

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

**TYPE TEST REPORT**

**Date: 12-06-2019**

Product : 20W LED Batten Luminaires suitable for 240V,  
50Hz, AC supply  
Product Code : HLB-03-20-CW-AL  
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. HLB-03-20-CW-AL Wattage-20W Lamp type - LED	Pass
4	Construction	As per IS:10322 (Pt.2) shall apply, together with the requirements of 6.1 to 6.6	Extruded aluminum housing with manufacturer emblem / logo in to the housing, PC 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 $\Omega$	Pass

**Halonix Technologies Pvt. Ltd.**

**Registered Office:**  
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Tel: +91 120 4756100 | Fax: +91 120 4756101

*Formerly known as Halonix Technologies Limited*

**Manufacturing Unit:**  
Plot No. 5, Sector-12, IIE, SIDCUL,  
Haridwar, Uttarakhand - 249403  
Tel: +91 9568152111 | Fax: +91 01334 230696

**E-Mail:** [customercare@halonix.co.in](mailto:customercare@halonix.co.in)  
**Website:** [www.halonix.co.in](http://www.halonix.co.in)

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	49°C 58°C 67°C 69°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	Clause 2 of IS:10322 (Pt.4) shall apply		
		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 $\geq 2M\Omega$ on application of 500V DC Electric strength test Shall withstood a voltage of 1.5KV for 1 Min	>2 M $\Omega$ Satisfactory Satisfactory	Pass Pass
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 20W $\pm 10\%$	19.99W	Pass
18	Input Power Factor	>0.95	0.972	Pass
19	Max. Input Current	<0.096A	0.086A	Pass
20	THD	<15%	13.6%	Pass
21	Electronic LED Driver efficiency	>85%	87.7%	Pass
22	Surge voltage protection	3KV internal	Withstood 3KV	Pass



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