

**PRODUCT SPECIFICATIONS**

<b>PRODUCT NAME</b>	<b>LED Flame Proof Flood Light</b>
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Characteristics	Std. Value
<b>LUMINARIES</b>	
Luminaries wattage	80 Watt
Input Voltage	230 V
Input Frequency	50 Hz
Input Current	0.6 A
Power Factor	> 0.95
Athd.	CLASS C
Efficiency	91%
Light Spreading Angle	60° / 90° / 120°
Temperature Class	T6
IP Standard	IP66
Total Weight	22Kg
Starting Time	Rapid ( 0.2 Sec)
Guarantee	5 Years including FLUX/CCT/CRI

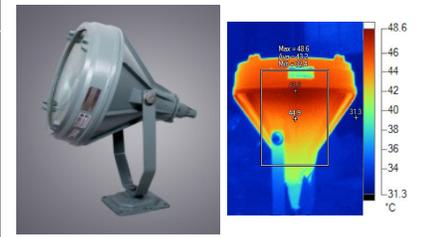
<b>LED LAMP</b>			
Model No	CLU048 - 1812		
LED type / No of LED Lamp	COB/ Single Lamp		
Total Lumen @Tc 25°C	11254	11798	11336
Lumen Efficacy (Lm/ Watt)	156 lm/W	164 lm/W	157 lm/W
CCT / Color Rendering index	3000K / RA 70	5000K / RA 70	6500K / RA 80
SP Ratio	2-2.25		
MacAdam Ellipse Stage	STEP 3		
LED -Wattage/Current/Voltage	72W / 1316ma/ 54.7 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		

<b>LED DRIVER MAKE - MEANWELL</b>	
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

<b>OPTICS</b>	
Optics Type	Glass Lens
MOC of Optics	Borosilicate Glass
Secondary Optics	Toughned Glass

<b>FIXTURE \ HEAT SINK</b>	
Make of Fixture	Kaysons
Certification	CMRI Certified including LED Lamp
Heat Sink Make	(Own Design)
MOC – Heat Sink	Aluminum Extrusion - LM 06
Junction Temperature -T <sub>J</sub>	73°C
Case Temperature- T <sub>C</sub>	55°C

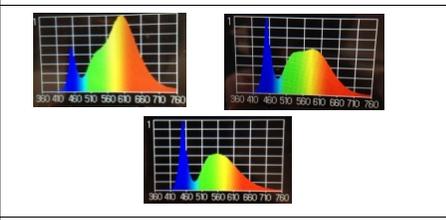
Product Photograph & Thermal Image



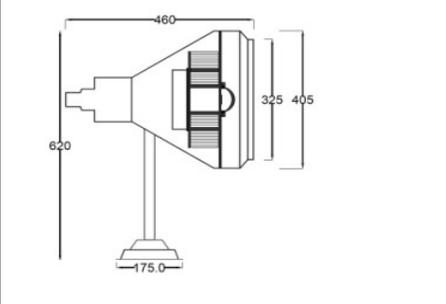
Reference Documents

1. Power Analyser Report With Harmonics
2. Electrical Efficiency Reprt
3. Spectroradiometric Test Report
4. TRT Report
5. LM 79 Report
6. IP 66 Test Report
7. LM 70, LM 80 Report

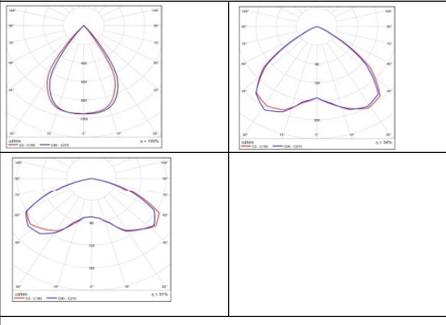
LED Spectrum



Schematic Drawing



Light Distribution Diagram



Actual Test Report

SERIAL NO.							
Mfg Date		11-01-2016.10:18:02 PM					
LED SR. No.		F14530518155					
DRIVER SR. NO.		HB42A79159					
Input	V	A	HZ	W	VA	PF	
	240.25	0.360	50	81.30	86.49	0.94	
Output	DC.V	DCA	DC.W	EFF	THD		
	54.02	1.344	72.59	89.29	C class		

<b>Prepared By</b>	<b>Reviewed By</b>	<b>Approved By</b>