

PRODUCT SPECIFICATIONS

PRODUCT NAME	LED Weather Proof Clean Room Light
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Characteristics	Std. Value
LUMINARIES	
Luminaries wattage	20 Watt
Input Voltage	230 V
Input Frequency	50 Hz
Input Current	0.3 A
Power Factor	>0.9
Athd.	CLASS A
Efficiency	86%
Light Spreading Angle	120°
Temperature Class	T6
IP Standard	IP65
Total Weight	1.56 Kg
Starting Time	Rapid (0.2 Sec)
Guarantee	2 Years including FLUX/CCT/CRI

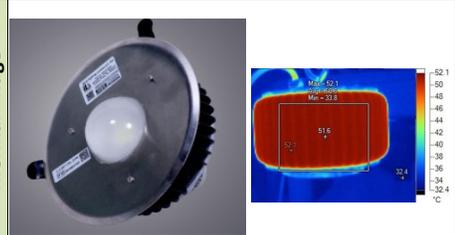
LED LAMP	
Model No	CLU038 - 1206
LED type / No of LED Lamp	COB/ Single Lamp
Total Lumen @Tc 25°C	2995
Lumen Efficacy (Lm/ Watt)	167 lm/W
CCT / Color Rendering index	3000K / RA 70
SP Ratio	2-2.25
MacAdam Ellipse Stage	STEP 3
LED -Wattage/Current/Voltage	18W / 505ma/ 35.6V @Tc 25°C
Lamp Life	1,00,000 Hours 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

LED DRIVER MAKE - MEANWELL	
Model No	PLD-25-700
Type of Driver	Constant Current (CC)
Input Voltage Range	90VAC ~ 295 VAC
Frequency Range	47 ~ 63Hz
Inrush current	COLD START 25A
Leakage current	< 0.5 mA / 240VAC
Output Protection	Short Circuit, Over Temp.
Withstand Voltage	I/P-0/P:3.75K VAC Min.
Surge Protection	L-N :2KV
MTBF /DMTBF	968.6K HRS Min / 50,000 HRS @ TCASE 70°C
Capacitor Life Cycle	54212 HRS @ 50°C

OPTICS	
Optics Type	Glass Lens
MOC of Optics	Borosilicate Diffused Glass

FIXTURE / HEAT SINK	
Make of Fixture	
Heat Sink Make	(Own Design)
MOC – Heat Sink	Aluminum Extrusion - LM 06
Junction Temperature -T _j	71°C
Case Temperature- T _c	60°C

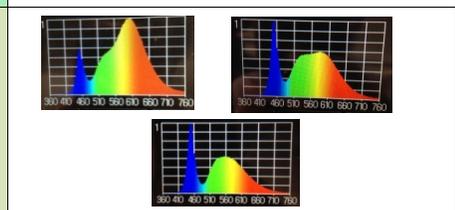
Product Photograph & Thermal Image



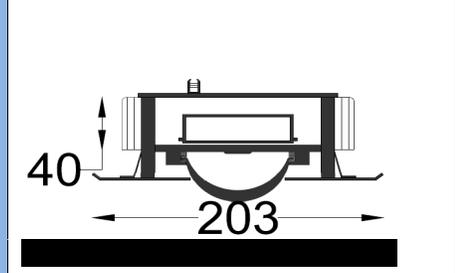
Reference Documents

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

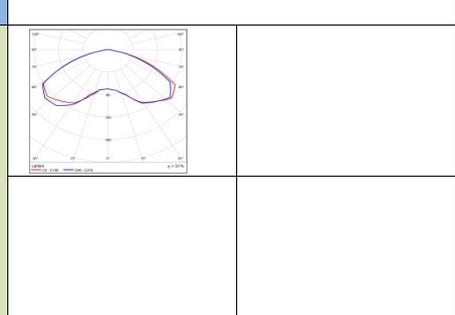
LED Spectrum



Schematic Drawing



Light Distribution Diagram



Actual Test result

SERIAL NO.							
Mfg Date		05-04-2016.12:48:06 PM					
LED SR. No.		F14530519874					
DRIVER SR. NO.		HB42A741479					
Input	V	A	HZ	W	VA	PF	
	240.85	0.093	50	20.05	22.28	0.9	
Output	DC.V	DC.A	DC.W	EFF	THD		
	36.70	0.470	17.25	86.03	A class		

Prepared By	Reviewed By	Approved By