

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

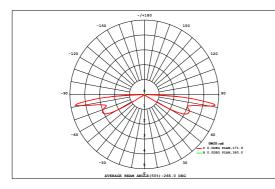
| Maximum Intensity    |                        | 836.6 cd per klm.      |
|----------------------|------------------------|------------------------|
| (Luminaire orientat  | cion as tested.)       | 0.0 degrees vertical   |
|                      |                        | 0.0 degrees horizontal |
|                      |                        |                        |
| Beam Spread          | At 10% of Imax         | 360.0V x 177.0H        |
|                      | At 50% of Imax         | 360.0V x 171.9H        |
|                      | At 90% of Imax         | 360.0V x 165.4H        |
|                      |                        |                        |
| Beam Flux            | Total                  | 999.9 lumens per klm.  |
| Deam IIux            | To 10% of Imax         | 975.2 lumens per klm.  |
|                      | To 50% of Imax         | 474.2 lumens per klm.  |
|                      | To 90% of Imax         | 130.9 lumens per klm.  |
|                      |                        |                        |
|                      | Upward LOR             | 41.3 %                 |
|                      | Downward LOR           | 58.7 %                 |
| Luminaire Efficience | y (Light Output Ratio) | 100.0 %                |

Test Distance:13.563m [K=1.0000]



# LUMINAIRE PHOTOMETRIC TEST REPORT

| Test:U:11.95V I:0.4521A P:3.712W PF:0.6872 Freq | :59.98Hz Lamp Flux:8.37961x1 | lm               |
|---|------------------------------|------------------|
| NAME: LED                                       | TYPE:M4B1-3.5W-30K-A+LAB-0   | 21 WEIGHT:       |
| SPEC.:  | DIM.:                        | SERIAL No.:1     |
| MFR.: EVERFINE                                  | SUR.:                        | Shielding Angle: |



| DATA OF LAI       | MP       | Eff:2.26lm/V    |           |  |  |  |  |  |  |
|-------------------|----------|-----------------|-----------|--|--|--|--|--|--|
| MOMBIL-3.5W-30K-A | +LAB-021 | Imax (cd)       | 7.011     |  |  |  |  |  |  |
| NOMINAL POWER (W) | 3.5      | AVAILABILITY(%) | 92.1      |  |  |  |  |  |  |
| RATED VOLTAGE (V) | 12       | Avai. FLUX(lm)  | 7.715     |  |  |  |  |  |  |
| NOMINAL FLUX(lm)  | 8.37961  | LOR (%)         | 100.0     |  |  |  |  |  |  |
| LAMPS INSIDE      | 1        | TOTAL FLUX(lm)  | 8.380     |  |  |  |  |  |  |
| TEST VOLTAGE (V)  | 12       | θ @50%(H,V)     | 172,360DE |  |  |  |  |  |  |

|          |      |      |       |       |       |       |       |       |        |        |       |      |      |      |      |      |      |      |      | _    |
|----------|------|------|-------|-------|-------|-------|-------|-------|--------|--------|-------|------|------|------|------|------|------|------|------|------|
| 90       |      |      |       |       |       |       |       | ARE   | A FLU  | X DIA  | GRAM  |      |      |      |      |      | UNIT | : 1m | Φt   | Фа   |
| 80       | 0.00 | 0.00 | 0.01  | 0.02  | 0.02  | 0.02  | 0.02  | 0.01  | 0.00   | 0.00   | 0.01  | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.22 | 0.17 |
| 70       | 0.00 | 0.01 | 0.03  | 0.05  | 0.04  | 0.04  | 0.03  | 0.02  | 0.01   | 0.01   | 0.02  | 0.03 | 0.04 | 0.05 | 0.05 | 0.04 | 0.02 | 0.00 | 0.45 | 0.41 |
| 60       | 0.00 | 0.02 | 0.04  | 0.03  | 0.03  | 0.03  | 0.02  | 0.02  | 0.01   | 0.01   | 0.02  | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.03 | 0.00 | 0.43 | 0.39 |
| 50       | 0.01 | 0.03 | 0.03  | 0.03  | 0.04  | 0.03  | 0.01  | 0.01  | 0.00   | 0.00   | 0.01  | 0.01 | 0.03 | 0.04 | 0.04 | 0.03 | 0.03 | 0.01 | 0.37 | 0.34 |
| 40       | 0.01 | 0.03 | 0.03  | 0.04  | 0.03  | 0.01  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00 | 0.01 | 0.02 | 0.04 | 0.03 | 0.03 | 0.01 | 0.27 | 0.25 |
| 30       | 0.01 | 0.02 | 0.03  | 0.03  | 0.01  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00 | 0.00 | 0.01 | 0.03 | 0.03 | 0.03 | 0.01 | 0.21 | 0.20 |
|          | 0.01 | 0.02 | 0.03  | 0.02  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.02 | 0.01 | 0.18 | 0.17 |
| (DEG)    | 0.01 | 0.02 | 0.03  | 0.01  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.02 | 0.01 | 0.16 | 0.16 |
|          | 0.01 | 0.02 | 0.04  | 0.01  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.03 | 0.01 | 0.16 | 0.15 |
| ICZ      | 0.01 | 0.02 | 0.04  | 0.01  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.03 | 0.01 | 0.16 | 0.15 |
| VERTICAL | 0.01 | 0.02 | 0.03  | 0.01  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.02 | 0.01 | 0.16 | 0.16 |
| -30      | 0.01 | 0.02 | 0.03  | 0.02  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.02 | 0.01 | 0.18 | 0.17 |
| -40      | 0.01 | 0.02 | 0.03  | 0.03  | 0.01  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00 | 0.00 | 0.01 | 0.03 | 0.03 | 0.03 | 0.01 | 0.21 | 0.20 |
| -50      | 0.01 | 0.03 | 0.03  | 0.04  | 0.03  | 0.01  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00  | 0.00 | 0.01 | 0.02 | 0.04 | 0.03 | 0.03 | 0.01 | 0.27 | 0.25 |
| -60      | 0.01 | 0.03 | 0.03  | 0.03  | 0.04  | 0.03  | 0.01  | 0.01  | 0.00   | 0.00   | 0.01  | 0.01 | 0.03 | 0.04 | 0.04 | 0.03 | 0.03 | 0.01 | 0.37 | 0.34 |
| -70      | 0.00 | 0.02 | 0.04  | 0.03  | 0.03  | 0.03  | 0.02  | 0.02  | 0.01   | 0.01   | 0.02  | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.03 | 0.00 | 0.43 | 0.39 |
| -80      | 0.00 | 0.01 | 0.03  | 0.05  | 0.04  | 0.04  | 0.03  | 0.02  | 0.01   | 0.01   | 0.02  | 0.03 | 0.04 | 0.05 | 0.05 | 0.04 | 0.02 | 0.00 | 0.45 | 0.41 |
| -90      | 0.00 | 0.00 | 0.01  | 0.02  | 0.02  | 0.02  | 0.02  | 0.01  | 0.00   | 0.00   | 0.01  | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.00 | 0.00 | 0.22 | 0.17 |
|          | 90 - | 30 - | 70 -6 | 50 -5 | 50 -4 | 10 -3 | 30 -2 | 20 но | RIZON' | ral (D | EG) 2 | 0 3  | 0 4  | 0 5  | 0 6  | 0 7  | 0 8  | 0 9  | 0    |      |
| φt       | 0.10 | 0.38 | 0.55  | 0.48  | 0.33  | 0.24  | 0.17  | 0.10  | 0.03   | 0.03   | 0.11  | 0.18 | 0.26 | 0.35 | 0.50 | 0.58 | 0.41 | 0.11 | 5    |      |
| Фа       | 0.10 | 0.38 | 0.55  | 0.46  | 0.31  | 0.23  | 0.14  | 0.02  | 0.00   | 0.00   | 0.03  | 0.15 | 0.23 | 0.32 | 0.48 | 0.58 | 0.40 | 0.11 |      | 4    |

one-half-peak spread: U:0.5,D:0.5 , L:4.9,R:5.1 NEMA Beam Type: Type 7

H( $\beta$ ) Range:-90 - 90DEG H( $\beta$ ) Interval: 0.5DEG Test Speed: HIGH

Temperature: 25.3DEG Operators: ADMIN Test Date: 2020-10-28 V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

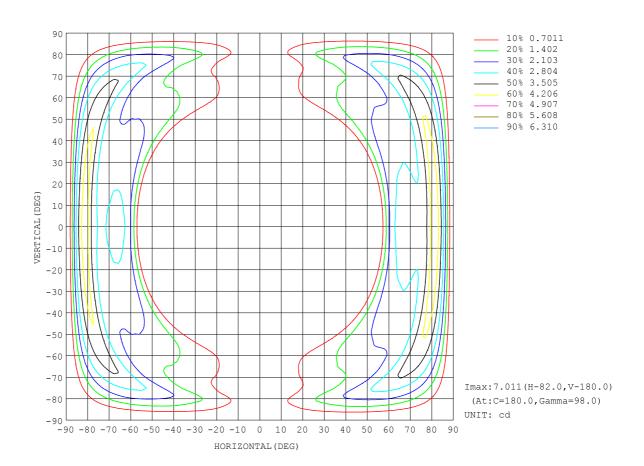
Humidity:65.0%

Test Distance:13.563m [K=1.0000]



## ISOCANDELA DIAGRAM

| Test:U:11.95V I:0.4521A P:3.712W PF:0.6872 Freq | :59.98Hz Lamp Flux:8.37961x1 | lm               |
|---|------------------------------|------------------|
| NAME: LED                                       | TYPE:M4B1-3.5W-30K-A+LAB-0   | 21 WEIGHT:       |
| SPEC.:  | DIM.:                        | SERIAL No.:1     |
| MFR.: EVERFINE                                  | SUR.:                        | Shielding Angle: |



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG

Operators:ADMIN
Test Date:2020-10-28

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

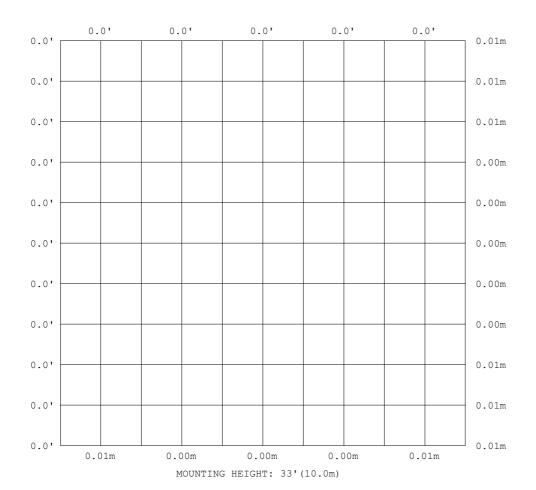
Humidity:65.0%

Test Distance:13.563m [K=1.0000]



## ISOLUX DIAGRAM

| Test:U:11.95V I:0.4521A P:3.712W PF:0.6872 Freq | :59.98Hz Lamp Flux:8.37961x1 | lm               |
|---|------------------------------|------------------|
| NAME: LED                                       | TYPE:M4B1-3.5W-30K-A+LAB-0   | 21 WEIGHT:       |
| SPEC.:  | DIM.:                        | SERIAL No.:1     |
| MFR.: EVERFINE                                  | SUR.:                        | Shielding Angle: |



H( $\beta$ ) Range:-90 - 90DEG H( $\beta$ ) Interval: 0.5DEG Test Speed: HIGH

Temperature:25.3DEG Operators:ADMIN Test Date: 2020-10-28 V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

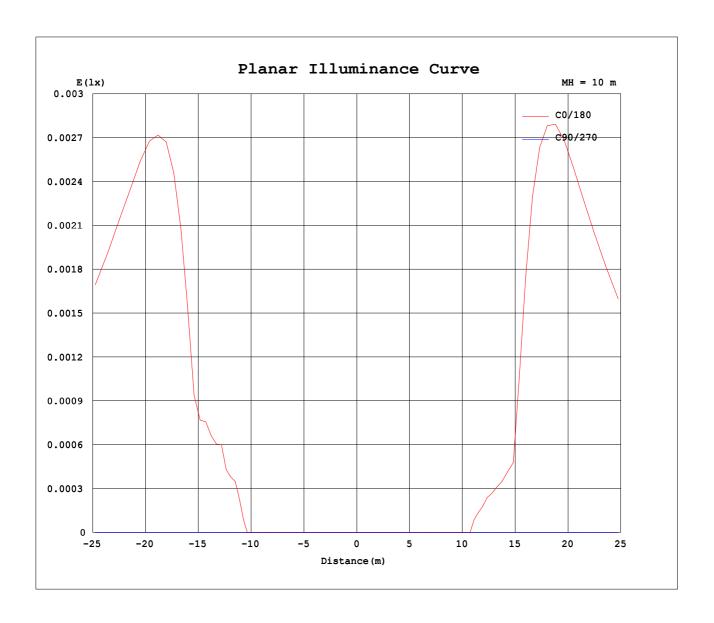
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

Humidity:65.0%

Test Distance:13.563m [K=1.0000]



## Planar Illuminance Curve



Temperature: 25.3DEG Operators:ADMIN Test Date:2020-10-28 V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

Humidity:65.0%

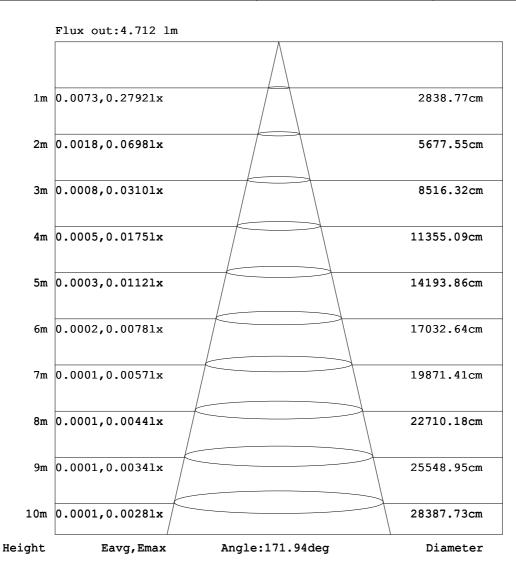
Test Distance:13.563m [K=1.0000]

H( $\beta$ ) Range:-90 - 90DEG H( $\beta$ ) Interval: 0.5DEG Test Speed: HIGH



# AAI Figure

| Test:U:11.95V I:0.4521A P:3.712W PF:0.6872 Freq:59.98Hz Lamp Flux:8.37961x1 lm |                            |                  |  |  |  |  |  |  |  |  |  |  |
|--|----------------------------|------------------|--|--|--|--|--|--|--|--|--|--|
| NAME: LED  | TYPE:M4B1-3.5W-30K-A+LAB-0 | 21 WEIGHT:       |  |  |  |  |  |  |  |  |  |  |
| SPEC.:   | DIM.:                      | SERIAL No.:1     |  |  |  |  |  |  |  |  |  |  |
| MFR.: EVERFINE   | SUR.:                      | Shielding Angle: |  |  |  |  |  |  |  |  |  |  |



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

H( $\beta$ ) Range:-90 - 90DEG H( $\beta$ ) Interval: 0.5DEG

Test Speed: HIGH
Temperature:25.3DEG
Operators:ADMIN
Test Date:2020-10-28

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

Humidity:65.0%

Test Distance:13.563m [K=1.0000]



# LUMINOUS DISTRIBUTION INTENSITY DATA

| Test:U:11.95V I:0.4521A P:3.712W PF:0.6872 Freq:59.98Hz Lamp Flux:8.37961x1 lm |                            |                  |  |  |  |  |  |  |  |  |  |
|--|----------------------------|------------------|--|--|--|--|--|--|--|--|--|
| NAME: LED  | TYPE:M4B1-3.5W-30K-A+LAB-0 | 21 WEIGHT:       |  |  |  |  |  |  |  |  |  |
| SPEC.:   | DIM.:                      | SERIAL No.:1     |  |  |  |  |  |  |  |  |  |
| MFR.: EVERFINE   | SUR.:                      | Shielding Angle: |  |  |  |  |  |  |  |  |  |

| Table1  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNI  | T: cd |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|
| H (DEG) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |
| V (DEG) | -90  | -85  | -80  | -75  | -70  | -65  | -60  | -55  | -50  | -45  | -40  | -35  | -30  | -25  | -20  | -15  | -10   | -5   | 0    |
| -180    | 0.00 | 4.76 | 6.01 | 1.70 | 0.18 | 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 | 4.62 | 6.01 | 1.78 | 0.23 | 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 | 4.32 | 6.23 | 2.11 | 0.40 | 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 | 3.87 | 6.47 | 2.81 | 0.73 | 0.01 | 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 | 3.28 | 6.37 | 4.02 | 1.38 | 0.33 | 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 | 2.56 | 5.62 | 5.52 | 2.73 | 1.07 | 0.32 | 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 | 1.70 | 4.28 | 5.79 | 4.94 | 2.83 | 1.41 | 0.66 | 0.26 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| -110    | 0.00 | 0.84 | 2.60 | 4.08 | 5.04 | 5.11 | 4.19 | 2.92 | 1.90 | 1.19 | 0.75 | 0.47 | 0.29 | 0.18 | 0.10 | 0.06 | 0.03  | 0.01 | 0.00 |
| -100    | 0.00 | 0.19 | 0.81 | 1.58 | 2.27 | 2.79 | 3.18 | 3.40 | 3.44 | 3.34 | 3.08 | 2.74 | 2.31 | 1.90 | 1.46 | 1.06 | 0.69  | 0.34 | 0.00 |
| -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 |
| -80     | 0.00 | 0.02 | 0.50 | 1.00 | 1.45 | 1.80 | 2.05 | 2.12 | 2.14 | 2.09 | 1.98 | 1.81 | 1.57 | 1.32 | 1.03 | 0.76 | 0.50  | 0.25 | 0.00 |
| -70     | 0.00 | 0.51 | 1.66 | 2.62 | 3.14 | 3.40 | 3.02 | 2.34 | 1.82 | 1.50 | 1.27 | 1.09 | 0.95 | 0.80 | 0.67 | 0.51 | 0.34  | 0.17 | 0.00 |
| -60     | 0.00 | 1.08 | 2.76 | 3.69 | 3.56 | 2.50 | 1.99 | 1.75 | 1.71 | 1.64 | 1.50 | 1.32 | 1.12 | 0.90 | 0.68 | 0.47 | 0.29  | 0.14 | 0.00 |
| -50     | 0.00 | 1.62 | 3.49 | 3.93 | 2.62 | 2.11 | 2.09 | 2.08 | 1.93 | 1.67 | 1.20 | 0.61 | 0.14 | 0.07 | 0.04 | 0.02 | 0.01  | 0.01 | 0.00 |
| -40     | 0.00 | 2.12 | 4.09 | 3.26 | 2.34 | 2.34 | 2.36 | 2.16 | 1.56 | 0.49 | 0.10 | 0.05 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| -30     | 0.00 | 2.50 | 4.40 | 2.84 | 2.39 | 2.59 | 2.45 | 1.71 | 0.25 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| -20     | 0.00 | 2.79 | 4.40 | 2.71 | 2.62 | 2.75 | 2.36 | 0.73 | 0.11 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| -10     | 0.00 | 2.98 | 4.34 | 2.70 | 2.80 | 2.88 | 2.13 | 0.23 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| 0       | 0.00 | 3.07 | 4.37 | 2.76 | 2.94 | 3.02 | 2.11 | 0.22 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| 10      | 0.00 | 2.98 | 4.34 | 2.70 | 2.80 | 2.88 | 2.13 | 0.23 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| 20      | 0.00 | 2.79 | 4.40 | 2.71 | 2.62 | 2.75 | 2.36 | 0.73 | 0.11 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| 30      | 0.00 | 2.50 | 4.40 | 2.84 | 2.39 | 2.59 | 2.45 | 1.71 | 0.25 | 0.09 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| 40      | 0.00 | 2.12 | 4.09 | 3.26 | 2.34 | 2.34 | 2.36 | 2.16 | 1.56 | 0.49 | 0.10 | 0.05 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| 50      | 0.00 | 1.62 | 3.49 | 3.93 | 2.62 | 2.11 | 2.09 | 2.08 | 1.93 | 1.67 | 1.20 | 0.61 | 0.14 | 0.07 | 0.04 | 0.02 | 0.01  | 0.01 | 0.00 |
| 60      | 0.00 | 1.08 | 2.76 | 3.69 | 3.56 | 2.50 | 1.99 | 1.75 | 1.71 | 1.64 | 1.50 | 1.32 | 1.12 | 0.90 | 0.68 | 0.47 | 0.29  | 0.14 | 0.00 |
| 70      | 0.00 | 0.51 | 1.66 | 2.62 | 3.14 | 3.40 | 3.02 | 2.34 | 1.82 | 1.50 | 1.27 | 1.09 | 0.95 | 0.80 | 0.67 | 0.51 | 0.34  | 0.17 | 0.00 |
| 80      | 0.00 | 0.02 | 0.50 | 1.00 | 1.45 | 1.80 | 2.05 | 2.12 | 2.14 | 2.09 | 1.98 | 1.81 | 1.57 | 1.32 | 1.03 | 0.76 | 0.50  | 0.25 | 0.00 |
| 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 |
| 100     | 0.00 | 0.19 | 0.81 | 1.58 | 2.27 | 2.79 | 3.18 | 3.40 | 3.44 | 3.34 | 3.08 | 2.74 | 2.31 | 1.90 | 1.46 | 1.06 | 0.69  | 0.34 | 0.00 |
| 110     | 0.00 | 0.84 | 2.60 | 4.08 | 5.04 | 5.11 | 4.19 | 2.92 | 1.90 | 1.19 | 0.75 | 0.47 | 0.29 | 0.18 | 0.10 | 0.06 | 0.03  | 0.01 | 0.00 |
| 120     | 0.00 | 1.70 | 4.28 | 5.79 | 4.94 | 2.83 | 1.41 | 0.66 | 0.26 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00 |
| 130     | 0.00 | 2.56 | 5.62 | 5.52 | 2.73 | 1.07 | 0.32 | 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 | 3.28 | 6.37 | 4.02 | 1.38 | 0.33 | 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 | 3.87 | 6.47 | 2.81 | 0.73 | 0.01 | 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 | 4.32 | 6.23 | 2.11 | 0.40 | 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 | 4.62 | 6.01 | 1.78 | 0.23 | 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 | 4.76 | 6.01 | 1.70 | 0.18 | 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 |

H(β) Range:-90 - 90DEG H(β) Interval: 0.5DEG Test Speed: HIGH Temperature:25.3DEG Operators:ADMIN Test Date:2020-10-28

V(B) Range:-180 - 180DEG V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

Humidity:65.0%

Test Distance:13.563m [K=1.0000]



# LUMINOUS DISTRIBUTION INTENSITY DATA

| Test:U:11.95V I:0.4521A P:3.712W PF:0.6872 Freq:59.98Hz Lamp Flux:8.37961x1 lm |                            |                  |  |  |  |  |  |  |  |  |  |
|--|----------------------------|------------------|--|--|--|--|--|--|--|--|--|
| NAME: LED  | TYPE:M4B1-3.5W-30K-A+LAB-0 | 21 WEIGHT:       |  |  |  |  |  |  |  |  |  |
| SPEC.:   | DIM.:                      | SERIAL No.:1     |  |  |  |  |  |  |  |  |  |
| MFR.: EVERFINE   | SUR.:                      | Shielding Angle: |  |  |  |  |  |  |  |  |  |

| Table2  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNI  | T: cd |      |  |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|--|
| H (DEG) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |  |
| V (DEG) | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85    | 90   |  |
| -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 | 0.22 | 1.91 | 6.34 | 4.46  | 0.01 |  |
| -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 | 0.27 | 2.00 | 6.32 | 4.33  | 0.01 |  |
| -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 | 0.43 | 2.35 | 6.48 | 4.04  | 0.01 |  |
| -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 | 0.02 | 0.82 | 3.09 | 6.60 | 3.59  | 0.01 |  |
| -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 | 0.35 | 1.55 | 4.36 | 6.30 | 3.00  | 0.01 |  |
| -130    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.35 | 1.19 | 2.99 | 5.77 | 5.41 | 2.27  | 0.01 |  |
| -120    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.28 | 0.74 | 1.58 | 3.10 | 5.19 | 5.70 | 4.01 | 1.42  | 0.01 |  |
| -110    | 0.01 | 0.03 | 0.06 | 0.11 | 0.19 | 0.33 | 0.53 | 0.84 | 1.33 | 2.08 | 3.16 | 4.40 | 5.16 | 4.87 | 3.83 | 2.33 | 0.63  | 0.01 |  |
| -100    | 0.36 | 0.73 | 1.11 | 1.52 | 1.96 | 2.36 | 2.75 | 3.05 | 3.25 | 3.31 | 3.23 | 2.98 | 2.58 | 2.04 | 1.33 | 0.61 | 0.13  | 0.01 |  |
| -90     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01  | 0.01 |  |
| -80     | 0.26 | 0.52 | 0.78 | 1.06 | 1.35 | 1.62 | 1.87 | 2.06 | 2.17 | 2.21 | 2.19 | 2.11 | 1.88 | 1.55 | 1.13 | 0.65 | 0.20  | 0.01 |  |
| -70     | 0.19 | 0.38 | 0.57 | 0.74 | 0.91 | 1.07 | 1.23 | 1.40 | 1.64 | 1.96 | 2.46 | 3.13 | 3.51 | 3.25 | 2.70 | 1.77 | 0.68  | 0.01 |  |
| -60     | 0.13 | 0.28 | 0.45 | 0.66 | 0.90 | 1.14 | 1.37 | 1.58 | 1.77 | 1.90 | 1.98 | 2.18 | 2.69 | 3.69 | 3.83 | 2.84 | 1.23  | 0.01 |  |
| -50     | 0.01 | 0.02 | 0.05 | 0.08 | 0.12 | 0.19 | 0.54 | 1.14 | 1.67 | 2.01 | 2.22 | 2.33 | 2.35 | 2.82 | 4.05 | 3.61 | 1.75  | 0.01 |  |
| -40     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.10 | 0.19 | 0.43 | 1.48 | 2.19 | 2.49 | 2.59 | 2.57 | 3.44 | 4.25 | 2.23  | 0.01 |  |
| -30     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.18 | 0.35 | 1.61 | 2.50 | 2.76 | 2.71 | 3.06 | 4.52 | 2.60  | 0.01 |  |
| -20     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.23 | 0.64 | 2.29 | 2.88 | 2.92 | 2.96 | 4.52 | 2.88  | 0.01 |  |
| -10     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.39 | 2.02 | 2.98 | 3.10 | 2.96 | 4.49 | 3.07  | 0.01 |  |
| 0       | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.40 | 1.97 | 3.11 | 3.24 | 3.01 | 4.54 | 3.15  | 0.01 |  |
| 10      | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.39 | 2.02 | 2.98 | 3.10 | 2.96 | 4.49 | 3.07  | 0.01 |  |
| 20      | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.23 | 0.64 | 2.29 | 2.88 | 2.92 | 2.96 | 4.52 | 2.88  | 0.01 |  |
| 30      | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.18 | 0.35 | 1.61 | 2.50 | 2.76 | 2.71 | 3.06 | 4.52 | 2.60  | 0.01 |  |
| 40      | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.10 | 0.19 | 0.43 | 1.48 | 2.19 | 2.49 | 2.59 | 2.57 | 3.44 | 4.25 | 2.23  | 0.01 |  |
| 50      | 0.01 | 0.02 | 0.05 | 0.08 | 0.12 | 0.19 | 0.54 | 1.14 | 1.67 | 2.01 | 2.22 | 2.33 | 2.35 | 2.82 | 4.05 | 3.61 | 1.75  | 0.01 |  |
| 60      | 0.13 | 0.28 | 0.45 | 0.66 | 0.90 | 1.14 | 1.37 | 1.58 | 1.77 | 1.90 | 1.98 | 2.18 | 2.69 | 3.69 | 3.83 | 2.84 | 1.23  | 0.01 |  |
| 70      | 0.19 | 0.38 | 0.57 | 0.74 | 0.91 | 1.07 | 1.23 | 1.40 | 1.64 | 1.96 | 2.46 | 3.13 | 3.51 | 3.25 | 2.70 | 1.77 | 0.68  | 0.01 |  |
| 80      | 0.26 | 0.52 | 0.78 | 1.06 | 1.35 | 1.62 | 1.87 | 2.06 | 2.17 | 2.21 | 2.19 | 2.11 | 1.88 | 1.55 | 1.13 | 0.65 | 0.20  | 0.01 |  |
| 90      | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01  | 0.01 |  |
| 100     | 0.36 | 0.73 | 1.11 | 1.52 | 1.96 | 2.36 | 2.75 | 3.05 | 3.25 | 3.31 | 3.23 | 2.98 | 2.58 | 2.04 | 1.33 | 0.61 | 0.13  | 0.01 |  |
| 110     | 0.01 | 0.03 | 0.06 | 0.11 | 0.19 | 0.33 | 0.53 | 0.84 | 1.33 | 2.08 | 3.16 | 4.40 | 5.16 | 4.87 | 3.83 | 2.33 | 0.63  | 0.01 |  |
| 120     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.28 | 0.74 | 1.58 | 3.10 | 5.19 | 5.70 | 4.01 | 1.42  | 0.01 |  |
| 130     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.35 | 1.19 | 2.99 | 5.77 | 5.41 | 2.27  | 0.01 |  |
| 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 | 0.35 | 1.55 | 4.36 | 6.30 | 3.00  | 0.01 |  |
| 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 | 0.02 | 0.82 | 3.09 | 6.60 | 3.59  | 0.01 |  |
| 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 | 0.43 | 2.35 | 6.48 | 4.04  | 0.01 |  |
| 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 | 0.27 | 2.00 | 6.32 | 4.33  | 0.01 |  |
| 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 | 0.22 | 1.91 | 6.34 | 4.46  | 0.01 |  |

H(β) Range:-90 - 90DEG H(β) Interval: 0.5DEG Test Speed: HIGH Temperature:25.3DEG

Operators:ADMIN
Test Date:2020-10-28

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

Humidity:65.0%

Test Distance:13.563m [K=1.0000]