23W	58	45°
105479 EmpireR D33002/AGI3500/23W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3500	1440	23W	63	45°
105480 EmpireR D33002/AGI4000/23W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI4000	1550	23W	68	45°
CRI 95						
105183 EmpireR D33002/FAS/27W/95/A45/EM1H	D125xH111xØ115mm±1mm	FAS	2080	27W	78	45°
105250 EmpireR D33002/FAS/27W/95/A45/EM3H	D125xH111xØ115mm±1mm	FAS	2080	27W	78	45°

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
CRI 98						
105195 EmpireR D33002/ART2700/27W/98/A45/EM1H	D125xH111xØ115mm±1mm	ART	1855	27W	69	45°
105196 EmpireR D33002/ART3000/27W/98/A45/EM1H	D125xH111xØ115mm±1mm	ART	1995	27W	74	45°
105262 EmpireR D33002/ART2700/27W/98/A45/EM3H	D125xH111xØ115mm±1mm	ART	1855	27W	69	45°
105263 EmpireR D33002/ART3000/27W/98/A45/EM3H	D125xH111xØ115mm±1mm	ART	1995	27W	74	45°