



Empire S

RECESSED DOWNLIGHTS | DALI SERIES

With an elegant square encasing, Empire S provides a beautiful accent lighting. Lens angles of 25, 45 or 50 -degrees. It comes in three diameters, thus suitable to replace any type of conventional ceiling lamps. Can be equipped with a large range of special colors for food, fashion, art and AGI.

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

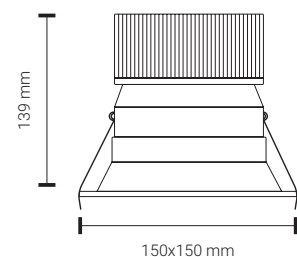
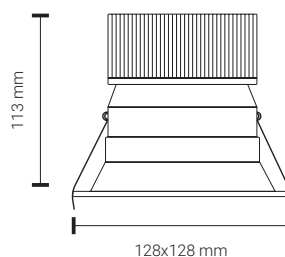
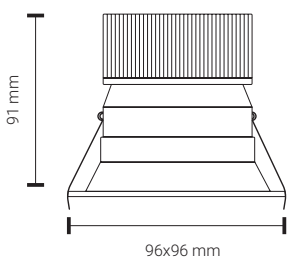
- Empire S Non-DALI – the standard for any project in the retail and health sectors
- Empire S Non-DALI EM – with emergency lighting kit
- Empire S DALI – with DALI controls for dimming
- Empire S DALI EM - with both dimming and emergency kit

APPLICATION

Grocery & Supermarkets | Retail | Office | Healthcare | Hospitality | DIY

FEATURES & BENEFITS

- CRI ≥ 80 as standard, up to 98 for specific special color temperatures
- 15 color temperatures, specialized options included
- Luminaire efficiency: 117lm/W @4000K
- Optics – three angles 25°, 45°, 50°
- IP factor: IP20, IP40 for front face only
- Dimmable



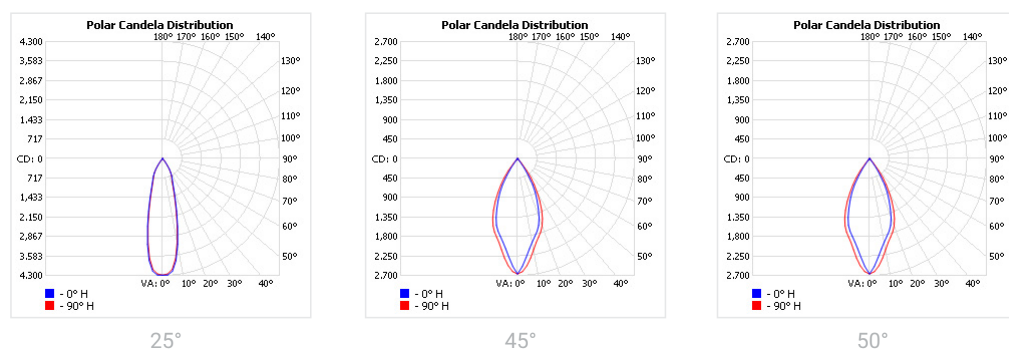
SPECIFICATIONS

Power consumption	12W, 14W, 17W, 20W	12W, 14W, 17W, 20W, 23W, 27W	12W, 14W, 17W, 20W, 23W, 27W
Dimensions	96x96xH91±1mm	128x128xH113x±1mm	150x150xH139±1mm
Weight	0.5 Kg	0.8 Kg	1.1 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 / -4F ... +113F		
Operating humidity [%]	10 ÷ 85		
Power factor	≥0.95		
AC Input [Vac]	220 - 240 VAC		
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	DALI		
Warranty [years]	5		
Storage temperature range [°C]	-20°C ... +55°C / -4F ... +131F		
Emergency option	-		

#	Standard	Food	Fashion	AGI	ART	AMB
CRI	CRI80	CRI80	CRI95	CRI93	CRI98	CRI80
CCT [K]	2700 / 3000 / 3500 / 4000	BVF / FBS / FZM / FSM / FSH	FAS	AGI 3000 / 3500 / 4000	3000	2200
MacAdam	3	3 / 4 / 4 / 3 / 3	3	3	2	3

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

LIGHT DISTRIBUTION



TOLERANCES

Luminous flux tolerances: -/+ 5%

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

BATTERY WARRANTY

Non-DALI EM & DALI EM: 12 months warranty

Non-DALI & DALI: -

MAXIMUM NO. OF LUMINAIRES ON A CIRCUIT

Luminaire Power(W)	Control type	Circuit Breaker Type					
		B			C		
		20	16	10	20	16	10
8-20W	Non-DALI	62	50	31	104	85	52
23-35W	Non-DALI	24	20	10	47	40	20
42W	Non-DALI	20	16	8	38	32	16
8-20W	DALI	62	50	31	104	85	52
23-27W	DALI	25	21	13	50	42	26
34-42W	DALI	17	14	9	34	28	18

RISK GROUP

Standard (CRI80)	RG1
FOOD (BVF, FBS, FSM)	RG1
FOOD ≤35W (FZM, FSH)	RG1
FOOD >35W (FZM, FSH)	RG2
FAS	RG1
AMB2200	RG1
ART	RG1
AGI	RG1
CRI90	RG1
CRI95	RG1
ENT	RG1

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.

RG2
 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 "Moderate Risk (RG2)". 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.

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
CRI 80						
206000 EmpireS D35000/2700/14W/80/A25	96x96xH91±1mm	2700	1485	14W	107	25°
206001 EmpireS D35000/3000/14W/80/A25	96x96xH91±1mm	3000	1500	14W	108	25°
206002 EmpireS D35000/3500/14W/80/A25	96x96xH91±1mm	3500	1540	14W	110	25°
206003 EmpireS D35000/4000/14W/80/A25	96x96xH91±1mm	4000	1570	14W	113	25°
206005 EmpireS D35000/2700/14W/80/A45	96x96xH91±1mm	2700	1485	14W	107	45°
206006 EmpireS D35000/3000/14W/80/A45	96x96xH91±1mm	3000	1500	14W	108	45°
206007 EmpireS D35000/3500/14W/80/A45	96x96xH91±1mm	3500	1540	14W	110	45°
206008 EmpireS D35000/4000/14W/80/A45	96x96xH91±1mm	4000	1570	14W	113	45°
206010 EmpireS D35000/2700/20W/80/A25	96x96xH91±1mm	2700	2080	20W	104	25°
206011 EmpireS D35000/3000/20W/80/A25	96x96xH91±1mm	3000	2100	20W	105	25°
206012 EmpireS D35000/3500/20W/80/A25	96x96xH91±1mm	3500	2160	20W	108	25°
206013 EmpireS D35000/4000/20W/80/A25	96x96xH91±1mm	4000	2200	20W	110	25°
206015 EmpireS D35000/2700/20W/80/A45	96x96xH91±1mm	2700	2080	20W	104	45°
206016 EmpireS D35000/3000/20W/80/A45	96x96xH91±1mm	3000	2100	20W	105	45°
206017 EmpireS D35000/3500/20W/80/A45	96x96xH91±1mm	3500	2160	20W	108	45°
206018 EmpireS D35000/4000/20W/80/A45	96x96xH91±1mm	4000	2200	20W	110	45°
206020 EmpireS D35001/2700/14W/80/A45	128x128xH113x±1mm	2700	1485	14W	107	45°
206021 EmpireS D35001/3000/14W/80/A45	128x128xH113x±1mm	3000	1500	14W	108	45°
206022 EmpireS D35001/3500/14W/80/A45	128x128xH113x±1mm	3500	1540	14W	110	45°
206023 EmpireS D35001/4000/14W/80/A45	128x128xH113x±1mm	4000	1570	14W	113	45°
206025 EmpireS D35001/2700/20W/80/A45	128x128xH113x±1mm	2700	2080	20W	104	45°
206026 EmpireS D35001/3000/20W/80/A45	128x128xH113x±1mm	3000	2100	20W	105	45°
206027 EmpireS D35001/3500/20W/80/A45	128x128xH113x±1mm	3500	2160	20W	108	45°
206028 EmpireS D35001/4000/20W/80/A45	128x128xH113x±1mm	4000	2200	20W	110	45°
206030 EmpireS D35001/2700/27W/80/A45	128x128xH113x±1mm	2700	2945	27W	110	45°
206031 EmpireS D35001/3000/27W/80/A45	128x128xH113x±1mm	3000	2970	27W	110	45°
206032 EmpireS D35001/3500/27W/80/A45	128x128xH113x±1mm	3500	3055	27W	114	45°
206033 EmpireS D35001/4000/27W/80/A45	128x128xH113x±1mm	4000	3135	27W	117	45°
206035 EmpireS D35002/2700/14W/80/A50	150x150xH139±1mm	2700	1485	14W	107	50°
206036 EmpireS D35002/3000/14W/80/A50	150x150xH139±1mm	3000	1500	14W	108	50°
206037 EmpireS D35002/3500/14W/80/A50	150x150xH139±1mm	3500	1540	14W	110	50°
206038 EmpireS D35002/4000/14W/80/A50	150x150xH139±1mm	4000	1570	14W	113	50°
206040 EmpireS D35002/2700/20W/80/A50	150x150xH139±1mm	2700	2080	20W	104	50°
206041 EmpireS D35002/3000/20W/80/A50	150x150xH139±1mm	3000	2100	20W	105	50°
206042 EmpireS D35002/3500/20W/80/A50	150x150xH139±1mm	3500	2160	20W	108	50°
206043 EmpireS D35002/4000/20W/80/A50	150x150xH139±1mm	4000	2200	20W	110	50°
206045 EmpireS D35002/2700/27W/80/A50	150x150xH139±1mm	2700	2945	27W	110	50°
206046 EmpireS D35002/3000/27W/80/A50	150x150xH139±1mm	3000	2970	27W	110	50°
206047 EmpireS D35002/3500/27W/80/A50	150x150xH139±1mm	3500	3055	27W	114	50°
206048 EmpireS D35002/4000/27W/80/A50	150x150xH139±1mm	4000	3135	27W	117	50°
206060 EmpireS D35001/BVF/27W/80/A45	128x128xH113x±1mm	BVF	2065	27W	77	45°
206061 EmpireS D35001/FBS/27W/80/A45	128x128xH113x±1mm	FBS	1635	27W	61	45°
206062 EmpireS D35001/FZM/27W/80/A45	128x128xH113x±1mm	FZM	1530	27W	57	45°
206063 EmpireS D35001/FSM/27W/80/A45	128x128xH113x±1mm	FSM	1530	27W	57	45°
206122 EmpireS D35001/FSH/27W/80/A45	128x128xH113x±1mm	FSH	2250	27W	84	45°
206064 EmpireS D35002/BVF/27W/80/A50	150x150xH139±1mm	BVF	2065	27W	77	50°
206065 EmpireS D35002/FBS/27W/80/A50	150x150xH139±1mm	FBS	1635	27W	61	50°
206066 EmpireS D35002/FZM/27W/80/A50	150x150xH139±1mm	FZM	1530	27W	57	50°
206067 EmpireS D35002/FSM/27W/80/A50	150x150xH139±1mm	FSM	1530	27W	57	50°
206123 EmpireS D35002/FSH/27W/80/A50	150x150xH139±1mm	FSH	2250	27W	84	50°
206228 EmpireS D35000/AMB2200/14W/80/A25	96x96xH91±1mm	AMB2200	915	14W	66	25°
206229 EmpireS D35000/AMB2200/20W/80/A25	96x96xH91±1mm	AMB2200	1270	20W	64	25°

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
CRI 80						
206230 EmpireS D35000/AMB2200/14W/80/A45	96x96xH91±1mm	AMB2200	915	14W	66	45°
206231 EmpireS D35000/AMB2200/20W/80/A45	96x96xH91±1mm	AMB2200	1270	20W	64	45°
206232 EmpireS D35001/AMB2200/14W/80/A45	128x128xH113x±1mm	AMB2200	1020	14W	73	45°
206233 EmpireS D35001/AMB2200/20W/80/A45	128x128xH113x±1mm	AMB2200	1410	20W	71	45°
206234 EmpireS D35001/AMB2200/27W/80/A45	128x128xH113x±1mm	AMB2200	1870	27W	70	45°
206235 EmpireS D35002/AMB2200/14W/80/A50	150x150xH139±1mm	AMB2200	1020	14W	73	50°
206236 EmpireS D35002/AMB2200/20W/80/A50	150x150xH139±1mm	AMB2200	1410	20W	71	50°
206237 EmpireS D35002/AMB2200/27W/80/A50	150x150xH139±1mm	AMB2200	1870	27W	70	50°
CRI 93						
206400 EmpireS D35000/AGI3000/12W/93/A25	96x96xH91±1mm	AGI3500	735	12W	62	25°
206401 EmpireS D35000/AGI3500/12W/93/A25	96x96xH91±1mm	AGI3500	780	12W	65	25°
206402 EmpireS D35000/AGI4000/12W/93/A25	96x96xH91±1mm	AGI4000	830	12W	70	25°
206403 EmpireS D35000/AGI3000/12W/93/A45	96x96xH91±1mm	AGI3000	735	12W	62	45°
206404 EmpireS D35000/AGI3500/12W/93/A45	96x96xH91±1mm	AGI3500	780	12W	65	45°
206405 EmpireS D35000/AGI4000/12W/93/A45	96x96xH91±1mm	AGI4000	830	12W	70	45°
206406 EmpireS D35000/AGI3000/17W/93/A25	96x96xH91±1mm	AGI3000	985	17W	58	25°
206407 EmpireS D35000/AGI3500/17W/93/A25	96x96xH91±1mm	AGI3500	1050	17W	62	25°
206408 EmpireS D35000/AGI4000/17W/93/A25	96x96xH91±1mm	AGI4000	1115	17W	66	25°
206409 EmpireS D35000/AGI3000/17W/93/A45	96x96xH91±1mm	AGI3000	985	17W	58	45°
206410 EmpireS D35000/AGI3500/17W/93/A45	96x96xH91±1mm	AGI3500	1050	17W	62	45°
206411 EmpireS D35000/AGI4000/17W/93/A45	96x96xH91±1mm	AGI4000	1115	17W	66	45°
206412 EmpireS D35001/AGI3000/12W/93/A45	128x128xH113x±1mm	AGI3000	735	12W	62	45°
206413 EmpireS D35001/AGI3500/12W/93/A45	128x128xH113x±1mm	AGI3500	780	12W	65	45°
206414 EmpireS D35001/AGI4000/12W/93/A45	128x128xH113x±1mm	AGI4000	830	12W	70	45°
206415 EmpireS D35001/AGI3000/17W/93/A45	128x128xH113x±1mm	AGI3000	985	17W	58	45°
206416 EmpireS D35001/AGI3500/17W/93/A45	128x128xH113x±1mm	AGI3500	1050	17W	62	45°
206417 EmpireS D35001/AGI4000/17W/93/A45	128x128xH113x±1mm	AGI4000	1115	17W	66	45°
206418 EmpireS D35001/AGI3000/23W/93/A45	128x128xH113x±1mm	AGI3000	1330	23W	58	45°
206419 EmpireS D35001/AGI3500/23W/93/A45	128x128xH113x±1mm	AGI3500	1440	23W	63	45°
206420 EmpireS D35001/AGI4000/23W/93/A45	128x128xH113x±1mm	AGI4000	1550	23W	68	45°
206421 EmpireS D35002/AGI3000/12W/93/A50	150x150xH139±1mm	AGI3000	735	12W	62	50°
206422 EmpireS D35002/AGI3500/12W/93/A50	150x150xH139±1mm	AGI3500	780	12W	65	50°
206423 EmpireS D35002/AGI4000/12W/93/A50	150x150xH139±1mm	AGI4000	830	12W	70	50°
206424 EmpireS D35002/AGI3000/17W/93/A50	150x150xH139±1mm	AGI3000	985	17W	58	50°
206425 EmpireS D35002/AGI3500/17W/93/A50	150x150xH139±1mm	AGI3500	1050	17W	62	50°
206426 EmpireS D35002/AGI4000/17W/93/A50	150x150xH139±1mm	AGI4000	1115	17W	66	50°
206427 EmpireS D35002/AGI3000/23W/93/A50	150x150xH139±1mm	AGI3000	1330	23W	58	50°
206428 EmpireS D35002/AGI3500/23W/93/A50	150x150xH139±1mm	AGI3500	1440	23W	63	50°
206429 EmpireS D35002/AGI4000/23W/93/A50	150x150xH139±1mm	AGI4000	1550	23W	68	50°
CRI 95						
206056 EmpireS D35001/FAS/27W/95/A45	128x128xH113x±1mm	FAS	2080	27W	78	45°
206059 EmpireS D35002/FAS/27W/95/A50	150x150xH139±1mm	FAS	2080	27W	78	50°
CRI 98						
206125 EmpireS D35001/ART3000/27W/98/A45	128x128xH113x±1mm	ART3000	1995	27W	74	45°
206127 EmpireS D35002/ART3000/27W/98/A50	150x150xH139±1mm	ART3000	1995	27W	74	50°

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