

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

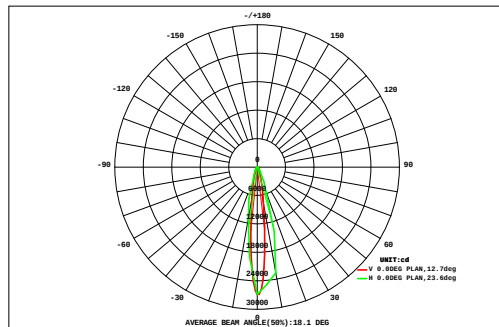
|                                                         |                |                                                                      |
|---------------------------------------------------------|----------------|----------------------------------------------------------------------|
| Maximum Intensity<br>(Luminaire orientation as tested.) |                | 5683.7 cd per klm.<br>0.0 degrees vertical<br>0.0 degrees horizontal |
| Beam Spread                                             | At 10% of Imax | 46.5V x 34.8H                                                        |
|                                                         | At 50% of Imax | 23.6V x 12.7H                                                        |
|                                                         | At 90% of Imax | 9.1V x 4.8H                                                          |
| Beam Flux                                               | Total          | 999.3 lumens per klm.                                                |
|                                                         | To 10% of Imax | 678.2 lumens per klm.                                                |
|                                                         | To 50% of Imax | 295.6 lumens per klm.                                                |
|                                                         | To 90% of Imax | 42.9 lumens per klm.                                                 |
| Upward LOR                                              |                | 0.0 %                                                                |
| Downward LOR                                            |                | 99.9 %                                                               |
| Luminaire Efficiency(Light Output Ratio)                |                | 100.0 %                                                              |

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-29

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                   |          |                         |
|-------------------------------------------------------------------|----------|-------------------------|
| Test:U:220.4V I:0.2202A P:47.21W PF:0.9723 Lamp Flux:4727.14x1 lm |          |                         |
| NAME: 8.01.017.0059 10x22°LWW-WZB-W55-L12-S                       | TYPE:LED | WEIGHT:                 |
| DIM.:                                                             | SPEC.:   | SERIAL No.:202404000075 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:       |



| DATA OF LAMP     |                   | Eff:100.13lm/W     |          |
|------------------|-------------------|--------------------|----------|
| MODEL            | LWW-WZB-W55-L12-S | Imax(cd)           | 26868    |
| NOMINAL POWER(W) | 48                | AVAILABILITY(%)    | 69.5     |
| RATED VOLTAGE(V) | 220               | Avai. FLUX(lm)     | 3284     |
| NOMINAL FLUX(lm) | 4727.14           | LOR(%)             | 100.0    |
| LAMPS INSIDE     | 1                 | TOTAL FLUX(lm)     | 4727     |
| TEST VOLTAGE(V)  | 220.4             | $\theta$ @50%(H,V) | 13,24DEG |

| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                  |      |      |      |      |      |      | UNIT: lm |      |      |      | Φ t  | Φ a  |
|----------------|-------------------|------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|----------|------|------|------|------|------|
|                | 45                | 0.69 | 0.90 | 1.17 | 1.51 | 1.95 | 2.45 | 2.94 | 3.34             | 3.57 | 3.58 | 3.35 | 2.95 | 2.48 | 2.00 | 1.57     | 1.22 | 0.93 | 0.70 | 37.3 | 0.00 |
|                | 40                | 0.78 | 1.04 | 1.39 | 1.82 | 2.41 | 3.08 | 3.75 | 4.29             | 4.61 | 4.62 | 4.30 | 3.76 | 3.11 | 2.46 | 1.90     | 1.44 | 1.08 | 0.80 | 46.6 | 0.00 |
|                | 35                | 0.92 | 1.27 | 1.75 | 2.41 | 3.36 | 4.68 | 6.28 | 7.79             | 8.69 | 8.74 | 7.91 | 6.44 | 4.82 | 3.47 | 2.50     | 1.80 | 1.30 | 0.93 | 75.1 | 0.00 |
|                | 30                | 1.05 | 1.47 | 2.06 | 2.91 | 4.14 | 5.95 | 8.24 | 10.4             | 11.8 | 11.8 | 10.6 | 8.50 | 6.18 | 4.30 | 3.01     | 2.12 | 1.50 | 1.06 | 97.2 | 0.00 |
|                | 25                | 1.17 | 1.70 | 2.48 | 3.67 | 5.66 | 9.13 | 14.7 | 22.5             | 31.5 | 32.1 | 23.6 | 15.5 | 9.60 | 5.83 | 3.73     | 2.49 | 1.70 | 1.18 | 188  | 102  |
|                | 20                | 1.29 | 1.91 | 2.85 | 4.34 | 6.94 | 11.7 | 19.7 | 31.5             | 45.6 | 46.7 | 33.1 | 20.9 | 12.3 | 7.13 | 4.38     | 2.85 | 1.91 | 1.29 | 256  | 180  |
|                | 15                | 1.36 | 2.03 | 3.12 | 4.97 | 8.38 | 15.2 | 28.1 | 56.5             | 118  | 128  | 66.4 | 31.3 | 16.4 | 8.83 | 5.13     | 3.16 | 2.05 | 1.35 | 501  | 434  |
|                |                   | 1.44 | 2.19 | 3.43 | 5.60 | 9.77 | 18.4 | 35.3 | 76.2             | 172  | 187  | 91.8 | 40.0 | 20.0 | 10.4 | 5.84     | 3.48 | 2.21 | 1.43 | 686  | 622  |
|                |                   | 1.44 | 2.20 | 3.44 | 5.64 | 9.80 | 18.3 | 35.2 | 75.0             | 166  | 178  | 87.4 | 38.8 | 19.8 | 10.3 | 5.75     | 3.45 | 2.18 | 1.43 | 664  | 600  |
|                |                   | 1.47 | 2.26 | 3.55 | 5.87 | 10.3 | 19.4 | 37.6 | 80.8             | 180  | 192  | 92.9 | 40.8 | 20.8 | 10.7 | 5.93     | 3.53 | 2.22 | 1.45 | 711  | 647  |
|                |                   | 1.39 | 2.09 | 3.20 | 5.06 | 8.42 | 15.1 | 27.5 | 52.1             | 99.3 | 106  | 59.5 | 30.4 | 16.4 | 8.92 | 5.19     | 3.22 | 2.08 | 1.37 | 447  | 379  |
|                | -15               | 1.35 | 2.00 | 3.01 | 4.59 | 7.35 | 12.7 | 21.6 | 34.8             | 50.4 | 53.6 | 39.0 | 24.1 | 13.8 | 7.87 | 4.76     | 3.04 | 2.00 | 1.32 | 287  | 214  |
|                | -20               | 1.22 | 1.79 | 2.63 | 3.90 | 5.95 | 9.46 | 14.9 | 22.7             | 32.7 | 34.1 | 24.5 | 16.0 | 9.98 | 6.12 | 3.90     | 2.58 | 1.75 | 1.19 | 195  | 105  |
|                | -25               | 1.13 | 1.62 | 2.32 | 3.29 | 4.66 | 6.51 | 8.51 | 8.87             | 6.24 | 5.79 | 8.06 | 8.45 | 6.56 | 4.61 | 3.18     | 2.22 | 1.55 | 1.09 | 84.6 | 0.00 |
|                | -30               | 0.99 | 1.40 | 1.95 | 2.72 | 3.79 | 5.27 | 7.09 | 8.89             | 10.1 | 10.1 | 9.06 | 7.29 | 5.39 | 3.81 | 2.67     | 1.88 | 1.34 | 0.95 | 84.7 | 0.00 |
|                | -35               | 0.87 | 1.19 | 1.60 | 2.14 | 2.79 | 3.46 | 4.00 | 4.29             | 4.38 | 4.35 | 4.30 | 4.02 | 3.47 | 2.77 | 2.10     | 1.54 | 1.13 | 0.82 | 49.2 | 0.00 |
| -40            | 0.76              | 1.02 | 1.35 | 1.78 | 2.31 | 2.92 | 3.53 | 4.05 | 4.36             | 4.35 | 4.04 | 3.52 | 2.89 | 2.26 | 1.72 | 1.29     | 0.97 | 0.72 | 43.8 | 0.00 |      |
| -45            | 0.65              | 0.84 | 1.07 | 1.34 | 1.66 | 1.96 | 2.18 | 2.36 | 2.45             | 2.42 | 2.28 | 2.10 | 1.86 | 1.58 | 1.28 | 1.01     | 0.79 | 0.61 | 28.4 | 0.00 |      |
|                | -45               | -40  | -35  | -30  | -25  | -20  | -15  | -10  | HORIZONTAL (DEG) |      |      |      | 10   | 15   | 20   | 25       | 30   | 35   | 40   | 45   |      |
| Φ t            | 20.0              | 28.9 | 42.4 | 63.6 | 99.6 | 166  | 281  | 506  | 951              | 1014 | 572  | 305  | 176  | 103  | 64.5 | 42.3     | 28.7 | 19.7 | 4484 | ---  |      |
| Φ a            | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 29.4 | 188  | 441  | 894              | 958  | 508  | 219  | 44.9 | 0.00 | 0.00 | 0.00     | 0.00 | 0.00 | ---  | 3284 |      |

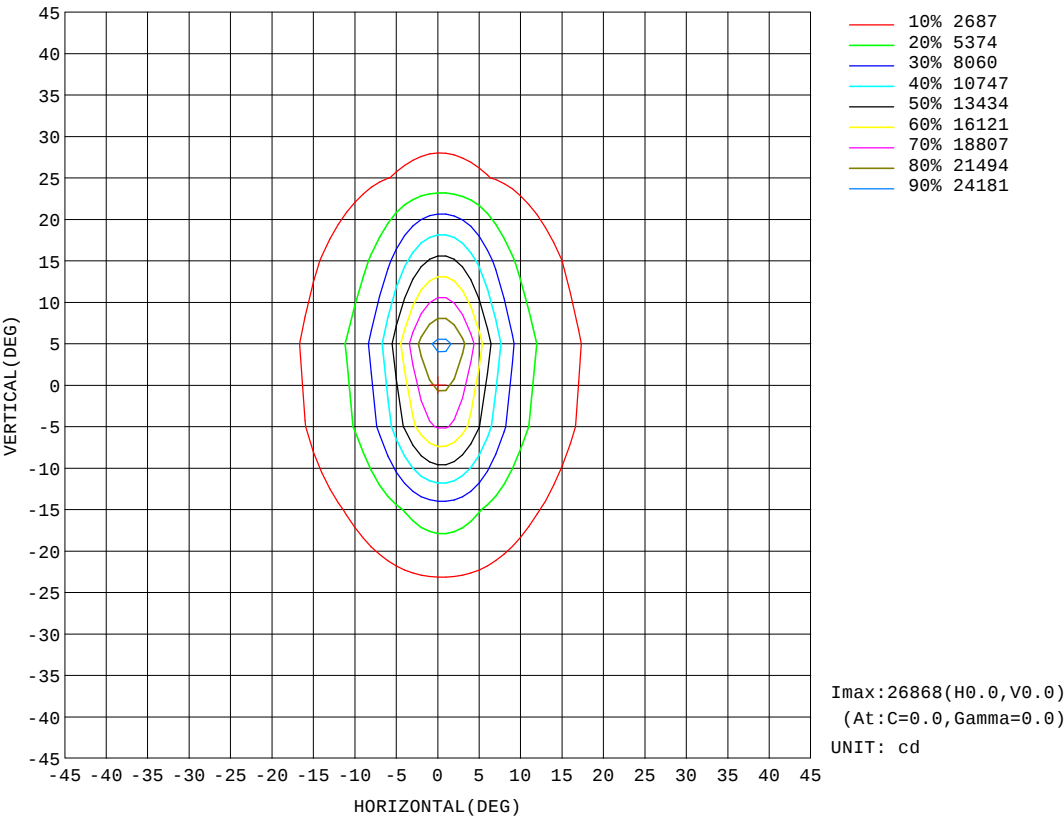
one-half-peak spread: U:8.4,D:15.4 , L:6.0,R:6.0 IESNA Beam Type: Type 3 x 4 (H x V)

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-29

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

|                                                                   |          |                         |
|-------------------------------------------------------------------|----------|-------------------------|
| Test:U:220.4V I:0.2202A P:47.21W PF:0.9723 Lamp Flux:4727.14x1 lm |          |                         |
| NAME: 8.01.017.0059 10x22°LWW-WZB-W55-L12-S                       | TYPE:LED | WEIGHT:                 |
| DIM.:                                                             | SPEC.:   | SERIAL No.:202404000075 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:       |

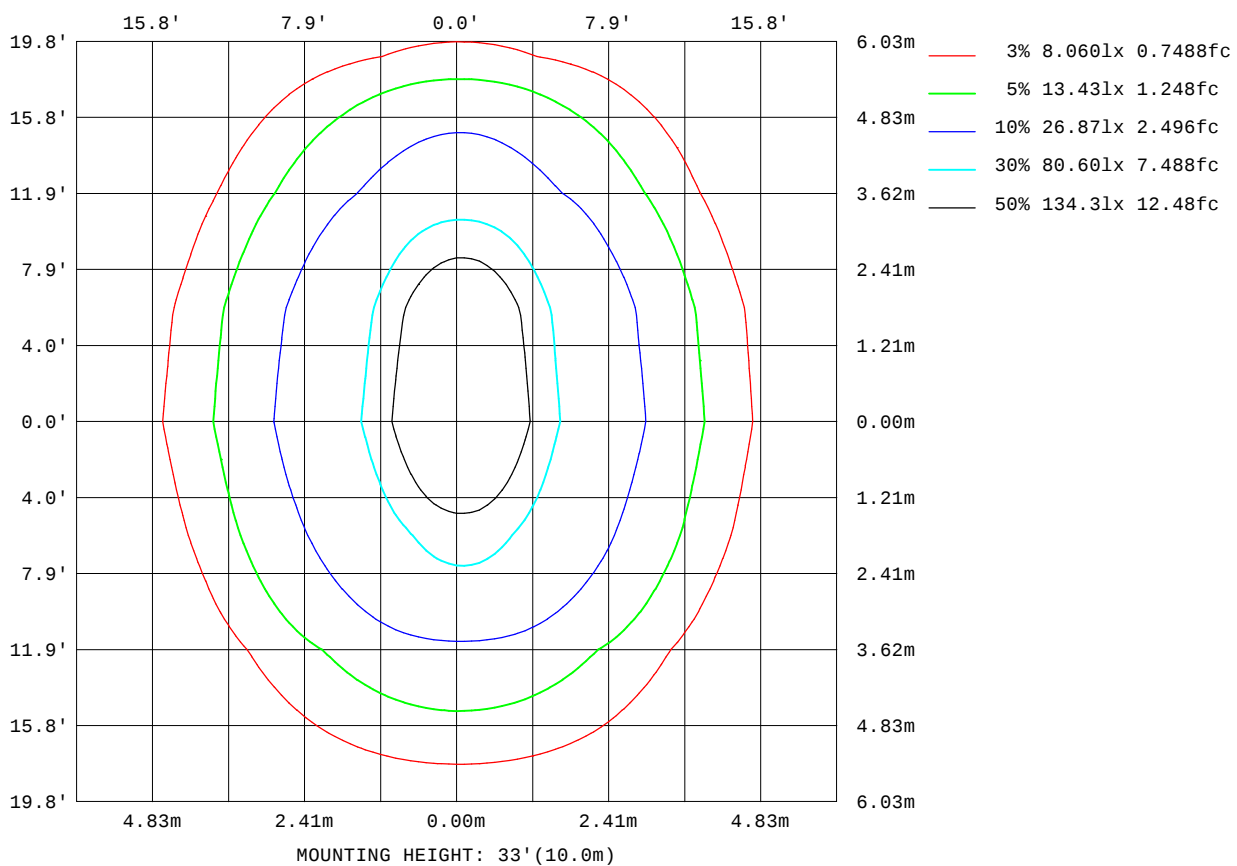


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-29

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|                                                                   |          |                         |
|-------------------------------------------------------------------|----------|-------------------------|
| Test:U:220.4V I:0.2202A P:47.21W PF:0.9723 Lamp Flux:4727.14x1 lm |          |                         |
| NAME: 8.01.017.0059 10x22°LWW-WZB-W55-L12-S                       | TYPE:LED | WEIGHT:                 |
| DIM.:                                                             | SPEC.:   | SERIAL No.:202404000075 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:       |

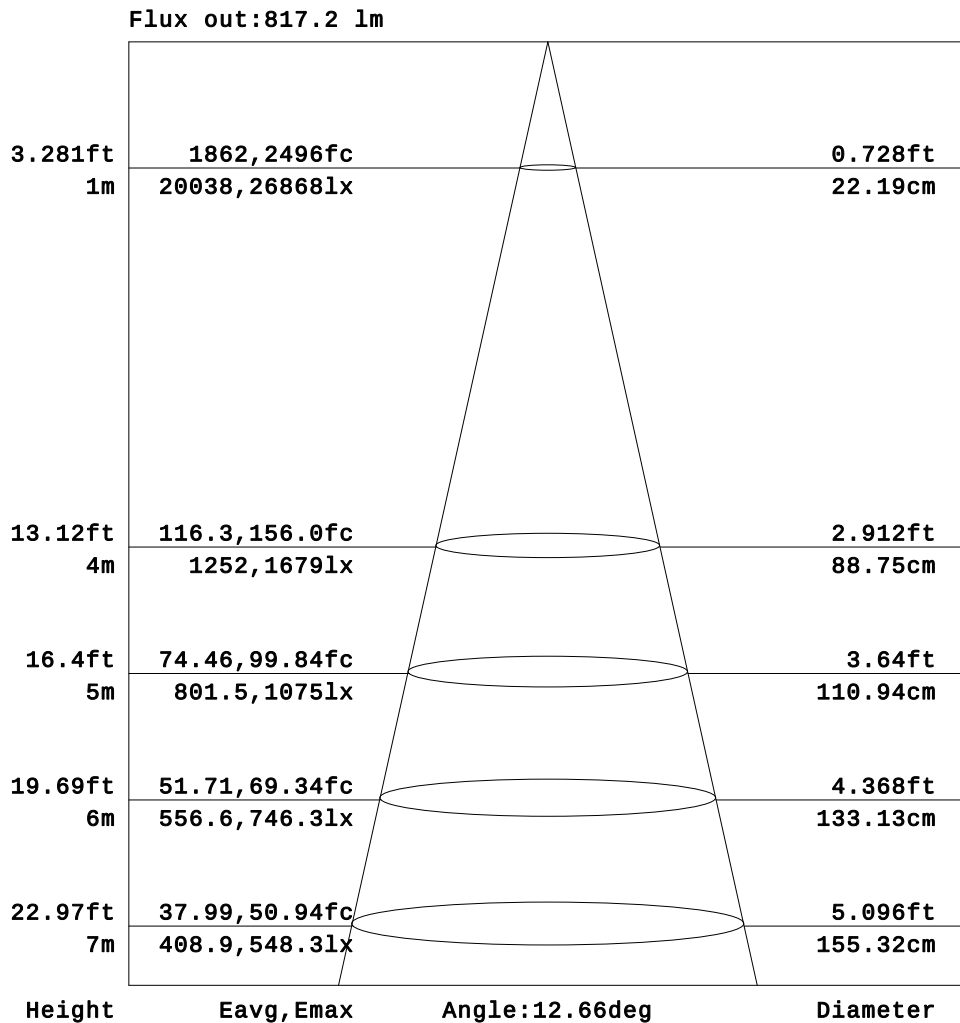


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-29

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## AAI Figure

|                                                                   |          |                         |
|-------------------------------------------------------------------|----------|-------------------------|
| Test:U:220.4V I:0.2202A P:47.21W PF:0.9723 Lamp Flux:4727.14x1 lm |          |                         |
| NAME: 8.01.017.0059 10x22°LWW-WZB-W55-L12-S                       | TYPE:LED | WEIGHT:                 |
| DIM.:                                                             | SPEC.:   | SERIAL No.:202404000075 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:       |

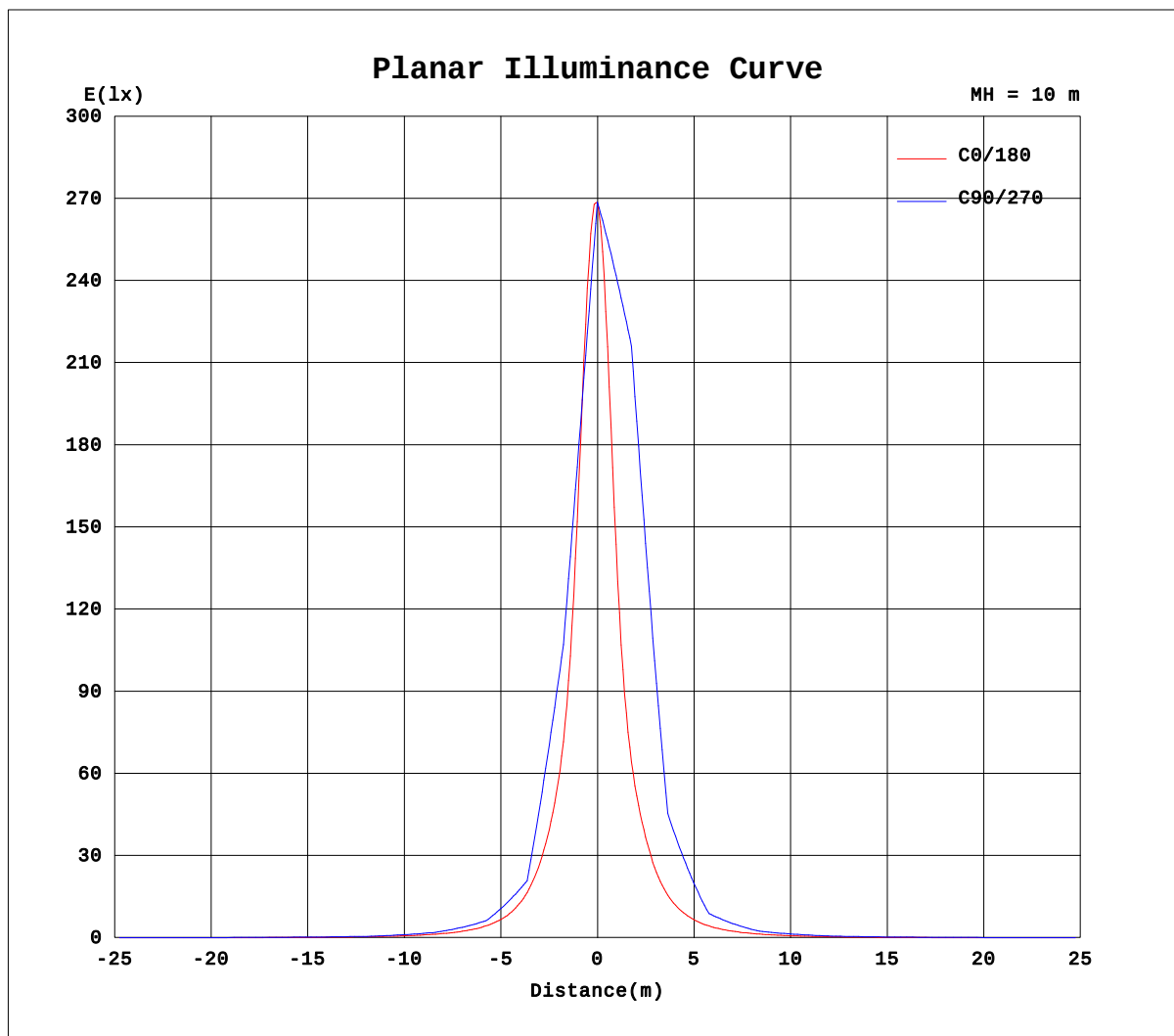


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-29

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



H( $\beta$ ) Range: -90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature: 28.0DEG  
Operators: QC1  
Test Date: 2024-04-29

V(B) Range: -80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity: 83%  
Test Distance: 8.300m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                   |          |                         |
|-------------------------------------------------------------------|----------|-------------------------|
| Test:U:220.4V I:0.2202A P:47.21W PF:0.9723 Lamp Flux:4727.14x1 lm |          |                         |
| NAME: 8.01.017.0059 10x22°LWW-WZB-W55-L12-S                       | TYPE:LED | WEIGHT:                 |
| DIM.:                                                             | SPEC.:   | SERIAL No.:202404000075 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:       |

Table--1

UNIT: ×10cd

| H(°) \ V(°) | -90  | -85  | -80  | -75  | -70  | -65  | -60  | -55  | -50  | -45  | -40  | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0    |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -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 |
| -85         | 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 | 0.00 | 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 |
| -75         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.42 | 0.74 | 1.06 | 1.39 | 1.70 | 1.98 | 2.22 | 2.43 | 2.46 |
| -70         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.84 | 1.49 | 2.12 | 2.77 | 3.40 | 3.97 | 4.45 | 4.85 | 4.92 |
| -65         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.70 | 1.54 | 2.47 | 3.47 | 4.37 | 5.20 | 5.97 | 6.80 | 7.48 | 8.04 | 8.50 | 8.76 |
| -60         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 1.41 | 3.07 | 4.75 | 6.10 | 7.25 | 8.28 | 9.18 | 10.2 | 11.0 | 11.6 | 12.1 | 12.6 |
| -55         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 1.20 | 2.95 | 4.81 | 6.54 | 8.15 | 9.52 | 10.9 | 12.2 | 13.5 | 14.7 | 15.8 | 16.6 | 17.1 |
| -50         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 2.33 | 4.49 | 6.55 | 8.33 | 10.2 | 11.8 | 13.6 | 15.2 | 16.8 | 18.4 | 19.9 | 21.1 | 21.5 |
| -45         | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 1.49 | 3.51 | 5.73 | 7.75 | 9.76 | 12.0 | 14.4 | 17.2 | 20.3 | 23.9 | 27.3 | 30.3 | 32.5 | 33.3 |
| -40         | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 2.40 | 4.68 | 6.97 | 8.95 | 11.2 | 13.8 | 17.0 | 20.8 | 25.5 | 31.1 | 36.1 | 40.6 | 43.9 | 45.0 |
| -35         | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 3.40 | 5.54 | 7.88 | 10.2 | 12.9 | 16.3 | 20.6 | 26.1 | 33.2 | 42.1 | 51.7 | 61.0 | 68.1 | 70.7 |
| -30         | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 4.41 | 6.40 | 8.80 | 11.4 | 14.6 | 18.8 | 24.2 | 31.4 | 41.0 | 53.0 | 67.4 | 81.4 | 92.2 | 96.3 |
| -25         | 0.00 | 0.00 | 0.00 | 0.15 | 2.34 | 4.89 | 7.07 | 9.63 | 12.6 | 16.3 | 21.5 | 28.6 | 38.2 | 51.8 | 71.7 | 99.8 | 133  | 161  | 174  |
| -20         | 0.00 | 0.00 | 0.00 | 0.30 | 3.04 | 5.38 | 7.74 | 10.5 | 13.7 | 18.1 | 24.1 | 32.9 | 45.0 | 62.7 | 90.4 | 132  | 184  | 231  | 252  |
| -15         | 0.00 | 0.00 | 0.00 | 0.53 | 3.29 | 5.69 | 8.17 | 11.1 | 14.7 | 19.5 | 26.3 | 36.5 | 51.6 | 75.4 | 118  | 191  | 307  | 500  | 687  |
| -10         | 0.00 | 0.00 | 0.00 | 0.77 | 3.54 | 6.01 | 8.59 | 11.7 | 15.6 | 20.9 | 28.5 | 40.0 | 58.1 | 88.0 | 145  | 250  | 429  | 769  | 1121 |
| -5          | 0.00 | 0.00 | 0.00 | 0.94 | 3.73 | 6.16 | 8.80 | 12.0 | 15.9 | 21.4 | 29.6 | 42.2 | 62.6 | 98.0 | 167  | 303  | 551  | 1179 | 1904 |
| 0           | 0.00 | 0.00 | 0.00 | 1.12 | 3.92 | 6.31 | 9.01 | 12.2 | 16.3 | 22.0 | 30.7 | 44.3 | 67.0 | 108  | 188  | 356  | 673  | 1590 | 2687 |
| 5           | 0.00 | 0.00 | 0.00 | 1.06 | 3.84 | 6.21 | 8.86 | 12.0 | 16.0 | 21.6 | 29.9 | 43.0 | 64.7 | 103  | 179  | 333  | 627  | 1466 | 2474 |
| 10          | 0.00 | 0.00 | 0.00 | 0.99 | 3.76 | 6.11 | 8.72 | 11.8 | 15.8 | 21.2 | 29.2 | 41.7 | 62.3 | 98.5 | 170  | 311  | 582  | 1342 | 2262 |
| 15          | 0.00 | 0.00 | 0.00 | 0.87 | 3.61 | 5.92 | 8.43 | 11.4 | 15.0 | 20.0 | 27.2 | 38.4 | 55.7 | 85.1 | 141  | 246  | 435  | 889  | 1405 |
| 20          | 0.00 | 0.00 | 0.00 | 0.75 | 3.46 | 5.74 | 8.14 | 11.0 | 14.3 | 18.8 | 25.3 | 35.0 | 49.1 | 71.8 | 112  | 182  | 288  | 435  | 548  |
| 25          | 0.00 | 0.00 | 0.00 | 0.44 | 3.07 | 5.33 | 7.58 | 10.2 | 13.1 | 17.1 | 22.6 | 30.4 | 41.5 | 58.6 | 87.0 | 133  | 199  | 282  | 342  |
| 30          | 0.00 | 0.00 | 0.00 | 0.13 | 2.69 | 4.91 | 7.02 | 9.35 | 12.0 | 15.4 | 19.8 | 25.8 | 34.0 | 45.5 | 62.2 | 85.1 | 110  | 129  | 137  |
| 35          | 0.00 | 0.00 | 0.00 | 0.06 | 2.16 | 4.36 | 6.36 | 8.48 | 10.8 | 13.6 | 17.1 | 21.8 | 28.0 | 36.5 | 48.3 | 63.4 | 79.0 | 91.0 | 95.7 |
| 40          | 0.00 | 0.00 | 0.00 | 0.00 | 1.64 | 3.80 | 5.69 | 7.62 | 9.62 | 11.8 | 14.4 | 17.8 | 22.1 | 27.5 | 34.5 | 41.6 | 48.0 | 52.6 | 54.4 |
| 45          | 0.00 | 0.00 | 0.00 | 0.00 | 0.93 | 2.95 | 4.77 | 6.58 | 8.42 | 10.3 | 12.4 | 14.9 | 18.1 | 22.0 | 26.9 | 31.8 | 36.1 | 39.3 | 40.6 |
| 50          | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 2.10 | 3.86 | 5.54 | 7.21 | 8.83 | 10.4 | 12.1 | 14.1 | 16.5 | 19.2 | 21.9 | 24.3 | 26.0 | 26.7 |
| 55          | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 1.13 | 2.71 | 4.29 | 5.86 | 7.38 | 8.83 | 10.3 | 11.8 | 13.6 | 15.4 | 17.3 | 18.8 | 20.0 | 20.6 |
| 60          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 1.57 | 3.04 | 4.50 | 5.93 | 7.26 | 8.46 | 9.57 | 10.6 | 11.6 | 12.6 | 13.4 | 14.1 | 14.5 |
| 65          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.79 | 1.55 | 2.71 | 3.88 | 4.99 | 6.01 | 6.96 | 7.87 | 8.75 | 9.61 | 10.2 | 10.7 | 11.2 |
| 70          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.92 | 1.83 | 2.72 | 3.56 | 4.35 | 5.10 | 5.89 | 6.59 | 7.05 | 7.43 | 7.89 |
| 75          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.46 | 0.92 | 1.36 | 1.78 | 2.17 | 2.55 | 3.01 | 3.48 | 3.81 | 4.11 | 4.40 |
| 80          | 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 | 0.13 | 0.36 | 0.57 | 0.78 |
| 85          | 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 |
| 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 |

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-29

V(β) Range:-80 - 80DEG  
V(β) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                   |          |                         |
|-------------------------------------------------------------------|----------|-------------------------|
| Test:U:220.4V I:0.2202A P:47.21W PF:0.9723 Lamp Flux:4727.14x1 lm |          |                         |
| NAME: 8.01.017.0059 10x22°LWW-WZB-W55-L12-S                       | TYPE:LED | WEIGHT:                 |
| DIM.:                                                             | SPEC.:   | SERIAL No.:202404000075 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:       |

|             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |             |      |  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------|------|--|
| Table--2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNIT: ×10cd |      |  |
| H(°) \ V(°) | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85          | 90   |  |
| -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 |  |
| -85         | 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 | 0.00 | 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 |  |
| -75         | 2.29 | 2.08 | 1.87 | 1.61 | 1.30 | 1.00 | 0.70 | 0.39 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -70         | 4.58 | 4.16 | 3.75 | 3.22 | 2.60 | 2.00 | 1.40 | 0.77 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -65         | 8.18 | 7.66 | 7.16 | 6.46 | 5.59 | 4.88 | 4.10 | 3.26 | 2.32 | 1.55 | 0.81 | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -60         | 11.8 | 11.2 | 10.6 | 9.69 | 8.59 | 7.76 | 6.81 | 5.74 | 4.45 | 3.11 | 1.61 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -55         | 16.3 | 15.3 | 14.2 | 12.8 | 11.4 | 10.2 | 8.92 | 7.72 | 6.24 | 4.75 | 3.14 | 1.49 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -50         | 20.7 | 19.4 | 17.8 | 16.0 | 14.2 | 12.5 | 11.0 | 9.71 | 8.03 | 6.39 | 4.67 | 2.76 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -45         | 32.1 | 29.7 | 26.6 | 23.0 | 19.5 | 16.2 | 13.6 | 11.4 | 9.36 | 7.52 | 5.72 | 3.83 | 1.78 | 0.25 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -40         | 43.5 | 40.0 | 35.3 | 30.0 | 24.7 | 19.9 | 16.1 | 13.0 | 10.7 | 8.66 | 6.76 | 4.90 | 2.75 | 0.49 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -35         | 68.2 | 61.5 | 52.0 | 41.7 | 32.6 | 25.3 | 19.6 | 15.5 | 12.3 | 9.83 | 7.67 | 5.65 | 3.59 | 1.26 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -30         | 92.8 | 83.0 | 68.7 | 53.5 | 40.5 | 30.7 | 23.2 | 17.9 | 13.9 | 11.0 | 8.58 | 6.40 | 4.43 | 2.03 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -25         | 164  | 137  | 103  | 73.1 | 51.5 | 37.3 | 27.5 | 20.6 | 15.7 | 12.1 | 9.36 | 6.96 | 4.87 | 2.56 | 0.22 | 0.00 | 0.00        | 0.00 |  |
| -20         | 235  | 191  | 137  | 92.8 | 62.5 | 43.9 | 31.8 | 23.4 | 17.5 | 13.2 | 10.1 | 7.52 | 5.30 | 3.09 | 0.43 | 0.00 | 0.00        | 0.00 |  |
| -15         | 552  | 336  | 205  | 124  | 77.3 | 51.4 | 35.9 | 25.7 | 19.0 | 14.2 | 10.8 | 7.99 | 5.61 | 3.38 | 0.67 | 0.00 | 0.00        | 0.00 |  |
| -10         | 868  | 480  | 273  | 155  | 92.0 | 59.0 | 40.1 | 28.0 | 20.4 | 15.1 | 11.4 | 8.46 | 5.92 | 3.66 | 0.90 | 0.00 | 0.00        | 0.00 |  |
| -5          | 1353 | 615  | 328  | 177  | 101  | 63.2 | 41.9 | 29.1 | 21.1 | 15.6 | 11.7 | 8.61 | 5.99 | 3.74 | 0.96 | 0.00 | 0.00        | 0.00 |  |
| 0           | 1837 | 750  | 382  | 200  | 111  | 67.4 | 43.8 | 30.2 | 21.8 | 16.1 | 11.9 | 8.76 | 6.07 | 3.81 | 1.02 | 0.00 | 0.00        | 0.00 |  |
| 5           | 1714 | 709  | 363  | 190  | 107  | 65.6 | 42.9 | 29.8 | 21.4 | 15.8 | 11.8 | 8.69 | 6.03 | 3.77 | 1.00 | 0.00 | 0.00        | 0.00 |  |
| 10          | 1592 | 668  | 345  | 181  | 103  | 63.8 | 42.0 | 29.3 | 21.1 | 15.6 | 11.7 | 8.63 | 5.99 | 3.73 | 0.97 | 0.00 | 0.00        | 0.00 |  |
| 15          | 1022 | 486  | 269  | 148  | 88.1 | 56.6 | 38.5 | 27.4 | 20.0 | 14.8 | 11.2 | 8.24 | 5.73 | 3.49 | 0.78 | 0.00 | 0.00        | 0.00 |  |
| 20          | 453  | 304  | 192  | 116  | 73.2 | 49.4 | 35.0 | 25.5 | 18.9 | 14.1 | 10.7 | 7.85 | 5.46 | 3.26 | 0.59 | 0.00 | 0.00        | 0.00 |  |
| 25          | 292  | 208  | 140  | 90.2 | 60.2 | 42.3 | 30.7 | 22.8 | 17.2 | 13.0 | 9.98 | 7.36 | 5.11 | 2.91 | 0.35 | 0.00 | 0.00        | 0.00 |  |
| 30          | 131  | 113  | 87.9 | 64.4 | 47.1 | 35.2 | 26.4 | 20.2 | 15.5 | 12.0 | 9.28 | 6.86 | 4.76 | 2.56 | 0.11 | 0.00 | 0.00        | 0.00 |  |
| 35          | 91.9 | 80.4 | 64.9 | 49.7 | 37.8 | 29.1 | 22.5 | 17.5 | 13.7 | 10.8 | 8.35 | 6.14 | 4.14 | 1.96 | 0.06 | 0.00 | 0.00        | 0.00 |  |
| 40          | 52.7 | 48.1 | 41.8 | 35.0 | 28.5 | 23.0 | 18.5 | 14.9 | 11.9 | 9.55 | 7.42 | 5.43 | 3.53 | 1.36 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 45          | 39.4 | 36.3 | 32.0 | 27.4 | 22.8 | 18.9 | 15.5 | 12.8 | 10.4 | 8.35 | 6.43 | 4.55 | 2.71 | 0.75 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 50          | 26.1 | 24.4 | 22.2 | 19.8 | 17.2 | 14.7 | 12.5 | 10.6 | 8.91 | 7.16 | 5.44 | 3.67 | 1.88 | 0.14 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 55          | 20.2 | 19.0 | 17.5 | 15.8 | 14.0 | 12.2 | 10.5 | 8.96 | 7.37 | 5.73 | 4.11 | 2.49 | 0.96 | 0.07 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 60          | 14.2 | 13.5 | 12.8 | 11.9 | 10.9 | 9.78 | 8.56 | 7.28 | 5.83 | 4.30 | 2.79 | 1.31 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 65          | 10.9 | 10.3 | 9.72 | 8.92 | 8.05 | 7.09 | 6.07 | 4.99 | 3.79 | 2.56 | 1.40 | 0.66 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 70          | 7.56 | 7.15 | 6.61 | 5.98 | 5.19 | 4.41 | 3.58 | 2.71 | 1.76 | 0.82 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 75          | 4.20 | 3.89 | 3.50 | 3.06 | 2.59 | 2.20 | 1.79 | 1.36 | 0.88 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 80          | 0.84 | 0.63 | 0.39 | 0.14 | 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 |  |
| 85          | 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 |  |
| 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 |  |

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-29

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks: