

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

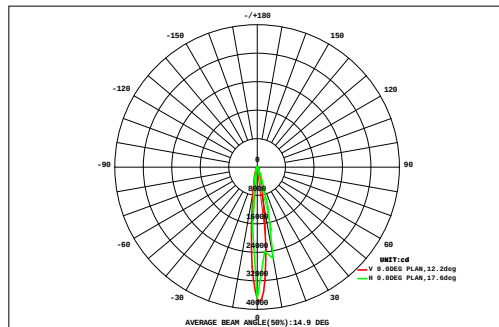
|                                                         |                |                                                                      |
|---------------------------------------------------------|----------------|----------------------------------------------------------------------|
| Maximum Intensity<br>(Luminaire orientation as tested.) |                | 8479.6 cd per klm.<br>0.0 degrees vertical<br>0.0 degrees horizontal |
| Beam Spread                                             | At 10% of Imax | 32.5V x 30.5H                                                        |
|                                                         | At 50% of Imax | 18.1V x 12.2H                                                        |
|                                                         | At 90% of Imax | 4.0V x 4.6H                                                          |
| Beam Flux                                               | Total          | 986.3 lumens per klm.                                                |
|                                                         | To 10% of Imax | 688.3 lumens per klm.                                                |
|                                                         | To 50% of Imax | 321.8 lumens per klm.                                                |
|                                                         | To 90% of Imax | 34.7 lumens per klm.                                                 |
| Upward LOR                                              |                | 0.0 %                                                                |
| Downward LOR                                            |                | 98.6 %                                                               |
| 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:2024-04-27

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:220.5V I:0.2194A P:47.25W PF:0.9768 Lamp Flux:4448.6x1 lm |          |                         |
| NAME: 8.01.017.0061 10°LWW-WZB-W55-L12-S                         | TYPE:LED | WEIGHT:                 |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202404000070 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                           | SUR.:    | PROTECTION ANGLE:       |



| DATA OF LAMP     |                   | Eff:94.15lm/W      |          |
|------------------|-------------------|--------------------|----------|
| MODEL            | LWW-WZB-W55-L12-S | Imax(cd)           | 37722    |
| NOMINAL POWER(W) | 48                | AVAILABILITY(%)    | 71.8     |
| RATED VOLTAGE(V) | 220               | Avai. FLUX(lm)     | 3196     |
| NOMINAL FLUX(lm) | 4448.6            | LOR(%)             | 100.0    |
| LAMPS INSIDE     | 1                 | TOTAL FLUX(lm)     | 4449     |
| TEST VOLTAGE(V)  | 220.5             | $\theta$ @50%(H,V) | 12,18DEG |

| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                   |       |      |      |      |      |      | UNIT:lm |      |      |      | Φ t  | Φ a  |
|----------------|-------------------|------|------|------|------|------|------|------|-------------------|-------|------|------|------|------|------|---------|------|------|------|------|------|
|                | 27                | 0.83 | 1.08 | 1.38 | 1.71 | 2.15 | 2.71 | 3.28 | 3.81              | 4.22  | 4.43 | 4.37 | 4.06 | 3.57 | 2.98 | 2.39    | 1.90 | 1.47 | 1.11 | 47.4 | 0.00 |
|                | 24                | 0.77 | 1.06 | 1.46 | 1.99 | 2.72 | 3.68 | 4.85 | 6.07              | 7.19  | 8.07 | 8.33 | 7.93 | 7.04 | 5.91 | 4.66    | 3.51 | 2.58 | 1.90 | 79.7 | 0.00 |
|                | 21                | 1.19 | 1.65 | 2.26 | 3.15 | 4.33 | 5.78 | 7.32 | 8.79              | 10.00 | 10.5 | 10.2 | 9.15 | 7.74 | 6.16 | 4.66    | 3.38 | 2.43 | 1.77 | 100  | 17.0 |
|                | 18                | 1.67 | 2.29 | 3.13 | 4.41 | 6.09 | 8.04 | 9.97 | 11.7              | 12.9  | 13.0 | 12.0 | 10.3 | 8.27 | 6.23 | 4.50    | 3.11 | 2.19 | 1.56 | 121  | 59.1 |
|                | 15                | 1.09 | 1.57 | 2.34 | 3.50 | 5.21 | 7.64 | 11.3 | 17.7              | 30.0  | 45.4 | 51.3 | 42.0 | 26.8 | 16.2 | 10.7    | 7.40 | 4.99 | 3.33 | 289  | 246  |
|                | 12                | 1.32 | 1.99 | 3.09 | 4.71 | 7.08 | 10.6 | 16.8 | 28.8              | 48.0  | 65.0 | 65.2 | 48.8 | 29.8 | 17.9 | 11.8    | 8.02 | 5.33 | 3.49 | 378  | 340  |
|                | 9                 | 2.23 | 3.47 | 5.46 | 8.25 | 12.2 | 18.3 | 30.2 | 54.8              | 84.3  | 91.5 | 68.1 | 37.3 | 20.0 | 12.9 | 8.66    | 5.63 | 3.61 | 2.26 | 469  | 431  |
|                | 6                 | 1.67 | 2.53 | 3.95 | 6.07 | 9.08 | 13.6 | 21.4 | 37.8              | 65.2  | 88.0 | 87.5 | 63.7 | 36.7 | 20.3 | 12.6    | 8.28 | 5.44 | 3.50 | 488  | 450  |
|                | 3                 | 0.98 | 1.38 | 2.09 | 3.38 | 5.22 | 7.73 | 10.6 | 16.7              | 40.8  | 81.4 | 108  | 93.2 | 55.6 | 28.8 | 17.1    | 11.3 | 7.54 | 4.92 | 497  | 458  |
|                | 0                 | 2.22 | 3.48 | 5.43 | 8.16 | 12.3 | 19.0 | 34.5 | 68.9              | 104   | 110  | 79.0 | 40.1 | 19.4 | 12.2 | 8.38    | 5.61 | 3.60 | 2.24 | 539  | 500  |
|                | -3                | 2.09 | 3.26 | 5.04 | 7.53 | 11.3 | 17.4 | 31.3 | 62.2              | 93.1  | 97.9 | 69.2 | 34.9 | 17.2 | 11.3 | 7.87    | 5.33 | 3.48 | 2.19 | 482  | 438  |
|                | -6                | 0.85 | 1.12 | 1.55 | 2.27 | 3.27 | 4.35 | 3.95 | 3.17              | 9.40  | 28.1 | 47.8 | 47.5 | 31.6 | 17.9 | 11.4    | 7.82 | 5.42 | 3.68 | 231  | 190  |
|                | -9                | 1.21 | 1.61 | 2.21 | 3.15 | 4.31 | 5.53 | 6.50 | 7.34              | 6.83  | 8.04 | 16.4 | 19.1 | 14.9 | 9.87 | 6.79    | 4.79 | 3.37 | 2.37 | 124  | 66.6 |
|                | -12               | 1.66 | 2.27 | 3.12 | 4.39 | 5.87 | 7.49 | 8.58 | 7.12              | 1.61  | 0.00 | 0.00 | 0.00 | 0.12 | 1.08 | 1.54    | 1.31 | 1.00 | 0.84 | 48.0 | 0.00 |
|                | -15               | 0.70 | 0.94 | 1.26 | 1.63 | 2.20 | 2.95 | 3.96 | 5.08              | 6.27  | 7.52 | 8.30 | 8.10 | 7.19 | 6.00 | 4.76    | 3.62 | 2.69 | 1.98 | 75.1 | 0.00 |
|                | -18               | 0.55 | 0.72 | 0.88 | 1.01 | 1.25 | 1.57 | 2.06 | 2.62              | 3.27  | 4.26 | 5.19 | 5.44 | 5.09 | 4.43 | 3.63    | 2.86 | 2.21 | 1.66 | 48.7 | 0.00 |
|                | -21               | 0.85 | 1.12 | 1.35 | 1.57 | 1.84 | 2.12 | 2.26 | 2.22              | 1.98  | 1.56 | 1.17 | 1.00 | 0.90 | 0.80 | 0.70    | 0.68 | 0.67 | 0.59 | 23.4 | 0.00 |
|                | -24               | 0.57 | 0.74 | 0.92 | 1.09 | 1.26 | 1.44 | 1.58 | 1.64              | 1.59  | 1.62 | 1.67 | 1.64 | 1.53 | 1.36 | 1.16    | 0.95 | 0.82 | 0.71 | 22.3 | 0.00 |
| -27            | -27               | -24  | -21  | -18  | -15  | -12  | -9   | -6   | HORIZONTAL( DEG ) |       |      |      | 6    | 9    | 12   | 15      | 18   | 21   | 24   | 27   |      |
| Φ t            | 22.4              | 32.3 | 46.9 | 68.0 | 97.6 | 140  | 210  | 346  | 531               | 667   | 644  | 474  | 293  | 182  | 123  | 85.5    | 58.9 | 40.1 | 4063 | ---  |      |
| Φ a            | 0.00              | 0.00 | 0.00 | 4.73 | 40.0 | 66.7 | 154  | 305  | 496               | 633   | 604  | 429  | 246  | 137  | 63.6 | 16.1    | 0.00 | 0.00 | ---  | 3196 |      |

one-half-peak spread: U:4.9,D:13.2 , L:6.2,R:6.1

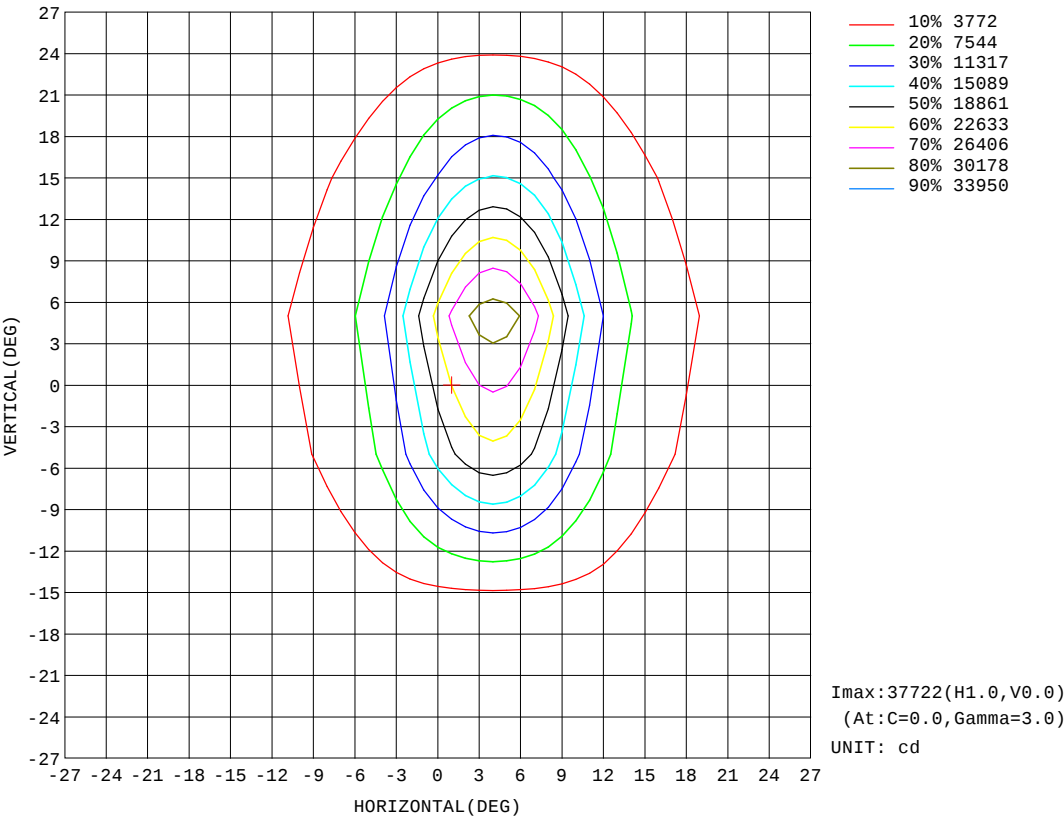
NEMA Beam Type: Type 3

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-27

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:220.5V I:0.2194A P:47.25W PF:0.9768 Lamp Flux:4448.6x1 lm |          |                         |
| NAME: 8.01.017.0061 10°LWW-WZB-W55-L12-S                         | TYPE:LED | WEIGHT:                 |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202404000070 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                           | SUR.:    | PROTECTION ANGLE:       |

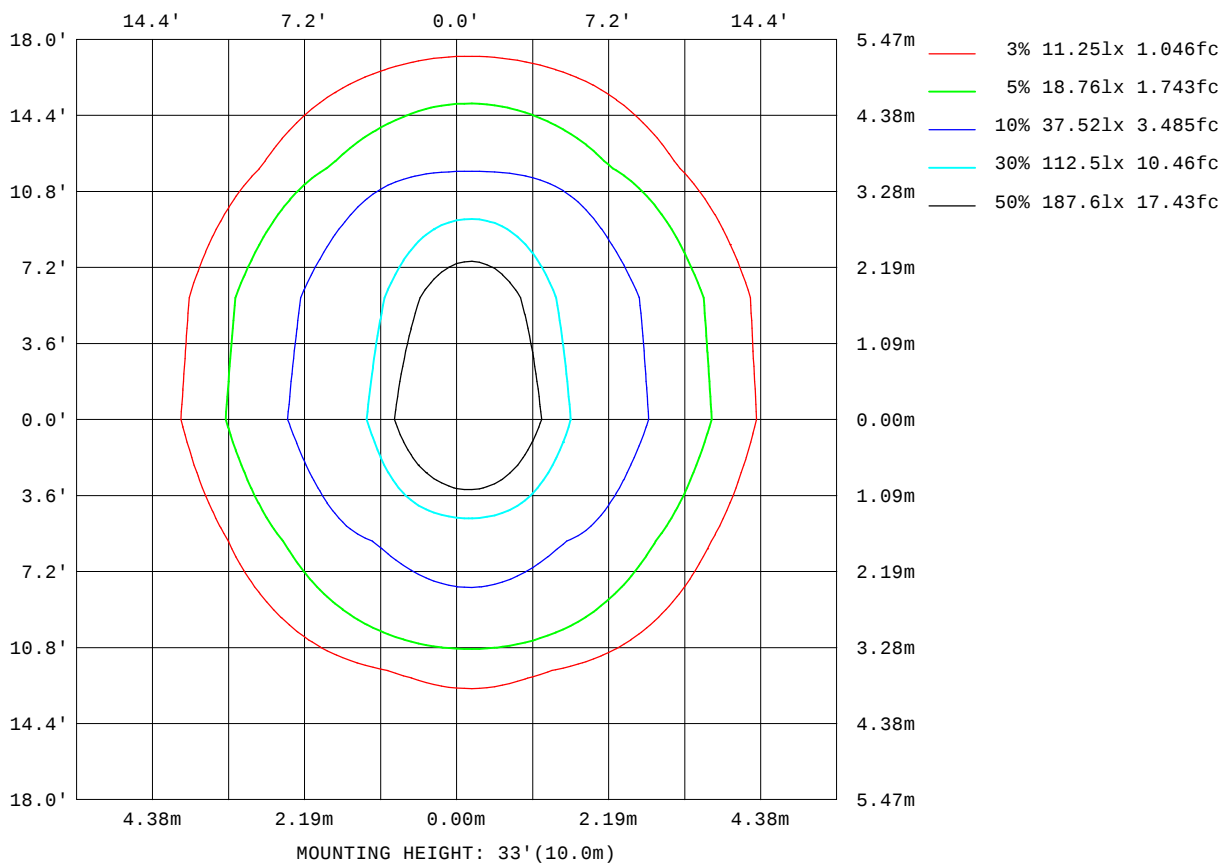


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-27

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:220.5V I:0.2194A P:47.25W PF:0.9768 Lamp Flux:4448.6x1 lm |          |                         |
| NAME: 8.01.017.0061 10°LWW-WZB-W55-L12-S                         | TYPE:LED | WEIGHT:                 |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202404000070 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                           | SUR.:    | PROTECTION ANGLE:       |

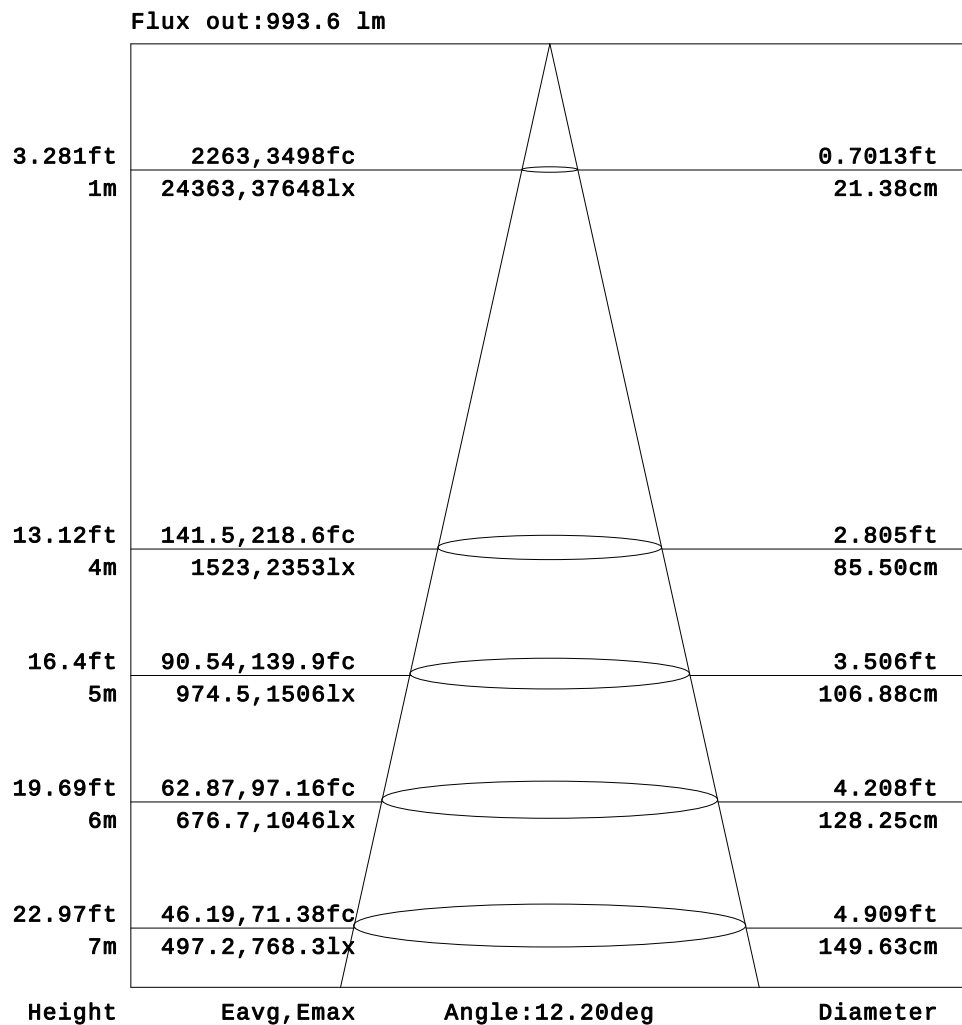


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-27

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:220.5V I:0.2194A P:47.25W PF:0.9768 Lamp Flux:4448.6x1 lm |          |                         |
| NAME: 8.01.017.0061 10°LWW-WZB-W55-L12-S                         | TYPE:LED | WEIGHT:                 |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202404000070 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                           | SUR.:    | PROTECTION ANGLE:       |

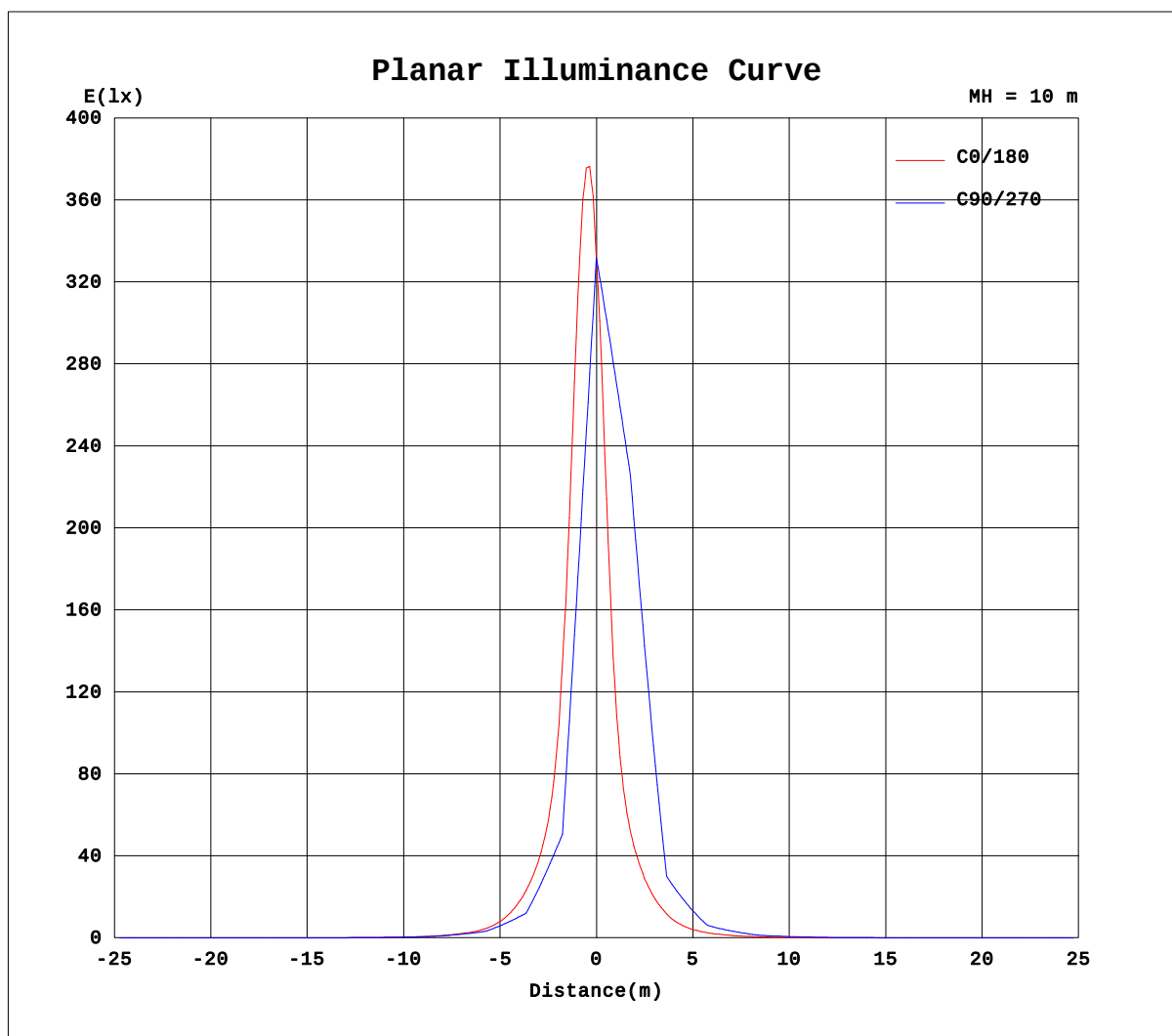


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-04-27

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:2024-04-27

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:220.5V I:0.2194A P:47.25W PF:0.9768 Lamp Flux:4448.6x1 lm |          |                         |
| NAME: 8.01.017.0061 10°LWW-WZB-W55-L12-S                         | TYPE:LED | WEIGHT:                 |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202404000070 |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.17 | 0.33 |
| -70         | 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 | 0.15        | 0.55 | 0.78 |
| -65         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.18 | 0.35 | 0.55 | 0.77 | 1.02        | 1.47 | 1.88 |
| -60         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.58 | 0.88 | 1.37 | 1.82 | 2.38        | 2.92 | 3.32 |
| -55         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.51 | 0.85 | 1.32 | 1.92 | 2.47 | 3.14 | 3.83        | 4.56 | 5.28 |
| -50         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.77 | 1.39 | 2.05 | 2.76 | 3.59 | 4.36 | 5.28 | 6.15        | 7.09 | 7.82 |
| -45         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.41 | 1.06 | 1.80 | 2.69 | 3.85 | 5.14 | 6.65 | 8.41 | 9.95        | 11.4 | 12.9 |
| -40         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 | 1.26 | 2.13 | 3.20 | 4.72 | 6.37 | 8.46 | 11.1 | 13.4 | 15.5        | 17.6 | 19.1 |
| -35         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.50 | 1.24 | 2.23 | 3.63 | 5.34 | 7.76 | 10.8 | 15.1 | 20.0 | 24.6        | 29.4 | 33.6 |
| -30         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.49 | 1.25 | 2.34 | 3.82 | 6.04 | 8.74 | 12.5 | 18.1 | 25.0 | 32.1 | 39.3        | 46.7 | 50.7 |
| -25         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 1.01 | 2.18 | 3.74 | 5.95 | 9.11 | 13.8 | 21.1 | 32.0 | 44.8 | 61.1        | 80.6 | 96.0 |
| -20         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.84 | 2.04 | 3.81 | 6.07 | 9.46 | 14.7 | 23.1 | 36.4 | 54.2 | 75.7 | 106         | 135  | 150  |
| -15         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 1.56 | 3.05 | 5.14 | 8.31 | 13.8 | 22.7 | 37.3 | 60.6 | 98.5 | 159         | 240  | 321  |
| -10         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 1.37 | 2.72 | 4.58 | 7.63 | 13.2 | 22.5 | 38.3 | 63.3 | 107  | 188  | 308         | 445  | 550  |
| -5          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.72 | 1.97 | 3.62 | 6.26 | 10.7 | 18.2 | 30.9 | 53.0 | 96.6 | 183  | 338         | 682  | 1649 |
| 0           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 1.52 | 3.04 | 5.46 | 9.66 | 16.3 | 27.4 | 46.9 | 87.2 | 176  | 343  | 689         | 1944 | 3697 |
| 5           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 2.05 | 3.76 | 6.67 | 11.6 | 19.5 | 33.2 | 57.7 | 110  | 220  | 419         | 899  | 2377 |
| 10          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 1.50 | 2.94 | 5.13 | 8.99 | 15.4 | 25.9 | 45.3 | 80.4 | 160  | 306  | 584         | 1388 | 2618 |
| 15          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | 1.87 | 3.46 | 5.87 | 9.93 | 16.7 | 28.3 | 48.2 | 85.5 | 158  | 286         | 532  | 1150 |
| 20          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 1.19 | 2.60 | 4.34 | 7.11 | 11.8 | 19.7 | 33.0 | 54.4 | 87.8 | 147  | 231         | 317  | 371  |
| 25          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 1.41 | 2.77 | 4.59 | 7.37 | 11.7 | 19.1 | 30.9 | 49.0 | 76.0 | 119         | 172  | 219  |
| 30          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.69 | 1.78 | 3.17 | 5.15 | 7.63 | 11.7 | 18.3 | 27.4 | 39.4 | 52.4 | 70.3        | 86.7 | 95.4 |
| 35          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.79 | 1.79 | 3.10 | 4.80 | 7.15 | 10.6 | 15.9 | 23.1 | 31.3 | 40.9        | 52.3 | 61.3 |
| 40          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.94 | 1.88 | 3.01 | 4.56 | 6.39 | 8.90 | 12.5 | 16.8 | 21.0 | 25.5        | 29.8 | 31.7 |
| 45          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.23 | 0.78 | 1.59 | 2.58 | 3.87 | 5.38 | 7.37 | 10.0 | 12.9 | 15.8        | 18.8 | 21.3 |
| 50          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.62 | 1.31 | 2.10 | 3.08 | 4.09 | 5.26 | 6.75 | 8.25 | 9.81        | 11.2 | 11.6 |
| 55          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.44 | 0.87 | 1.49 | 2.27 | 3.06 | 4.00 | 5.06 | 6.15        | 7.28 | 8.05 |
| 60          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.35 | 0.81 | 1.38 | 1.94 | 2.51 | 3.17 | 3.86        | 4.44 | 4.52 |
| 65          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.26 | 0.51 | 0.81 | 1.08 | 1.48 | 2.03        | 2.56 | 2.86 |
| 70          | 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 | 0.05 | 0.44 | 0.87        | 1.15 | 1.12 |
| 75          | 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 | 0.10 | 0.31        | 0.50 | 0.59 |
| 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 |
| 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:2024-04-27

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:220.5V I:0.2194A P:47.25W PF:0.9768 Lamp Flux:4448.6x1 lm |          |                         |
| NAME: 8.01.017.0061 10°LWW-WZB-W55-L12-S                         | TYPE:LED | WEIGHT:                 |
| DIM.:                                                            | SPEC.:   | SERIAL No.:202404000070 |
| 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         | 0.41 | 0.33 | 0.08 | 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 |  |
| -70         | 0.79 | 0.39 | 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 |  |
| -65         | 2.09 | 1.86 | 1.31 | 0.93 | 0.71 | 0.54 | 0.33 | 0.15 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -60         | 3.23 | 2.71 | 2.08 | 1.58 | 1.21 | 0.83 | 0.43 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -55         | 5.64 | 5.27 | 4.45 | 3.67 | 2.97 | 2.40 | 1.84 | 1.28 | 0.83 | 0.47 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -50         | 7.76 | 6.88 | 5.86 | 4.89 | 4.02 | 3.29 | 2.56 | 1.87 | 1.21 | 0.58 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -45         | 13.6 | 12.8 | 11.2 | 9.59 | 7.95 | 6.26 | 4.81 | 3.61 | 2.57 | 1.66 | 0.88 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -40         | 18.8 | 16.9 | 14.6 | 12.4 | 9.82 | 7.42 | 5.56 | 4.08 | 2.80 | 1.78 | 0.88 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -35         | 35.1 | 33.0 | 28.3 | 23.4 | 18.5 | 13.8 | 9.86 | 6.98 | 4.85 | 3.25 | 1.99 | 0.98 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -30         | 49.8 | 43.9 | 36.0 | 28.6 | 21.4 | 15.2 | 10.5 | 7.21 | 4.89 | 3.13 | 1.85 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -25         | 101  | 92.1 | 74.6 | 55.1 | 40.2 | 28.0 | 18.6 | 12.1 | 7.79 | 5.05 | 3.12 | 1.73 | 0.58 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -20         | 144  | 121  | 89.2 | 62.6 | 43.9 | 28.7 | 18.4 | 11.3 | 7.17 | 4.48 | 2.66 | 1.26 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -15         | 351  | 295  | 211  | 135  | 82.8 | 50.8 | 31.3 | 18.8 | 11.3 | 6.90 | 4.12 | 2.35 | 0.96 | 0.03 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -10         | 505  | 370  | 237  | 139  | 79.5 | 47.2 | 27.9 | 16.3 | 9.65 | 5.70 | 3.32 | 1.69 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| -5          | 2127 | 1182 | 500  | 268  | 143  | 75.1 | 42.3 | 24.5 | 14.4 | 8.43 | 4.81 | 2.69 | 1.19 | 0.08 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 0           | 2765 | 1003 | 445  | 232  | 114  | 58.0 | 33.2 | 19.3 | 11.3 | 6.40 | 3.52 | 1.81 | 0.51 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 5           | 3175 | 1689 | 647  | 329  | 169  | 83.8 | 45.3 | 26.0 | 15.3 | 8.92 | 4.96 | 2.71 | 1.22 | 0.10 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 10          | 2038 | 838  | 407  | 213  | 108  | 56.1 | 32.1 | 18.5 | 10.9 | 6.24 | 3.40 | 1.74 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 15          | 1510 | 895  | 421  | 232  | 126  | 67.8 | 38.6 | 22.4 | 13.2 | 7.83 | 4.46 | 2.46 | 1.03 | 0.05 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 20          | 348  | 272  | 181  | 109  | 65.7 | 39.9 | 23.8 | 14.2 | 8.44 | 4.99 | 2.92 | 1.38 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 25          | 233  | 204  | 153  | 102  | 64.7 | 41.0 | 25.6 | 15.7 | 9.57 | 5.91 | 3.54 | 1.95 | 0.66 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 30          | 91.6 | 78.6 | 60.7 | 46.2 | 33.0 | 21.9 | 14.3 | 9.14 | 5.93 | 3.72 | 2.18 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 35          | 63.4 | 58.2 | 48.5 | 37.8 | 29.0 | 20.3 | 13.8 | 9.23 | 6.15 | 4.01 | 2.44 | 1.20 | 0.24 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 40          | 30.3 | 26.9 | 23.0 | 18.9 | 14.3 | 10.4 | 7.45 | 5.35 | 3.67 | 2.29 | 1.18 | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 45          | 21.5 | 19.8 | 17.4 | 14.9 | 12.0 | 9.07 | 6.72 | 4.90 | 3.47 | 2.25 | 1.24 | 0.42 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 50          | 11.0 | 9.90 | 8.82 | 7.52 | 6.04 | 4.76 | 3.71 | 2.67 | 1.77 | 0.95 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 55          | 7.93 | 7.26 | 6.52 | 5.70 | 4.75 | 3.78 | 2.94 | 2.14 | 1.42 | 0.77 | 0.33 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 60          | 4.14 | 3.73 | 3.27 | 2.75 | 2.27 | 1.77 | 1.22 | 0.72 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 65          | 2.72 | 2.38 | 2.04 | 1.68 | 1.33 | 1.04 | 0.77 | 0.51 | 0.27 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00        | 0.00 |  |
| 70          | 0.89 | 0.63 | 0.37 | 0.18 | 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 |  |
| 75          | 0.52 | 0.40 | 0.26 | 0.14 | 0.06 | 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 |  |
| 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:2024-04-27

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