

### 90W LED HW STREET LIGHT

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

90W Energy Efficient LED Street Light

Issued by: Halonix Technologies Private Limited (NABL Certification No: TC-7634) 01/29/2019

## 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: 29-01-2019 -002  |  | 29-01-2019    |  |
|---|--|---------------|--|
| Product Description: 90W Energy Efficient LED Street Light  |  |               |  |
| Product Catalogue Reference: HLSLD-MLC04-90-CWD   | L Branc  | : HALONIX     |  |
| Construction:   | •  | •             |  |
| Pressure die casted aluminum housing, Glass front visor, SMD L  | ED, Electronic driver etc.   |               |  |
| Test Details:   | Document Referen   | ces/Standard: |  |
| <ul> <li>Light intensity distribution Measurement</li> <li>Total Lumen output Measurement</li> <li>Electrical Parameters Measurement</li> </ul> | <ul> <li>IES-LM-79-08 "Electrical and Photometric Measurements of Solid-State Lighting Products"</li> <li>IS: 16106-2012 "Method of Electrical and Photometric solid state lighting (LED) Products"</li> <li>IS: 16105-2012 "Method of measurement of Lumen maintenance of solid state light sources"</li> </ul> |               |  |
| Enclosures:   |  |               |  |
| Prepared By:  | Approved By:   |               |  |
| Sanjay Sharma   | Rajeev Chhabra   |               |  |

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#### **Electrical & Photometric Test Report**

| Photometric Test Report: (As P         | er IES LM 79-08) |   |                          |            |  |
|--|------------------|---|--------------------------|------------|--|
| Sample ID: 29-01-2019 -002             |                  |   |                          |            |  |
| Catalogue Reference:                   | HLSLD-MLC0-      | HLSLD-MLC04-90-CWDL   |                          | 29-01-2019 |  |
| Testing Agency:                        | HTPL Laborat     | HTPL Laboratory   |                          | HALONIX    |  |
| Equipment Used:                        | EVERFINE Bra     | EVERFINE Brand Gonio Photometer (Type: GO - 2000B V1) and Globe Photometer (Type: PMS – 50/80) with Power Meter |                          |            |  |
|  | Photometer       |   |                          |            |  |
|  |                  |   |                          |            |  |
| Ambient Temperature:                   | 25±2°C           | Relative Humidity:  | 65%                      |            |  |
| Test Voltage:                          | 240V             | Frequency:  | 50Hz                     |            |  |
| Stabilization Time:                    | 30Min            | <b>Total Operating Time:</b>  | 1.30Hours                |            |  |
|  |                  |   |                          |            |  |
| <b>Rated Performance Parameters:</b>   |                  |   |                          |            |  |
| Rated Wattage :                        | 90W              | Rated Input Current:  | 0.434A                   |            |  |
| Nomical CCT :                          | 5700K            | Nominal CRI: >70  |                          |            |  |
|  |                  |   |                          |            |  |
| <b>Measured Electrical Parameters:</b> |                  |   |                          |            |  |
| Supply Voltage:                        | 240V             | Input Current :   | 0.382A                   |            |  |
| Frequency:                             | 50Hz             |   |                          |            |  |
| Total Power :                          | 89.88W           | Power Factor :  | 0.980                    |            |  |
|  | •                | ·   | ·                        |            |  |
| <b>Photometric Measurement Data</b>    | •                |   |                          |            |  |
| Total Measured Lumen:                  | 9538.96lm        | Luminaries Efficacy:  | 106.13lm/W               |            |  |
| CCT:                                   | 5590K            | CRI:  | 71.9                     |            |  |
| Light Intensity Distribution:          |                  | Attached (Refer to Page I   | No. 4)                   |            |  |
| Approved By: Rajeev Chhabra Te         |                  | Tested By: Sanjay Sharma  | Tested By: Sanjay Sharma |            |  |

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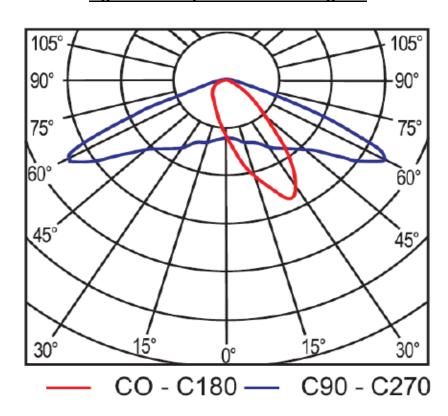
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#### **Light intensity Distribution Diagram**



| Catalogue Reference | HLSLD-MLC04-90-CWDL | Sample ID | 29-01-2019 -002 |
|---------------------|---------------------|-----------|-----------------|