



## **60W LED HW STREET LIGHT**

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

**60W Energy Efficient LED Street Light**

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

**04/24/2019**

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

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**Test Report**

|   |                      |  |            |
|---|----------------------|--|------------|
| <b>Report Number:</b>   | 24-04-2019 -002      | <b>Date:</b>   | 24-04-2019 |
| <b>Product Description:</b><br>60W Energy Efficient LED Street Light  |                      |  |            |
| <b>Product Catalogue Reference:</b>   | HLSLD-15-60-CWL-R-SH | <b>Brand:</b>  | HALONIX    |
| <b>Construction:</b><br>Pressure die casted aluminum housing, Glass front visor, SMD LED, Electronic driver etc.  |                      |  |            |
| <b>Test Details:</b>  |                      | <b>Document References/Standard:</b>   |            |
| <ul style="list-style-type: none"><li>• Light intensity distribution Measurement</li><li>• Total Lumen output Measurement</li><li>• Electrical Parameters Measurement</li></ul> |                      | <ul style="list-style-type: none"><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> |            |
| <b>Enclosures:</b>  |                      |  |            |
| <b>Prepared By:</b>   |                      | <b>Approved By:</b>  |            |
| Sanjay Sharma   |                      | Rajeev Chhabra   |            |

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## **Electrical & Photometric Test Report**

|   |   |                      |            |
|---|---|----------------------|------------|
| <b>Photometric Test Report:</b> (As Per IES LM 79-08) |   |                      |            |
| <b>Sample ID:</b> 24-04-2019 -002                     |   |                      |            |
| <b>Catalogue Reference:</b>                           | HLSLD-15-60-CWL-R-SH  | <b>Testing Date:</b> | 24-04-2019 |
| <b>Testing Agency:</b>                                | HTPL Laboratory   | <b>Brand:</b>        | HALONIX    |
| <b>Equipment Used:</b>                                | EVERFINE Brand Gonio Photometer (Type: GO - 2000B V1) and Globe Photometer (Type: PMS – 50/80) with Power Meter |                      |            |

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

|                                      |       |                              |        |
|--------------------------------------|-------|------------------------------|--------|
| <b>Rated Performance Parameters:</b> |       |                              |        |
| <b>Rated Wattage :</b>               | 60W   | <b>Rated Input Current :</b> | 0.289A |
| <b>Nomical CCT :</b>                 | 5700K | <b>Nominal CRI :</b>         | >70    |

|  |        |                        |        |
|--|--------|------------------------|--------|
| <b>Measured Electrical Parameters:</b> |        |                        |        |
| <b>Supply Voltage :</b>                | 240V   | <b>Input Current :</b> | 0.254A |
| <b>Frequency :</b>                     | 50Hz   |                        |        |
| <b>Total Power :</b>                   | 59.91W | <b>Power Factor :</b>  | 0.983  |

|                                      |                                 |                              |            |
|--------------------------------------|---------------------------------|------------------------------|------------|
| <b>Photometric Measurement Data:</b> |                                 |                              |            |
| <b>Total Measured Lumen :</b>        | 6117.41lm                       | <b>Luminaries Efficacy :</b> | 102.11lm/W |
| <b>CCT :</b>                         | 5801K                           | <b>CRI :</b>                 | 71.9       |
| <b>Light Intensity Distribution:</b> | Attached (Refer to Page No. 4)  |                              |            |
| <b>Approved By:</b> Rajeev Chhabra   | <b>Tested By:</b> Sanjay Sharma |                              |            |

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**Light intensity Distribution Diagram**



|                     |                      |           |                 |
|---------------------|----------------------|-----------|-----------------|
| Catalogue Reference | HLSLD-15-60-CWL-R-SH | Sample ID | 24-04-2019 -002 |
|---------------------|----------------------|-----------|-----------------|