



## Empire R IP44

### RECESSED DOWNLIGHTS | DALI EM SERIES

Empire R IP44 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 IP44 recessed luminaires come in several series, with various add-on and controls:

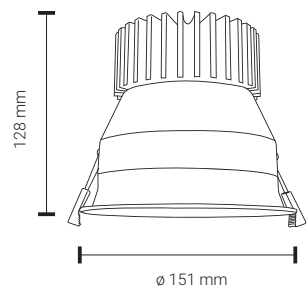
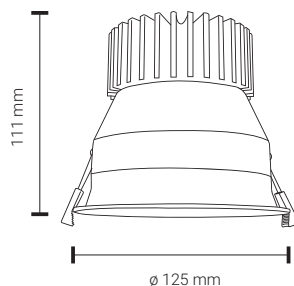
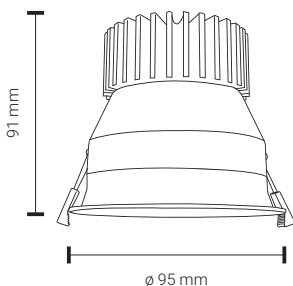
- Empire R IP 44 Non-DALI – the standard for any project in the retail, health or hospitality sectors
- Empire R IP44 Non-DALI EM – with emergency lighting kit of 1h and 3 h
- Empire R IP44 DALI – with DALI controls for illumination adjustments
- Empire R IP44 DALI EM - with both dimming and emergency kit

### FEATURES & BENEFITS

- CRI  $\geq 80$  as standard, up to 98 for specific special color temperatures
- 14 color temperatures, specialized options included
- Luminaire efficiency: 110lm/W @4000K
- Optics – three angles 25°, 45°, 50°
- IP factor: IP20, IP44 for front face only
- Dimmable
- With emergency kits of 1h and 3 h

### APPLICATION

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



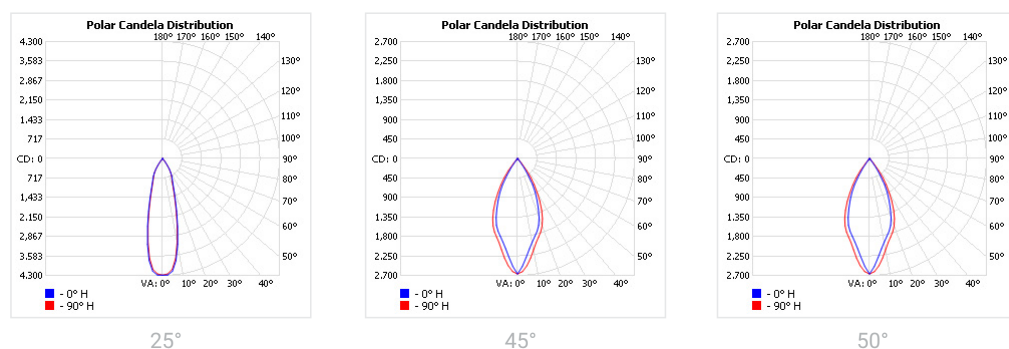
**SPECIFICATIONS**

Power consumption	12W, 14W, 17W, 20W	12W, 14W, 17W, 20W, 23W, 27W	12W, 14W, 17W, 20W, 23W, 27W
Dimensions	D95xH91xØ85mm±1mm	D125xH111xØ115mm±1mm	D151xH128xØ140mm±1mm
Weight	1 - 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]	+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 (front face)	IP20 (IP44)		
Control optional	DALI		
Warranty [years]	5		
Storage temperature range [°C]	+5°C ... +25°C / +41F ... +77F		
Emergency option	EM1H, EM3H		

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

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**

<b>Standard (CRI80)</b>	RG1
<b>FOOD (BVF, FBS, FSM)</b>	RG1
<b>FOOD ≤35W (FZM, FSH)</b>	RG1
<b>FOOD &gt;35W (FZM, FSH)</b>	RG2
<b>FAS</b>	RG1
<b>AMB2200</b>	RG1
<b>ART</b>	RG1
<b>AGI</b>	RG1
<b>CRI90</b>	RG1
<b>CRI95</b>	RG1
<b>ENT</b>	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 (°)
<b>CRI 80</b>						
294050 EmpireR IP44 D33001/2700/14W/80/A25/EM1H	D95xH91xØ85mm±1mm	2700	1200	14W	86	25°
294051 EmpireR IP44 D33001/3000/14W/80/A25/EM1H	D95xH91xØ85mm±1mm	3000	1215	14W	87	25°
294052 EmpireR IP44 D33001/3500/14W/80/A25/EM1H	D95xH91xØ85mm±1mm	3500	1245	14W	89	25°
294053 EmpireR IP44 D33001/4000/14W/80/A25/EM1H	D95xH91xØ85mm±1mm	4000	1270	14W	91	25°
294055 EmpireR IP44 D33001/2700/14W/80/A45/EM1H	D95xH91xØ85mm±1mm	2700	1200	14W	86	45°
294056 EmpireR IP44 D33001/3000/14W/80/A45/EM1H	D95xH91xØ85mm±1mm	3000	1215	14W	87	45°
294057 EmpireR IP44 D33001/3500/14W/80/A45/EM1H	D95xH91xØ85mm±1mm	3500	1245	14W	89	45°
294058 EmpireR IP44 D33001/4000/14W/80/A45/EM1H	D95xH91xØ85mm±1mm	4000	1270	14W	91	45°
294060 EmpireR IP44 D33001/2700/20W/80/A25/EM1H	D95xH91xØ85mm±1mm	2700	1650	20W	83	25°
294061 EmpireR IP44 D33001/3000/20W/80/A25/EM1H	D95xH91xØ85mm±1mm	3000	1665	20W	84	25°
294062 EmpireR IP44 D33001/3500/20W/80/A25/EM1H	D95xH91xØ85mm±1mm	3500	1710	20W	86	25°
294063 EmpireR IP44 D33001/4000/20W/80/A25/EM1H	D95xH91xØ85mm±1mm	4000	1745	20W	88	25°
294065 EmpireR IP44 D33001/2700/20W/80/A45/EM1H	D95xH91xØ85mm±1mm	2700	1650	20W	83	45°
294066 EmpireR IP44 D33001/3000/20W/80/A45/EM1H	D95xH91xØ85mm±1mm	3000	1665	20W	84	45°
294067 EmpireR IP44 D33001/3500/20W/80/A45/EM1H	D95xH91xØ85mm±1mm	3500	1710	20W	86	45°
294068 EmpireR IP44 D33001/4000/20W/80/A45/EM1H	D95xH91xØ85mm±1mm	4000	1745	20W	88	45°
294100 EmpireR IP44 D33001/2700/14W/80/A25/EM3H	D95xH91xØ85mm±1mm	2700	1200	14W	86	25°
294101 EmpireR IP44 D33001/3000/14W/80/A25/EM3H	D95xH91xØ85mm±1mm	3000	1215	14W	87	25°
294102 EmpireR IP44 D33001/3500/14W/80/A25/EM3H	D95xH91xØ85mm±1mm	3500	1245	14W	89	25°
294103 EmpireR IP44 D33001/4000/14W/80/A25/EM3H	D95xH91xØ85mm±1mm	4000	1270	14W	91	25°
294105 EmpireR IP44 D33001/2700/14W/80/A45/EM3H	D95xH91xØ85mm±1mm	2700	1200	14W	86	45°
294106 EmpireR IP44 D33001/3000/14W/80/A45/EM3H	D95xH91xØ85mm±1mm	3000	1215	14W	87	45°
294107 EmpireR IP44 D33001/3500/14W/80/A45/EM3H	D95xH91xØ85mm±1mm	3500	1245	14W	89	45°
294108 EmpireR IP44 D33001/4000/14W/80/A45/EM3H	D95xH91xØ85mm±1mm	4000	1270	14W	91	45°
294110 EmpireR IP44 D33001/2700/20W/80/A25/EM3H	D95xH91xØ85mm±1mm	2700	1650	20W	83	25°
294111 EmpireR IP44 D33001/3000/20W/80/A25/EM3H	D95xH91xØ85mm±1mm	3000	1665	20W	84	25°
294112 EmpireR IP44 D33001/3500/20W/80/A25/EM3H	D95xH91xØ85mm±1mm	3500	1710	20W	86	25°
294113 EmpireR IP44 D33001/4000/20W/80/A25/EM3H	D95xH91xØ85mm±1mm	4000	1745	20W	88	25°
294115 EmpireR IP44 D33001/2700/20W/80/A45/EM3H	D95xH91xØ85mm±1mm	2700	1650	20W	83	45°
294116 EmpireR IP44 D33001/3000/20W/80/A45/EM3H	D95xH91xØ85mm±1mm	3000	1665	20W	84	45°
294117 EmpireR IP44 D33001/3500/20W/80/A45/EM3H	D95xH91xØ85mm±1mm	3500	1710	20W	86	45°
294118 EmpireR IP44 D33001/4000/20W/80/A45/EM3H	D95xH91xØ85mm±1mm	4000	1745	20W	88	45°
294070 EmpireR IP44 D33002/2700/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	2700	1440	14W	103	45°
294071 EmpireR IP44 D33002/3000/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	3000	1455	14W	104	45°
294072 EmpireR IP44 D33002/3500/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	3500	1495	14W	107	45°
294073 EmpireR IP44 D33002/4000/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	4000	1525	14W	109	45°
294075 EmpireR IP44 D33002/2700/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	2700	2010	20W	101	45°
294076 EmpireR IP44 D33002/3000/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	3000	2025	20W	102	45°
294077 EmpireR IP44 D33002/3500/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	3500	2080	20W	104	45°
294078 EmpireR IP44 D33002/4000/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	4000	2120	20W	106	45°
294080 EmpireR IP44 D33002/2700/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	2700	2805	27W	104	45°
294081 EmpireR IP44 D33002/3000/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	3000	2830	27W	105	45°
294082 EmpireR IP44 D33002/3500/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	3500	2905	27W	108	45°
294083 EmpireR IP44 D33002/4000/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	4000	2965	27W	110	45°
294120 EmpireR IP44 D33002/2700/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	2700	1440	14W	103	45°
294121 EmpireR IP44 D33002/3000/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	3000	1455	14W	104	45°
294122 EmpireR IP44 D33002/3500/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	3500	1495	14W	107	45°
294123 EmpireR IP44 D33002/4000/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	4000	1525	14W	109	45°
294125 EmpireR IP44 D33002/2700/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	2700	2010	20W	101	45°
294126 EmpireR IP44 D33002/3000/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	3000	2025	20W	102	45°
294127 EmpireR IP44 D33002/3500/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	3500	2080	20W	104	45°
294128 EmpireR IP44 D33002/4000/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	4000	2120	20W	106	45°

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
<b>CRI 80</b>						
294130 EmpireR IP44 D33002/2700/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	2700	2805	27W	104	45°
294131 EmpireR IP44 D33002/3000/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	3000	2830	27W	105	45°
294132 EmpireR IP44 D33002/3500/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	3500	2905	27W	108	45°
294133 EmpireR IP44 D33002/4000/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	4000	2965	27W	110	45°
294085 EmpireR IP44 D33003/2700/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	2700	1440	14W	103	50°
294086 EmpireR IP44 D33003/3000/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	3000	1455	14W	104	50°
294087 EmpireR IP44 D33003/3500/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	3500	1495	14W	107	50°
294088 EmpireR IP44 D33003/4000/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	4000	1525	14W	109	50°
294090 EmpireR IP44 D33003/2700/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	2700	2010	20W	101	50°
294091 EmpireR IP44 D33003/3000/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	3000	2025	20W	102	50°
294092 EmpireR IP44 D33003/3500/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	3500	2080	20W	104	50°
294093 EmpireR IP44 D33003/4000/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	4000	2120	20W	106	50°
294095 EmpireR IP44 D33003/2700/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	2700	2805	27W	104	50°
294096 EmpireR IP44 D33003/3000/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	3000	2830	27W	105	50°
294097 EmpireR IP44 D33003/3500/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	3500	2905	27W	108	50°
294098 EmpireR IP44 D33003/4000/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	4000	2965	27W	110	50°
294135 EmpireR IP44 D33003/2700/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	2700	1440	14W	103	50°
294136 EmpireR IP44 D33003/3000/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	3000	1455	14W	104	50°
294137 EmpireR IP44 D33003/3500/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	3500	1495	14W	107	50°
294138 EmpireR IP44 D33003/4000/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	4000	1525	14W	109	50°
294140 EmpireR IP44 D33003/2700/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	2700	2010	20W	101	50°
294141 EmpireR IP44 D33003/3000/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	3000	2025	20W	102	50°
294142 EmpireR IP44 D33003/3500/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	3500	2080	20W	104	50°
294143 EmpireR IP44 D33003/4000/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	4000	2120	20W	106	50°
294145 EmpireR IP44 D33003/2700/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	2700	2805	27W	104	50°
294146 EmpireR IP44 D33003/3000/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	3000	2830	27W	105	50°
294147 EmpireR IP44 D33003/3500/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	3500	2905	27W	108	50°
294148 EmpireR IP44 D33003/4000/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	4000	2965	27W	110	50°
294314 EmpireR IP44 D33002/BVF/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	BVF	1225	14W	88	45°
294315 EmpireR IP44 D33002/FBS/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	FBS	830	14W	60	45°
294316 EmpireR IP44 D33002/FZM/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	FZM	800	14W	58	45°
294317 EmpireR IP44 D33002/FSM/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSM	830	14W	60	45°
294318 EmpireR IP44 D33002/FSH/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSH	1180	14W	85	45°
294319 EmpireR IP44 D33002/BVF/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	BVF	1675	20W	84	45°
294320 EmpireR IP44 D33002/FBS/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	FBS	1155	20W	58	45°
294321 EmpireR IP44 D33002/FZM/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	FZM	1105	20W	56	45°
294322 EmpireR IP44 D33002/FSM/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSM	1130	20W	57	45°
294323 EmpireR IP44 D33002/FSH/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSH	1640	20W	82	45°
294324 EmpireR IP44 D33002/BVF/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	BVF	2220	27W	83	45°
294325 EmpireR IP44 D33002/FBS/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FBS	1515	27W	57	45°
294326 EmpireR IP44 D33002/FZM/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FZM	1455	27W	54	45°
294327 EmpireR IP44 D33002/FSM/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSM	1480	27W	55	45°
294328 EmpireR IP44 D33002/FSH/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSH	2170	27W	81	45°
294329 EmpireR IP44 D33003/BVF/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	BVF	1225	14W	88	50°
294330 EmpireR IP44 D33003/FBS/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	FBS	830	14W	60	50°
294331 EmpireR IP44 D33003/FZM/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	FZM	800	14W	58	50°
294332 EmpireR IP44 D33003/FSM/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSM	830	14W	60	50°
294333 EmpireR IP44 D33003/FSH/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSH	1180	14W	85	50°
294334 EmpireR IP44 D33003/BVF/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	BVF	1675	20W	84	50°
294335 EmpireR IP44 D33003/FBS/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	FBS	1155	20W	58	50°
294336 EmpireR IP44 D33003/FZM/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	FZM	1105	20W	56	50°
294337 EmpireR IP44 D33003/FSM/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSM	1130	20W	57	50°

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
<b>CRI 80</b>						
294338 EmpireR IP44 D33003/FSH/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSH	1640	20W	82	50°
294339 EmpireR IP44 D33003/BVF/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	BVF	2220	27W	83	50°
294340 EmpireR IP44 D33003/FBS/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	FBS	1515	27W	57	50°
294341 EmpireR IP44 D33003/FZM/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	FZM	1455	27W	54	50°
294342 EmpireR IP44 D33003/FSM/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSM	1480	27W	55	50°
294343 EmpireR IP44 D33003/FSH/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSH	2170	27W	81	50°
294344 EmpireR IP44 D33002/BVF/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	BVF	1225	14W	88	45°
294345 EmpireR IP44 D33002/FBS/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	FBS	830	14W	60	45°
294346 EmpireR IP44 D33002/FZM/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	FZM	800	14W	58	45°
294347 EmpireR IP44 D33002/FSM/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSM	830	14W	60	45°
294348 EmpireR IP44 D33002/FSH/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSH	1180	14W	85	45°
294349 EmpireR IP44 D33002/BVF/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	BVF	1675	20W	84	45°
294350 EmpireR IP44 D33002/FBS/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	FBS	1155	20W	58	45°
294351 EmpireR IP44 D33002/FZM/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	FZM	1105	20W	56	45°
294352 EmpireR IP44 D33002/FSM/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSM	1130	20W	57	45°
294353 EmpireR IP44 D33002/FSH/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSH	1640	20W	82	45°
294354 EmpireR IP44 D33002/BVF/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	BVF	2220	27W	83	45°
294355 EmpireR IP44 D33002/FBS/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FBS	1515	27W	57	45°
294356 EmpireR IP44 D33002/FZM/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FZM	1455	27W	54	45°
294357 EmpireR IP44 D33002/FSM/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSM	1480	27W	55	45°
294358 EmpireR IP44 D33002/FSH/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSH	2170	27W	81	45°
294359 EmpireR IP44 D33003/BVF/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	BVF	1225	14W	88	50°
294360 EmpireR IP44 D33003/FBS/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	FBS	830	14W	60	50°
294361 EmpireR IP44 D33003/FZM/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	FZM	800	14W	58	50°
294362 EmpireR IP44 D33003/FSM/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSM	830	14W	60	50°
294363 EmpireR IP44 D33003/FSH/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSH	1180	14W	85	50°
294364 EmpireR IP44 D33003/BVF/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	BVF	1675	20W	84	50°
294365 EmpireR IP44 D33003/FBS/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	FBS	1155	20W	58	50°
294366 EmpireR IP44 D33003/FZM/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	FZM	1105	20W	56	50°
294367 EmpireR IP44 D33003/FSM/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSM	1130	20W	57	50°
294368 EmpireR IP44 D33003/FSH/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSH	1640	20W	82	50°
294369 EmpireR IP44 D33003/BVF/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	BVF	2220	27W	83	50°
294370 EmpireR IP44 D33003/FBS/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	FBS	1515	27W	57	50°
294371 EmpireR IP44 D33003/FZM/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	FZM	1455	27W	54	50°
294372 EmpireR IP44 D33003/FSM/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSM	1480	27W	55	50°
294373 EmpireR IP44 D33003/FSH/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSH	2170	27W	81	50°

<b>CRI 93</b>						
294210 EmpireR IP44 D33001/AGI3000/12W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI3000	735	12W	62	25°
294211 EmpireR IP44 D33001/AGI3500/12W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI3500	780	12W	65	25°
294212 EmpireR IP44 D33001/AGI4000/12W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI4000	830	12W	70	25°
294213 EmpireR IP44 D33001/AGI3000/12W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI3000	735	12W	62	45°
294214 EmpireR IP44 D33001/AGI3500/12W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI3500	780	12W	65	45°
294215 EmpireR IP44 D33001/AGI4000/12W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI4000	830	12W	70	45°
294216 EmpireR IP44 D33001/AGI3000/17W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI3000	985	17W	58	25°
294217 EmpireR IP44 D33001/AGI3500/17W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI3500	1050	17W	62	25°
294218 EmpireR IP44 D33001/AGI4000/17W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI4000	1115	17W	66	25°
294219 EmpireR IP44 D33001/AGI3000/17W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI3000	985	17W	58	45°
294220 EmpireR IP44 D33001/AGI3500/17W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI3500	1050	17W	62	45°
294221 EmpireR IP44 D33001/AGI4000/17W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI4000	1115	17W	66	45°
294222 EmpireR IP44 D33002/AGI3000/12W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3000	735	12W	62	45°
294223 EmpireR IP44 D33002/AGI3500/12W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3500	780	12W	65	45°

SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
<b>CRI 93</b>						
294224 EmpireR IP44 D33002/AGI4000/12W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI4000	830	12W	70	45°
294225 EmpireR IP44 D33002/AGI3000/17W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3000	985	17W	58	45°
294226 EmpireR IP44 D33002/AGI3500/17W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3500	1050	17W	62	45°
294227 EmpireR IP44 D33002/AGI4000/17W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI4000	1115	17W	66	45°
294228 EmpireR IP44 D33002/AGI3000/23W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3000	1330	23W	58	45°
294229 EmpireR IP44 D33002/AGI3500/23W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3500	1440	23W	63	45°
294230 EmpireR IP44 D33002/AGI4000/23W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI4000	1550	23W	68	45°
294231 EmpireR IP44 D33003/AGI3000/12W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3000	735	12W	62	50°
294232 EmpireR IP44 D33003/AGI3500/12W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3500	780	12W	65	50°
294233 EmpireR IP44 D33003/AGI4000/12W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI4000	830	12W	70	50°
294234 EmpireR IP44 D33003/AGI3000/17W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3000	985	17W	58	50°
294235 EmpireR IP44 D33003/AGI3500/17W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3500	1050	17W	62	50°
294236 EmpireR IP44 D33003/AGI4000/17W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI4000	1115	17W	66	50°
294237 EmpireR IP44 D33003/AGI3000/23W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3000	1330	23W	58	50°
294238 EmpireR IP44 D33003/AGI3500/23W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3500	1440	23W	63	50°
294239 EmpireR IP44 D33003/AGI4000/23W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI4000	1550	23W	68	50°
294240 EmpireR IP44 D33001/AGI3000/12W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI3000	735	12W	62	25°
294241 EmpireR IP44 D33001/AGI3500/12W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI3500	780	12W	65	25°
294242 EmpireR IP44 D33001/AGI4000/12W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI4000	830	12W	70	25°
294243 EmpireR IP44 D33001/AGI3000/12W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI3000	735	12W	62	45°
294244 EmpireR IP44 D33001/AGI3500/12W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI3500	780	12W	65	45°
294245 EmpireR IP44 D33001/AGI4000/12W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI4000	830	12W	70	45°
294246 EmpireR IP44 D33001/AGI3000/17W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI3000	985	17W	58	25°
294247 EmpireR IP44 D33001/AGI3500/17W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI3500	1050	17W	62	25°
294248 EmpireR IP44 D33001/AGI4000/17W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI4000	1115	17W	66	25°
294249 EmpireR IP44 D33001/AGI3000/17W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI3000	985	17W	58	45°
294250 EmpireR IP44 D33001/AGI3500/17W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI3500	1050	17W	62	45°
294251 EmpireR IP44 D33001/AGI4000/17W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI4000	1115	17W	66	45°
294252 EmpireR IP44 D33002/AGI3000/12W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3000	735	12W	62	45°
294253 EmpireR IP44 D33002/AGI3500/12W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3500	780	12W	65	45°
294254 EmpireR IP44 D33002/AGI4000/12W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI4000	830	12W	70	45°
294255 EmpireR IP44 D33002/AGI3000/17W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3000	985	17W	58	45°
294256 EmpireR IP44 D33002/AGI3500/17W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3500	1050	17W	62	45°
294257 EmpireR IP44 D33002/AGI4000/17W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI4000	1115	17W	66	45°
294258 EmpireR IP44 D33002/AGI3000/23W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3000	1330	23W	58	45°
294259 EmpireR IP44 D33002/AGI3500/23W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3500	1440	23W	63	45°
294260 EmpireR IP44 D33002/AGI4000/23W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI4000	1550	23W	68	45°
294261 EmpireR IP44 D33003/AGI3000/12W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3000	735	12W	62	50°
294262 EmpireR IP44 D33003/AGI3500/12W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3500	780	12W	65	50°
294263 EmpireR IP44 D33003/AGI4000/12W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI4000	830	12W	70	50°
294264 EmpireR IP44 D33003/AGI3000/17W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3000	985	17W	58	50°
294265 EmpireR IP44 D33003/AGI3500/17W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3500	1050	17W	62	50°
294266 EmpireR IP44 D33003/AGI4000/17W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI4000	1115	17W	66	50°
294267 EmpireR IP44 D33003/AGI3000/23W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3000	1330	23W	58	50°
294268 EmpireR IP44 D33003/AGI3500/23W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3500	1440	23W	63	50°
294269 EmpireR IP44 D33003/AGI4000/23W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI4000	1550	23W	68	50°
<b>CRI 95</b>						
294160 EmpireR IP44 D33001/FAS/14W/95/A25/EM1H	D95xH91xØ85mm±1mm	FAS	1045	14W	75	25°
294161 EmpireR IP44 D33001/FAS/14W/95/A45/EM1H	D95xH91xØ85mm±1mm	FAS	1045	14W	75	45°
294162 EmpireR IP44 D33001/FAS/20W/95/A25/EM1H	D95xH91xØ85mm±1mm	FAS	1430	20W	72	25°
294163 EmpireR IP44 D33001/FAS/20W/95/A45/EM1H	D95xH91xØ85mm±1mm	FAS	1430	20W	72	45°

## SKU SPECIFICATIONS

Product Code	Dimensions (mm)	CCT (K)	Lumens (lm)	Power (W)	Eff. (lm/watt)	Lens Angle (°)
<b>CRI 95</b>						
294164 EmpireR IP44 D33002/FAS/14W/95/A45/EM1H	D125xH111xØ115mm±1mm	FAS	1165	14W	84	45°
294165 EmpireR IP44 D33002/FAS/20W/95/A45/EM1H	D125xH111xØ115mm±1mm	FAS	1610	20W	81	45°
294166 EmpireR IP44 D33002/FAS/27W/95/A45/EM1H	D125xH111xØ115mm±1mm	FAS	2335	27W	87	45°
294167 EmpireR IP44 D33003/FAS/14W/95/A50/EM1H	D151xH128xØ140mm±1mm	FAS	1165	14W	84	50°
294168 EmpireR IP44 D33003/FAS/20W/95/A50/EM1H	D151xH128xØ140mm±1mm	FAS	1610	20W	81	50°
294169 EmpireR IP44 D33003/FAS/27W/95/A50/EM1H	D151xH128xØ140mm±1mm	FAS	2335	27W	87	50°
294170 EmpireR IP44 D33001/FAS/14W/95/A25/EM3H	D95xH91xØ85mm±1mm	FAS	1045	14W	75	25°
294171 EmpireR IP44 D33001/FAS/14W/95/A45/EM3H	D95xH91xØ85mm±1mm	FAS	1045	14W	75	45°
294172 EmpireR IP44 D33001/FAS/20W/95/A25/EM3H	D95xH91xØ85mm±1mm	FAS	1430	20W	72	25°
294173 EmpireR IP44 D33001/FAS/20W/95/A45/EM3H	D95xH91xØ85mm±1mm	FAS	1430	20W	72	45°
294174 EmpireR IP44 D33002/FAS/14W/95/A45/EM3H	D125xH111xØ115mm±1mm	FAS	1165	14W	84	45°
294175 EmpireR IP44 D33002/FAS/20W/95/A45/EM3H	D125xH111xØ115mm±1mm	FAS	1610	20W	81	45°
294176 EmpireR IP44 D33002/FAS/27W/95/A45/EM3H	D125xH111xØ115mm±1mm	FAS	2335	27W	87	45°
294177 EmpireR IP44 D33003/FAS/14W/95/A50/EM3H	D151xH128xØ140mm±1mm	FAS	1165	14W	84	50°
294178 EmpireR IP44 D33003/FAS/20W/95/A50/EM3H	D151xH128xØ140mm±1mm	FAS	1610	20W	81	50°
294179 EmpireR IP44 D33003/FAS/27W/95/A50/EM3H	D151xH128xØ140mm±1mm	FAS	2335	27W	87	50°
<b>CRI 98</b>						
294387 EmpireR IP44 D33002/ART3000/14W/98/A45/EM1H	D125xH111xØ115mm±1mm	ART3000	1160	14W	83	45°
294389 EmpireR IP44 D33002/ART3000/20W/98/A45/EM1H	D125xH111xØ115mm±1mm	ART3000	1600	20W	80	45°
294391 EmpireR IP44 D33002/ART3000/27W/98/A45/EM1H	D125xH111xØ115mm±1mm	ART3000	2155	27W	80	45°
294393 EmpireR IP44 D33003/ART3000/14W/98/A50/EM1H	D151xH128xØ140mm±1mm	ART3000	1160	14W	83	50°
294395 EmpireR IP44 D33003/ART3000/20W/98/A50/EM1H	D151xH128xØ140mm±1mm	ART3000	1600	20W	80	50°
294397 EmpireR IP44 D33003/ART3000/27W/98/A50/EM1H	D151xH128xØ140mm±1mm	ART3000	2155	27W	80	50°
294399 EmpireR IP44 D33002/ART3000/14W/98/A45/EM3H	D125xH111xØ115mm±1mm	ART3000	1160	14W	83	45°
294401 EmpireR IP44 D33002/ART3000/20W/98/A45/EM3H	D125xH111xØ115mm±1mm	ART3000	1600	20W	80	45°
294403 EmpireR IP44 D33002/ART3000/27W/98/A45/EM3H	D125xH111xØ115mm±1mm	ART3000	2155	27W	80	45°
294405 EmpireR IP44 D33003/ART3000/14W/98/A50/EM3H	D151xH128xØ140mm±1mm	ART3000	1160	14W	83	50°
294407 EmpireR IP44 D33003/ART3000/20W/98/A50/EM3H	D151xH128xØ140mm±1mm	ART3000	1600	20W	80	50°
294409 EmpireR IP44 D33003/ART3000/27W/98/A50/EM3H	D151xH128xØ140mm±1mm	ART3000	2155	27W	80	50°

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