

LED TRUST

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TST-UFO/SLM-100W DATASHEET



 **Trust Overseas Group**

76 Saad Zaghloul St., Shebeen Al-Khaim - Egypt.
Tel: +201009190860 - Mobile: +201001653563
Email: info@trustosg.com

 **Guangzhou Trust Overseas Lighting Tech. Co., LTD.**

D19, Room 2304, No. 599, Tianhe North Road Tianhe
District, Guangzhou City, China.
Mobile: +8618520470711
Email: info@trustosg.com - sales1@trustosg.com





PRODUCT BENEFITS

- SMD LED design for high product reliability
- Reduced windage area thanks to slim design
- Instant on
- Dust and water protection according to IP66

PRODUCT FEATURES

- Color rendering index Ra: > 80
- Luminaire efficacy: up to 150 lm/W
- Heavy duty Die-cast aluminum housing
- Impact resistance: IK06
- Lifetime (L70/B50): up to 50,000 h



TECHNICAL DATA

Electrical data

| | |
|------------------------|--------------------------|
| Nominal wattage | 100 W |
| Operating mode | Separated electronic LED |
| Nominal voltage | Driver 85...265 V |
| Power factor λ | ≥ 0.97 |
| Mains frequency | 50/60 Hz |

Photometrical data

| | |
|--------------------------------------|----------------|
| Color temperature | 6500 : 7000 K |
| Luminous flux | 15000 lm |
| Luminous efficacy | Up to 150 lm/W |
| Standard deviation of color matching | ≤ 5 sdcM |
| Light color (designation) | Daylight |
| Color rendering index Ra | ≥ 80 |

Light technical data

| | |
|------------|------|
| Beam angle | 90 ° |
|------------|------|

Dimensions & weight

| | |
|----------------|-----------|
| Length | 270.0 mm |
| Width | 270.0 mm |
| height | 120.0 mm |
| Product weight | 2190.00 g |
| Cable length | 300 mm |

Colors & materials

| | |
|----------------|--------------------------------|
| Body material | Aluminum |
| Product color | Black |
| Housing color | Black |
| Cover material | PMMA 3030 Led Optical Led Lens |

Temperatures & operating conditions

| | |
|---------------------------|--------------|
| Ambient temperature range | -10...+70 °C |
|---------------------------|--------------|

Lifespan

| | |
|----------------------------|---------|
| Number of switching cycles | 30000 |
| Lifespan L70/B50 | 50000 h |

LOGISTICAL DATA

| Temperature range at storage | | -30...+70 °C | | |
|-------------------------------------|------------------------------|--------------------------------------|--------------|--|
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | |
| TST-UFO/SLM-100W | Folding box 1 | 270 mm x 270 mm x 120 mm | 2140.00 g | |
| TST-UFO/SLM-100W | Shipping carton box 1 | 340 mm x 430 mm x 145 mm | 2140.00 g | |



DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UFO High Bay Light Summary:

Report based on lamp delivering 1000 lumens.

| | |
|---|---|
| Maximum Intensity (Luminaire orientation as tested.) | 572.6 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal |
|---|---|

| | | |
|-------------|----------------|-----------------|
| Beam Spread | At 10% of Imax | 119.6V x 119.0H |
| | At 50% of Imax | 81.1V x 85.0H |
| | At 90% of Imax | 39.4V x 27.4H |

| | | |
|-----------|----------------|------------------------|
| Beam Flux | Total | 1000.1 lumens per klm. |
| | To 10% of Imax | 936.5 lumens per klm. |
| | To 50% of Imax | 715.3 lumens per klm. |
| | To 90% of Imax | 161.1 lumens per klm. |

| | |
|--------------|---------|
| Upward LOR | 0.0 % |
| Downward LOR | 100.0 % |

| | |
|--|---------|
| Luminaire Efficiency(Light Output Ratio) | 100.0 % |
|--|---------|

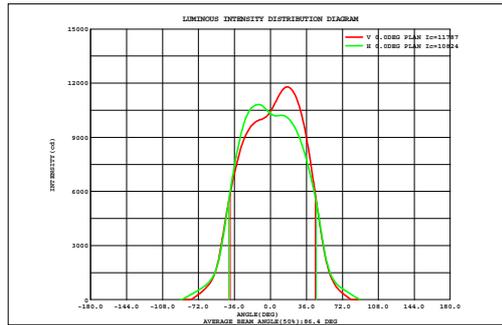
H(θ) Range:-90 - 90DEG
H(θ) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-06-19

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.660m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

| | | | |
|---|--------------------------|------------------------------------|------------------------------|
| Test:U:219.8V I:0.6598A | POWER:99.5W | PF:0.9892 | Lamp Flux:14597.32 lm |
| NAME: UFO HIGH BAY LIGHT | TYPE: LED | WEIGHT:2190G | |
| LED CHIP:PHILIPS LUMILEDS LUXEON 3030 2D | DIM.:Φ270*H120mm | SERIAL No.:TST-UFO/SLM-100W | |
| LED CHIP QTY: 120PCS | C R index Ra: ≥80 | MFR.: EVERFINE | |



| DATA OF LAMP | | Eff:147.45lm/W | |
|-------------------------|-------------------------|------------------------|-----------------|
| MODEL | TST-UFO/SLM-150W | Imax(cd) | 11787 |
| NOMINAL POWER(W) | 150 | AVAILABILITY(%) | 97.7 |
| RATED VOLTAGE(V) | 230.0 | Avai. FLUX(lm) | 21392.70 |
| NOMINAL FLUX(lm) | 21896.32 | LOR(%) | 100.0 |
| LAMPS INSIDE | 1 | TOTAL FLUX(lm) | 21896.32 |
| TEST VOLTAGE(V) | 230 | θ @50%(H,V) | 85,81DEG |

| AREA FLUX DIAGRAM | | | | | | | | | | | | | | | | | UNIT:lm | | F t | F a |
|-------------------|------|------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|---------|------|-------|-------|
| 90 | 0.01 | 0.06 | 0.20 | 0.54 | 1.23 | 2.21 | 3.22 | 4.03 | 4.66 | 5.01 | 5.03 | 4.76 | 3.79 | 2.46 | 1.44 | 0.70 | 0.23 | 0.03 | 39.6 | 0.00 |
| 80 | 0.02 | 0.15 | 0.60 | 1.87 | 4.48 | 7.91 | 11.2 | 13.5 | 15.0 | 15.5 | 14.8 | 13.3 | 10.2 | 6.37 | 3.29 | 1.31 | 0.37 | 0.04 | 120 | 0.00 |
| 70 | 0.02 | 0.25 | 1.35 | 4.49 | 9.40 | 15.5 | 21.7 | 26.4 | 29.6 | 30.2 | 28.0 | 23.9 | 17.8 | 11.4 | 6.07 | 2.33 | 0.50 | 0.05 | 229 | 24.7 |
| 60 | 0.03 | 0.38 | 2.72 | 7.70 | 15.8 | 27.4 | 43.7 | 61.5 | 74.7 | 77.4 | 68.0 | 50.6 | 32.2 | 18.5 | 9.50 | 3.82 | 0.74 | 0.05 | 495 | 403 |
| 50 | 0.03 | 0.64 | 4.24 | 11.6 | 25.9 | 54.7 | 98.4 | 139 | 164 | 170 | 155 | 118 | 69.4 | 32.9 | 14.2 | 5.44 | 1.11 | 0.06 | 1066 | 1013 |
| 40 | 0.03 | 0.97 | 5.74 | 16.4 | 43.1 | 98.1 | 160 | 207 | 235 | 246 | 235 | 191 | 125 | 58.8 | 21.3 | 7.13 | 1.51 | 0.05 | 1651 | 1614 |
| 30 | 0.03 | 1.25 | 7.06 | 21.8 | 65.1 | 136 | 202 | 251 | 280 | 295 | 289 | 247 | 173 | 88.9 | 30.3 | 8.83 | 1.83 | 0.05 | 2099 | 2070 |
| 20 | 0.03 | 1.45 | 8.01 | 26.7 | 84.1 | 162 | 230 | 274 | 299 | 318 | 320 | 284 | 208 | 113 | 38.8 | 10.3 | 2.04 | 0.05 | 2380 | 2354 |
| 10 | 0.02 | 1.52 | 8.42 | 29.3 | 93.9 | 177 | 245 | 285 | 303 | 325 | 337 | 304 | 227 | 125 | 43.6 | 11.1 | 2.12 | 0.04 | 2518 | 2493 |
| 0 | 0.02 | 1.51 | 8.32 | 28.4 | 92.2 | 177 | 247 | 288 | 311 | 336 | 344 | 307 | 226 | 123 | 42.7 | 11.0 | 2.11 | 0.04 | 2544 | 2518 |
| -10 | 0.03 | 1.42 | 7.74 | 24.5 | 78.6 | 161 | 233 | 283 | 314 | 336 | 333 | 287 | 202 | 106 | 36.6 | 10.1 | 2.02 | 0.04 | 2416 | 2388 |
| -20 | 0.03 | 1.21 | 6.71 | 19.1 | 55.9 | 127 | 199 | 255 | 291 | 306 | 291 | 238 | 159 | 79.0 | 27.8 | 8.60 | 1.80 | 0.05 | 2068 | 2035 |
| -30 | 0.03 | 0.91 | 5.41 | 14.3 | 33.7 | 79.1 | 141 | 193 | 225 | 232 | 211 | 163 | 103 | 49.4 | 19.5 | 6.93 | 1.46 | 0.05 | 1478 | 1435 |
| -40 | 0.03 | 0.60 | 3.96 | 10.3 | 20.6 | 38.8 | 68.4 | 102 | 125 | 130 | 114 | 84.7 | 52.9 | 28.1 | 13.3 | 5.26 | 1.06 | 0.05 | 800 | 735 |
| -50 | 0.03 | 0.37 | 2.47 | 6.95 | 13.4 | 21.4 | 30.7 | 40.7 | 48.3 | 50.7 | 46.8 | 38.0 | 27.0 | 16.9 | 9.02 | 3.66 | 0.68 | 0.05 | 357 | 213 |
| -60 | 0.02 | 0.25 | 1.24 | 3.92 | 8.11 | 13.0 | 17.7 | 21.4 | 23.8 | 24.7 | 23.7 | 20.8 | 15.8 | 10.4 | 5.65 | 2.14 | 0.46 | 0.05 | 193 | 0.00 |
| -70 | 0.01 | 0.14 | 0.60 | 1.69 | 3.70 | 6.39 | 9.08 | 11.2 | 12.6 | 13.1 | 12.6 | 11.2 | 8.63 | 5.50 | 2.91 | 1.20 | 0.34 | 0.04 | 101 | 0.00 |
| -80 | 0.01 | 0.05 | 0.15 | 0.39 | 0.82 | 1.43 | 2.15 | 2.84 | 3.39 | 3.73 | 3.81 | 3.65 | 2.96 | 2.01 | 1.26 | 0.65 | 0.22 | 0.03 | 29.5 | 0.00 |
| -90 | 0.01 | 0.05 | 0.15 | 0.39 | 0.82 | 1.43 | 2.15 | 2.84 | 3.39 | 3.73 | 3.81 | 3.65 | 2.96 | 2.01 | 1.26 | 0.65 | 0.22 | 0.03 | 29.5 | 0.00 |
| | -90 | -80 | -70 | -60 | -50 | -40 | -30 | -20 | HORIZONTAL(DEG) | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | | | |
| F t | 0.47 | 13.1 | 74.9 | 230 | 650 | 1306 | 1964 | 2458 | 2760 | 2914 | 2832 | 2392 | 1664 | 877 | 327 | 100 | 20.6 | 0.82 | 20584 | --- |
| F a | 0.00 | 0.00 | 0.00 | 115 | 559 | 1218 | 1876 | 2370 | 2673 | 2826 | 2745 | 2304 | 1577 | 792 | 236 | 5.26 | 0.00 | 0.00 | --- | 19296 |

one-half-peak spread: U:38.6,D:42.9 , L:57.4,R:28.1 NEMA Beam Type: Type 6

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-06-19

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.660m [K=1.0000]
Remarks:

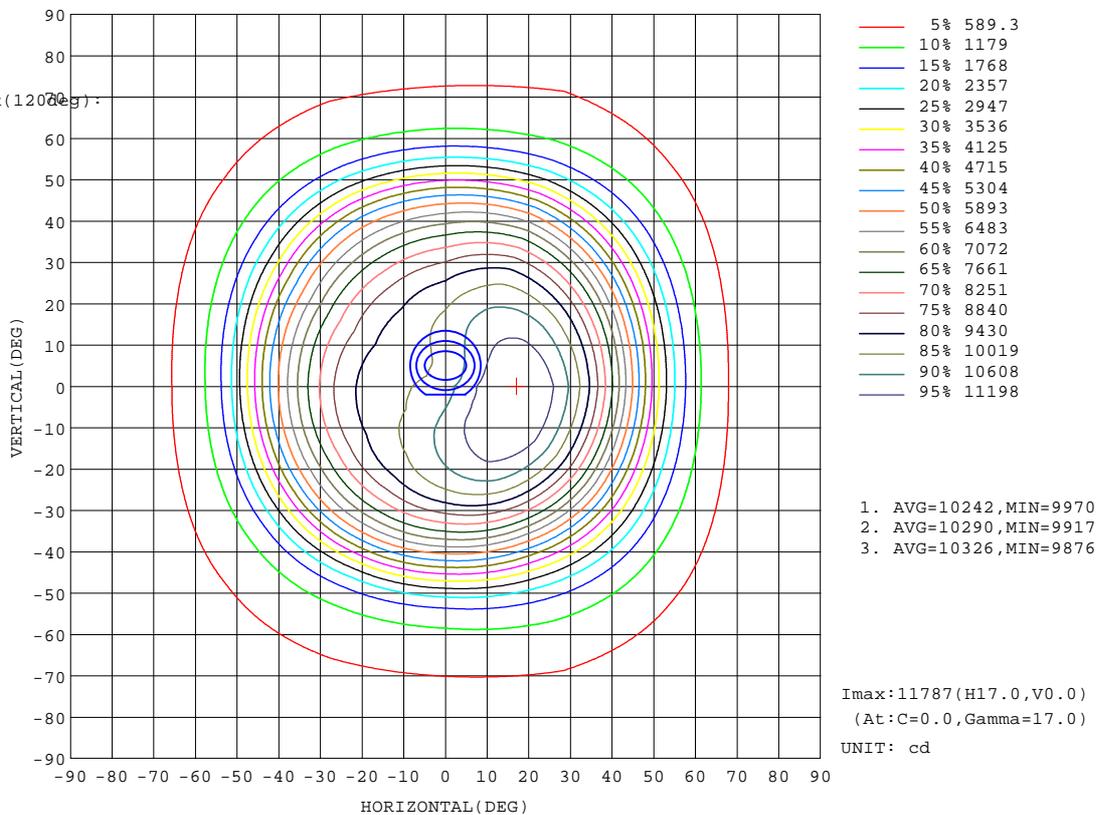
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

| | | | |
|---|-------------------------|--------------------------|------------------------------------|
| Test:U:219.8V I:0.6598A | POWER:99.5W | PF:0.9892 | Lamp Flux:14597.32 lm |
| NAME: UFO HIGH BAY LIGHT | TYPE: LED | WEIGHT:2190G | SERIAL No.:TST-UFO/SLM-100W |
| LED CHIP:PHILIPS LUMILEDS LUXEON 3030 2D | DIM.:Φ270*H120mm | C R index Ra: ≥80 | MFR.: EVERFINE |
| LED CHIP QTY: 120PCS | | | |

Conical surface Flux(90deg):
 15716 lm
 %lum = 76.3%
 %lamp = 76.4%

Conical surface Flux(120deg):
 19266 lm
 %lum = 93.6%
 %lamp = 93.6%



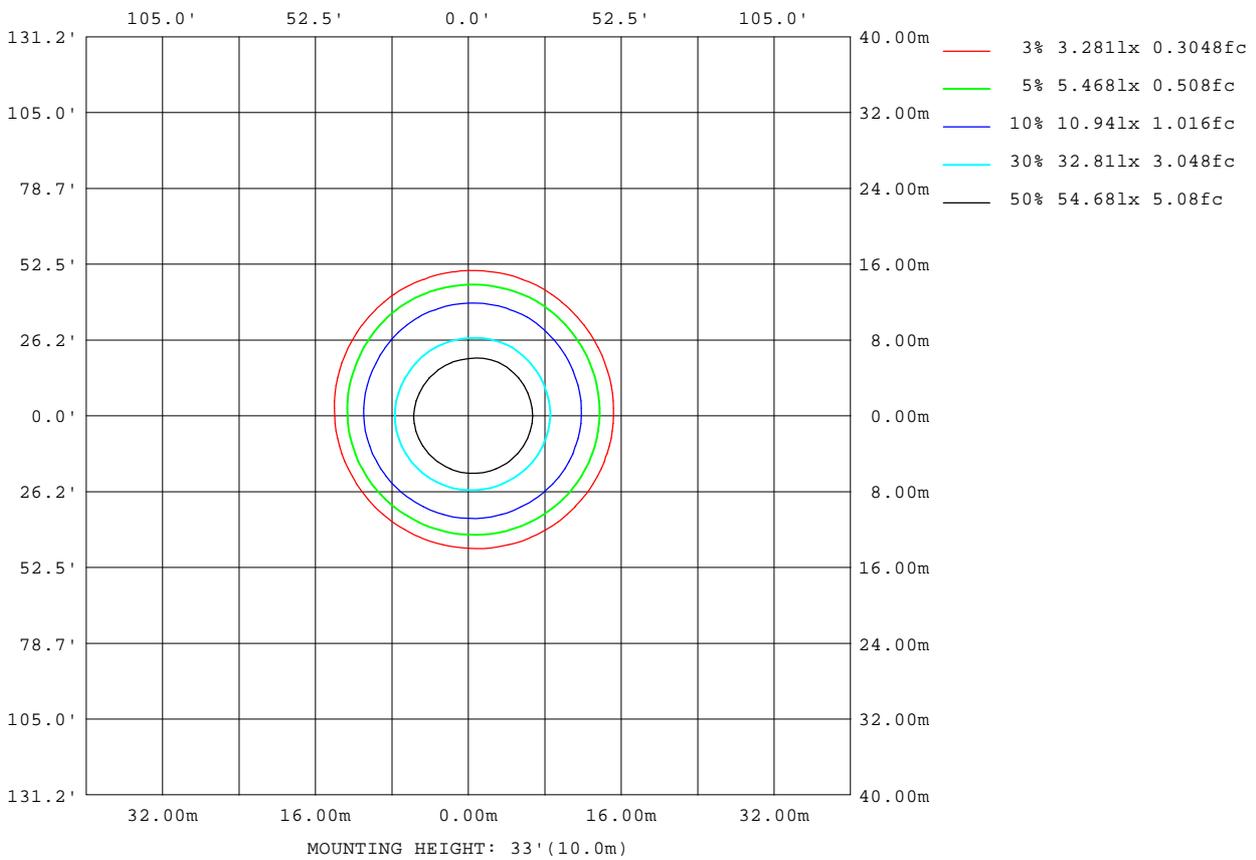
H(β) Range:-90 - 90DEG
 H(β) Interval: 0.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-06-19

V(B) Range:-90 - 90DEG
 V(B) Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:7.660m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

| | | | |
|---|--------------------------|------------------------------------|------------------------------|
| Test:U:219.8V I:0.6598A | POWER:99.5W | PF:0.9892 | Lamp Flux:14597.32 lm |
| NAME: UFO HIGH BAY LIGHT | TYPE: LED | WEIGHT:2190G | |
| LED CHIP:PHILIPS LUMILEDS LUXEON 3030 2D | DIM.:Φ270*H120mm | SERIAL No.:TST-UFO/SLM-100W | |
| LED CHIP QTY: 120PCS | C R index Ra: ≥80 | MFR.: EVERFINE | |



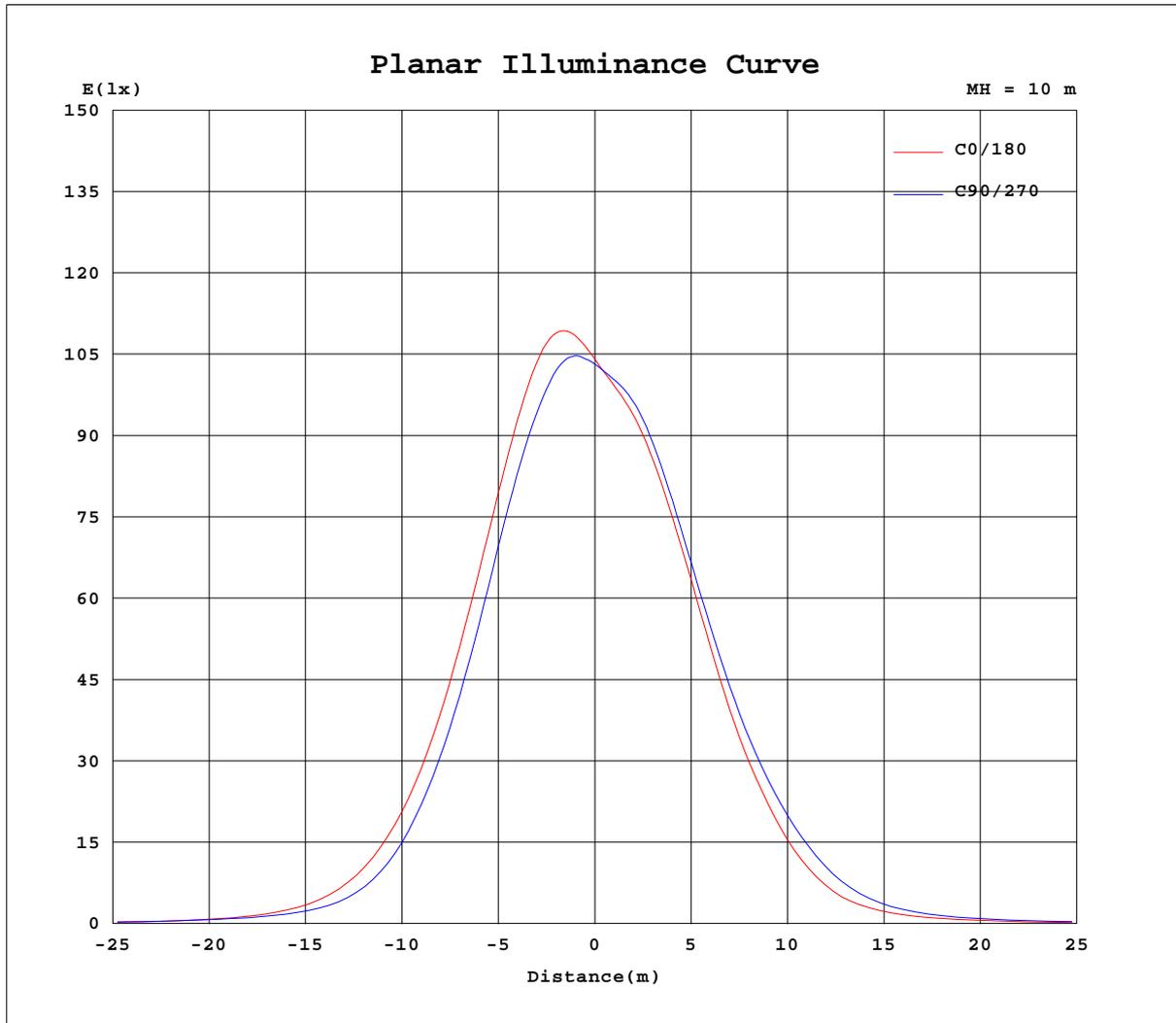
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-06-19

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.660m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Planar Illuminance Curve

| | | | |
|---|-------------------------|--------------------------|------------------------------------|
| Test:U:219.8V I:0.6598A | POWER:99.5W | PF:0.9892 | Lamp Flux:14597.32 lm |
| NAME: UFO HIGH BAY LIGHT | TYPE: LED | WEIGHT:2190G | SERIAL No.:TST-UFO/SLM-100W |
| LED CHIP:PHILIPS LUMILEDS LUXEON 3030 2D | DIM.:Φ270*H120mm | C R index Ra: ≥80 | MFR.: EVERFINE |
| LED CHIP QTY: 120PCS | | | |



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-06-19

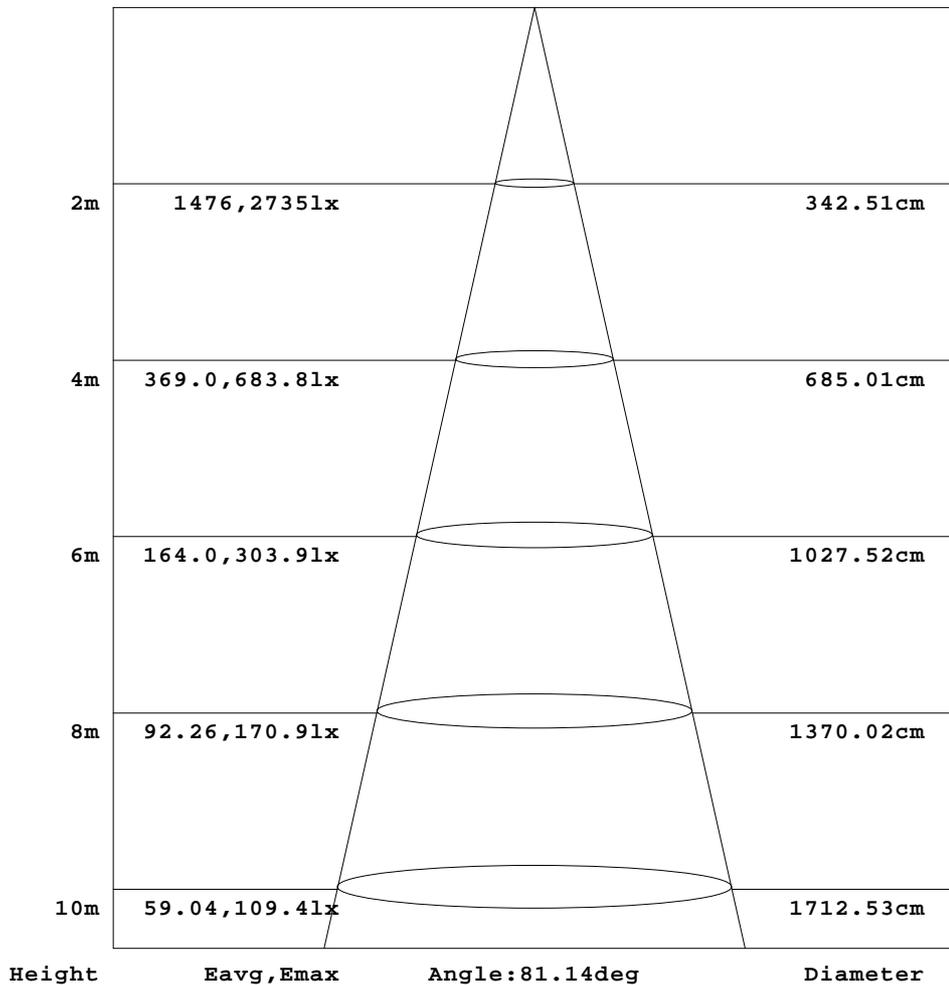
V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.660m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

| | | | |
|---|--------------------------|------------------------------------|------------------------------|
| Test:U:219.8V I:0.6598A | POWER:99.5W | PF:0.9892 | Lamp Flux:14597.32 lm |
| NAME: UFO HIGH BAY LIGHT | TYPE: LED | WEIGHT:2190G | |
| LED CHIP:PHILIPS LUMILEDS LUXEON 3030 2D | DIM.:Φ270*H120mm | SERIAL No.:TST-UFO/SLM-100W | |
| LED CHIP QTY: 120PCS | C R index Ra: ≥80 | MFR.: EVERFINE | |

Flux out:14017 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-06-19

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.660m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | | | | | | | | |
|---|--|--------------------|--|--------------------------|--|------------------------------------|--|--|--|
| Test:U:219.8V I:0.6598A | | POWER:99.5W | | PF:0.9892 | | Lamp Flux:14597.32 lm | | | |
| NAME: UFO HIGH BAY LIGHT | | | | TYPE: LED | | WEIGHT:2190G | | | |
| LED CHIP:PHILIPS LUMILEDS LUXEON 3030 2D | | | | DIM.:Φ270*H120mm | | SERIAL No.:TST-UFO/SLM-100W | | | |
| LED CHIP QTY: 120PCS | | | | C R index Ra: ≥80 | | MFR.: EVERFINE | | | |

Table--1

UNIT: ×10cd

| H(DEG) V(DEG) | -90 | -85 | -80 | -75 | -70 | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -90 | 0.25 | 0.31 | 0.38 | 0.44 | 0.50 | 0.56 | 0.63 | 0.60 | 0.57 | 0.54 | 0.51 | 0.48 | 0.45 | 0.44 | 0.43 | 0.42 | 0.41 | 0.39 | 0.38 |
| -85 | 0.25 | 0.35 | 0.43 | 0.53 | 0.65 | 0.84 | 1.25 | 1.73 | 2.35 | 3.09 | 3.92 | 4.83 | 5.83 | 6.90 | 7.92 | 8.86 | 9.73 | 10.5 | 11.2 |
| -80 | 0.25 | 0.38 | 0.53 | 0.90 | 1.58 | 2.55 | 3.79 | 5.42 | 7.37 | 9.58 | 12.0 | 14.6 | 17.2 | 19.3 | 21.2 | 22.9 | 24.5 | 25.9 | 27.0 |
| -75 | 0.25 | 0.42 | 0.76 | 1.56 | 2.81 | 4.48 | 6.55 | 9.27 | 12.6 | 16.5 | 20.8 | 25.1 | 29.3 | 32.6 | 35.4 | 37.8 | 39.8 | 41.5 | 42.7 |
| -70 | 0.25 | 0.46 | 1.06 | 2.25 | 4.01 | 6.33 | 9.48 | 14.5 | 20.3 | 26.2 | 32.3 | 38.2 | 43.7 | 47.8 | 51.1 | 54.0 | 56.4 | 58.2 | 59.4 |
| -65 | 0.25 | 0.52 | 1.36 | 2.89 | 5.10 | 8.57 | 14.8 | 21.8 | 29.7 | 37.4 | 44.9 | 51.9 | 58.4 | 63.9 | 68.4 | 72.2 | 75.4 | 77.8 | 79.3 |
| -60 | 0.25 | 0.59 | 1.63 | 3.44 | 6.22 | 13.0 | 21.4 | 30.2 | 39.9 | 49.2 | 58.2 | 66.8 | 74.8 | 81.9 | 88.5 | 95.0 | 100 | 104 | 106 |
| -55 | 0.25 | 0.66 | 1.86 | 3.88 | 8.67 | 18.3 | 28.7 | 39.2 | 50.4 | 61.8 | 73.0 | 84.1 | 96.3 | 108 | 120 | 132 | 143 | 151 | 155 |
| -50 | 0.25 | 0.73 | 2.04 | 4.30 | 12.4 | 24.2 | 36.3 | 48.4 | 61.7 | 75.9 | 91.6 | 109 | 129 | 153 | 180 | 209 | 234 | 252 | 260 |
| -45 | 0.25 | 0.79 | 2.16 | 5.12 | 16.4 | 29.9 | 43.8 | 58.4 | 74.1 | 93.1 | 117 | 149 | 191 | 239 | 292 | 344 | 386 | 413 | 425 |
| -40 | 0.25 | 0.83 | 2.22 | 6.70 | 20.6 | 35.5 | 51.3 | 68.8 | 88.8 | 116 | 156 | 217 | 291 | 371 | 446 | 511 | 560 | 592 | 605 |
| -35 | 0.25 | 0.86 | 2.22 | 8.73 | 24.3 | 40.7 | 59.1 | 79.7 | 107 | 148 | 219 | 312 | 416 | 514 | 597 | 663 | 714 | 749 | 768 |
| -30 | 0.25 | 0.87 | 2.16 | 10.7 | 27.7 | 45.7 | 66.6 | 91.6 | 129 | 193 | 295 | 418 | 537 | 637 | 717 | 782 | 836 | 877 | 901 |
| -25 | 0.25 | 0.88 | 2.06 | 12.7 | 30.5 | 50.4 | 73.9 | 104 | 157 | 252 | 379 | 514 | 633 | 728 | 809 | 873 | 927 | 970 | 1000 |
| -20 | 0.25 | 0.87 | 1.94 | 14.2 | 33.1 | 54.5 | 80.2 | 118 | 187 | 309 | 455 | 592 | 702 | 798 | 878 | 936 | 980 | 1021 | 1055 |
| -15 | 0.25 | 0.85 | 1.77 | 15.6 | 35.0 | 58.0 | 86.3 | 131 | 218 | 360 | 516 | 649 | 757 | 851 | 920 | 968 | 1003 | 1041 | 1078 |
| -10 | 0.25 | 0.82 | 1.55 | 16.4 | 36.4 | 60.5 | 90.9 | 143 | 247 | 401 | 559 | 687 | 798 | 885 | 941 | 976 | 1009 | 1041 | 1081 |
| -5 | 0.25 | 0.78 | 1.31 | 16.8 | 37.0 | 62.0 | 93.9 | 151 | 267 | 427 | 583 | 711 | 822 | 903 | 953 | 983 | 1000 | 1022 | 1059 |
| 0 | 0.25 | 0.74 | 1.05 | 16.7 | 37.1 | 62.5 | 95.1 | 155 | 276 | 439 | 593 | 719 | 830 | 907 | 956 | 984 | 998 | 1011 | 1042 |
| 5 | 0.25 | 0.78 | 1.34 | 16.9 | 37.3 | 62.7 | 95.8 | 156 | 275 | 436 | 588 | 711 | 819 | 895 | 944 | 971 | 986 | 997 | 1019 |
| 10 | 0.25 | 0.83 | 1.59 | 16.7 | 36.8 | 61.8 | 94.4 | 152 | 263 | 418 | 568 | 690 | 795 | 872 | 923 | 955 | 978 | 994 | 1021 |
| 15 | 0.25 | 0.86 | 1.80 | 16.0 | 35.7 | 59.8 | 90.9 | 143 | 241 | 388 | 535 | 654 | 757 | 836 | 896 | 938 | 964 | 990 | 1017 |
| 20 | 0.25 | 0.89 | 1.95 | 14.8 | 33.9 | 56.7 | 85.7 | 131 | 216 | 347 | 488 | 607 | 706 | 795 | 861 | 908 | 940 | 969 | 992 |
| 25 | 0.25 | 0.90 | 2.01 | 13.3 | 31.5 | 52.7 | 79.2 | 118 | 187 | 297 | 428 | 548 | 651 | 737 | 808 | 859 | 900 | 929 | 948 |
| 30 | 0.25 | 0.91 | 2.09 | 11.4 | 28.8 | 48.0 | 71.9 | 104 | 157 | 243 | 358 | 480 | 584 | 668 | 737 | 792 | 835 | 866 | 885 |
| 35 | 0.25 | 0.90 | 2.15 | 9.40 | 25.5 | 42.8 | 63.8 | 90.4 | 130 | 192 | 284 | 394 | 499 | 586 | 654 | 707 | 749 | 779 | 798 |
| 40 | 0.25 | 0.88 | 2.16 | 7.27 | 22.0 | 37.5 | 55.7 | 77.2 | 106 | 149 | 215 | 299 | 394 | 483 | 556 | 608 | 648 | 675 | 692 |
| 45 | 0.25 | 0.84 | 2.12 | 5.55 | 18.0 | 31.9 | 47.2 | 65.0 | 86.2 | 116 | 156 | 214 | 281 | 355 | 425 | 480 | 522 | 551 | 567 |
| 50 | 0.25 | 0.80 | 2.04 | 4.42 | 13.8 | 26.2 | 39.1 | 53.6 | 70.6 | 90.5 | 116 | 148 | 188 | 238 | 284 | 328 | 365 | 392 | 406 |
| 55 | 0.25 | 0.74 | 1.90 | 3.72 | 9.60 | 20.6 | 31.4 | 42.9 | 57.0 | 72.0 | 88.0 | 106 | 128 | 152 | 176 | 200 | 221 | 237 | 246 |
| 60 | 0.25 | 0.67 | 1.72 | 3.33 | 6.61 | 14.6 | 24.2 | 33.6 | 44.8 | 56.5 | 68.7 | 80.7 | 92.8 | 104 | 115 | 125 | 135 | 142 | 146 |
| 65 | 0.25 | 0.60 | 1.48 | 2.89 | 4.87 | 9.36 | 16.9 | 25.4 | 34.0 | 43.1 | 52.4 | 61.6 | 70.7 | 77.9 | 83.0 | 87.4 | 91.4 | 94.4 | 96.0 |
| 70 | 0.25 | 0.54 | 1.21 | 2.38 | 3.96 | 6.03 | 10.1 | 16.8 | 24.3 | 31.5 | 38.6 | 45.6 | 52.5 | 57.4 | 61.1 | 64.1 | 66.5 | 68.2 | 69.2 |
| 75 | 0.25 | 0.47 | 0.94 | 1.78 | 2.99 | 4.49 | 6.31 | 9.63 | 14.6 | 20.1 | 25.9 | 31.6 | 37.0 | 40.5 | 43.3 | 45.7 | 47.7 | 49.3 | 50.4 |
| 80 | 0.25 | 0.41 | 0.68 | 1.17 | 1.91 | 2.89 | 4.08 | 6.23 | 8.81 | 11.7 | 15.0 | 18.5 | 22.3 | 24.8 | 26.9 | 28.8 | 30.5 | 32.0 | 33.2 |
| 85 | 0.25 | 0.37 | 0.50 | 0.69 | 0.96 | 1.31 | 1.80 | 2.79 | 3.99 | 5.37 | 6.88 | 8.50 | 10.2 | 11.3 | 12.4 | 13.4 | 14.3 | 15.1 | 15.8 |
| 90 | 0.25 | 0.33 | 0.40 | 0.48 | 0.56 | 0.63 | 0.71 | 0.75 | 0.79 | 0.83 | 0.88 | 0.92 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-06-19

V(β) Range:-90 - 90DEG
V(β) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.660m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | | | |
|---|--|--------------------|--------------------------|------------------------------------|
| Test:U:219.8V I:0.6598A | | POWER:99.5W | PF:0.9892 | Lamp Flux:14597.32 lm |
| NAME: UFO HIGH BAY LIGHT | | | TYPE: LED | WEIGHT:2190G |
| LED CHIP:PHILIPS LUMILEDS LUXEON 3030 2D | | | DIM.:Φ270*H120mm | SERIAL No.:TST-UFO/SLM-100W |
| LED CHIP QTY: 120PCS | | | C R index Ra: ≥80 | MFR.: EVERFINE |

Table--2

UNIT: ×10cd

| H(DEG) V(DEG) | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -90 | 0.63 | 0.88 | 1.12 | 1.37 | 1.61 | 1.86 | 2.11 | 2.35 | 2.60 | 2.85 | 3.10 | 3.34 | 2.83 | 2.31 | 1.79 | 1.28 | 0.76 | 0.25 |
| -85 | 11.7 | 12.2 | 12.5 | 12.8 | 13.0 | 13.1 | 11.7 | 10.4 | 9.19 | 8.10 | 7.16 | 6.34 | 4.97 | 3.72 | 2.62 | 1.67 | 0.88 | 0.25 |
| -80 | 27.3 | 27.4 | 27.3 | 26.9 | 26.2 | 25.3 | 22.1 | 19.1 | 16.2 | 13.6 | 11.2 | 9.15 | 6.95 | 5.05 | 3.40 | 2.04 | 0.98 | 0.25 |
| -75 | 43.0 | 43.0 | 42.6 | 41.8 | 40.7 | 38.7 | 34.5 | 29.9 | 25.1 | 20.4 | 15.9 | 12.2 | 8.95 | 6.26 | 4.10 | 2.38 | 1.08 | 0.25 |
| -70 | 60.0 | 60.1 | 59.4 | 58.2 | 56.3 | 53.2 | 47.8 | 42.0 | 36.0 | 29.8 | 23.4 | 17.1 | 11.3 | 7.47 | 4.72 | 2.66 | 1.16 | 0.25 |
| -65 | 80.3 | 80.3 | 79.3 | 77.5 | 74.8 | 70.0 | 63.1 | 55.5 | 47.8 | 40.0 | 31.9 | 24.0 | 15.8 | 8.99 | 5.30 | 2.90 | 1.23 | 0.25 |
| -60 | 108 | 108 | 107 | 103 | 98.7 | 90.6 | 81.1 | 71.4 | 61.3 | 50.9 | 41.0 | 31.4 | 21.7 | 12.1 | 5.85 | 3.09 | 1.29 | 0.25 |
| -55 | 159 | 158 | 153 | 144 | 134 | 120 | 106 | 91.4 | 77.1 | 63.7 | 50.8 | 39.0 | 27.8 | 16.2 | 6.83 | 3.22 | 1.32 | 0.25 |
| -50 | 264 | 258 | 242 | 220 | 195 | 170 | 144 | 120 | 97.5 | 78.5 | 62.0 | 47.0 | 33.8 | 20.9 | 8.69 | 3.30 | 1.34 | 0.25 |
| -45 | 427 | 414 | 385 | 346 | 302 | 254 | 205 | 162 | 126 | 96.8 | 74.5 | 55.9 | 39.6 | 25.5 | 11.1 | 3.32 | 1.33 | 0.25 |
| -40 | 608 | 591 | 556 | 503 | 443 | 372 | 298 | 226 | 167 | 122 | 89.3 | 65.3 | 45.6 | 29.5 | 13.7 | 3.36 | 1.31 | 0.25 |
| -35 | 774 | 760 | 724 | 667 | 595 | 508 | 410 | 313 | 221 | 153 | 107 | 75.3 | 51.8 | 33.1 | 16.4 | 3.48 | 1.27 | 0.25 |
| -30 | 915 | 908 | 877 | 820 | 742 | 642 | 529 | 408 | 290 | 192 | 128 | 86.2 | 58.0 | 36.5 | 18.9 | 3.78 | 1.21 | 0.25 |
| -25 | 1021 | 1023 | 1001 | 949 | 871 | 767 | 641 | 502 | 361 | 237 | 150 | 97.0 | 63.7 | 39.5 | 20.9 | 4.03 | 1.13 | 0.25 |
| -20 | 1084 | 1100 | 1088 | 1047 | 976 | 873 | 738 | 587 | 430 | 284 | 175 | 109 | 69.0 | 42.3 | 22.6 | 4.52 | 1.04 | 0.25 |
| -15 | 1114 | 1139 | 1140 | 1114 | 1053 | 951 | 818 | 658 | 490 | 327 | 197 | 119 | 73.4 | 44.4 | 23.7 | 4.82 | 0.93 | 0.25 |
| -10 | 1124 | 1155 | 1169 | 1151 | 1097 | 1004 | 875 | 713 | 537 | 361 | 217 | 128 | 77.1 | 45.9 | 24.4 | 4.91 | 0.82 | 0.25 |
| -5 | 1108 | 1155 | 1176 | 1166 | 1121 | 1036 | 913 | 750 | 569 | 385 | 230 | 133 | 79.3 | 46.6 | 24.6 | 4.81 | 0.70 | 0.25 |
| 0 | 1092 | 1145 | 1177 | 1172 | 1131 | 1052 | 932 | 770 | 586 | 397 | 237 | 136 | 80.0 | 46.5 | 24.4 | 4.50 | 0.57 | 0.25 |
| 5 | 1066 | 1121 | 1154 | 1149 | 1111 | 1034 | 918 | 760 | 580 | 394 | 235 | 135 | 79.7 | 46.8 | 24.7 | 4.86 | 0.71 | 0.25 |
| 10 | 1064 | 1107 | 1130 | 1122 | 1080 | 1003 | 887 | 733 | 558 | 378 | 225 | 131 | 77.9 | 46.2 | 24.5 | 5.02 | 0.84 | 0.25 |
| 15 | 1056 | 1086 | 1096 | 1082 | 1036 | 957 | 840 | 689 | 521 | 350 | 209 | 123 | 74.5 | 44.9 | 23.9 | 4.98 | 0.97 | 0.25 |
| 20 | 1026 | 1049 | 1051 | 1029 | 978 | 896 | 777 | 632 | 471 | 312 | 188 | 113 | 70.3 | 42.9 | 22.9 | 4.74 | 1.08 | 0.25 |
| 25 | 977 | 995 | 994 | 962 | 904 | 815 | 698 | 560 | 409 | 266 | 163 | 102 | 65.0 | 40.1 | 21.3 | 4.29 | 1.18 | 0.25 |
| 30 | 909 | 920 | 914 | 876 | 809 | 719 | 607 | 476 | 339 | 219 | 139 | 90.2 | 59.3 | 37.2 | 19.4 | 4.07 | 1.27 | 0.25 |
| 35 | 816 | 820 | 805 | 767 | 699 | 610 | 501 | 381 | 265 | 175 | 116 | 78.1 | 53.1 | 33.8 | 16.9 | 3.78 | 1.33 | 0.25 |
| 40 | 703 | 699 | 680 | 641 | 573 | 486 | 386 | 285 | 199 | 137 | 96.3 | 67.7 | 47.1 | 30.2 | 14.3 | 3.66 | 1.38 | 0.25 |
| 45 | 570 | 560 | 534 | 493 | 430 | 352 | 272 | 200 | 146 | 108 | 78.3 | 58.0 | 40.9 | 26.4 | 11.8 | 3.60 | 1.41 | 0.25 |
| 50 | 407 | 394 | 369 | 333 | 285 | 230 | 181 | 141 | 110 | 84.0 | 64.8 | 49.0 | 34.9 | 21.9 | 9.42 | 3.57 | 1.41 | 0.25 |
| 55 | 246 | 238 | 222 | 199 | 175 | 149 | 124 | 103 | 83.6 | 67.8 | 53.3 | 40.6 | 29.1 | 17.3 | 7.53 | 3.48 | 1.39 | 0.25 |
| 60 | 146 | 142 | 135 | 126 | 116 | 104 | 90.6 | 78.5 | 66.5 | 54.7 | 43.2 | 32.9 | 23.0 | 13.2 | 6.43 | 3.31 | 1.35 | 0.25 |
| 65 | 96.0 | 94.6 | 91.9 | 88.9 | 85.2 | 79.2 | 70.7 | 61.8 | 52.5 | 43.2 | 34.2 | 25.6 | 17.3 | 9.99 | 5.77 | 3.11 | 1.30 | 0.25 |
| 70 | 69.7 | 69.5 | 68.7 | 67.3 | 65.2 | 61.5 | 54.7 | 47.6 | 40.4 | 33.2 | 25.9 | 18.9 | 12.6 | 8.16 | 5.10 | 2.85 | 1.22 | 0.25 |
| 75 | 50.8 | 50.8 | 50.4 | 49.5 | 48.3 | 46.1 | 40.7 | 35.0 | 29.3 | 23.6 | 18.2 | 13.5 | 9.79 | 6.77 | 4.41 | 2.53 | 1.14 | 0.25 |
| 80 | 33.5 | 33.6 | 33.4 | 32.9 | 32.2 | 31.1 | 27.1 | 23.1 | 19.3 | 15.8 | 12.7 | 9.92 | 7.53 | 5.43 | 3.64 | 2.16 | 1.04 | 0.25 |
| 85 | 16.2 | 16.5 | 16.7 | 16.8 | 16.8 | 16.7 | 14.8 | 13.0 | 11.2 | 9.62 | 8.15 | 6.81 | 5.31 | 3.98 | 2.80 | 1.79 | 0.94 | 0.25 |
| 90 | 1.49 | 2.03 | 2.56 | 3.09 | 3.63 | 4.16 | 4.10 | 4.05 | 3.99 | 3.93 | 3.87 | 3.81 | 3.22 | 2.62 | 2.03 | 1.43 | 0.84 | 0.25 |

H_(b) Range:-90 - 90DEG
H_(b) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-06-19

V(B) Range:-90 - 90DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.660m [K=1.0000]
Remarks: