

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

TYPE TEST REPORT Date: 16-04-2019

Product : 30W LED Flood Light Luminaires suitable for 240V,

50Hz, AC supply

Product Code : HLFLD-ML21-30-CWL

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. HLFLD-ML21-30-CWL Wattage-30W Lamp type - LED	Pass
4	Construction	As per IS:10322 (Pt.2) shall apply, together with the requirements of 6.1 to 6.6	Pressure die cast Aluminum housing with corrosion resistance powder coating and manufacturer emblem / logo in to the housing, Clear toughened glass cover, Optical lens for LED, 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 $< 0.5 \Omega$	Pass

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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 (IK07)	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	47°C 55°C 61°C 68°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

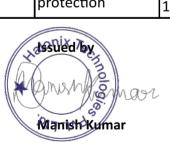
**E-Mail:** customercare@halonix.co.in **Website:** www.halonix.co.in



15		Clause 2 of IS:10322 (Pt.4) shall apply Test for ingress of dust and Moisture	No ingress of dust and no	Pass
		(IP66)	accumulation of water	
		Insulation Resistance Shall be ≥2MΩ on application of 500V DC	>2 MΩ Satisfactory	Pass
		Electric strength test Shall withstood a voltage of 1.5KV for 1 Min	Satisfactory	Pass
16	1 .	The luminaires shall operate within 140- 270V supply voltage with the same driver	Luminaires operable within 140-270V supply voltage with the same driver	Pass

Test Voltage 240V, 50Hz

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17	Input Wattage	Power consumption of the complete System including driver losses 30W ±10%	30.65W	Pass
18	Input Power Factor	>0.95	0.974	Pass
19	Max. Input Current	<0.145A	0.131A	Pass
20	THD	<10%	8.5%	Pass
21	Electronic LED Driver efficiency	>85%	88.1%	Pass
22	Surge voltage	5KV internal	Withstood 5KV	Pass
	protection	10KV external	Withstood 10KV	Pass



E-Mail: customercare@halonix.co.in Website: www.halonix.co.in