



Empire S

RECESSED DOWNLIGHTS | NON-DALI EM 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:

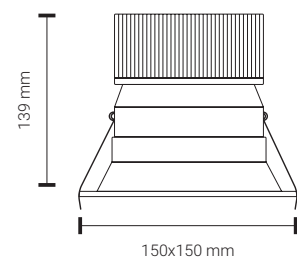
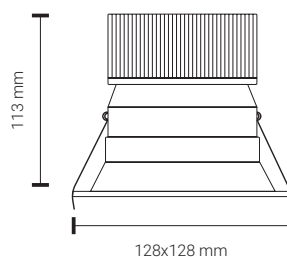
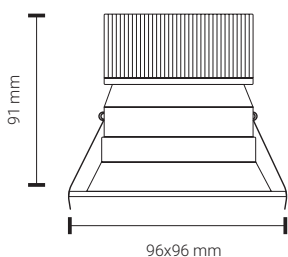
- Empire S Non-DALI – the standard for any project in the retail and health sectors
- Empire S Non-DALI EM – with emergency lighting kit
- Empire S DALI – with DALI controls for dimming
- Empire S DALI EM - with both dimming and emergency kit

APPLICATION

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

FEATURES & BENEFITS

- CRI ≥ 80 as standard, up to 93 for specific special color temperatures
- 7 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 (only for DALI and DALI EM Series)
- With emergency kits of 1h and 3 h



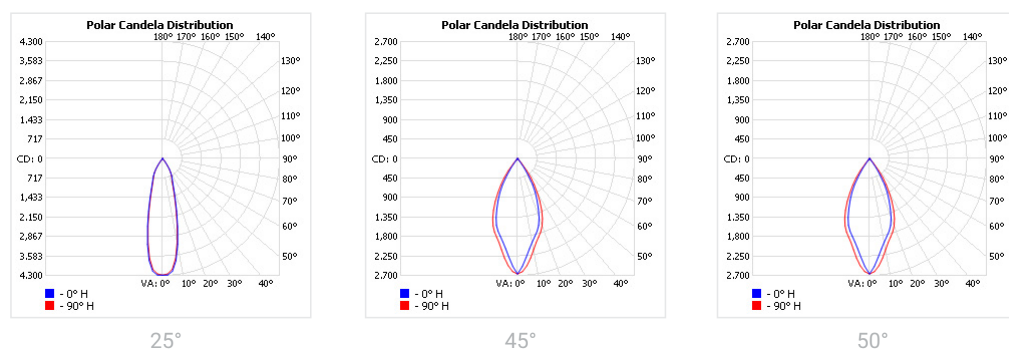
SPECIFICATIONS

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	1.4 Kg	1.7 Kg	2 Kg
Housing materials	Aluminium, glass		
IK code	IK02		
THD (at 230V, 50Hz, Full load)	<20%		
Protection class	Safety class 1		
Operating temperature [°C]	+5°C ... +40°C / +41F ... +104F		
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	-		
Warranty [years]	5		
Storage temperature range [°C]	+5°C ... +25°C / +41F ... +77F		
Emergency option	EM1H, EM3H		

#	Standard	AGI
CRI	CRI80	CRI93
CCT [K]	2700 / 3000 / 3500 / 4000	AGI 3000 / 3500 / 4000
MacAdam	3	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						
106128 EmpireS D35000/2700/14W/80/A25/EM1H	96x96xH91±1mm	2700	1485	14W	107	25°
106129 EmpireS D35000/3000/14W/80/A25/EM1H	96x96xH91±1mm	3000	1500	14W	108	25°
106130 EmpireS D35000/3500/14W/80/A25/EM1H	96x96xH91±1mm	3500	1540	14W	110	25°
106131 EmpireS D35000/4000/14W/80/A25/EM1H	96x96xH91±1mm	4000	1570	14W	113	25°
106133 EmpireS D35000/2700/14W/80/A45/EM1H	96x96xH91±1mm	2700	1485	14W	107	45°
106134 EmpireS D35000/3000/14W/80/A45/EM1H	96x96xH91±1mm	3000	1500	14W	108	45°
106135 EmpireS D35000/3500/14W/80/A45/EM1H	96x96xH91±1mm	3500	1540	14W	110	45°
106136 EmpireS D35000/4000/14W/80/A45/EM1H	96x96xH91±1mm	4000	1570	14W	113	45°
106138 EmpireS D35000/2700/20W/80/A25/EM1H	96x96xH91±1mm	2700	2080	20W	104	25°
106139 EmpireS D35000/3000/20W/80/A25/EM1H	96x96xH91±1mm	3000	2100	20W	105	25°
106140 EmpireS D35000/3500/20W/80/A25/EM1H	96x96xH91±1mm	3500	2160	20W	108	25°
106141 EmpireS D35000/4000/20W/80/A25/EM1H	96x96xH91±1mm	4000	2200	20W	110	25°
106143 EmpireS D35000/2700/20W/80/A45/EM1H	96x96xH91±1mm	2700	2080	20W	104	45°
106144 EmpireS D35000/3000/20W/80/A45/EM1H	96x96xH91±1mm	3000	2100	20W	105	45°
106145 EmpireS D35000/3500/20W/80/A45/EM1H	96x96xH91±1mm	3500	2160	20W	108	45°
106146 EmpireS D35000/4000/20W/80/A45/EM1H	96x96xH91±1mm	4000	2200	20W	110	45°
106148 EmpireS D35001/2700/14W/80/A45/EM1H	128x128xH113x±1mm	2700	1485	14W	107	45°
106149 EmpireS D35001/3000/14W/80/A45/EM1H	128x128xH113x±1mm	3000	1500	14W	108	45°
106150 EmpireS D35001/3500/14W/80/A45/EM1H	128x128xH113x±1mm	3500	1540	14W	110	45°
106151 EmpireS D35001/4000/14W/80/A45/EM1H	128x128xH113x±1mm	4000	1570	14W	113	45°
106153 EmpireS D35001/2700/20W/80/A45/EM1H	128x128xH113x±1mm	2700	2080	20W	104	45°
106154 EmpireS D35001/3000/20W/80/A45/EM1H	128x128xH113x±1mm	3000	2100	20W	105	45°
106155 EmpireS D35001/3500/20W/80/A45/EM1H	128x128xH113x±1mm	3500	2160	20W	108	45°
106156 EmpireS D35001/4000/20W/80/A45/EM1H	128x128xH113x±1mm	4000	2200	20W	110	45°
106158 EmpireS D35001/2700/27W/80/A45/EM1H	128x128xH113x±1mm	2700	2945	27W	110	45°
106159 EmpireS D35001/3000/27W/80/A45/EM1H	128x128xH113x±1mm	3000	2970	27W	110	45°
106160 EmpireS D35001/3500/27W/80/A45/EM1H	128x128xH113x±1mm	3500	3055	27W	114	45°
106161 EmpireS D35001/4000/27W/80/A45/EM1H	128x128xH113x±1mm	4000	3135	27W	117	45°
106163 EmpireS D35002/2700/14W/80/A50/EM1H	150x150xH139±1mm	2700	1485	14W	107	50°
106164 EmpireS D35002/3000/14W/80/A50/EM1H	150x150xH139±1mm	3000	1500	14W	108	50°
106165 EmpireS D35002/3500/14W/80/A50/EM1H	150x150xH139±1mm	3500	1540	14W	110	50°
106166 EmpireS D35002/4000/14W/80/A50/EM1H	150x150xH139±1mm	4000	1570	14W	113	50°
106168 EmpireS D35002/2700/20W/80/A50/EM1H	150x150xH139±1mm	2700	2080	20W	104	50°
106169 EmpireS D35002/3000/20W/80/A50/EM1H	150x150xH139±1mm	3000	2100	20W	105	50°
106170 EmpireS D35002/3500/20W/80/A50/EM1H	150x150xH139±1mm	3500	2160	20W	108	50°
106171 EmpireS D35002/4000/20W/80/A50/EM1H	150x150xH139±1mm	4000	2200	20W	110	50°
106173 EmpireS D35002/2700/27W/80/A50/EM1H	150x150xH139±1mm	2700	2945	27W	110	50°
106174 EmpireS D35002/3000/27W/80/A50/EM1H	150x150xH139±1mm	3000	2970	27W	110	50°
106175 EmpireS D35002/3500/27W/80/A50/EM1H	150x150xH139±1mm	3500	3055	27W	114	50°
106176 EmpireS D35002/4000/27W/80/A50/EM1H	150x150xH139±1mm	4000	3135	27W	117	50°
106178 EmpireS D35000/2700/14W/80/A25/EM3H	96x96xH91±1mm	2700	1485	14W	107	25°
106179 EmpireS D35000/3000/14W/80/A25/EM3H	96x96xH91±1mm	3000	1500	14W	108	25°
106180 EmpireS D35000/3500/14W/80/A25/EM3H	96x96xH91±1mm	3500	1540	14W	110	25°
106181 EmpireS D35000/4000/14W/80/A25/EM3H	96x96xH91±1mm	4000	1570	14W	113	25°
106183 EmpireS D35000/2700/14W/80/A45/EM3H	96x96xH91±1mm	2700	1485	14W	107	45°
106184 EmpireS D35000/3000/14W/80/A45/EM3H	96x96xH91±1mm	3000	1500	14W	108	45°
106185 EmpireS D35000/3500/14W/80/A45/EM3H	96x96xH91±1mm	3500	1540	14W	110	45°
106186 EmpireS D35000/4000/14W/80/A45/EM3H	96x96xH91±1mm	4000	1570	14W	113	45°
106188 EmpireS D35000/2700/20W/80/A25/EM3H	96x96xH91±1mm	2700	2080	20W	104	25°
106189 EmpireS D35000/3000/20W/80/A25/EM3H	96x96xH91±1mm	3000	2100	20W	105	25°
106190 EmpireS D35000/3500/20W/80/A25/EM3H	96x96xH91±1mm	3500	2160	20W	108	25°
106191 EmpireS D35000/4000/20W/80/A25/EM3H	96x96xH91±1mm	4000	2200	20W	110	25°

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
CRI 80						
106193 EmpireS D35000/2700/20W/80/A45/EM3H	96x96xH91±1mm	2700	2080	20W	104	45°
106194 EmpireS D35000/3000/20W/80/A45/EM3H	96x96xH91±1mm	3000	2100	20W	105	45°
106195 EmpireS D35000/3500/20W/80/A45/EM3H	96x96xH91±1mm	3500	2160	20W	108	45°
106196 EmpireS D35000/4000/20W/80/A45/EM3H	96x96xH91±1mm	4000	2200	20W	110	45°
106198 EmpireS D35001/2700/14W/80/A45/EM3H	128x128xH113x±1mm	2700	1485	14W	107	45°
106199 EmpireS D35001/3000/14W/80/A45/EM3H	128x128xH113x±1mm	3000	1500	14W	108	45°
106200 EmpireS D35001/3500/14W/80/A45/EM3H	128x128xH113x±1mm	3500	1540	14W	110	45°
106201 EmpireS D35001/4000/14W/80/A45/EM3H	128x128xH113x±1mm	4000	1570	14W	113	45°
106203 EmpireS D35001/2700/20W/80/A45/EM3H	128x128xH113x±1mm	2700	2080	20W	104	45°
106204 EmpireS D35001/3000/20W/80/A45/EM3H	128x128xH113x±1mm	3000	2100	20W	105	45°
106205 EmpireS D35001/3500/20W/80/A45/EM3H	128x128xH113x±1mm	3500	2160	20W	108	45°
106206 EmpireS D35001/4000/20W/80/A45/EM3H	128x128xH113x±1mm	4000	2200	20W	110	45°
106208 EmpireS D35001/2700/27W/80/A45/EM3H	128x128xH113x±1mm	2700	2945	27W	110	45°
106209 EmpireS D35001/3000/27W/80/A45/EM3H	128x128xH113x±1mm	3000	2970	27W	110	45°
106210 EmpireS D35001/3500/27W/80/A45/EM3H	128x128xH113x±1mm	3500	3055	27W	114	45°
106211 EmpireS D35001/4000/27W/80/A45/EM3H	128x128xH113x±1mm	4000	3135	27W	117	45°
106213 EmpireS D35002/2700/14W/80/A50/EM3H	150x150xH139±1mm	2700	1485	14W	107	50°
106214 EmpireS D35002/3000/14W/80/A50/EM3H	150x150xH139±1mm	3000	1500	14W	108	50°
106215 EmpireS D35002/3500/14W/80/A50/EM3H	150x150xH139±1mm	3500	1540	14W	110	50°
106216 EmpireS D35002/4000/14W/80/A50/EM3H	150x150xH139±1mm	4000	1570	14W	113	50°
106218 EmpireS D35002/2700/20W/80/A50/EM3H	150x150xH139±1mm	2700	2080	20W	104	50°
106219 EmpireS D35002/3000/20W/80/A50/EM3H	150x150xH139±1mm	3000	2100	20W	105	50°
106220 EmpireS D35002/3500/20W/80/A50/EM3H	150x150xH139±1mm	3500	2160	20W	108	50°
106221 EmpireS D35002/4000/20W/80/A50/EM3H	150x150xH139±1mm	4000	2200	20W	110	50°
106223 EmpireS D35002/2700/27W/80/A50/EM3H	150x150xH139±1mm	2700	2945	27W	110	50°
106224 EmpireS D35002/3000/27W/80/A50/EM3H	150x150xH139±1mm	3000	2970	27W	110	50°
106225 EmpireS D35002/3500/27W/80/A50/EM3H	150x150xH139±1mm	3500	3055	27W	114	50°
106226 EmpireS D35002/4000/27W/80/A50/EM3H	150x150xH139±1mm	4000	3135	27W	117	50°
CRI 93						
106430 EmpireS D35000/AGI3000/12W/93/A25/EM1H	96x96xH91±1mm	AGI3000	735	12W	62	25°
106431 EmpireS D35000/AGI3500/12W/93/A25/EM1H	96x96xH91±1mm	AGI3500	780	12W	65	25°
106432 EmpireS D35000/AGI4000/12W/93/A25/EM1H	96x96xH91±1mm	AGI4000	830	12W	70	25°
106433 EmpireS D35000/AGI3000/12W/93/A45/EM1H	96x96xH91±1mm	AGI3000	735	12W	62	45°
106434 EmpireS D35000/AGI3500/12W/93/A45/EM1H	96x96xH91±1mm	AGI3500	780	12W	65	45°
106435 EmpireS D35000/AGI4000/12W/93/A45/EM1H	96x96xH91±1mm	AGI4000	830	12W	70	45°
106436 EmpireS D35000/AGI3000/17W/93/A25/EM1H	96x96xH91±1mm	AGI3000	985	17W	58	25°
106437 EmpireS D35000/AGI3500/17W/93/A25/EM1H	96x96xH91±1mm	AGI3500	1050	17W	62	25°
106438 EmpireS D35000/AGI4000/17W/93/A25/EM1H	96x96xH91±1mm	AGI4000	1115	17W	66	25°
106439 EmpireS D35000/AGI3000/17W/93/A45/EM1H	96x96xH91±1mm	AGI3000	985	17W	58	45°
106440 EmpireS D35000/AGI3500/17W/93/A45/EM1H	96x96xH91±1mm	AGI3500	1050	17W	62	45°
106441 EmpireS D35000/AGI4000/17W/93/A45/EM1H	96x96xH91±1mm	AGI4000	1115	17W	66	45°
106442 EmpireS D35001/AGI3000/12W/93/A45/EM1H	128x128xH113x±1mm	AGI3000	735	12W	62	45°
106443 EmpireS D35001/AGI3500/12W/93/A45/EM1H	128x128xH113x±1mm	AGI3500	780	12W	65	45°
106444 EmpireS D35001/AGI4000/12W/93/A45/EM1H	128x128xH113x±1mm	AGI4000	830	12W	70	45°
106445 EmpireS D35001/AGI3000/17W/93/A45/EM1H	128x128xH113x±1mm	AGI3000	985	17W	58	45°
106446 EmpireS D35001/AGI3500/17W/93/A45/EM1H	128x128xH113x±1mm	AGI3500	1050	17W	62	45°
106447 EmpireS D35001/AGI4000/17W/93/A45/EM1H	128x128xH113x±1mm	AGI4000	1115	17W	66	45°
106448 EmpireS D35001/AGI3000/23W/93/A45/EM1H	128x128xH113x±1mm	AGI3000	1330	23W	58	45°
106449 EmpireS D35001/AGI3500/23W/93/A45/EM1H	128x128xH113x±1mm	AGI3500	1440	23W	63	45°
106450 EmpireS D35001/AGI4000/23W/93/A45/EM1H	128x128xH113x±1mm	AGI4000	1550	23W	68	45°
106451 EmpireS D35002/AGI3000/12W/93/A50/EM1H	150x150xH139±1mm	AGI3000	735	12W	62	50°

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
CRI 93						
106452 EmpireS D35002/AGI3500/12W/93/A50/EM1H	150x150xH139±1mm	AGI3500	780	12W	65	50°
106453 EmpireS D35002/AGI4000/12W/93/A50/EM1H	150x150xH139±1mm	AGI4000	830	12W	70	50°
106454 EmpireS D35002/AGI3000/17W/93/A50/EM1H	150x150xH139±1mm	AGI3000	985	17W	58	50°
106455 EmpireS D35002/AGI3500/17W/93/A50/EM1H	150x150xH139±1mm	AGI3500	1050	17W	62	50°
106456 EmpireS D35002/AGI4000/17W/93/A50/EM1H	150x150xH139±1mm	AGI4000	1115	17W	66	50°
106457 EmpireS D35002/AGI3000/23W/93/A50/EM1H	150x150xH139±1mm	AGI3000	1330	23W	58	50°
106458 EmpireS D35002/AGI3500/23W/93/A50/EM1H	150x150xH139±1mm	AGI3500	1440	23W	63	50°
106459 EmpireS D35002/AGI4000/23W/93/A50/EM1H	150x150xH139±1mm	AGI4000	1550	23W	68	50°
106460 EmpireS D35000/AGI3000/12W/93/A25/EM3H	96x96xH91±1mm	AGI3000	735	12W	62	25°
106461 EmpireS D35000/AGI3500/12W/93/A25/EM3H	96x96xH91±1mm	AGI3500	780	12W	65	25°
106462 EmpireS D35000/AGI4000/12W/93/A25/EM3H	96x96xH91±1mm	AGI4000	830	12W	70	25°
106463 EmpireS D35000/AGI3000/12W/93/A45/EM3H	96x96xH91±1mm	AGI3000	735	12W	62	45°
106464 EmpireS D35000/AGI3500/12W/93/A45/EM3H	96x96xH91±1mm	AGI3500	780	12W	65	45°
106465 EmpireS D35000/AGI4000/12W/93/A45/EM3H	96x96xH91±1mm	AGI4000	830	12W	70	45°
106466 EmpireS D35000/AGI3000/17W/93/A25/EM3H	96x96xH91±1mm	AGI3000	985	17W	58	25°
106467 EmpireS D35000/AGI3500/17W/93/A25/EM3H	96x96xH91±1mm	AGI3500	1050	17W	62	25°
106468 EmpireS D35000/AGI4000/17W/93/A25/EM3H	96x96xH91±1mm	AGI4000	1115	17W	66	25°
106469 EmpireS D35000/AGI3000/17W/93/A45/EM3H	96x96xH91±1mm	AGI3000	985	17W	58	45°
106470 EmpireS D35000/AGI3500/17W/93/A45/EM3H	96x96xH91±1mm	AGI3500	1050	17W	62	45°
106471 EmpireS D35000/AGI4000/17W/93/A45/EM3H	96x96xH91±1mm	AGI4000	1115	17W	66	45°
106472 EmpireS D35001/AGI3000/12W/93/A45/EM3H	128x128xH113x±1mm	AGI3000	735	12W	62	45°
106473 EmpireS D35001/AGI3500/12W/93/A45/EM3H	128x128xH113x±1mm	AGI3500	780	12W	65	45°
106474 EmpireS D35001/AGI4000/12W/93/A45/EM3H	128x128xH113x±1mm	AGI4000	830	12W	70	45°
106475 EmpireS D35001/AGI3000/17W/93/A45/EM3H	128x128xH113x±1mm	AGI3000	985	17W	58	45°
106476 EmpireS D35001/AGI3500/17W/93/A45/EM3H	128x128xH113x±1mm	AGI3500	1050	17W	62	45°
106477 EmpireS D35001/AGI4000/17W/93/A45/EM3H	128x128xH113x±1mm	AGI4000	1115	17W	66	45°
106478 EmpireS D35001/AGI3000/23W/93/A45/EM3H	128x128xH113x±1mm	AGI3000	1330	23W	58	45°
106479 EmpireS D35001/AGI3500/23W/93/A45/EM3H	128x128xH113x±1mm	AGI3500	1440	23W	63	45°
106480 EmpireS D35001/AGI4000/23W/93/A45/EM3H	128x128xH113x±1mm	AGI4000	1550	23W	68	45°
106481 EmpireS D35002/AGI3000/12W/93/A50/EM3H	150x150xH139±1mm	AGI3000	735	12W	62	50°
106482 EmpireS D35002/AGI3500/12W/93/A50/EM3H	150x150xH139±1mm	AGI3500	780	12W	65	50°
106483 EmpireS D35002/AGI4000/12W/93/A50/EM3H	150x150xH139±1mm	AGI4000	830	12W	70	50°
106484 EmpireS D35002/AGI3000/17W/93/A50/EM3H	150x150xH139±1mm	AGI3000	985	17W	58	50°
106485 EmpireS D35002/AGI3500/17W/93/A50/EM3H	150x150xH139±1mm	AGI3500	1050	17W	62	50°
106486 EmpireS D35002/AGI4000/17W/93/A50/EM3H	150x150xH139±1mm	AGI4000	1115	17W	66	50°
106487 EmpireS D35002/AGI3000/23W/93/A50/EM3H	150x150xH139±1mm	AGI3000	1330	23W	58	50°
106488 EmpireS D35002/AGI3500/23W/93/A50/EM3H	150x150xH139±1mm	AGI3500	1440	23W	63	50°
106489 EmpireS D35002/AGI4000/23W/93/A50/EM3H	150x150xH139±1mm	AGI4000	1550	23W	68	50°

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