



Testing Lab.

Shenzhen Southern LCS Compliance Testing Laboratory Ltd.



TESTING  
NVLAP LAB CODE 600112-0

Report No.: LCS200918050BS

## TEST REPORT of IES LM-79-08

Approved Method for Electrical and Photometric Measurements of Solid-State Lighting Products

**Client**..... : Shenzhen Sinoco Lighting Technologies Co.,Ltd.  
**Address**..... : G building,Shasi , High-Tec ,Industrial park,Shajing Town,Baoan District,Shenzhen,  
Guangdong,China  
**Brand Name**..... : **SINOCO**<sup>®</sup>  
**Testing laboratory**..... : Shenzhen Southern LCS Compliance Testing Laboratory Ltd.  
**Address**..... : B Area, 2F, Building B, Zhongyu Green Wenge Road, Heshuikou, Gongming Street,  
Guangming New District, Shenzhen, Guangdong Prov .518000 China  
**Product description** .. : LED Street Light  
**Models**..... : ST-52-120W-TC10  
**Rating**..... : AC220V, 50/60Hz, 120W, 4000K  
**Date of Test**..... : September 18, 2020  
**Date of Issue**..... : September 23, 2020

Test by:

William Lian

William Lian/ Project Engineer

Check by:

Ian Luo

Ian Luo/ Director

Approved by:



Jesse Liu/ Manager

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## 1. Test Method

|                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Item.....                                                                        | Integrating Sphere Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Ambient Condition .....                                                               | 25.1℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Number of hours operated prior to Measurement .....                                   | 0h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Stabilization time .....                                                              | 0.5h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Orientation(burning position) of SSL product during test .....                        | down                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Method .....                                                                     | <p>The sample was tested according to the IES LM-79-2008.</p> <p>The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.</p> |
| Test Item.....                                                                        | Goniophotometer Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ambient Condition.....                                                                | 25.1℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Total operated time of the product for measurements including stabilization..... (h): | 2.5h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Correction factors applied.....                                                       | Intensity distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Orientation(burning position) of SSL product during test .....                        | down                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Method.....                                                                      | <p>The sample was tested according to the IES LM-79-2008.</p> <p>Photometric paramters were measured using a type C goniophotometer and software. The sample reference plane was located at the center of the sample goniometer at a test distance of 26m from the detectors. The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, Luminous efficacy, zonal flux were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals.</p>         |

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## 2. Product Information

|                                       |                    |
|---------------------------------------|--------------------|
| Product description.....:             | LED Street Light   |
| Model Number.....:                    | ST-52-120W-TC10    |
| Rated Inputs.....:                    | AC220V, 50/60Hz    |
| Rated Power.....:                     | 120W               |
| Declared CCT.....:                    | 4000K              |
| LED Manufacturer.....:                | N/A                |
| LED Model.....:                       | N/A                |
| LED Package, Array or Module.....:    | N/A                |
| Forward current of the LED chip.....: | N/A                |
| Date of Receipt Samples.....:         | September 18, 2020 |
| Quantity of Receipt Samples.....:     | 1 unit             |

## 3. Test equipment list:

| Manufacturer         | Description                               | Equipment ID | Model     | Calibration Date | Calibration Due Date |
|----------------------|-------------------------------------------|--------------|-----------|------------------|----------------------|
| EVERFINE             | Full-field Speed Goniophotometer          | SLCS-S-112   | GO-R5000  | 2020/07/02       | 2021/07/01           |
| EVERFINE             | Digital Power Meter                       | SLCS-S-103   | PF2010    | 2020/06/24       | 2021/06/23           |
| EVERFINE             | AC Testing Power Source                   | SLCS-S-115   | DPS1060   | 2020/06/24       | 2021/06/23           |
| EVERFINE             | Total Spectral Radiant Flux Standard Lamp | SLCS-S-143   | D908S     | 2020/07/02       | 2021/07/01           |
| SENSING              | 2 Meter Integrating Sphere                | SLCS-S-038   | SPR-3000  | 2020/07/02       | 2021/07/01           |
| YOKOGAWA             | Digital Power Meter                       | SLCS-S-058   | WT310     | 2020/06/24       | 2021/06/23           |
| ALL POWER ELECTRONIC | AC Testing Power Source                   | SLCS-S-111   | APW-105N  | 2020/06/24       | 2021/06/23           |
| SENSING              | Standard Lamp                             | SLCS-S-118   | S11010017 | 2020/07/02       | 2021/07/01           |



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## 4. Integrating Sphere Test Results:

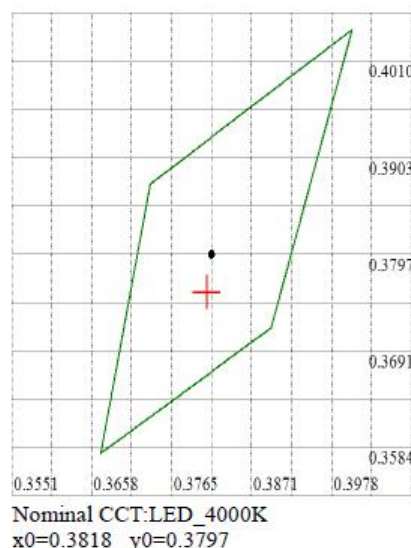
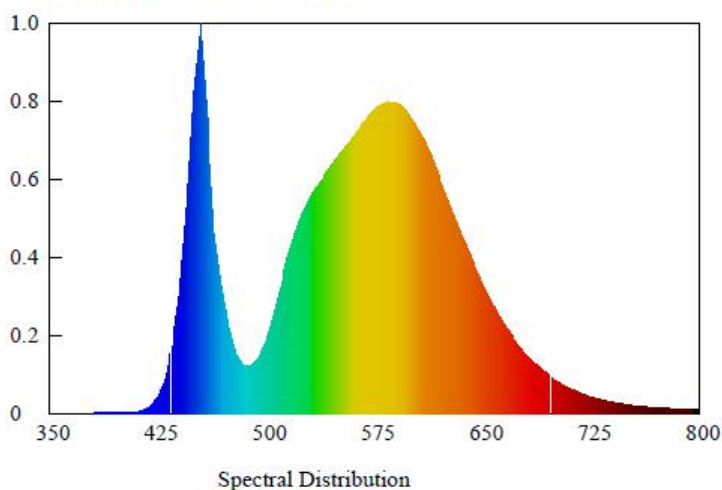
### 4.1 Test Data

| Test type | Voltage (V AC) | Frequency (Hz) | Current (A) | Power Factor | Power (W) |
|-----------|----------------|----------------|-------------|--------------|-----------|
| Input     | 220.02         | 50.0           | 0.5434      | 0.9880       | 118.12    |

| Test type | CCT (K) | CRI  | Duv      | Luminous flux (lm) | Luminous efficacy(lm/W) |
|-----------|---------|------|----------|--------------------|-------------------------|
| Output    | 3974    | 74.1 | -0.00078 | 18184.57           | 153.95                  |

### 4.2 Spectrum

#### Spectroradiometric Parameters



Chromaticity Coordinates:  $x=0.3811$   $y=0.3755$   $u'=0.226$   $v'=0.5011$

Correlated Color Temperature: 3974 K

Colour Fidelity Index:  $R_f=72$

Luminous Flux: 18184.57 lm

Chromaticity Difference:  $-0.00078D_{uv}$

Color Ratio:  $K_r=38.0\%$   $K_g=55.0\%$   $K_b=7.0\%$

Bandwidth: 16.2nm

Photosynthetically Active Radiation(PAR): 53.62W

Rendering Index:  $R_a=74.1$

$R_1=72$   $R_2=82$   $R_3=89$   $R_4=71$   $R_5=70$   $R_6=73$   $R_7=82$   $R_8=54$

$R_9=-22$   $R_{10}=56$   $R_{11}=65$   $R_{12}=40$   $R_{13}=75$   $R_{14}=93$   $R_{15}=67$   $R_e=64$

Dominant Wavelength: 578.0 nm(E)

Gamut Index:  $R_g=92$

Purity: 0.2710

Peak Wavelength: 455.0 nm

Radiant Flux: 54.836 W

Photosynthetic Photon Flux(PPF):252.33 $\mu$ mol/s



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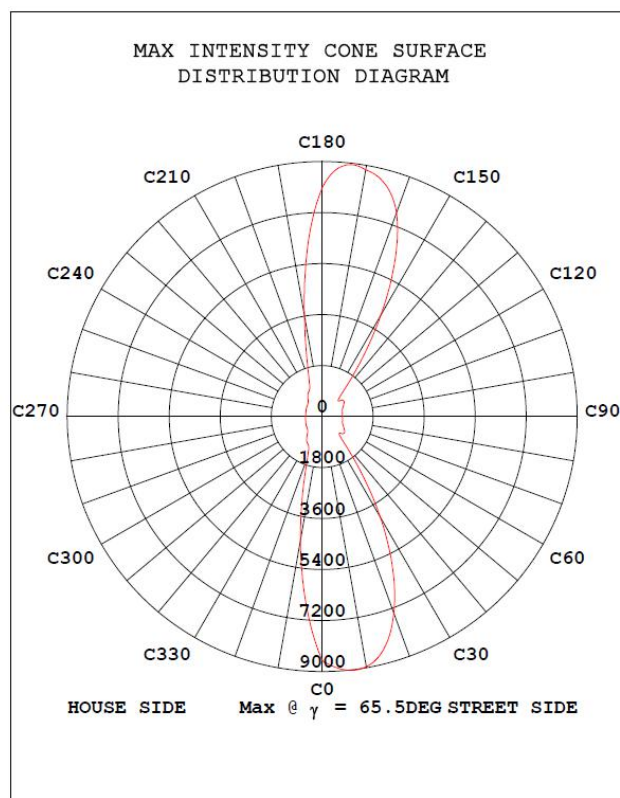
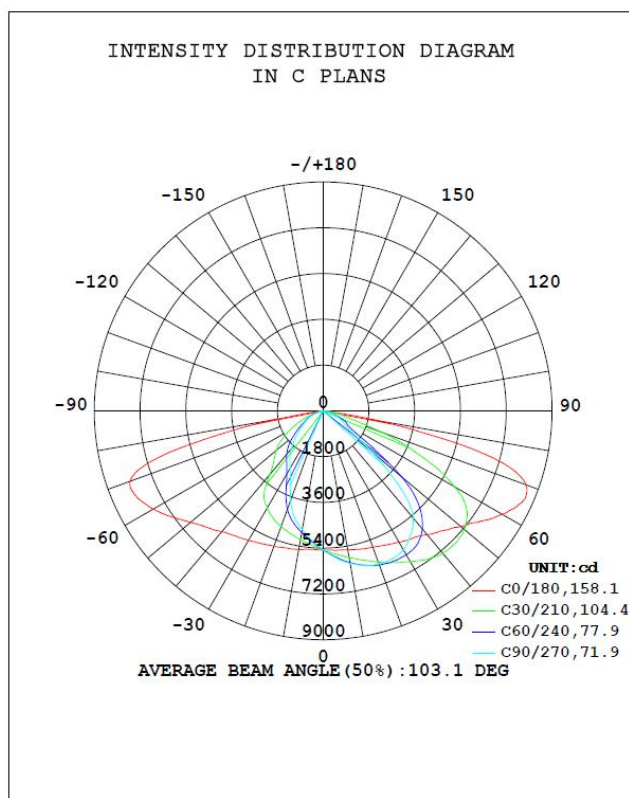
## 5. Goniophotometer Test results

### 5.1 Test Data

| Test type | Voltage (V AC) | Frequency (Hz) | Current (A) | Power Factor | Power (W) |
|-----------|----------------|----------------|-------------|--------------|-----------|
| Input     | 220.0          | 50.01          | 0.5435      | 0.9879       | 118.1     |

| Test type | Total Flux (lm) | Luminous efficacy(lm/W) | ZL (0~90° ) | ZL (80~90° ) |
|-----------|-----------------|-------------------------|-------------|--------------|
| Output    | 18195.8         | 154.06                  | 100%        | 0.7%         |

### 5.2 Luminous Intensity Distribution Diagram and C0 Plane Isolux Diagram (Unit : lx)





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### 5.3 Zonal Flux Diagram

| $\gamma$ | C0                    | C45   | C90   | C135  | C180 | C225  | C270   | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | $\Phi$ lum, lamp |
|----------|-----------------------|-------|-------|-------|------|-------|--------|-------|----------|-------------|--------------|------------------|
| 10       | 5551                  | 5967  | 6090  | 5968  | 5532 | 4974  | 4745   | 5000  | 0- 10    | 522.5       | 522.5        | 2.87, 2.87       |
| 20       | 5714                  | 6417  | 6405  | 6420  | 5655 | 4455  | 3737   | 4505  | 10- 20   | 1547        | 2070         | 11.4, 11.4       |
| 30       | 5968                  | 6719  | 6308  | 6737  | 5880 | 3467  | 2606   | 3577  | 20- 30   | 2451        | 4520         | 24.8, 24.8       |
| 40       | 6350                  | 6706  | 5510  | 6821  | 6204 | 2596  | 1950   | 2658  | 30- 40   | 3162        | 7682         | 42.2, 42.2       |
| 50       | 7066                  | 5669  | 2495  | 5705  | 6821 | 1896  | 1249   | 1968  | 40- 50   | 3486        | 11168        | 61.4, 61.4       |
| 60       | 8133                  | 2190  | 934.6 | 2154  | 7724 | 1095  | 772.9  | 1158  | 50- 60   | 3036        | 14205        | 78.1, 78.1       |
| 70       | 8480                  | 720.5 | 528.3 | 689.7 | 8079 | 507.2 | 386.4  | 519.3 | 60- 70   | 2451        | 16656        | 91.5, 91.5       |
| 80       | 2035                  | 223.3 | 161.1 | 202.9 | 1670 | 93.68 | 26.20  | 113.8 | 70- 80   | 1411        | 18066        | 99.3, 99.3       |
| 90       | 0                     | 0     | 0     | 0     | 0    | 0     | 0.0393 | 0     | 80- 90   | 129.6       | 18196        | 100, 100         |
| 100      | 0                     | 0     | 0     | 0     | 0    | 0     | 0      | 0     | 90-100   | 0.0004      | 18196        | 100, 100         |
| 110      | 0                     | 0     | 0     | 0     | 0    | 0     | 0      | 0     | 100-110  | 0           | 18196        | 100, 100         |
| 120      | 0                     | 0     | 0     | 0     | 0    | 0     | 0      | 0     | 110-120  | 0           | 18196        | 100, 100         |
| 130      | 0                     | 0     | 0     | 0     | 0    | 0     | 0      | 0     | 120-130  | 0           | 18196        | 100, 100         |
| 140      | 0                     | 0     | 0     | 0     | 0    | 0     | 0      | 0     | 130-140  | 0           | 18196        | 100, 100         |
| 150      | 0                     | 0     | 0     | 0     | 0    | 0     | 0      | 0     | 140-150  | 0           | 18196        | 100, 100         |
| 160      | 0                     | 0     | 0     | 0     | 0    | 0     | 0      | 0     | 150-160  | 0           | 18196        | 100, 100         |
| 170      | 0                     | 0     | 0     | 0     | 0    | 0     | 0      | 0     | 160-170  | 0           | 18196        | 100, 100         |
| 180      | 0                     | 0     | 0     | 0     | 0    | 0     | 0      | 0     | 170-180  | 0           | 18196        | 100, 100         |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |      |       |        |       |          | UNIT:lm     |              |                  |



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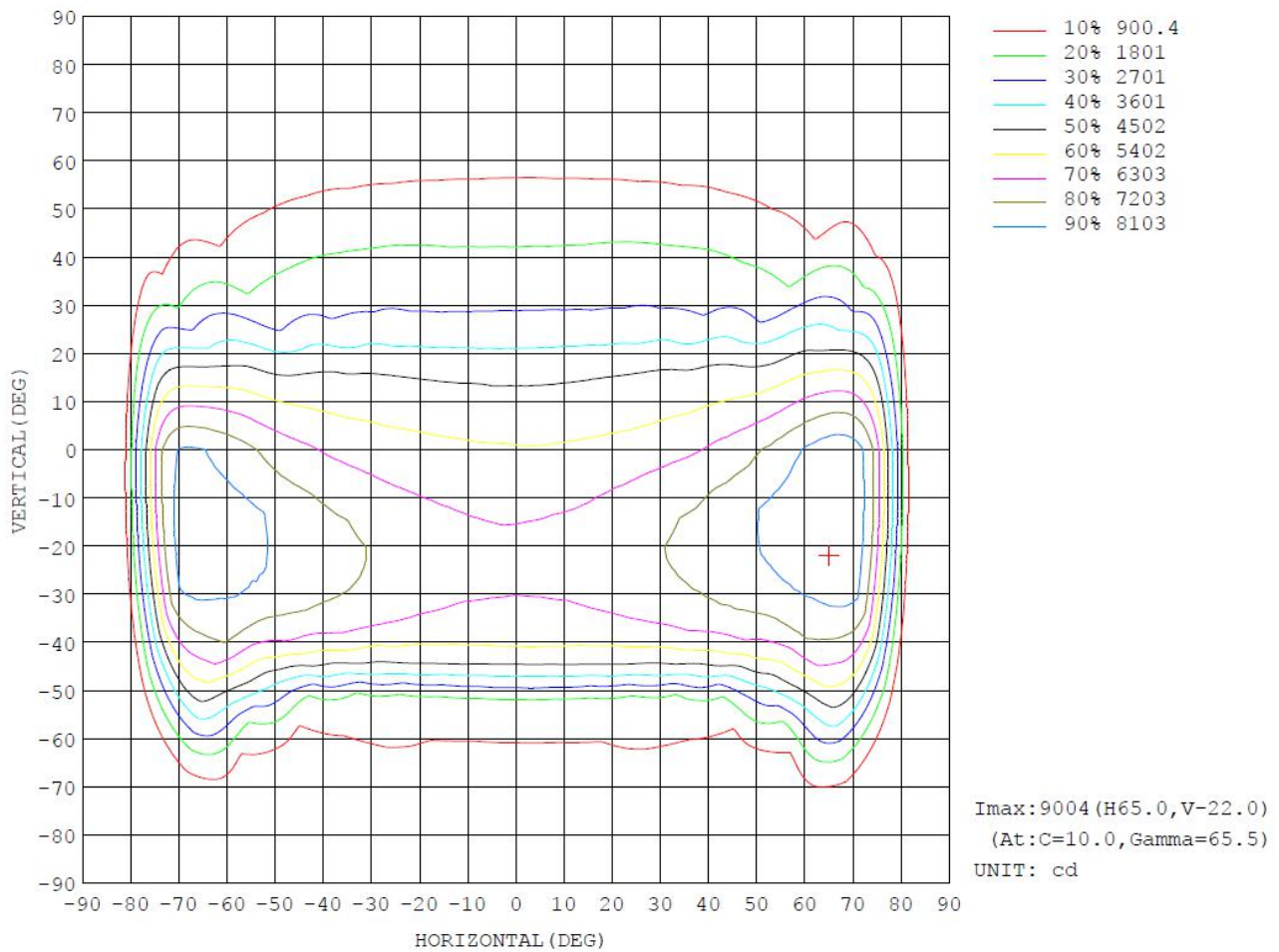
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## 5.4 Isocandela Diagram





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## 5.5 Luminous Distribution Intensity Data

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                  | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 | 5472 |
| 5                  | 5507 | 5548 | 5604 | 5653 | 5702 | 5742 | 5769 | 5792 | 5801 | 5812 | 5808 | 5791 | 5765 | 5739 | 5693 | 5651 | 5600 | 5532 | 5462 |
| 10                 | 5551 | 5656 | 5760 | 5865 | 5935 | 5998 | 6053 | 6071 | 6084 | 6090 | 6090 | 6067 | 6035 | 5996 | 5941 | 5849 | 5761 | 5640 | 5532 |
| 15                 | 5630 | 5795 | 5941 | 6072 | 6151 | 6230 | 6275 | 6280 | 6299 | 6285 | 6283 | 6288 | 6266 | 6237 | 6163 | 6075 | 5939 | 5767 | 5582 |
| 20                 | 5714 | 5961 | 6156 | 6323 | 6398 | 6436 | 6449 | 6424 | 6415 | 6405 | 6407 | 6416 | 6433 | 6438 | 6402 | 6311 | 6144 | 5929 | 5655 |
| 25                 | 5819 | 6170 | 6428 | 6579 | 6614 | 6597 | 6521 | 6461 | 6428 | 6414 | 6440 | 6458 | 6515 | 6572 | 6627 | 6574 | 6414 | 6118 | 5753 |
| 30                 | 5968 | 6412 | 6718 | 6842 | 6793 | 6645 | 6537 | 6399 | 6340 | 6308 | 6362 | 6429 | 6547 | 6676 | 6797 | 6842 | 6732 | 6368 | 5880 |
| 35                 | 6116 | 6682 | 7057 | 7126 | 6887 | 6636 | 6425 | 6160 | 6041 | 5975 | 6050 | 6199 | 6465 | 6709 | 6951 | 7134 | 7073 | 6658 | 6007 |
| 40                 | 6350 | 7063 | 7421 | 7312 | 6910 | 6503 | 6064 | 5716 | 5573 | 5510 | 5557 | 5713 | 6087 | 6609 | 7032 | 7379 | 7415 | 7045 | 6204 |
| 45                 | 6665 | 7479 | 7711 | 7357 | 6779 | 6039 | 5364 | 4888 | 4500 | 4331 | 4481 | 4874 | 5320 | 6101 | 6941 | 7477 | 7760 | 7410 | 6471 |
| 50                 | 7066 | 7929 | 7872 | 7243 | 6310 | 5027 | 4017 | 3017 | 2617 | 2495 | 2571 | 2946 | 3929 | 4979 | 6429 | 7395 | 7965 | 7839 | 6821 |
| 55                 | 7558 | 8409 | 7898 | 6910 | 5134 | 3219 | 1805 | 1389 | 1182 | 1156 | 1166 | 1316 | 1719 | 3102 | 5150 | 7027 | 8068 | 8312 | 7268 |
| 60                 | 8133 | 8781 | 7793 | 5962 | 3035 | 1344 | 1111 | 971  | 943  | 935  | 934  | 966  | 1080 | 1285 | 3022 | 6043 | 8033 | 8699 | 7724 |
| 65                 | 8581 | 8936 | 7472 | 4296 | 1255 | 973  | 930  | 790  | 750  | 733  | 744  | 778  | 907  | 941  | 1185 | 4286 | 7741 | 8840 | 8075 |
| 70                 | 8480 | 8841 | 6570 | 2430 | 748  | 694  | 629  | 571  | 539  | 528  | 533  | 558  | 606  | 662  | 717  | 2491 | 6647 | 8719 | 8079 |
| 75                 | 6605 | 7514 | 4805 | 979  | 460  | 434  | 395  | 355  | 331  | 322  | 324  | 345  | 376  | 406  | 435  | 1039 | 4632 | 6867 | 6202 |
| 80                 | 2035 | 2932 | 2111 | 509  | 229  | 217  | 197  | 174  | 165  | 161  | 162  | 167  | 183  | 196  | 210  | 478  | 1685 | 2261 | 1670 |
| 85                 | 112  | 204  | 302  | 143  | 70.4 | 62.7 | 53.6 | 49.2 | 45.9 | 44.8 | 43.7 | 44.5 | 45.7 | 49.8 | 56.9 | 105  | 192  | 141  | 96.3 |
| 90                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 95                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |



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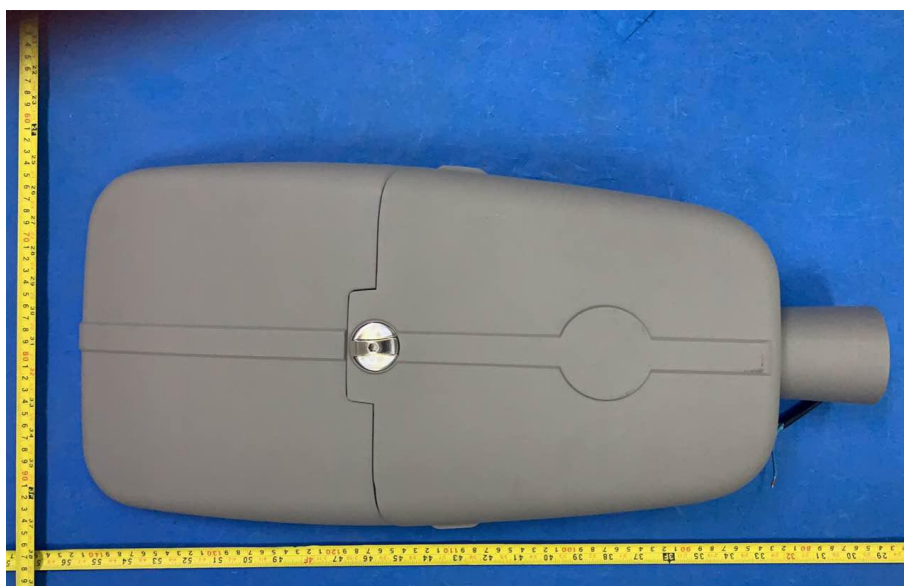
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## 6. Photo of sample:



----- End of test report -----