



# ideal Lighting Systems Pvt. Ltd.



## PRODUCT SPECIFICATIONS

PRODUCT NAME	LED Weather Proof Street Light	Doc No. - ILS/WP/SPC-139/0
PRODUCT CODE	WPSLCS3-100-XX-YY	Date : 01.04.2016

### Characteristics

Characteristics	Std. Value
Luminaries wattage	100 Watt
Input Voltage	230 V
Input Frequency	50 H <sub>2</sub>
Input Current	0.6A
Power Factor	> 0.95
Athd.	CLASS C
Efficiency	91%
Light Spreading Angle	120°x 60° / 140°x 60° / 160°x 60°
Temperature Class	T6
IP Standard	IP65
Total Weight	3.10 Kg
Starting Time	Rapid ( 0.2 Sec)
Guarantee	5 Years including FLUX/CCT/CRI

Model No	CLU048 - 1818		
LED type / No of LED Lamp	COB/ Single Lamp		
Total Lumen @Tc 25°C	14132 lm	14819 lm	14250 lm
Lumen Efficacy (Lm/ Watt)	157 lm/W	165 lm/W	158 lm/W
CCT / Color Rendering index	3000K / RA 70	5000K / RA 70	6500K / RA 80
SP Ratio	2-2.25		

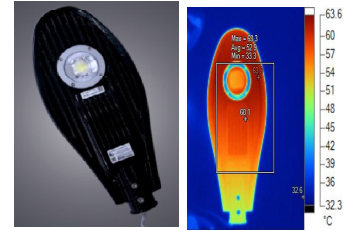
MacAdam Ellipse Stage	STEP 3		
LED -Wattage/Current/Voltage	90W / 1673mA/ 53.8 V @Tc 25°C		
Lamp Life	1,00,000 Hours Min.		
Certifications / Reports	LM70, LM80/Photo Bio. Test / Vibration Test		
Identification Feature	Unique Serial No. Printed on each Lamp		
Actual Test Report of CITIZEN LED Lamp	Actual Operating test Report for 63,000Hrs		

Model No	ELG-100-54		
Type of Driver	Constant Current (CC)		
Input Voltage Range	100VAC ~ 305 VAC		
Frequency Range	47 ~ 63Hz		
Inrush current	COLD START 60A		
Leakage current	< 0.75 mA / 240VAC		
Output Protection	Short Circuit, Over Voltage,Over Temperature.		
Withstand Voltage	I/P-0/P:3.75K VAC Min.		
Surge Protection	L-N :4KV , L-N-E: 6KV		
MTBF /DMTBF	282.9K HRS Min / 50,000 HRS @ TCASE 70°C		
Capacitor Life Cycle	48560 HRS @ 50°C		

Optics Type	Glass Lens		
MOC of Optics	Borosilicate Glass		
Optics Efficiency	96%		

Make of Fixture	ILS Pvt.Ltd.		
Heat Sink Make	ILS (Own Design)		
MOC – Heat Sink	Aluminum Casting - LM 06		
Junction Temperature -T <sub>J</sub>	80°C		
Case Temperature- T <sub>C</sub>	65°C		

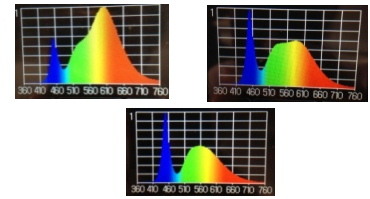
Product Photograph & Thermal Image



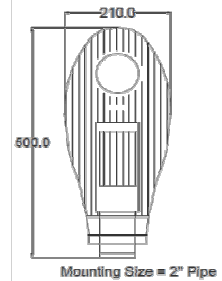
Reference Documents

1. Power Analyser Report With Harmonics
2. Electrical Efficiency Reprot
3. Spectroradiometric Test Report
4. TRT Report
5. LM 79 Report
6. IP 65 Test Report
7. LM 70, LM 80 Report

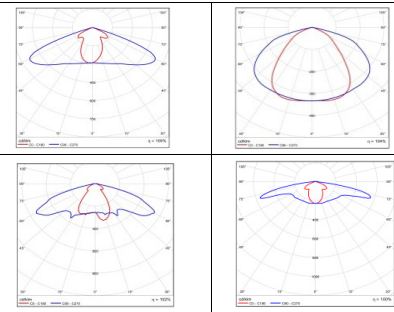
LED Spectrum



Schematic Drawing



Light Distribution Diagram



Actual Test Result

SERIAL NO.	ILS-4020188					
Mfg Date	11-01-2016.10:18:02 PM					
LED SR. No.	F14530518155					
DRIVER SR. NO.	HB42A79159					
Input	V	A	HZ	W	VA	PF
	241.02	0.439	50	101.58	105.81	0.96
Output	DC.V	DC.A	DC.W	EFF	THD	
	54.82	1.664	91.20	89.79	C class	

**ILS SPECIALITY : This Fixture is having Lowest Thermal Resistance and single optics. ILS products are having Precise Thermal Management for longer life and Precise light spreading angle for required illumination.**

Prepared By	Reviewed By	Approved By