

HALONIX TECHNOLOGIES PRIVATE LIMITED (NABL CERTIFICATION NUMBER: TC-7634) PLOT-5, SECTOR-12, IIE, SIDCUL, HARIDWAR-249403

TYPE TEST REPORT

Date: 20-05-2019

Product

38W LED 2X2 Panel Light Luminaires suitable for 240V,

50Hz, AC supply

Product Code

HLFPR22-05-38-CW-R-HL1

Brand Name

HALONIX

Document Reference

IS 10322 / IEC 60598, IS 15885, IS 16103, IS 16104,

IS 16107, LM79 & TDS

Sr. No.	Requirements		Observation	Verdict
1	Visual Examination	The finishing and workmanship shall be good and acceptable	Finishing and workmanship found good and acceptable Satisfactory	Pass
2	Dimensions	Shall be as per TDS	As per TDS Satisfactory	Pass
3	Marking	Clause 6 of IS:10322 (Pt.1) & Clause 4 of IS:16107 (Pt.2/Sec.1) 2012 shall apply Shall be Clear and legible	Halonix Technologies Private Limited Made in India 240V, 50Hz Cat. Ref. HLFPR22-05-38-CW-R-HL1 Wattage-38W Lamp type - LED	Pass
4	Construction	As per IS:10322 (Pt.2) shall apply, together with the requirements of 6.1 to 6.6	CRCA housing with corrosion resistance powder coating and manufacturer emblem / logo in to the housing, PMMA cover, Electronic driver.	Pass
5	Provision for Earthing	The provision given in 2.0 of part 2 of IS:10322 (Pt.2) shall apply	Earth contact Resistance <0.5 Ω	Pass



6	Drop Test	As per IEC 60068-2-31	Withstood the impact Satisfactory	Pass
7	Cree Page Distance and Clearance	Shall be ≥ 3mm and ≥ 4mm	3.5mm & 4.5mm	Pass
8	Terminals	As per IS:10322 (Pt.2) shall apply	As per standard specification	Pass
9	External and Internal Wiring	Clause 19 of IS:10322(Pt.2) shall apply	As per standard specification	Pass
10	Protection against Electric Shock	The provision given in 21 of part 2 of IS:10322 (Pt.2) shall apply	Test finger does not contact any live parts Satisfactory	Pass
11	Mechanical Strength	Clause 5 of IS:10322(Pt.4) shall apply, Test for Impact Resistance (IK05)	Doesn't show any damage As per standard	Pass
12	Endurance Test and	Clause 6 of IS:10322(Pt.4) shall apply	No parts shall be damaged, unserviceable and unsafe & marking is legible and the luminaires perform normally.	Pass
13	Thermal Test	At 25°C ambient Heat sink MCPCB Led Ts Driver Tc	41°C 52°C 58°C 64°C Satisfactory	Pass
14	Resistance to Heat, Fire & Tracking	On plastic materials only	The diameter of impression <1.20mm The sample under test and any gas produced during the test doesn't ignite	Pass Pass



15	Resistance to Dust and	Clause 2 of IS:10322 (Pt.4) shall apply		
	Moisture	Test for protection against solid objects greater than 12.5 mm diameter.	No ingress of solid objects greater than 12.5mm diameter.	Pass
		(IP20)		
		Insulation Resistance Shall be ≥2MΩ	>2 MΩ	Pass
		on application of 500V DC	Satisfactory	
		Electric strength test Shall withstood a voltage of 1.5KV for 1 Min	Satisfactory	Pass
16	Operating Voltage	The luminaires shall operate within	Luminaires operable within	Pass
	Range	140-270V supply voltage with the same	140-270V supply voltage with the	
		driver	same driver	

Test Voltage 240V, 50Hz

17	Input Wattage	Power consumption of the complete System including driver losses 38W ±10%	32.98W	Pass
18	Input Power Factor	>0.95	0.981	Pass
19	Max. Input Current	<0.183A	0.140A	Pass
20	THD	<10%	8.9%	Pass
21	Electronic LED Driver efficiency	>85%	88.1%	Pass
22	Surge voltage protection	4KV internal	Withstood 4KV	Pass

