



# 510S square LED recessed downlight

The LED luminaire compatible to PLC, CFL and halogen recessed downlight for indoor lighting applications.



## General Characteristic

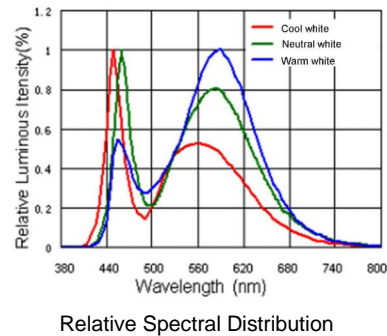
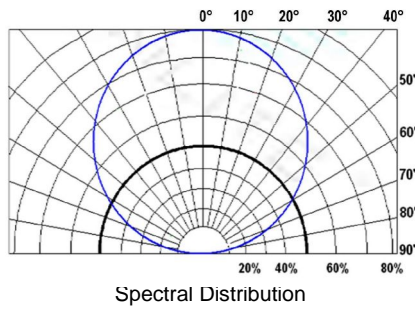
Material of housing	Anodized aluminum heatsink integrated with LED module fitted with white color trim
Trim color	Opaque white
Diffuser	Optical grade polycarbonate
Rated life span	50000 hours (accumulative)
Ingress protection	IP44
Industrial standard	IEC 62384 / LM-80
Certification	CE, RoHS, FCC

## Light Characteristic

Light source	SMD 2835
Color rendering index	CRI ≥80 Ra
Color temperature	3200K (K3); 4200K (K4); 6500K
Luminous efficacy	90 lumen per watt
Beam angle	120 degrees
Uniformity (μO)	>0.4
RF interference	Free

## Electrical Characteristic

Input power	85~265VAC, 50/60Hz
Power supply	External standard or TRIAC dimmable driver
Power	8.0W (rated); 8.9W (system)
Power factor	≥0.9
Operation temp	-20°C ~+50°C
Overload protection	95%~108% constant current limiting, auto-
Over voltage protection	110%~140% rated output voltage
Operation humidity	95% Rh @-20°C to 50°C
Wire interface	No polarity
Safety standards	EN60950-1, EN61347-1-13 61347-2-
EMC standards	EN55015, EN55022 class B, EN61000-3-2 class C, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN50204, EN61547



## Product Specification

Model #	Power		Luminous Efficacy	Size		Cutout
	Rated	System		Trim	Height	
51160ES-W09	9.0W	9.4W	837~855lm	160 x 160mm	52mm	130 x 140mm
51160ES-W12	12.0W	12.6W	1116~1140lm	160 x 160mm	52mm	130 x 140mm
51160ES-W15	15.0W	15.8W	1395~1425lm	160 x 160mm	52mm	130 x 140mm
51160ES-W20	20.0W	21.1W	1860~1900lm	160 x 160mm	52mm	130 x 140mm
51200ES-W20	20.0W	21.1W	1860~1900lm	200 x 200mm	60mm	270 x 265mm
51300ES-W25	25.0W	26.3W	2325~2375lm	300 x 300mm	49mm	285 x 285mm
51300ES-W30	30.0W	31.6W	2790~2850lm	300 x 300mm	49mm	285 x 285mm

NOTE: Customized model of various wattage with standard fixture could be provided subject to MOQ as may be specified in reply to trade enquiry.