



## Empire R IP44

### RECESSED DOWNLIGHTS | NON-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:

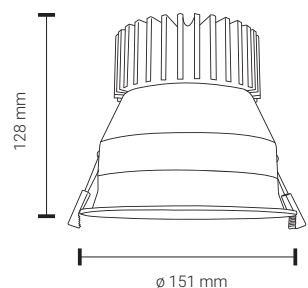
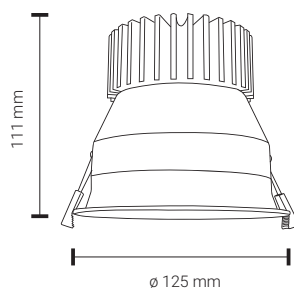
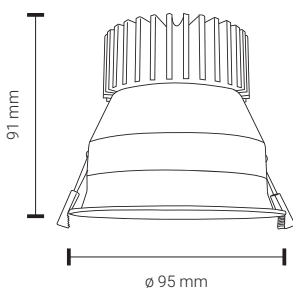
- Empire R IP 44 Non-DALI – the standard for any project in the retail, health or hospitality sectors
- Empire R IP44 Non-DALI EM – with emergency lighting kit of 1h and 3 h
- Empire R IP44 DALI – with DALI controls for illumination adjustments
- Empire R IP44 DALI EM - with both dimming and emergency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

### APPLICATION

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



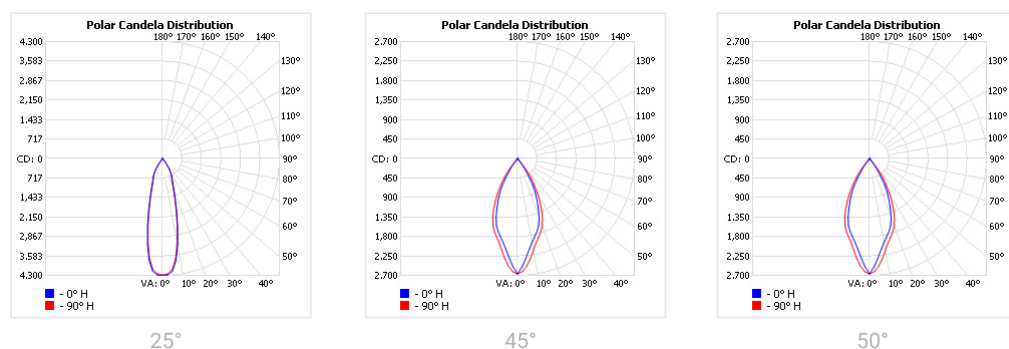
**SPECIFICATIONS**

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	-		
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>						
194050 EmpireR IP44 D33001/2700/14W/80/A25/EM1H	D95xH91xØ85mm±1mm	2700	1200	14W	86	25°
194051 EmpireR IP44 D33001/3000/14W/80/A25/EM1H	D95xH91xØ85mm±1mm	3000	1215	14W	87	25°
194052 EmpireR IP44 D33001/3500/14W/80/A25/EM1H	D95xH91xØ85mm±1mm	3500	1245	14W	89	25°
194053 EmpireR IP44 D33001/4000/14W/80/A25/EM1H	D95xH91xØ85mm±1mm	4000	1270	14W	91	25°
194055 EmpireR IP44 D33001/2700/14W/80/A45/EM1H	D95xH91xØ85mm±1mm	2700	1200	14W	86	45°
194056 EmpireR IP44 D33001/3000/14W/80/A45/EM1H	D95xH91xØ85mm±1mm	3000	1215	14W	87	45°
194057 EmpireR IP44 D33001/3500/14W/80/A45/EM1H	D95xH91xØ85mm±1mm	3500	1245	14W	89	45°
194058 EmpireR IP44 D33001/4000/14W/80/A45/EM1H	D95xH91xØ85mm±1mm	4000	1270	14W	91	45°
194060 EmpireR IP44 D33001/2700/20W/80/A25/EM1H	D95xH91xØ85mm±1mm	2700	1650	20W	83	25°
194061 EmpireR IP44 D33001/3000/20W/80/A25/EM1H	D95xH91xØ85mm±1mm	3000	1665	20W	84	25°
194062 EmpireR IP44 D33001/3500/20W/80/A25/EM1H	D95xH91xØ85mm±1mm	3500	1710	20W	86	25°
194063 EmpireR IP44 D33001/4000/20W/80/A25/EM1H	D95xH91xØ85mm±1mm	4000	1745	20W	88	25°
194065 EmpireR IP44 D33001/2700/20W/80/A45/EM1H	D95xH91xØ85mm±1mm	2700	1650	20W	83	45°
194066 EmpireR IP44 D33001/3000/20W/80/A45/EM1H	D95xH91xØ85mm±1mm	3000	1665	20W	84	45°
194067 EmpireR IP44 D33001/3500/20W/80/A45/EM1H	D95xH91xØ85mm±1mm	3500	1710	20W	86	45°
194068 EmpireR IP44 D33001/4000/20W/80/A45/EM1H	D95xH91xØ85mm±1mm	4000	1745	20W	88	45°
194100 EmpireR IP44 D33001/2700/14W/80/A25/EM3H	D95xH91xØ85mm±1mm	2700	1200	14W	86	25°
194101 EmpireR IP44 D33001/3000/14W/80/A25/EM3H	D95xH91xØ85mm±1mm	3000	1215	14W	87	25°
194102 EmpireR IP44 D33001/3500/14W/80/A25/EM3H	D95xH91xØ85mm±1mm	3500	1245	14W	89	25°
194103 EmpireR IP44 D33001/4000/14W/80/A25/EM3H	D95xH91xØ85mm±1mm	4000	1270	14W	91	25°
194105 EmpireR IP44 D33001/2700/14W/80/A45/EM3H	D95xH91xØ85mm±1mm	2700	1200	14W	86	45°
194106 EmpireR IP44 D33001/3000/14W/80/A45/EM3H	D95xH91xØ85mm±1mm	3000	1215	14W	87	45°
194107 EmpireR IP44 D33001/3500/14W/80/A45/EM3H	D95xH91xØ85mm±1mm	3500	1245	14W	89	45°
194108 EmpireR IP44 D33001/4000/14W/80/A45/EM3H	D95xH91xØ85mm±1mm	4000	1270	14W	91	45°
194110 EmpireR IP44 D33001/2700/20W/80/A25/EM3H	D95xH91xØ85mm±1mm	2700	1650	20W	83	25°
194111 EmpireR IP44 D33001/3000/20W/80/A25/EM3H	D95xH91xØ85mm±1mm	3000	1665	20W	84	25°
194112 EmpireR IP44 D33001/3500/20W/80/A25/EM3H	D95xH91xØ85mm±1mm	3500	1710	20W	86	25°
194113 EmpireR IP44 D33001/4000/20W/80/A25/EM3H	D95xH91xØ85mm±1mm	4000	1745	20W	88	25°
194115 EmpireR IP44 D33001/2700/20W/80/A45/EM3H	D95xH91xØ85mm±1mm	2700	1650	20W	83	45°
194116 EmpireR IP44 D33001/3000/20W/80/A45/EM3H	D95xH91xØ85mm±1mm	3000	1665	20W	84	45°
194117 EmpireR IP44 D33001/3500/20W/80/A45/EM3H	D95xH91xØ85mm±1mm	3500	1710	20W	86	45°
194118 EmpireR IP44 D33001/4000/20W/80/A45/EM3H	D95xH91xØ85mm±1mm	4000	1745	20W	88	45°
194070 EmpireR IP44 D33002/2700/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	2700	1440	14W	103	45°
194071 EmpireR IP44 D33002/3000/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	3000	1455	14W	104	45°
194072 EmpireR IP44 D33002/3500/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	3500	1495	14W	107	45°
194073 EmpireR IP44 D33002/4000/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	4000	1525	14W	109	45°
194075 EmpireR IP44 D33002/2700/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	2700	2010	20W	101	45°
194076 EmpireR IP44 D33002/3000/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	3000	2025	20W	102	45°
194077 EmpireR IP44 D33002/3500/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	3500	2080	20W	104	45°
194078 EmpireR IP44 D33002/4000/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	4000	2120	20W	106	45°
194080 EmpireR IP44 D33002/2700/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	2700	2805	27W	104	45°
194081 EmpireR IP44 D33002/3000/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	3000	2830	27W	105	45°
194082 EmpireR IP44 D33002/3500/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	3500	2905	27W	108	45°
194083 EmpireR IP44 D33002/4000/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	4000	2965	27W	110	45°
194120 EmpireR IP44 D33002/2700/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	2700	1440	14W	103	45°
194121 EmpireR IP44 D33002/3000/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	3000	1455	14W	104	45°
194122 EmpireR IP44 D33002/3500/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	3500	1495	14W	107	45°
194123 EmpireR IP44 D33002/4000/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	4000	1525	14W	109	45°
194125 EmpireR IP44 D33002/2700/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	2700	2010	20W	101	45°
194126 EmpireR IP44 D33002/3000/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	3000	2025	20W	102	45°
194127 EmpireR IP44 D33002/3500/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	3500	2080	20W	104	45°
194128 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>						
194130 EmpireR IP44 D33002/2700/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	2700	2805	27W	104	45°
194131 EmpireR IP44 D33002/3000/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	3000	2830	27W	105	45°
194132 EmpireR IP44 D33002/3500/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	3500	2905	27W	108	45°
194133 EmpireR IP44 D33002/4000/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	4000	2965	27W	110	45°
194085 EmpireR IP44 D33003/2700/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	2700	1440	14W	103	50°
194086 EmpireR IP44 D33003/3000/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	3000	1455	14W	104	50°
194087 EmpireR IP44 D33003/3500/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	3500	1495	14W	107	50°
194088 EmpireR IP44 D33003/4000/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	4000	1525	14W	109	50°
194090 EmpireR IP44 D33003/2700/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	2700	2010	20W	101	50°
194091 EmpireR IP44 D33003/3000/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	3000	2025	20W	102	50°
194092 EmpireR IP44 D33003/3500/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	3500	2080	20W	104	50°
194093 EmpireR IP44 D33003/4000/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	4000	2120	20W	106	50°
194095 EmpireR IP44 D33003/2700/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	2700	2805	27W	104	50°
194096 EmpireR IP44 D33003/3000/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	3000	2830	27W	105	50°
194097 EmpireR IP44 D33003/3500/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	3500	2905	27W	108	50°
194098 EmpireR IP44 D33003/4000/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	4000	2965	27W	110	50°
194135 EmpireR IP44 D33003/2700/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	2700	1440	14W	103	50°
194136 EmpireR IP44 D33003/3000/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	3000	1455	14W	104	50°
194137 EmpireR IP44 D33003/3500/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	3500	1495	14W	107	50°
194138 EmpireR IP44 D33003/4000/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	4000	1525	14W	109	50°
194140 EmpireR IP44 D33003/2700/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	2700	2010	20W	101	50°
194141 EmpireR IP44 D33003/3000/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	3000	2025	20W	102	50°
194142 EmpireR IP44 D33003/3500/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	3500	2080	20W	104	50°
194143 EmpireR IP44 D33003/4000/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	4000	2120	20W	106	50°
194145 EmpireR IP44 D33003/2700/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	2700	2805	27W	104	50°
194146 EmpireR IP44 D33003/3000/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	3000	2830	27W	105	50°
194147 EmpireR IP44 D33003/3500/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	3500	2905	27W	108	50°
194148 EmpireR IP44 D33003/4000/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	4000	2965	27W	110	50°
194314 EmpireR IP44 D33002/BVF/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	BVF	1225	14W	88	45°
194315 EmpireR IP44 D33002/FBS/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	FBS	830	14W	60	45°
194316 EmpireR IP44 D33002/FZM/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	FZM	800	14W	58	45°
194317 EmpireR IP44 D33002/FSM/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSM	830	14W	60	45°
194318 EmpireR IP44 D33002/FSH/14W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSH	1180	14W	85	45°
194319 EmpireR IP44 D33002/BVF/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	BVF	1675	20W	84	45°
194320 EmpireR IP44 D33002/FBS/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	FBS	1155	20W	58	45°
194321 EmpireR IP44 D33002/FZM/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	FZM	1105	20W	56	45°
194322 EmpireR IP44 D33002/FSM/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSM	1130	20W	57	45°
194323 EmpireR IP44 D33002/FSH/20W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSH	1640	20W	82	45°
194324 EmpireR IP44 D33002/BVF/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	BVF	2220	27W	83	45°
194325 EmpireR IP44 D33002/FBS/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FBS	1515	27W	57	45°
194326 EmpireR IP44 D33002/FZM/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FZM	1455	27W	54	45°
194327 EmpireR IP44 D33002/FSM/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSM	1480	27W	55	45°
194328 EmpireR IP44 D33002/FSH/27W/80/A45/EM1H	D125xH111xØ115mm±1mm	FSH	2170	27W	81	45°
194329 EmpireR IP44 D33003/BVF/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	BVF	1225	14W	88	50°
194330 EmpireR IP44 D33003/FBS/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	FBS	830	14W	60	50°
194331 EmpireR IP44 D33003/FZM/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	FZM	800	14W	58	50°
194332 EmpireR IP44 D33003/FSM/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSM	830	14W	60	50°
194333 EmpireR IP44 D33003/FSH/14W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSH	1180	14W	85	50°
194334 EmpireR IP44 D33003/BVF/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	BVF	1675	20W	84	50°
194335 EmpireR IP44 D33003/FBS/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	FBS	1155	20W	58	50°
194336 EmpireR IP44 D33003/FZM/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	FZM	1105	20W	56	50°
194337 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>						
194338 EmpireR IP44 D33003/FSH/20W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSH	1640	20W	82	50°
194339 EmpireR IP44 D33003/BVF/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	BVF	2220	27W	83	50°
194340 EmpireR IP44 D33003/FBS/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	FBS	1515	27W	57	50°
194341 EmpireR IP44 D33003/FZM/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	FZM	1455	27W	54	50°
194342 EmpireR IP44 D33003/FSM/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSM	1480	27W	55	50°
194343 EmpireR IP44 D33003/FSH/27W/80/A50/EM1H	D151xH128xØ140mm±1mm	FSH	2170	27W	81	50°
194344 EmpireR IP44 D33002/BVF/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	BVF	1225	14W	88	45°
194345 EmpireR IP44 D33002/FBS/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	FBS	830	14W	60	45°
194346 EmpireR IP44 D33002/FZM/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	FZM	800	14W	58	45°
194347 EmpireR IP44 D33002/FSM/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSM	830	14W	60	45°
194348 EmpireR IP44 D33002/FSH/14W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSH	1180	14W	85	45°
194349 EmpireR IP44 D33002/BVF/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	BVF	1675	20W	84	45°
194350 EmpireR IP44 D33002/FBS/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	FBS	1155	20W	58	45°
194351 EmpireR IP44 D33002/FZM/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	FZM	1105	20W	56	45°
194352 EmpireR IP44 D33002/FSM/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSM	1130	20W	57	45°
194353 EmpireR IP44 D33002/FSH/20W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSH	1640	20W	82	45°
194354 EmpireR IP44 D33002/BVF/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	BVF	2220	27W	83	45°
194355 EmpireR IP44 D33002/FBS/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FBS	1515	27W	57	45°
194356 EmpireR IP44 D33002/FZM/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FZM	1455	27W	54	45°
194357 EmpireR IP44 D33002/FSM/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSM	1480	27W	55	45°
194358 EmpireR IP44 D33002/FSH/27W/80/A45/EM3H	D125xH111xØ115mm±1mm	FSH	2170	27W	81	45°
194359 EmpireR IP44 D33003/BVF/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	BVF	1225	14W	88	50°
194360 EmpireR IP44 D33003/FBS/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	FBS	830	14W	60	50°
194361 EmpireR IP44 D33003/FZM/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	FZM	800	14W	58	50°
194362 EmpireR IP44 D33003/FSM/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSM	830	14W	60	50°
194363 EmpireR IP44 D33003/FSH/14W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSH	1180	14W	85	50°
194364 EmpireR IP44 D33003/BVF/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	BVF	1675	20W	84	50°
194365 EmpireR IP44 D33003/FBS/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	FBS	1155	20W	58	50°
194366 EmpireR IP44 D33003/FZM/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	FZM	1105	20W	56	50°
194367 EmpireR IP44 D33003/FSM/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSM	1130	20W	57	50°
194368 EmpireR IP44 D33003/FSH/20W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSH	1640	20W	82	50°
194369 EmpireR IP44 D33003/BVF/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	BVF	2220	27W	83	50°
194370 EmpireR IP44 D33003/FBS/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	FBS	1515	27W	57	50°
194371 EmpireR IP44 D33003/FZM/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	FZM	1455	27W	54	50°
194372 EmpireR IP44 D33003/FSM/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSM	1480	27W	55	50°
194373 EmpireR IP44 D33003/FSH/27W/80/A50/EM3H	D151xH128xØ140mm±1mm	FSH	2170	27W	81	50°

<b>CRI 93</b>						
194210 EmpireR IP44 D33001/AGI3000/12W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI3000	735	12W	62	25°
194211 EmpireR IP44 D33001/AGI3500/12W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI3500	780	12W	65	25°
194212 EmpireR IP44 D33001/AGI4000/12W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI4000	830	12W	70	25°
194213 EmpireR IP44 D33001/AGI3000/12W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI3000	735	12W	62	45°
194214 EmpireR IP44 D33001/AGI3500/12W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI3500	780	12W	65	45°
194215 EmpireR IP44 D33001/AGI4000/12W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI4000	830	12W	70	45°
194216 EmpireR IP44 D33001/AGI3000/17W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI3000	985	17W	58	25°
194217 EmpireR IP44 D33001/AGI3500/17W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI3500	1050	17W	62	25°
194218 EmpireR IP44 D33001/AGI4000/17W/93/A25/EM1H	D95xH91xØ85mm±1mm	AGI4000	1115	17W	66	25°
194219 EmpireR IP44 D33001/AGI3000/17W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI3000	985	17W	58	45°
194220 EmpireR IP44 D33001/AGI3500/17W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI3500	1050	17W	62	45°
194221 EmpireR IP44 D33001/AGI4000/17W/93/A45/EM1H	D95xH91xØ85mm±1mm	AGI4000	1115	17W	66	45°
194222 EmpireR IP44 D33002/AGI3000/12W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3000	735	12W	62	45°
194223 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>						
194224 EmpireR IP44 D33002/AGI4000/12W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI4000	830	12W	70	45°
194225 EmpireR IP44 D33002/AGI3000/17W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3000	985	17W	58	45°
194226 EmpireR IP44 D33002/AGI3500/17W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3500	1050	17W	62	45°
194227 EmpireR IP44 D33002/AGI4000/17W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI4000	1115	17W	66	45°
194228 EmpireR IP44 D33002/AGI3000/23W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3000	1330	23W	58	45°
194229 EmpireR IP44 D33002/AGI3500/23W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI3500	1440	23W	63	45°
194230 EmpireR IP44 D33002/AGI4000/23W/93/A45/EM1H	D125xH111xØ115mm±1mm	AGI4000	1550	23W	68	45°
194231 EmpireR IP44 D33003/AGI3000/12W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3000	735	12W	62	50°
194232 EmpireR IP44 D33003/AGI3500/12W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3500	780	12W	65	50°
194233 EmpireR IP44 D33003/AGI4000/12W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI4000	830	12W	70	50°
194234 EmpireR IP44 D33003/AGI3000/17W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3000	985	17W	58	50°
194235 EmpireR IP44 D33003/AGI3500/17W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3500	1050	17W	62	50°
194236 EmpireR IP44 D33003/AGI4000/17W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI4000	1115	17W	66	50°
194237 EmpireR IP44 D33003/AGI3000/23W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3000	1330	23W	58	50°
194238 EmpireR IP44 D33003/AGI3500/23W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI3500	1440	23W	63	50°
194239 EmpireR IP44 D33003/AGI4000/23W/93/A50/EM1H	D151xH128xØ140mm±1mm	AGI4000	1550	23W	68	50°
194240 EmpireR IP44 D33001/AGI3000/12W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI3000	735	12W	62	25°
194241 EmpireR IP44 D33001/AGI3500/12W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI3500	780	12W	65	25°
194242 EmpireR IP44 D33001/AGI4000/12W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI4000	830	12W	70	25°
194243 EmpireR IP44 D33001/AGI3000/12W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI3000	735	12W	62	45°
194244 EmpireR IP44 D33001/AGI3500/12W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI3500	780	12W	65	45°
194245 EmpireR IP44 D33001/AGI4000/12W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI4000	830	12W	70	45°
194246 EmpireR IP44 D33001/AGI3000/17W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI3000	985	17W	58	25°
194247 EmpireR IP44 D33001/AGI3500/17W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI3500	1050	17W	62	25°
194248 EmpireR IP44 D33001/AGI4000/17W/93/A25/EM3H	D95xH91xØ85mm±1mm	AGI4000	1115	17W	66	25°
194249 EmpireR IP44 D33001/AGI3000/17W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI3000	985	17W	58	45°
194250 EmpireR IP44 D33001/AGI3500/17W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI3500	1050	17W	62	45°
194251 EmpireR IP44 D33001/AGI4000/17W/93/A45/EM3H	D95xH91xØ85mm±1mm	AGI4000	1115	17W	66	45°
194252 EmpireR IP44 D33002/AGI3000/12W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3000	735	12W	62	45°
194253 EmpireR IP44 D33002/AGI3500/12W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3500	780	12W	65	45°
194254 EmpireR IP44 D33002/AGI4000/12W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI4000	830	12W	70	45°
194255 EmpireR IP44 D33002/AGI3000/17W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3000	985	17W	58	45°
194256 EmpireR IP44 D33002/AGI3500/17W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3500	1050	17W	62	45°
194257 EmpireR IP44 D33002/AGI4000/17W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI4000	1115	17W	66	45°
194258 EmpireR IP44 D33002/AGI3000/23W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3000	1330	23W	58	45°
194259 EmpireR IP44 D33002/AGI3500/23W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI3500	1440	23W	63	45°
194260 EmpireR IP44 D33002/AGI4000/23W/93/A45/EM3H	D125xH111xØ115mm±1mm	AGI4000	1550	23W	68	45°
194261 EmpireR IP44 D33003/AGI3000/12W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3000	735	12W	62	50°
194262 EmpireR IP44 D33003/AGI3500/12W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3500	780	12W	65	50°
194263 EmpireR IP44 D33003/AGI4000/12W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI4000	830	12W	70	50°
194264 EmpireR IP44 D33003/AGI3000/17W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3000	985	17W	58	50°
194265 EmpireR IP44 D33003/AGI3500/17W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3500	1050	17W	62	50°
194266 EmpireR IP44 D33003/AGI4000/17W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI4000	1115	17W	66	50°
194267 EmpireR IP44 D33003/AGI3000/23W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3000	1330	23W	58	50°
194268 EmpireR IP44 D33003/AGI3500/23W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI3500	1440	23W	63	50°
194269 EmpireR IP44 D33003/AGI4000/23W/93/A50/EM3H	D151xH128xØ140mm±1mm	AGI4000	1550	23W	68	50°
<b>CRI 95</b>						
194160 EmpireR IP44 D33001/FAS/14W/95/A25/EM1H	D95xH91xØ85mm±1mm	FAS	1045	14W	75	25°
194161 EmpireR IP44 D33001/FAS/14W/95/A45/EM1H	D95xH91xØ85mm±1mm	FAS	1045	14W	75	45°
194162 EmpireR IP44 D33001/FAS/20W/95/A25/EM1H	D95xH91xØ85mm±1mm	FAS	1430	20W	72	25°
194163 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>						
194164 EmpireR IP44 D33002/FAS/14W/95/A45/EM1H	D125xH111xØ115mm±1mm	FAS	1165	14W	84	45°
194165 EmpireR IP44 D33002/FAS/20W/95/A45/EM1H	D125xH111xØ115mm±1mm	FAS	1610	20W	81	45°
194166 EmpireR IP44 D33002/FAS/27W/95/A45/EM1H	D125xH111xØ115mm±1mm	FAS	2335	27W	87	45°
194167 EmpireR IP44 D33003/FAS/14W/95/A50/EM1H	D151xH128xØ140mm±1mm	FAS	1165	14W	84	50°
194168 EmpireR IP44 D33003/FAS/20W/95/A50/EM1H	D151xH128xØ140mm±1mm	FAS	1610	20W	81	50°
194169 EmpireR IP44 D33003/FAS/27W/95/A50/EM1H	D151xH128xØ140mm±1mm	FAS	2335	27W	87	50°
194170 EmpireR IP44 D33001/FAS/14W/95/A25/EM3H	D95xH91xØ85mm±1mm	FAS	1045	14W	75	25°
194171 EmpireR IP44 D33001/FAS/14W/95/A45/EM3H	D95xH91xØ85mm±1mm	FAS	1045	14W	75	45°
194172 EmpireR IP44 D33001/FAS/20W/95/A25/EM3H	D95xH91xØ85mm±1mm	FAS	1430	20W	72	25°
194173 EmpireR IP44 D33001/FAS/20W/95/A45/EM3H	D95xH91xØ85mm±1mm	FAS	1430	20W	72	45°
194174 EmpireR IP44 D33002/FAS/14W/95/A45/EM3H	D125xH111xØ115mm±1mm	FAS	1165	14W	84	45°
194175 EmpireR IP44 D33002/FAS/20W/95/A45/EM3H	D125xH111xØ115mm±1mm	FAS	1610	20W	81	45°
194176 EmpireR IP44 D33002/FAS/27W/95/A45/EM3H	D125xH111xØ115mm±1mm	FAS	2335	27W	87	45°
194177 EmpireR IP44 D33003/FAS/14W/95/A50/EM3H	D151xH128xØ140mm±1mm	FAS	1165	14W	84	50°
194178 EmpireR IP44 D33003/FAS/20W/95/A50/EM3H	D151xH128xØ140mm±1mm	FAS	1610	20W	81	50°
194179 EmpireR IP44 D33003/FAS/27W/95/A50/EM3H	D151xH128xØ140mm±1mm	FAS	2335	27W	87	50°
<b>CRI 98</b>						
194387 EmpireR IP44 D33002/ART3000/14W/98/A45/EM1H	D125xH111xØ115mm±1mm	ART3000	1160	14W	83	45°
194389 EmpireR IP44 D33002/ART3000/20W/98/A45/EM1H	D125xH111xØ115mm±1mm	ART3000	1600	20W	80	45°
194391 EmpireR IP44 D33002/ART3000/27W/98/A45/EM1H	D125xH111xØ115mm±1mm	ART3000	2155	27W	80	45°
194393 EmpireR IP44 D33003/ART3000/14W/98/A50/EM1H	D151xH128xØ140mm±1mm	ART3000	1160	14W	83	50°
194395 EmpireR IP44 D33003/ART3000/20W/98/A50/EM1H	D151xH128xØ140mm±1mm	ART3000	1600	20W	80	50°
194397 EmpireR IP44 D33003/ART3000/27W/98/A50/EM1H	D151xH128xØ140mm±1mm	ART3000	2155	27W	80	50°
194399 EmpireR IP44 D33002/ART3000/14W/98/A45/EM3H	D125xH111xØ115mm±1mm	ART3000	1160	14W	83	45°
194401 EmpireR IP44 D33002/ART3000/20W/98/A45/EM3H	D125xH111xØ115mm±1mm	ART3000	1600	20W	80	45°
194403 EmpireR IP44 D33002/ART3000/27W/98/A45/EM3H	D125xH111xØ115mm±1mm	ART3000	2155	27W	80	45°
194405 EmpireR IP44 D33003/ART3000/14W/98/A50/EM3H	D151xH128xØ140mm±1mm	ART3000	1160	14W	83	50°
194407 EmpireR IP44 D33003/ART3000/20W/98/A50/EM3H	D151xH128xØ140mm±1mm	ART3000	1600	20W	80	50°
194409 EmpireR IP44 D33003/ART3000/27W/98/A50/EM3H	D151xH128xØ140mm±1mm	ART3000	2155	27W	80	50°

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