

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

TYPE TEST REPORT

Date: 15-05-2019

Product : 350W LED Flood Light Luminaires suitable for 240V,
50Hz, AC supply

Product Code : HLFLD-ML21-350-CWL-HL2

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-ML21-350-CWL-HL2 Wattage-350W 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 Ω | Pass |

Halonix Technologies Pvt. Ltd.

Registered Office:
B-31, Phase II, Noida,
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Tel: +91 120 4756100 | Fax: +91 120 4756101

Formerly known as Halonix Technologies Limited

Manufacturing Unit:
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Tel: +91 9568152111 | Fax: +91 01334 230696

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

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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 $\geq 3\text{mm}$ and $\geq 4\text{mm}$ | 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 | 59°C 69°C 81°C 75°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 |

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|----|---------------------------------|--|--|-------------------------------------|
| 15 | Resistance to Dust and Moisture | <p>Clause 2 of IS:10322 (Pt.4) shall apply</p> <p>Test for ingress of dust and Moisture (IP66)</p> <p>Insulation Resistance Shall be $\geq 2M\Omega$ on application of 500V DC</p> <p>Electric strength test Shall withstood a voltage of 1.5KV for 1 Min</p> | <p>No ingress of dust and no accumulation of water</p> <p>>2 MΩ</p> <p>Satisfactory</p> <p>Satisfactory</p> | <p>Pass</p> <p>Pass</p> <p>Pass</p> |
| 16 | Operating Voltage Range | 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

| | | | | |
|----|----------------------------------|---|---------------|------|
| 17 | Input Wattage | Power consumption of the complete System including driver losses 350W $\pm 5\%$ | 349.25W | Pass |
| 18 | Input Power Factor | >0.95 | 0.979 | Pass |
| 19 | Max. Input Current | <1.612A | 1.486A | Pass |
| 20 | THD | <10% | 8.9% | Pass |
| 21 | Electronic LED Driver efficiency | >85% | 88.1% | Pass |
| 22 | Surge voltage protection | 5KV internal | Withstood 5KV | Pass |



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