



ideal Lighting Systems Pvt. Ltd.



PRODUCT SPECIFICATIONS

PRODUCT NAME	LED Flame Proof Clean Room	Doc No. - ILS/FP/SPC-24/00
PRODUCT CODE	FLPCRSQ-45-XX-YY	Date : 01.04.2016

Characteristics	Std. Value
Luminaries wattage	45 Watt
Input Voltage	230 V
Input Frequency	50 Hz
Input Current	0.6 A
Power Factor	> 0.90
Athd.	CLASS C
Efficiency	87%
Light Spreading Angle	120°
Temperature Class	T6
IP Standard	IP66
Total Weight	6.58 Kg
Starting Time	Rapid (0.2 Sec)
Guarantee	3 Years including FLUX/CCT/CRI

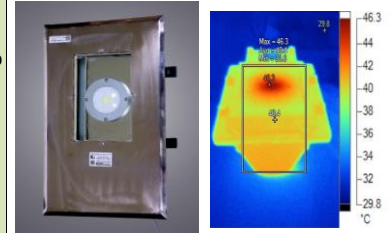
LED LAMP MAKE – CITIZEN JAPAN	Model No	CLU048 - 1212		
	LED type / No of LED Lamp	COB/ Single Lamp		
	Total Lumen @Tc 25°C	6640	6961	6689
	Lumen Efficacy (Lm/ Watt)	166 lm/W	174 lm/W	167 lm/W
	CCT / Color Rendering index	3000K / RA 70	5000K / RA 70	6500K / RA 80
	SP Ratio	2-2.25		
	MacAdam Ellipse Stage	STEP 3		
	LED -Wattage/Current/Voltage	40W / 1115ma/ 35.9 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	PLD-60-1050B
Type of Driver	Constant Current (CC)
Input Voltage Range	180VAC ~ 295 VAC
Frequency Range	47 ~ 63Hz
Inrush current	COLD START 25A
Leakage current	< 0.5 mA / 240VAC
Output Protection	Short Circuit, Over Temperature
Withstand Voltage	I/P-O/P:3.75K VAC Min.
Surge Protection	L-N :2KV
MTBF /DMTBF	458.85K HRS Min / 50,000 HRS @ TCASE 65°C
Capacitor Life Cycle	42086.1 HRS @ 50°C

Optics Type	Glass Diffuser
MOC of Optics	Borosilicate Diffused Glass
Secondary Optics	Toughened Glass

Make of Fixture	Sudhir
Certification	CMRI Certified including LED Lamp
Heat Sink Make	ILS (Own Design)
MOC – Heat Sink	Aluminum Extrusion - LM 06
Junction Temperature -T _j	73°C
Case Temperature- T _c	60°C

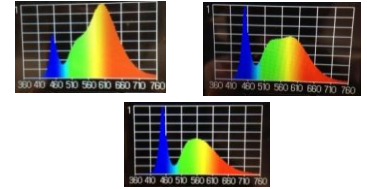
Product Photograph & Thermal Image



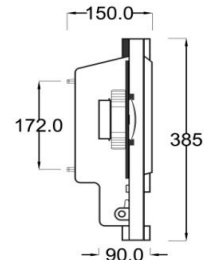
Reference Documents

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

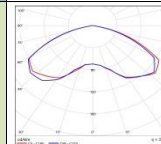
LED Spectrum



Schematic Drawing



Light Distribution Diagram



Actual Test Report

SERIAL NO.		ILS-4020145				
Mfg Date		11-01-2016,1:48:48 PM				
LED SR. No.		F14530518921				
DRIVER SR. NO.		HB42A79188				
Input	V	A	HZ	W	VA	PF
	241.66	0.210	50	46.18	50.75	0.91
Output	DCV	DCA	DCW	EFF	THD	
	36.15	1.103	39.87	86.33	C class	

ILS SPECIALITY : This Fixture is providing required spreaded illumination level without Glare through diffused light. ILS products are having Precise Thermal management for longer life and Precise light spreading angle for required illumination.

Prepared By	Reviewed By	Approved By