



# ideal Lighting Systems Pvt. Ltd.



## PRODUCT SPECIFICATIONS

|              |                                 |                            |
|--------------|---------------------------------|----------------------------|
| PRODUCT NAME | LED Weather Proof Surface Light | Doc No. - ILS/WP/SPC-74/00 |
| PRODUCT CODE | WPSMLFG-30-XX-YY                | Date : 01.04.2016          |

### Characteristics

|                       |                                |
|-----------------------|--------------------------------|
| Luminaries wattage    | 30 Watt                        |
| Input Voltage         | 230 V                          |
| Input Frequency       | 50 H <sub>z</sub>              |
| Input Current         | 0.5 A                          |
| Power Factor          | NA                             |
| Athd.                 | CLASS A                        |
| Electrical Efficiency | 84%                            |
| Light Spreading Angle | 120°                           |
| Temperature Class     | T6                             |
| IP Standard           | IP65                           |
| Total Weight          | 1.96Kg                         |
| Starting Time         | Rapid ( 0.2 Sec)               |
| Guarantee             | 2 Years including FLUX/CCT/CRI |

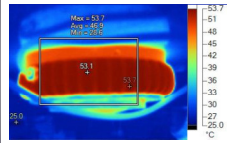
|                                        |                                            |                                             |               |               |
|----------------------------------------|--------------------------------------------|---------------------------------------------|---------------|---------------|
| LED LAMP<br>MAKE – CITIZEN JAPAN       | Model No                                   | CLU038 - 1208                               |               |               |
|                                        | LED type / No of LED Lamp                  | COB/ Single Lamp                            |               |               |
|                                        | Total Lumen @Tc 25°C                       | 4194                                        | 4398          | 4226          |
|                                        | Lumen Efficacy (lm/ Watt)                  | 161 lm/W                                    | 169 lm/W      | 162 lm/W      |
|                                        | CCT / Color Rendering index                | 3000K / RA 70                               | 5000K / RA 70 | 6500K / RA 80 |
|                                        | SP Ratio                                   | 2-2.25                                      |               |               |
|                                        | MacAdam Ellipse Stage                      | STEP 3                                      |               |               |
|                                        | LED -Wattage/Current/Voltage               | 26 W / 727ma/ 35.8 V @Tc 25°C               |               |               |
|                                        | Lamp Life                                  | 1,00,000 Hours Min.                         |               |               |
|                                        | Certifications / Reports                   | LM70, LM80/Photo Bio. Test / Vibration Test |               |               |
| Identification Feature                 | Unique Serial No. Printed on each Lamp     |                                             |               |               |
| Actual Test Report of CITIZEN LED Lamp | Actual Operating test Report for 63,000Hrs |                                             |               |               |

|                      |                                          |
|----------------------|------------------------------------------|
| Model No             | APC-35-700                               |
| Type of Driver       | Constant Current (CC)                    |
| Input Voltage Range  | 90VAC ~ 264 VAC                          |
| Frequency Range      | 47 ~ 63Hz                                |
| Inrush current       | COLD START 45A                           |
| Leakage current      | < 0.25 mA / 240VAC                       |
| Output Protection    | Over Voltage                             |
| Withstand Voltage    | I/P-0/P:3.75K VAC Min.                   |
| Surge Protection     | L-N :2KV                                 |
| MTBF /DMTBF          | 518.9K HRS Min / 50,000 HRS @ TCASE 65°C |
| Capacitor Life Cycle | 57288 HRS @ 40°C                         |

|               |                             |
|---------------|-----------------------------|
| Optics Type   | Glass Diffuser              |
| MOC of Optics | Borosilicate Diffused Glass |

|                                      |                            |
|--------------------------------------|----------------------------|
| Make of Fixture                      | ILS Pvt. Ltd.              |
| Heat Sink Make                       | ILS (Own Design)           |
| MOC – Heat Sink                      | Aluminum Extrusion - LM 06 |
| Junction Temperature -T <sub>j</sub> | 73°C                       |
| Case Temperature- T <sub>c</sub>     | 60°C                       |

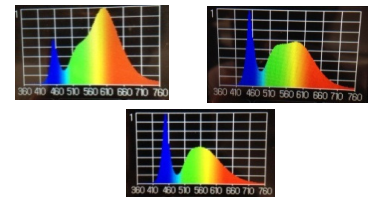
Product Photograph & Thermal Image



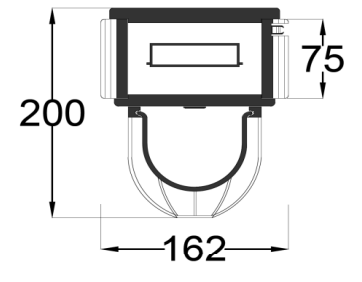
Reference Documents

1. Power Analyser Report With Harmonics
2. Electrical Efficiency Reptot
3. Spectroradiometric Test Report
4. TRT Report
5. LM 79 Report
6. IP 65 Test Report
7. LM 70, LM 80 Report

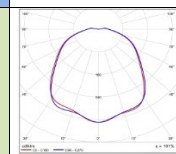
LED Spectrum



Schematic Drawing



Light Distribution Diagram



Actual Test Result

|                |                       |       |       |       |         |      |
|----------------|-----------------------|-------|-------|-------|---------|------|
| SERIAL NO.     | ILS-4020145           |       |       |       |         |      |
| Mfg Date       | 11-01-2016.1:48:25 PM |       |       |       |         |      |
| LED SR. No.    | F14530518913          |       |       |       |         |      |
| DRIVER SR. NO. | HB42A79112            |       |       |       |         |      |
| Input          | V                     | A     | HZ    | W     | VA      | PF   |
|                | 241.87                | 0.286 | 50    | 31.13 | 69.17   | 0.45 |
| Output         | DC.V                  | DCA   | DC.W  | EFF   | THD     |      |
|                | 36.88                 | 0.706 | 26.05 | 83.68 | A class |      |

**ILS SPECIALITY :** This Fixture is having Lowest Thermal Resistance and single optics. ILS products are having Precise Thermal Management for longer life and Precise light spreading angle for required illumination.

|             |             |             |
|-------------|-------------|-------------|
| Prepared By | Reviewed By | Approved By |
|             |             |             |