



ZHONGSHAN Y-CHEN LIGHTING TECHNOLOGY CO.LTD

TEST REPORT

| Prepared For : | ZHONGSHAN Y-CHEN LIGHTING TECH 6F,01B,No.28, Kanglong N0.3Rd, Xinma Zhongshan City | | A 100 |
|------------------|---|------|--------------|
| Product Name: | LED STREET LIGHT | Œ, | (E) |
| Model : | YC-S028-50W | 139 | |
| Prepared By: | Guangdong KEYS Testing Technology C Building 1, No.18, Shihuan Road, Dongc Guangdong, China | | i, Dongguan, |
| Test Date: | Jan 09, 2025 - Jan 14, 2025 | É | , (E) |
| Date of Report : | Feb. 12, 2025 | 25 | Ą |
| Report No.: | 200 | F (E | 25 |





TEST REPORT ELECTRICAL AND PHOTOMETRIC MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS ACCODING TO LM-79-08 APPROVED METHOD

Testing laboratory: Guangdong KEYS Testing Technology Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Testing location : Guangdong KEYS Testing Technology Co., Ltd.

Applicant : ZHONGSHAN Y-CHEN LIGHTING TECHNOLOGY CO.LTD

6F,01B,No.28, Kanglong No.3Rd, Xinmao Industrial, Henglan

Town, Zhongshan City

Test Procedure Electrical And Photometric Measurements of Solid-State Lighting

Products According to LM-79-08 Approved Method.

Non-standard test method: N/A

Type of test object : LED STREET LIGHT

Trademark N/A

Model/type reference: YC-S028-50W

Manufacturer of LED driver.....: TMX-50W 80-450V

LED driver surge protection.....: 8KV

LED type.....: LM3030

Model Number of LED chip.....: LM3030WW-6V-1W

Manufacturer...... SHENZHEN LVMING PHOTOELECTRIC CO., LTD

Rating ... : AC85-375V, 50/60Hz,50W

Manufacturer: ZHONGSHAN Y-CHEN LIGHTING TECHNOLOGY CO.LTD

6F,01B,No.28, Kanglong N0.3Rd, Xinmao Industrial, Henglan

Town, Zhongshan City

Particulars: test item vs. test requirements



| 100 | A. VVA |
|---|--|
| ame and address of the testing laborate | ory: Guangdong KEYS Testing Technology Co., Ltd. |
| | Building 1, No.18, Shihuan Road, Dongcheng |
| - 6 | Subdistrict, Dongguan, Guangdong, China |
| | A (%) |
| A 10% | |
| (F) | Tested by (name + signature): Sunny Li |
| | Signil |
| 6.69 | (fe. |
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| 9 | Approved by (name + signature): Jason Zhan |
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| | A CES |
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1.0 TEST METHOD

Test methods according to IESNA LM-79-08 following chapter:

4.0 SEASONING OF SSL PRODUCT

For the purpose of rating new SSL products, SSL products shall be tested with no seasoning.

5.0 STABILIZATION OF SSL PRODUCT

Before measurements are taken, the SSL product under test shall be operated long enough to reach stabilization and temperature equilibrium. The time required first abilization depends on the type of SSL products under test. The stabilization time typically ranges from 30 min (small integrated LED lamps) to 2 or more hours for large SSL luminaries. The SSL product during stabilization shall be operated in the ambient temperature as specified in section 2.2 and in the operating orientation as specified in 6. It can be Judged that stability is reached when the variation (maximum-minimum) of at least 3 reading of the light output and electrical power over a period of 30 min, taken 15 minutes apart, is less than 0.5%. The

stabilization time used for each SSL product shall be reported.

9.0 TEST METHODS FOR TLTAL LUMINOUS FLUX MEASUREMENT

10.0 LUMINOUS INTENSITY DISTRIDUTION

11.0 LUMINOUS EFFICACY

13.0 UNCERTAINTY STATEMENT

The uncertainty of the light output measurements is U=1.50% (K=2), the uncertainty of the Correlated Color Temperature measurements is U=14K (K=2), at the 95% confidence level. This calibration results are traceable to the NATIONAL INSTITUTE OF METROLOGY(NIM).

Remark:

1. 0 hour season, pre-heating the lamp for 45 minutes at least;

2. Ambient: 65%RH, 25°C.



SUMMARY OF TEST RESULT:

| SPECTRORADIOMETRIC TE | STING IN INTEGRA | ATING SPHI | | |
|------------------------------|------------------|------------|-------|-------|
| PHOTOMETRIC | (4 | ij | 11.50 | |
| Total integrated flux | | 5884 | 00 | |
| SPECTRORADIOMETRIC | | | 6 | 10,50 |
| Chromaticity ordinate x | * 60 | 0.3480 | 200 | (28) |
| Chromaticity ordinate y | 16 | 0.3616 | | 4 |
| Chromaticity ordinate u' | 6 | 0.2095 | | |
| Chromaticity ordinate v' | | 0.3266 | 1.50 | |
| Correlates color temp CCT(K) | | 4929 | 1039 | |
| Color rendering index(CRI) | | 80 | (F) | |
| Total radiant flux(W) | - 1000 1 | | | 160 |
| ELECTRICAL | 100 | | | 16 |
| Input voltage(Volts) | (4) | 219V | | |
| Input current(A) | - V | 0.228 | | |
| Input power(Watts) | | 48.89 | A.6 | |
| Power factor | L- | 0.98 | (30 | |
| Off state power(watts) | 7 | 0.0 | A | |
| EFFICACY | p.60 | | | . (|
| Lumens/watt | 130 | 120.36 | | |

| LUMINOUS INTENSITY DISTRIBUTION | | | | | | | |
|---------------------------------------|--------|--|--|--|--|--|--|
| Maximum intensity (if applicable)(cd) | 508.4 | | | | | | |
| Beam angle(50%lmax)(°) | 106.6 | | | | | | |
| Zonal lumens in the 0°-60°zone (%) | 85.85 | | | | | | |
| Zonal lumens in the 0°-90°zone (%) | 100.00 | | | | | | |
| Zonal lumens in the 0°-120°zone (%) | 100.00 | | | | | | |
| Zonal lumens in the 0°-180°zone (%) | 100.00 | | | | | | |

Note: The test data was only good for the test sample. It may have deviation for other test sample.





Lightsource Test Report

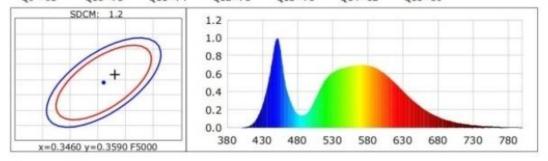
Product Infomation

Product Type: NSL1805S-50W **CIE Colorimetric Parameters**

Color Purity: 0.129 TM30: Rf= 75, Rg= 93 CRI: Ra=80

GAI: GAI_BB_8=85.7, GAI_BB_15=93.2, GAI_EES=77.5

| R1 = 71 | R2 = 79 | R3 = 84 | R4 = 73 | R5 = 70 | R6 = 70 | R7 = 84 | R8 =58 |
|----------|------------------|---------------|---------------|------------|---------|---------|--------|
| R9 =-25 | R10=48 | R11=69 | R12=40 | R13=72 | R14=91 | R15=65 | |
| Color Qu | uality Scale: Qa | = 73.7, Qf= 7 | 3.6, Qp= 74.7 | , Qg= 89.0 | | | |
| Q1 =80 | Q2 =97 | Q3 = 67 | Q4 =61 | Q5 =69 | Q6 =72 | Q7 = 76 | Q8 =85 |
| 09 = 93 | 010 = 78 | 011 = 74 | 012=75 | 013=76 | 014=62 | 015=69 | |





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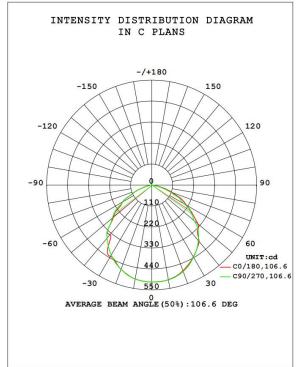
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

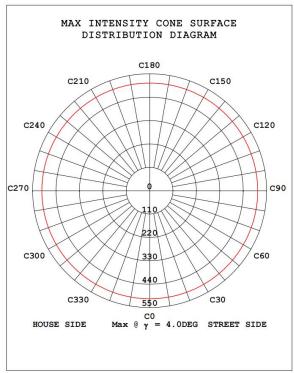
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STREETLIGHT PHOTOMETRIC TEST REPORT

| Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:5884.4 x1 lm | | | | | | |
|---|----------------|------------------|--|--|--|--|
| SPEC.: | TYPE: | WEIGHT: | | | | |
| MFR.: EVERFINE | DIM.: | SERIAL No.: | | | | |
| | SUR.:360*145mm | Shielding Angle: | | | | |

| DA | TA OF LAM | IP . | PHOTOMETRIC DATA | | | |
|-----------|-----------|--------|------------------|-------|-------------------|---------|
| MODEL | MODEL | | Imax (cd) | 508.4 | η street_up(%) | 0.0 |
| NOMINAL P | OWER (W) | | LOR(%) | 100.0 | η street_down(%) | 52.6 |
| RATED VOL | TAGE (V) | | TOTAL FLUX(lm) | 5884 | η house_up(%) | 0.0 |
| NOMINAL F | LUX (lm) | 5884.4 | MAXIMUM @(C,γ) | 0,4.0 | η house_down(%) | 47.4 |
| LAMPS INS | IDE | 1 | η up(%) | 0.0 | 76 FLASHAREA (m2) | 0.00100 |
| TEST VOLT | AGE (V) | | η down(%) | 100.0 | SLI | 16.152 |





C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature: 25.3DEG Operators: DAMIN Test Date: 2024-08-28

 γ Range: 0 - 90DEG γ Interval: 1.0DEG

y Interval: 1.0DEG Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411

Humidity:65.0%

Test Distance:10.200m [K=1.0000]



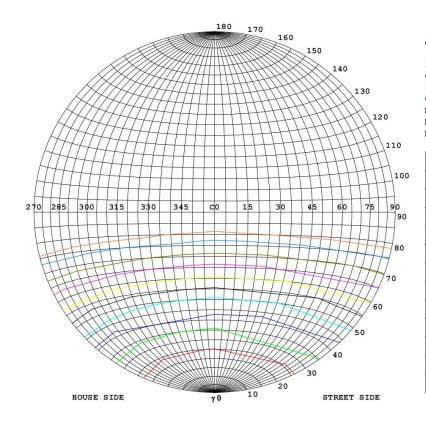
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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STREETLIGHT ISOCANDELA DIAGRAM

| Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:5884.4 x1 lm | | | | | | |
|---|----------------|------------------|--|--|--|--|
| SPEC.: | TYPE: | WEIGHT: | | | | |
| MFR.: EVERFINE | DIM.: | SERIAL No.: | | | | |
| | SUR.:360*145mm | Shielding Angle: | | | | |



Classification:

IES: Type V - Very Short CIE: Narrow - Short IES:Cut-off CIE:Full cut-off Max.At80:24.36cd/klm Max.At90:1.694cd/klm Max.80-90:24.36cd/klm

| ISOCANDEL | A DIAGRAM |
|-----------|-----------|
| UNIT | cd |
| max=100% | 508 |
| 90% | 458 |
| 80% | 407 |
| 70% | 356 |
| 60% | 305 |
| 50% | 254 |
| 40% | 203 |
| 30% | 153 |
| 20% | 102 |
| 10% | 51 |
| 5% | 25 |
| | |

C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature: 25.3DEG Operators: DAMIN Test Date: 2024-08-28

 γ Range: 0 - 90DEG γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411

Humidity:65.0%

Test Distance:10.200m [K=1.0000]



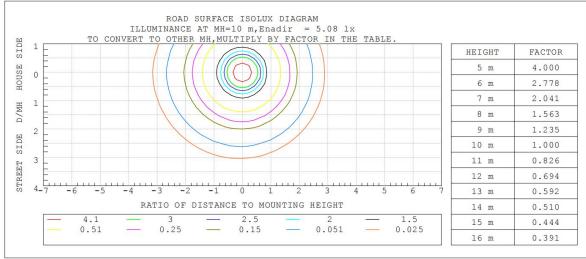
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature: 25.3DEG Operators: DAMIN Test Date: 2024-08-28 γ Range: Range: 0 - 90DEG Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411

Humidity:65.0%

Test Distance:10.200m [K=1.0000]



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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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ZONAL FLUX DIAGRAM

| Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:5884.4 x1 lm | | | | | | | |
|---|----------------|------------------|--|--|--|--|--|
| SPEC.: | TYPE: | WEIGHT: | | | | | |
| MFR.: EVERFINE | DIM.: | SERIAL No.: | | | | | |
| | SUR.:360*145mm | Shielding Angle: | | | | | |

| Y | C0 | C90 | C180 | C270 | | Y | Φ zone | Φ total | %lum,lamp |
|-----|-------|--------|-------|--------|--------------|---------|--------|---------|-----------|
| 10 | 503.9 | 504.6 | 499.6 | 499.9 | | 0- 10 | 48.24 | 48.24 | 3.68,3.68 |
| 20 | 478.4 | 481.7 | 469.9 | 470.1 | | 10- 20 | 138.6 | 186.9 | 14.2,14.2 |
| 30 | 435.7 | 437.9 | 432.2 | 423.6 | | 20- 30 | 209.5 | 396.3 | 30.2,30.2 |
| 40 | 386.4 | 379.8 | 338.8 | 363.1 | | 30- 40 | 251.7 | 648.1 | 49.4,49.4 |
| 50 | 314.7 | 291.1 | 262.5 | 269.7 | | 40- 50 | 254.8 | 902.8 | 68.8,68.8 |
| 60 | 209.2 | 195.3 | 175.4 | 170.6 | | 50- 60 | 213.0 | 1116 | 85,85 |
| 70 | 115.3 | 97.75 | 78.09 | 76.98 | | 60- 70 | 138.7 | 1255 | 95.6,95.6 |
| 80 | 31.98 | 9.262 | 14.01 | 5.159 | | 70- 80 | 51.93 | 1307 | 99.5,99.5 |
| 90 | 2.193 | 0.9552 | 2.223 | 0.3639 | | 80- 90 | 6.139 | 1313 | 100,100 |
| 100 | | | | | | 90-100 | | | |
| 110 | | | | | | 100-110 | | | |
| 120 | | | | | | 110-120 | | | |
| 130 | | 2 | | | | 120-130 | | | 31 |
| 140 | | | | | | 130-140 | | | |
| 150 | | | | | | 140-150 | | | |
| 160 | | | | | | 150-160 | | | |
| 170 | | | | | | 160-170 | | | |
| 180 | | | | | | 170-180 | | | |
| DEG | | | | LUMIN | INTENSITY:cd | | UNI | T:1m | |

C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Operators:DAMIN Test Date:2024-08-28 γ Range: 0 - 90DEG γ Interval: 1.0DEG

 $\dot{\gamma}$ Interval: 1.0DEG Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411

Humidity:65.0%

Test Distance:10.200m [K=1.0000]



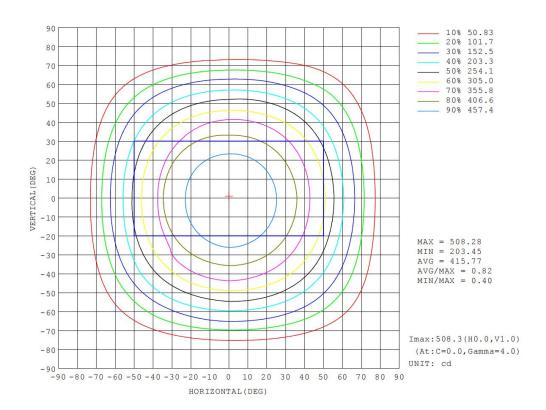
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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ISOCANDELA DIAGRAM

| Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:5884.4 x1 lm | | | | | | | |
|---|----------------|------------------|--|--|--|--|--|
| SPEC.: | TYPE: | WEIGHT: | | | | | |
| MFR.: EVERFINE | DIM.: | SERIAL No.: | | | | | |
| | SUR.:360*145mm | Shielding Angle: | | | | | |



C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Operators:DAMIN Test Date:2024-08-28 γ Range: 0 - 90DEG γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411

Humidity:65.0%

Test Distance:10.200m [K=1.0000]

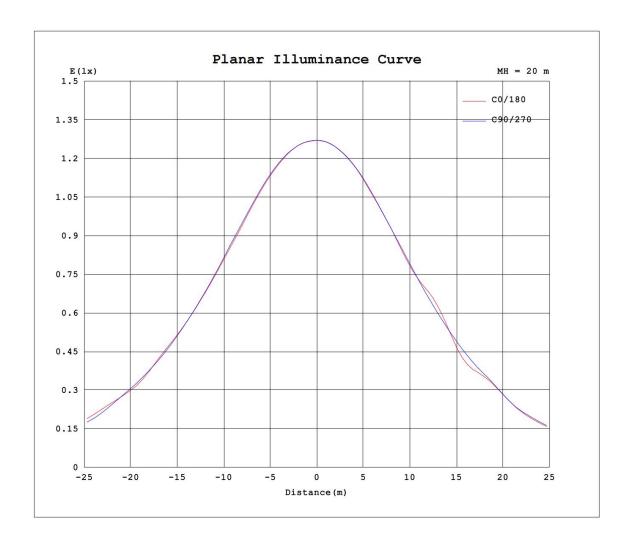


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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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Planar Illuminance Curve



C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature: 25.3DEG Operators: DAMIN Test Date: 2024-08-28

 γ Range: 0 - 90DEG γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411

Humidity:65.0%

Test Distance:10.200m [K=1.0000]



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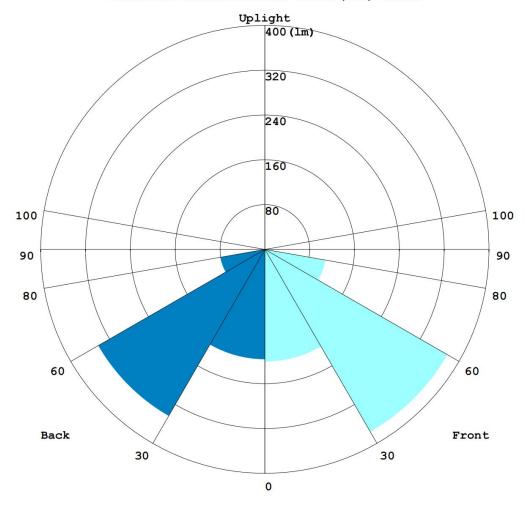
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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LCS REPORT

| Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:5884.4 x1 lm | | | | | | | | |
|---|----------------|------------------|--|--|--|--|--|--|
| SPEC.: | TYPE: | WEIGHT: | | | | | | |
| MFR.: EVERFINE | DIM.: | SERIAL No.: | | | | | | |
| | SUR.:360*145mm | Shielding Angle: | | | | | | |

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature: 25.3DEG Operators: DAMIN Test Date: 2024-08-28

 γ Range: 0 - 90DEG γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411

Humidity:65.0%

Test Distance:10.200m [K=1.0000]



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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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BUG REPORT

| Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:5884.4 x1 lm | | | | | | | | |
|---|----------------|------------------|--|--|--|--|--|--|
| SPEC.: | TYPE: | WEIGHT: | | | | | | |
| MFR.: EVERFINE | DIM.: | SERIAL No.: | | | | | | |
| | SUR.:360*145mm | Shielding Angle: | | | | | | |

| IESNA Luminaire Flux Distribution Tab | ole: | | | | |
|---------------------------------------|--------|-------------|--|--|--|
| Zone | Lumens | Luminaire % | | | |
| FL - Front-Low(0-30) | 200.17 | 15.2 | | | |
| FM - Front-Medium(30-60) | 376.08 | 28.7 | | | |
| FH - Front-High (60-80) | 109.79 | 8.4 | | | |
| FVH - Front-Very High(80-90) | 4.3028 | 0.3 | | | |
| Total Forward Light | 690.34 | 52.6 | | | |
| | | | | | |
| BL - Back-Low(0-30) | 196.17 | 14.9 | | | |
| BM - Back-Medium(30-60) | 343.44 | 26.2 | | | |
| BH - Back-High (60-80) | 80.874 | 6.2 | | | |
| BVH - Back-Very High (80-90) | 1.8365 | 0.1 | | | |
| Total Back Light | 622.32 | 47.4 | | | |
| | | | | | |
| UL - Uplight-Low(90-100) | 0 | 0.0 | | | |
| UH - Uplight-High(100-180) | 0 | 0.0 | | | |
| Total Up Light | 0 | 0.0 | | | |

| Zone | Downward | Upward | Total | | | |
|------------|----------|--------|--------|--|--|--|
| | Lumens | Lumens | Lumens | | | |
| House Side | 622.32 | 0 | 622.32 | | | |

690.34

C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature: 25.3DEG Operators: DAMIN Test Date: 2024-08-28

Street Side

BUG(Back, Up, Glare) Rating

 γ Range: 0 - 90DEG γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411

B1-U0-G0

690.34

Humidity:65.0%

Test Distance:10.200m [K=1.0000]

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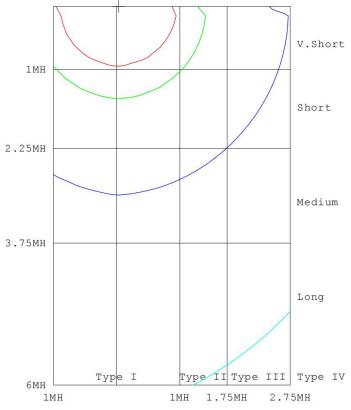
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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ROAD ISOCANDELA REPORT

| Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:5884.4 x1 lm | | | | | | | | |
|---|----------------|------------------|--|--|--|--|--|--|
| SPEC.: | TYPE: | WEIGHT: | | | | | | |
| MFR.: EVERFINE | DIM.: | SERIAL No.: | | | | | | |
| | SUR.:360*145mm | Shielding Angle: | | | | | | |

ROAD SURFACE ISOCANDELA DIAGRAM



Pavement Road

70% 355.570% 2542.0% 101.55% 2524.55% 12.705

C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature: 25.3DEG Operators: DAMIN Test Date: 2024-08-28

 γ Range: 0 - 90DEG γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411

Humidity:65.0%

Test Distance:10.200m [K=1.0000]



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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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LUMINOUS DISTRIBUTION INTENSITY DATA

| Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:5884.4 x1 lm | | | | | | | | |
|---|----------------|------------------|--|--|--|--|--|--|
| SPEC.: | TYPE: | WEIGHT: | | | | | | |
| MFR.: EVERFINE | DIM.: | SERIAL No.: | | | | | | |
| | SUR.:360*145mm | Shielding Angle: | | | | | | |

| Table1 | | | | | | | | | | | UNI | T: cd | |
|---------|------|------|------|------|--|---|--|--|--|---|-----|-------|----|
| C (DEG) | | | | | | | | | | | | | |
| γ (DEG) | 0 | 90 | 180 | 270 | | | | | | | | | |
| 0 | 508 | 508 | 508 | 508 | | | | | | | | | |
| 5 | 508 | 508 | 506 | 506 | | | | | | | | | |
| 10 | 504 | 505 | 500 | 500 | | | | | | | | | |
| 15 | 495 | 497 | 487 | 488 | | | | | | | | | |
| 20 | 478 | 482 | 470 | 470 | | | | | | | | | |
| 25 | 459 | 463 | 445 | 449 | | | | | | | | | |
| 30 | 436 | 438 | 432 | 424 | | | | | | | | | |
| 35 | 411 | 411 | 401 | 395 | | | | | | | | | |
| 40 | 386 | 380 | 339 | 363 | | | | | | | | | |
| 45 | 339 | 347 | 321 | 322 | | | | | | | | | |
| 50 | 315 | 291 | 263 | 270 | | | | | | | | | |
| 55 | 259 | 251 | 215 | 230 | | | | | | | | | |
| 60 | 209 | 195 | 175 | 171 | | | | | | | | | |
| 65 | 171 | 157 | 116 | 119 | | | | | | | | | |
| 70 | 115 | 97.8 | 78.1 | 77.0 | | | | | | | | | |
| 75 | 68.0 | 53.8 | 39.9 | 32.7 | | | | | | | | | |
| 80 | 32.0 | 9.26 | 14.0 | 5.16 | | | | | | | | | |
| 85 | 8.69 | 2.76 | 3.11 | 1.68 | | | | | | | | | 10 |
| 90 | 2.19 | 0.96 | 2.22 | 0.36 | | | | | | , | | | |
| | | | | | | | | | | | | | |
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C Range: 0 - 360DEG C Interval: 90.0DEG Test Speed: HIGH Temperature:25.3DEG Operators:DAMIN Test Date:2024-08-28 γ Range: 0 - 90DEG γ Interval: 1.0DEG

 $\dot{\gamma}$ Interval: 1.0DEG Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411

Humidity: 65.0%

Test Distance:10.200m [K=1.0000]





ANNEX A:

Photo-documentation





-- The end of report--