

## DATASHEET

SPECIFICATIONS OF LUMINARY.	
Luminaries wattage	90 Watt (+/- 5%)
Input Voltage	230 VAC
Input Frequency	50 Hz
Input Current	0.407A
Power Factor	> 0.96
Athd.	CLASS C
Efficiency	>90%
Temperature Class	T6
IP Standard	IP 65
Total Weight	3.85 Kg
Starting Time	Instant ( 0.2 Sec)
Light Spreading Angle	60° x 120°
Guarantee	3 Years on LED DRIVER
Guarantee	5 Years on COB LED
Guarantee	3 Years on FLUX/CCT/CRI

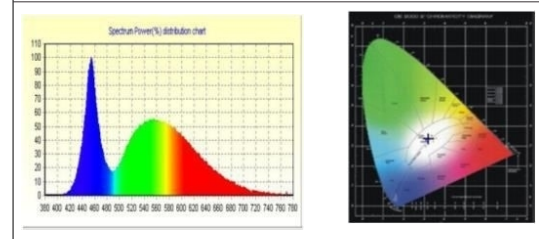
**ORDERING CODE: MSL90MW**



SPECIFICATIONS OF LED		MAKE : CITIZEN JAPAN
Model No	CLU-038-1210 V6	
LED type / No of LED Lamp	COB/ Single	
Total Lumen (As per simulation Tool)	10436	
Lumen Efficacy (Lm/ Watt)	128 lm/W @ 60° C LED Tc	
Lumen Efficacy (Lm/ Watt) (Incl. all losses)	115 lm/W @ 60° C LED Tc	
Color / Color Rendering index	CCT 6500K / RA 70	
SP Ratio	2.25	2.25
MAC ADAM ELIP STAGE	STEP 3	
LED -Wattage/Current/Voltage	81.3 W /2150 mA /37.8V	
Lamp Life	1,60,000 Hours Min.	
Certifications / Reports	LM80/Photo Bio. Test	
Actual Tested Report	Actual Operating test Report for 63,000Hrs	
Identification Method	Unique Serial No. Printed on each Lamp	

**CITIZEN**  
Micro HumanTech

**LED SPECTRUM**



SPECIFICATIONS OF LED DRIVER		MAKE - MEANWELL
Model No	FDHC-100H	
Type of Driver	Constant Current	
Input Voltage Range	100 - 305 VAC	
Frequency Range	47 - 63 Hz	
Inrush current	Cold Start 50A	
Leakage current	0.75mA/ 277VAC	
Output Protection	Shut down output voltage, recovers automatically after fault condition is removed	
Withstand Voltage	I/P-O/P : 3.75KVAC	
Surge Protection	L-N : 4KV, L,N-PE : 6KV	
MTBF /DMTBF	331 Khrs min.	
Capacitor Life Cycle	56870 Hrs @ 60°C	

SPECIFICATIONS OF OPTICS	
Optics Type	Glass Lens
MOC of Optics	Borosilicate Glass
Optics Efficiency	96%

SPECIFICATIONS OF FIXTURE \ HEAT SINK	
Certification	IP 65
MOC Fixture	Aluminum Diecasting LM6
Junction Temperature -Tj	93°C
Case Temperature- Tc	60°C