

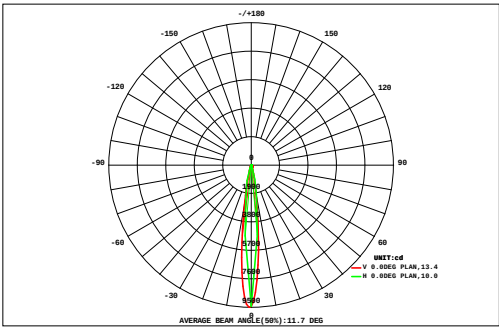
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|                                                         |                |                                                                       |
|---------------------------------------------------------|----------------|-----------------------------------------------------------------------|
| Maximum Intensity<br>(Luminaire orientation as tested.) |                | 10808.0 cd per klm.<br>0.0 degrees vertical<br>0.0 degrees horizontal |
| Beam Spread                                             | At 10% of Imax | 30.9V x 26.8H                                                         |
|                                                         | At 50% of Imax | 10.0V x 13.4H                                                         |
|                                                         | At 90% of Imax | 3.4V x 5.3H                                                           |
| Beam Flux                                               | Total          | 981.3 lumens per klm.                                                 |
|                                                         | To 10% of Imax | 651.2 lumens per klm.                                                 |
|                                                         | To 50% of Imax | 278.5 lumens per klm.                                                 |
|                                                         | To 90% of Imax | 28.7 lumens per klm.                                                  |
| Upward LOR                                              |                | 0.0 %                                                                 |
| Downward LOR                                            |                | 98.1 %                                                                |
| Luminaire Efficiency(Light Output Ratio)                |                | 100.0 %                                                               |

LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.5V I:0.2557A P:18.17W PF:0.5894 Freq:50.00Hz Lamp Flux:877.932x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080009 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |



| DATA OF LAMP             |          | Eff:48.33lm/W   |          |
|--------------------------|----------|-----------------|----------|
| MODEL SP-PZT-R110-3P-RDM | Imax(cd) | 9489            |          |
| NOMINAL POWER(W)         | 18       | AVAILABILITY(%) | 69.5     |
| RATED VOLTAGE(V)         | 120      | Avai. FLUX(lm)  | 610.4    |
| NOMINAL FLUX(lm)         | 877.932  | LOR(%)          | 100.0    |
| LAMPS INSIDE             | 1        | TOTAL FLUX(lm)  | 877.9    |
| TEST VOLTAGE(V)          | 120      | θ @50%(H,V)     | 13,10DEG |

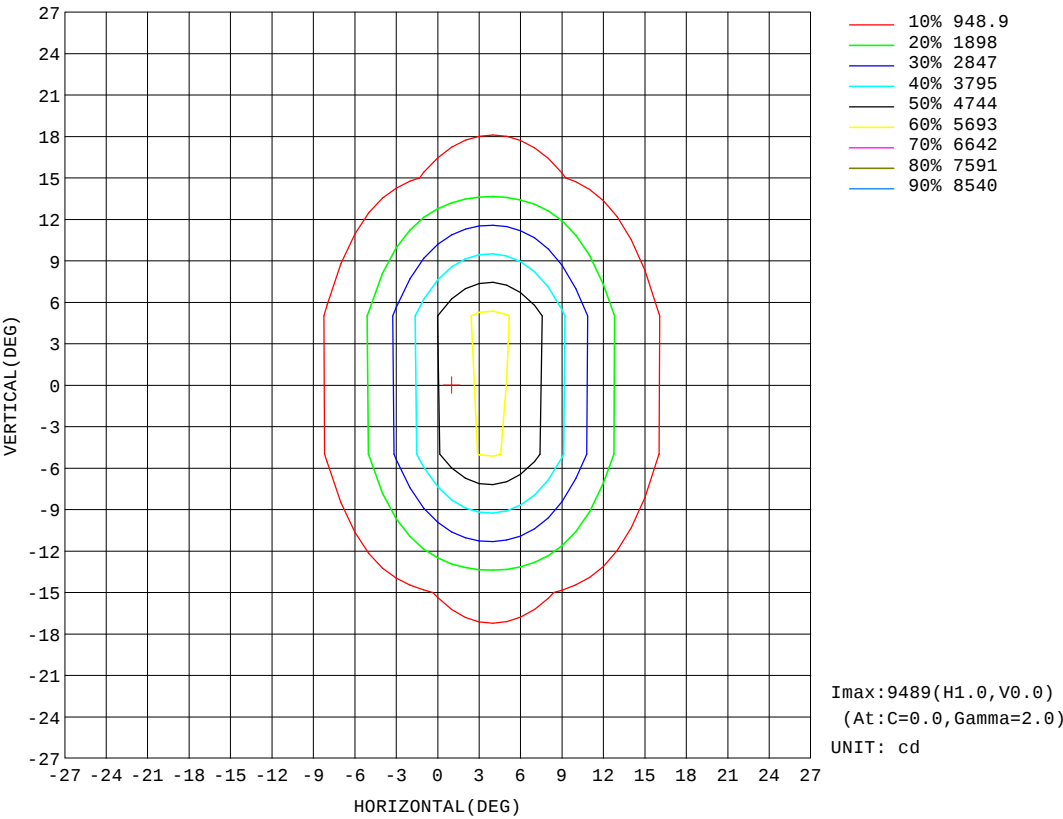
|                |      | AREA FLUX DIAGRAM |      |      |      |      |      |      |                   |      |      |      |      |      |      |      |      | UNIT:lm |      |      |      | Φ t | Φ a |
|----------------|------|-------------------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|------|------|---------|------|------|------|-----|-----|
| VERTICAL (DEG) | 27   | 0.19              | 0.22 | 0.25 | 0.29 | 0.33 | 0.37 | 0.41 | 0.45              | 0.47 | 0.48 | 0.48 | 0.46 | 0.43 | 0.38 | 0.34 | 0.30 | 0.25    | 0.22 | 6.33 | 0.00 |     |     |
|                | 24   | 0.18              | 0.22 | 0.26 | 0.31 | 0.38 | 0.45 | 0.53 | 0.61              | 0.68 | 0.73 | 0.75 | 0.72 | 0.66 | 0.59 | 0.51 | 0.43 | 0.36    | 0.30 | 8.66 | 0.00 |     |     |
|                | 21   | 0.23              | 0.28 | 0.35 | 0.42 | 0.50 | 0.60 | 0.70 | 0.80              | 0.87 | 0.90 | 0.88 | 0.81 | 0.72 | 0.62 | 0.52 | 0.43 | 0.36    | 0.30 | 10.3 | 0.00 |     |     |
|                | 18   | 0.30              | 0.36 | 0.44 | 0.53 | 0.64 | 0.77 | 0.89 | 1.01              | 1.07 | 1.08 | 1.01 | 0.90 | 0.77 | 0.64 | 0.53 | 0.43 | 0.35    | 0.28 | 12.0 | 0.00 |     |     |
|                | 15   | 0.24              | 0.30 | 0.39 | 0.51 | 0.68 | 0.95 | 1.39 | 2.08              | 3.06 | 3.99 | 4.26 | 3.69 | 2.69 | 1.81 | 1.22 | 0.85 | 0.61    | 0.46 | 29.2 | 17.0 |     |     |
|                | 12   | 0.28              | 0.36 | 0.48 | 0.64 | 0.91 | 1.36 | 2.10 | 3.23              | 4.60 | 5.58 | 5.52 | 4.48 | 3.12 | 2.04 | 1.35 | 0.92 | 0.66    | 0.49 | 38.1 | 26.3 |     |     |
|                | 9    | 0.40              | 0.53 | 0.71 | 1.00 | 1.49 | 2.31 | 3.64 | 5.54              | 7.23 | 7.50 | 6.10 | 4.07 | 2.50 | 1.58 | 1.03 | 0.70 | 0.52    | 0.39 | 47.3 | 35.7 |     |     |
|                | 6    | 0.34              | 0.44 | 0.59 | 0.83 | 1.24 | 1.98 | 3.44 | 6.38              | 10.6 | 14.0 | 14.3 | 11.4 | 7.09 | 3.79 | 2.02 | 1.17 | 0.76    | 0.53 | 80.9 | 71.0 |     |     |
|                | 3    | 0.26              | 0.33 | 0.44 | 0.61 | 0.92 | 1.54 | 3.09 | 7.13              | 14.1 | 21.1 | 23.4 | 19.5 | 12.2 | 6.28 | 3.13 | 1.71 | 1.04    | 0.70 | 118  | 109  |     |     |
|                | 0    | 0.43              | 0.59 | 0.86 | 1.37 | 2.38 | 4.83 | 10.8 | 20.3              | 28.3 | 29.1 | 22.4 | 12.7 | 5.82 | 2.66 | 1.40 | 0.87 | 0.59    | 0.43 | 146  | 137  |     |     |
|                | -3   | 0.42              | 0.57 | 0.83 | 1.30 | 2.24 | 4.50 | 10.0 | 18.8              | 26.4 | 27.5 | 21.6 | 12.7 | 6.02 | 2.81 | 1.49 | 0.91 | 0.61    | 0.44 | 139  | 130  |     |     |
|                | -6   | 0.24              | 0.30 | 0.37 | 0.45 | 0.52 | 0.45 | 0.39 | 0.97              | 3.68 | 9.11 | 13.0 | 12.8 | 8.92 | 4.92 | 2.57 | 1.45 | 0.91    | 0.62 | 61.6 | 54.1 |     |     |
| -9             | 0.30 | 0.39              | 0.50 | 0.65 | 0.84 | 1.18 | 1.71 | 2.35 | 2.73              | 4.02 | 5.37 | 5.33 | 3.98 | 2.45 | 1.46 | 0.92 | 0.63 | 0.46    | 35.3 | 24.7 |      |     |     |
| -12            | 0.38 | 0.50              | 0.67 | 0.91 | 1.28 | 1.82 | 2.41 | 2.55 | 1.50              | 0.32 | 0.00 | 0.00 | 0.00 | 0.05 | 0.20 | 0.29 | 0.31 | 0.27    | 13.5 | 2.47 |      |     |     |
| -15            | 0.21 | 0.25              | 0.31 | 0.38 | 0.47 | 0.58 | 0.74 | 0.99 | 1.49              | 2.22 | 2.69 | 2.56 | 2.02 | 1.44 | 1.02 | 0.74 | 0.54 | 0.41    | 19.1 | 3.44 |      |     |     |
| -18            | 0.18 | 0.22              | 0.25 | 0.28 | 0.29 | 0.27 | 0.26 | 0.25 | 0.34              | 0.83 | 1.44 | 1.64 | 1.43 | 1.10 | 0.82 | 0.62 | 0.46 | 0.37    | 11.0 | 0.00 |      |     |     |
| -21            | 0.24 | 0.29              | 0.34 | 0.39 | 0.43 | 0.46 | 0.42 | 0.30 | 0.14              | 0.06 | 0.03 | 0.04 | 0.07 | 0.12 | 0.18 | 0.21 | 0.21 | 0.19    | 4.12 | 0.00 |      |     |     |
| -24            | 0.17 | 0.21              | 0.24 | 0.28 | 0.32 | 0.34 | 0.32 | 0.29 | 0.31              | 0.34 | 0.35 | 0.34 | 0.32 | 0.29 | 0.26 | 0.25 | 0.23 | 0.21    | 5.07 | 0.00 |      |     |     |
| -27            | -27  | -24               | -21  | -18  | -15  | -12  | -9   | -6   | HORIZONTAL( DEG ) |      |      |      | 6    | 9    | 12   | 15   | 18   | 21      | 24   | 27   |      |     |     |
| Φ t            | 4.99 | 6.37              | 8.29 | 11.2 | 15.9 | 24.8 | 43.3 | 73.9 | 108               | 129  | 124  | 94.0 | 58.8 | 33.6 | 20.1 | 13.2 | 9.41 | 7.07    | 785  | ---  |      |     |     |
| Φ a            | 0.00 | 0.00              | 0.00 | 0.00 | 2.38 | 10.1 | 31.5 | 65.1 | 100               | 122  | 117  | 86.7 | 48.3 | 20.1 | 6.22 | 0.00 | 0.00 | 0.00    | ---  | 610  |      |     |     |

one-half-peak spread: U:5.0,D:5.1 , L:7.0,R:6.0,EMA Beam Type: Type 2 x 3 (H x V)

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01  
V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.5V I:0.2557A P:18.17W PF:0.5894 Freq:50.00Hz Lamp Flux:877.932x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080009 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |

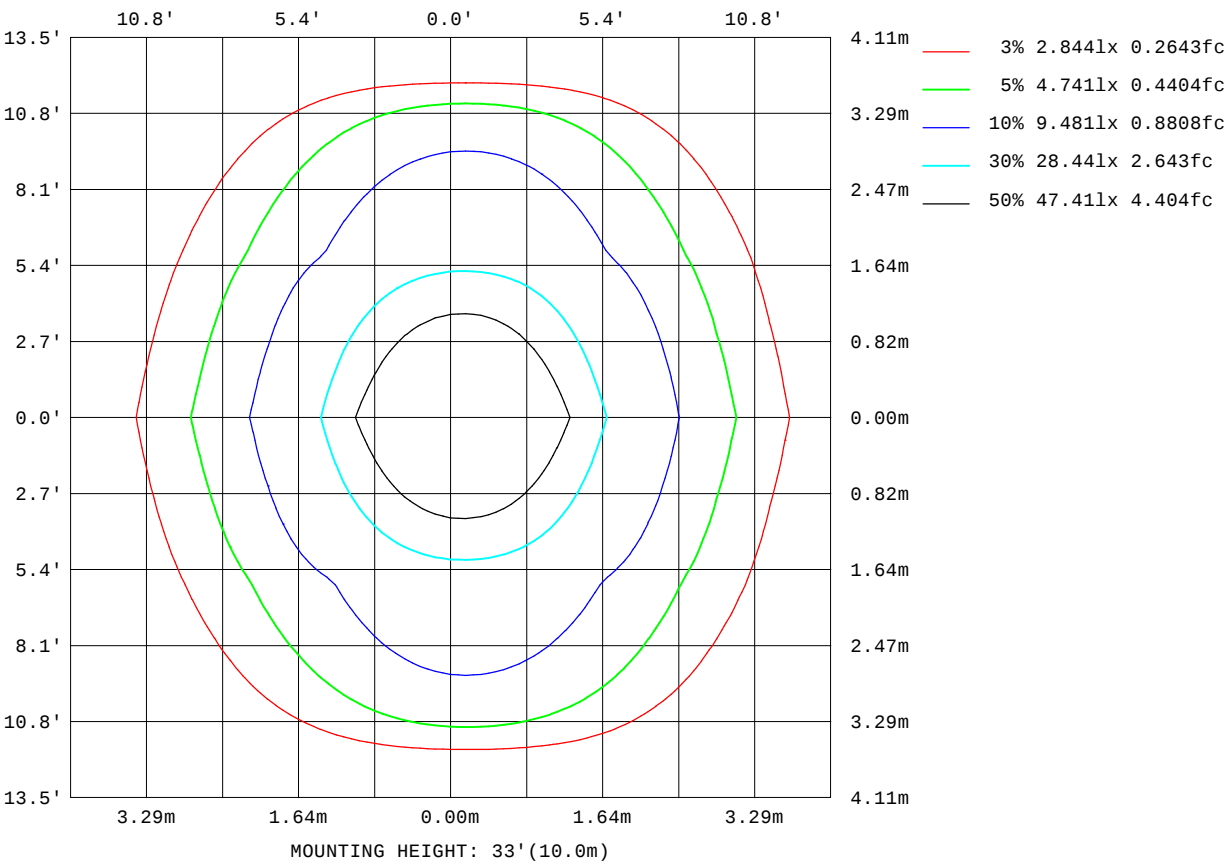


H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

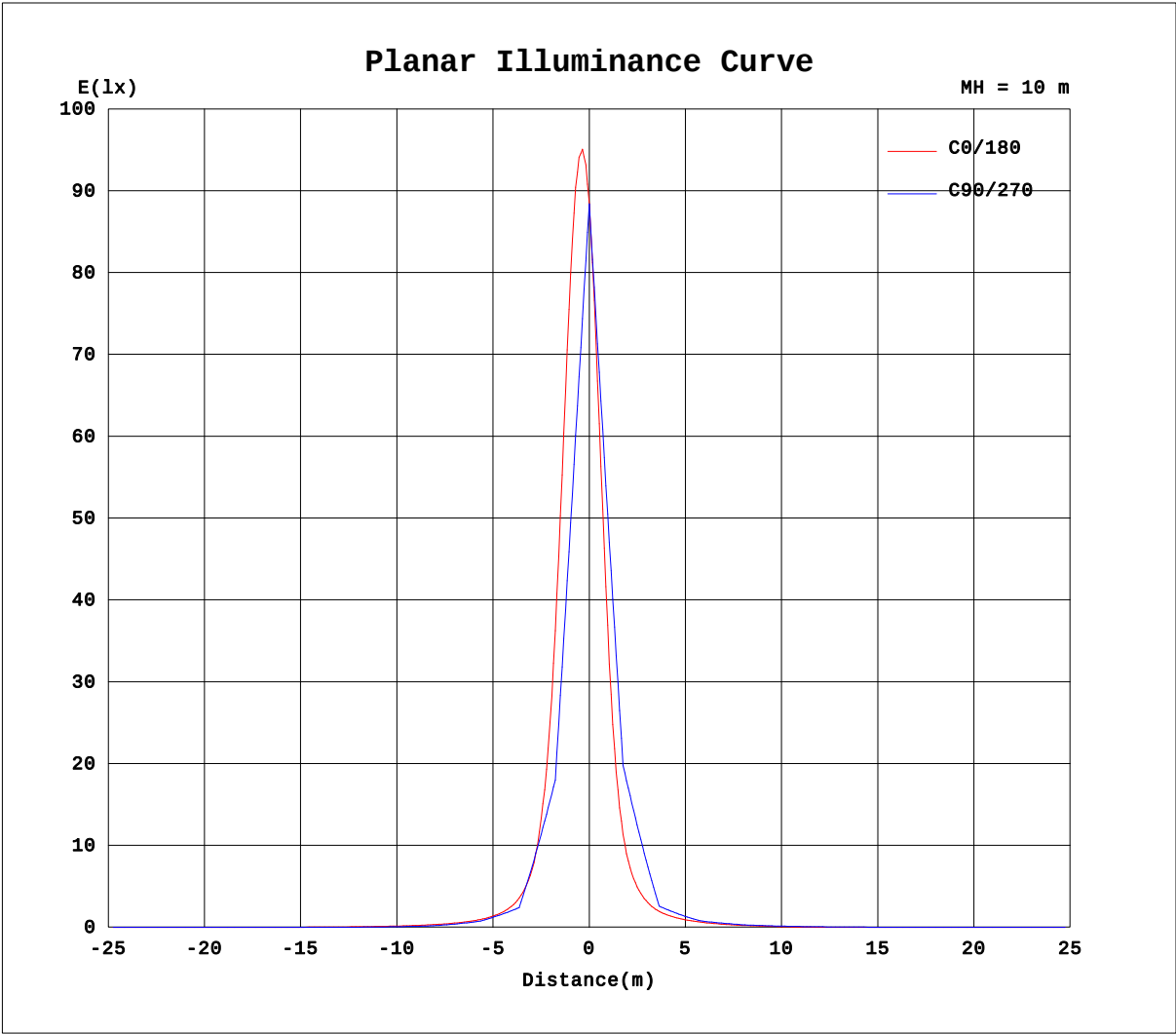
|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.5V I:0.2557A P:18.17W PF:0.5894 Freq:50.00Hz Lamp Flux:877.932x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080009 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

Planar Illuminance Curve

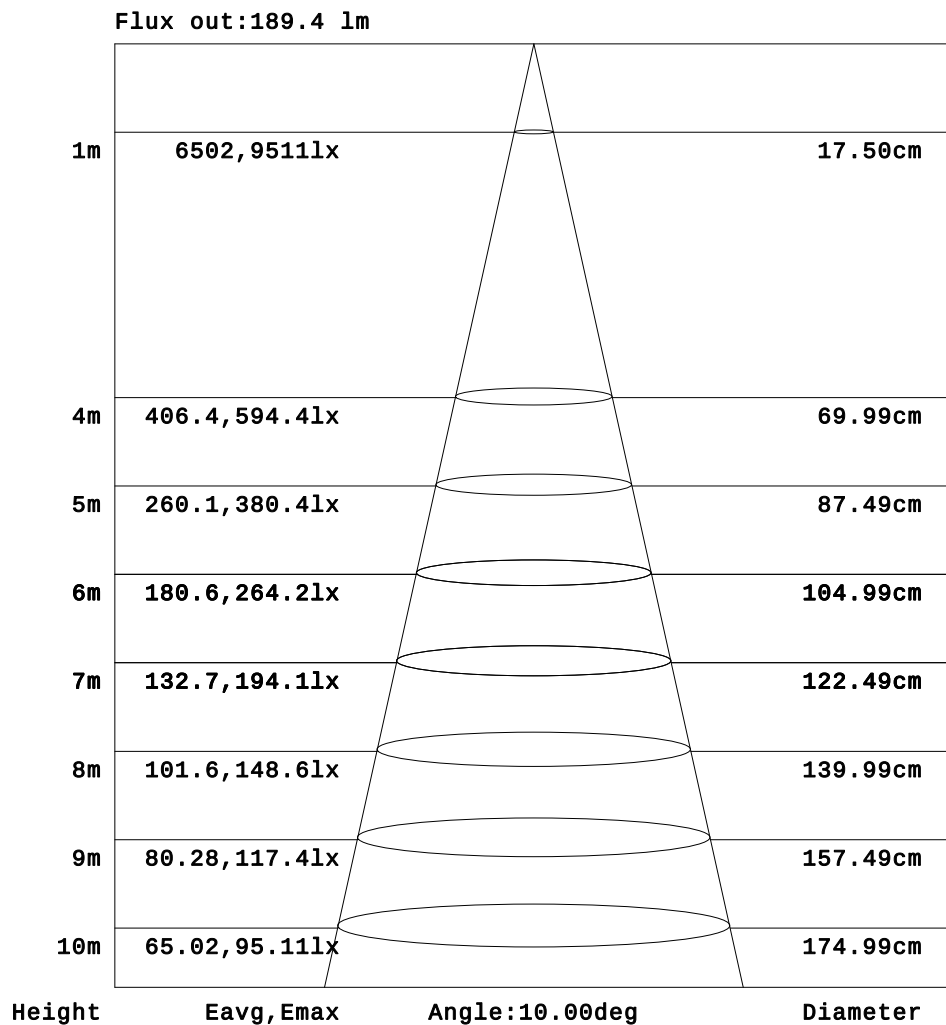


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## AAI Figure

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.5V I:0.2557A P:18.17W PF:0.5894 Freq:50.00Hz Lamp Flux:877.932x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080009 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | 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: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.5V I:0.2557A P:18.17W PF:0.5894 Freq:50.00Hz Lamp Flux:877.932x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080009 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |

|                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| Table--1         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNIT: cd |      |      |
| H(DEG)<br>V(DEG) | -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     | 0.00 | 0.00 |
| -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 | 0.00     | 0.00 | 0.00 |
| -65              | 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 |
| -60              | 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 |
| -55              | 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 | 0.02 | 2.31     | 4.68 | 5.96 |
| -50              | 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 | 2.31 | 7.83 | 11.0     | 13.0 | 13.8 |
| -45              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 | 3.77 | 8.22 | 11.5 | 16.8 | 21.6     | 24.4 | 26.6 |
| -40              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.55 | 13.2 | 20.4 | 26.7 | 31.8 | 35.8     | 38.8 | 40.2 |
| -35              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.87 | 9.23 | 18.5 | 29.1 | 40.7 | 52.2 | 61.9     | 69.6 | 75.2 |
| -30              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.66 | 11.9 | 24.9 | 36.7 | 51.0 | 69.1 | 84.3 | 97.7     | 108  | 113  |
| -25              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.15 | 12.8 | 29.3 | 45.6 | 63.0 | 85.5 | 112  | 141      | 172  | 198  |
| -20              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.79 | 13.1 | 32.0 | 53.6 | 74.6 | 101  | 132  | 173  | 222      | 271  | 299  |
| -15              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 10.5 | 28.6 | 49.3 | 71.9 | 99.9 | 142  | 208  | 331      | 574  | 979  |
| -10              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 8.51 | 29.0 | 48.8 | 71.4 | 101  | 145  | 222  | 370  | 693      | 1344 | 2003 |
| -5               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.36 | 18.9 | 40.2 | 60.4 | 86.6 | 124  | 188  | 321  | 667      | 1904 | 4673 |
| 0                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.77 | 16.2 | 35.5 | 54.9 | 79.0 | 113  | 170  | 283  | 595  | 1736     | 5665 | 9427 |
| 5                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.39 | 22.7 | 41.6 | 61.1 | 86.9 | 124  | 188  | 322  | 674      | 1937 | 4757 |
| 10               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.71 | 16.3 | 33.3 | 50.5 | 72.1 | 101  | 145  | 223  | 377  | 729      | 1472 | 2203 |
| 15               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.84 | 20.0 | 36.2 | 52.7 | 73.4 | 101  | 143  | 210  | 342      | 613  | 1074 |
| 20               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.13 | 13.2 | 26.2 | 40.8 | 56.9 | 76.8 | 102  | 135  | 179  | 233      | 289  | 321  |
| 25               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.86 | 14.2 | 26.4 | 39.6 | 54.2 | 71.3 | 92.1 | 118  | 150      | 185  | 214  |
| 30               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 7.63 | 16.1 | 27.9 | 39.3 | 51.7 | 65.0 | 79.3 | 94.3 | 108      | 119  | 125  |
| 35               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.29 | 7.28 | 15.2 | 25.1 | 35.3 | 45.2 | 55.7 | 66.4 | 76.8     | 85.8 | 92.0 |
| 40               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.18 | 7.31 | 14.3 | 23.1 | 30.9 | 37.8 | 44.9 | 51.1 | 56.6     | 60.6 | 62.6 |
| 45               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.86 | 5.09 | 11.3 | 18.2 | 24.7 | 30.5 | 35.8 | 40.3     | 43.9 | 46.2 |
| 50               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 7.71 | 13.5 | 18.5 | 22.6 | 26.0 | 28.6     | 30.3 | 31.1 |
| 55               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 2.35 | 5.02 | 7.97 | 11.9 | 15.5 | 18.2     | 20.2 | 21.4 |
| 60               | 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 | 2.11 | 5.69 | 8.46 | 10.4     | 11.6 | 12.2 |
| 65               | 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 | 0.12 | 1.78 | 3.46 | 4.66     | 5.50 | 5.99 |
| 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 | 0.00     | 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     | 0.00 | 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 |
| 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:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.5V I:0.2557A P:18.17W PF:0.5894 Freq:50.00Hz Lamp Flux:877.932x1 lm |          |                       |
| NAME: 8.03.036.0004 10° SP-PZT-R110-3P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025080009 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |

|                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| Table--2         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNIT: cd |      |
| H(DEG)<br>V(DEG) | 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              | 0.00 | 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 |
| -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 | 0.00     | 0.00 |
| -65              | 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 |
| -60              | 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 |
| -55              | 6.97 | 6.95 | 6.66 | 6.11 | 5.33 | 4.33 | 3.15 | 1.60 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -50              | 14.0 | 13.6 | 12.7 | 11.3 | 9.51 | 7.29 | 4.52 | 1.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -45              | 27.2 | 27.0 | 25.7 | 23.6 | 20.8 | 17.4 | 13.7 | 9.64 | 5.63 | 3.10 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -40              | 40.5 | 39.1 | 36.3 | 32.6 | 28.0 | 23.1 | 18.1 | 13.2 | 8.28 | 2.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -35              | 77.0 | 75.0 | 69.5 | 61.6 | 52.7 | 43.6 | 34.9 | 26.6 | 18.7 | 11.4 | 5.02 | 1.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -30              | 112  | 105  | 93.5 | 80.0 | 66.3 | 53.5 | 41.6 | 30.4 | 20.2 | 12.0 | 4.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -25              | 206  | 191  | 161  | 130  | 102  | 80.1 | 61.8 | 46.6 | 33.7 | 22.7 | 13.9 | 5.26 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -20              | 287  | 243  | 191  | 145  | 110  | 84.0 | 63.1 | 47.1 | 33.5 | 22.5 | 12.3 | 2.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -15              | 1149 | 816  | 460  | 268  | 172  | 120  | 87.0 | 63.6 | 46.2 | 32.5 | 21.5 | 11.4 | 2.04 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -10              | 1677 | 922  | 467  | 259  | 165  | 114  | 81.1 | 58.4 | 41.8 | 28.9 | 18.3 | 8.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| -5               | 5640 | 3281 | 1171 | 462  | 242  | 152  | 104  | 73.8 | 52.8 | 37.3 | 25.3 | 15.2 | 5.12 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 0                | 7196 | 2667 | 812  | 349  | 197  | 126  | 88.0 | 62.4 | 44.3 | 30.7 | 20.0 | 10.4 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 5                | 5740 | 3333 | 1182 | 465  | 244  | 153  | 104  | 74.2 | 53.1 | 37.5 | 25.6 | 16.0 | 6.60 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 10               | 1831 | 962  | 478  | 264  | 168  | 115  | 81.8 | 59.0 | 42.2 | 29.4 | 19.5 | 10.5 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 15               | 1260 | 876  | 476  | 276  | 176  | 122  | 88.2 | 64.6 | 47.2 | 33.6 | 23.2 | 14.4 | 5.78 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 20               | 306  | 256  | 200  | 151  | 114  | 85.8 | 64.6 | 48.2 | 35.0 | 24.7 | 16.2 | 8.14 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 25               | 223  | 204  | 171  | 138  | 108  | 83.6 | 64.7 | 49.5 | 37.0 | 26.9 | 18.5 | 10.9 | 3.22 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 30               | 123  | 115  | 102  | 86.8 | 71.6 | 57.8 | 45.9 | 35.2 | 26.3 | 18.7 | 11.6 | 4.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 35               | 93.9 | 90.7 | 83.6 | 74.1 | 63.4 | 52.7 | 42.8 | 33.9 | 25.9 | 18.9 | 12.4 | 6.06 | 0.84 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 40               | 62.2 | 59.2 | 54.6 | 48.8 | 42.2 | 35.5 | 28.9 | 22.8 | 16.9 | 11.2 | 5.56 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 45               | 46.9 | 45.9 | 43.3 | 39.7 | 35.3 | 30.4 | 25.3 | 20.2 | 15.2 | 10.2 | 5.29 | 1.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 50               | 30.9 | 29.8 | 27.9 | 25.5 | 22.6 | 19.3 | 15.6 | 11.6 | 7.52 | 3.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 55               | 21.7 | 21.3 | 20.2 | 18.6 | 16.5 | 14.1 | 11.2 | 8.10 | 5.00 | 2.93 | 0.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 60               | 12.3 | 11.7 | 10.7 | 9.30 | 7.60 | 5.56 | 3.21 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 65               | 6.16 | 6.05 | 5.67 | 5.09 | 4.33 | 3.42 | 2.32 | 1.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00     | 0.00 |
| 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 | 0.00     | 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     | 0.00 |
| 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:2025-08-01

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks: