



20W LED TUBE LIGHT CW

Photometric & Electrical Measurement (As per IES LM 79-08 / IS 16106-12)

20W Energy Efficient LED Light

Issued by: Halonix Technologies Private Limited (NABL Certification No: TC-7634)

05/20/2019

HALONIX TECHNOLOGIES PRIVATE LIMITED
HTPL LABORATORY (NABL Certificate No: TC-7634)

Plot-5, Sector-12, IIE, SIDCUL

Haridwar (Uttarakhand), PIN-249403, India

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Test Report

| | | | |
|---|-----------------|--|------------|
| Report Number: | 20-05-2019 -001 | Date: | 20-05-2019 |
| Product Description: 20W Energy Efficient LED Tube Light | | | |
| Product Catalogue Reference: | HTLD-04-20-CW | Brand: | HALONIX |
| Construction: Aluminum housing, PC diffuser, etc. | | | |
| Test Details: | | Document References/Standard: | |
| <ul style="list-style-type: none">• Light intensity distribution Measurement• Total Lumen output Measurement• Electrical Parameters Measurement | | <ul style="list-style-type: none">• IES-LM-79-08 "Electrical and Photometric Measurements of Solid-State Lighting Products"• IS : 16106-2012 "Method of Electrical and Photometric solid state lighting (LED) Products"• IS : 16105-2012 "Method of measurement of Lumen maintenance of solid state light sources" | |
| Enclosures: | | | |
| Prepared By: | | Approved By: | |
| Sanjay Sharma | | Rajeev Chhabra | |

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Electrical & Photometric Test Report**Photometric Test Report: (As Per IES LM 79-08)****Sample ID:** 20-05-2019 -001

| | | | |
|-----------------------------|---|----------------------|------------|
| Catalogue Reference: | HTLD-04-20-CW | Testing Date: | 20-05-2019 |
| Testing Agency: | HTPL Laboratory | Brand: | HALONIX |
| Equipment Used: | EVERFINE Brand Gonio Photometer (Type: GO - 2000B V1) and Globe Photometer (Type: PMS – 50/80) with Power Meter | | |

| | | | |
|-----------------------------|--------|------------------------------|-----------|
| Ambient Temperature: | 25±2°C | Relative Humidity: | 65% |
| Test Voltage: | 240V | Frequency: | 50Hz |
| Stabilization Time: | 30Min | Total Operating Time: | 1.30Hours |

Rated Performance Parameters:

| | | | |
|------------------------|-------|------------------------------|--------|
| Rated Wattage : | 20W | Rated Input Current : | 0.096A |
| Nomical CCT : | 6500K | Nominal CRI: | >80 |

Measured Electrical Parameters:

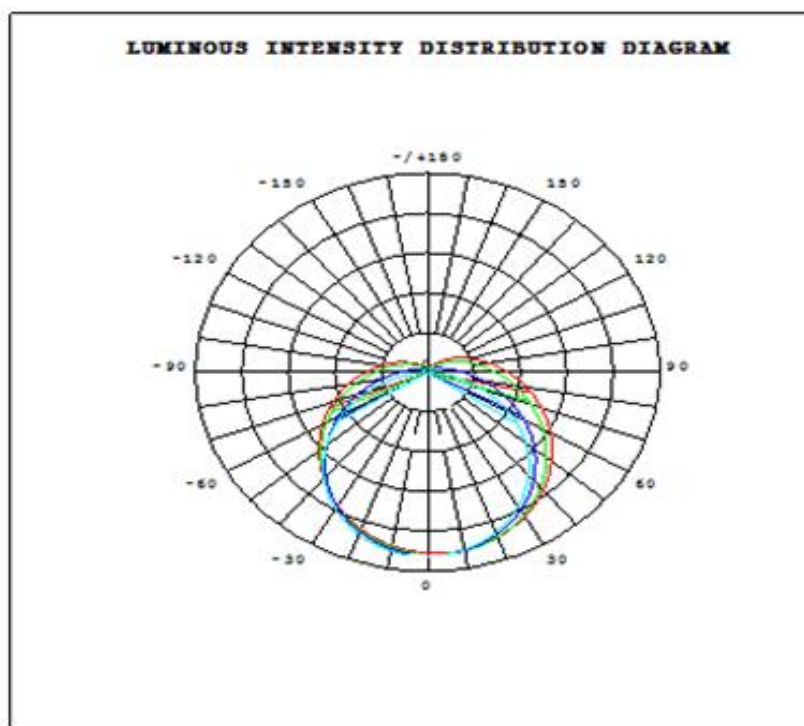
| | | | |
|-------------------------|--------|------------------------|--------|
| Supply Voltage : | 240V | Input Current : | 0.085A |
| Frequency : | 50Hz | | |
| Total Power : | 19.96W | Power Factor : | 0.978 |

Photometric Measurement Data:

| | | | |
|--------------------------------------|---------------------------------|------------------------------|------------|
| Total Measured Lumen : | 2036.12lm | Luminaries Efficacy : | 102.01lm/W |
| CCT : | 6396K | CRI : | 81.2 |
| Light Intensity Distribution: | Attached (Refer to Page No. 4) | | |
| Approved By: Rajeev Chhabra | Tested By: Sanjay Sharma | | |

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Light intensity Distribution Diagram



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|---------------------|---------------|-----------|-----------------|