

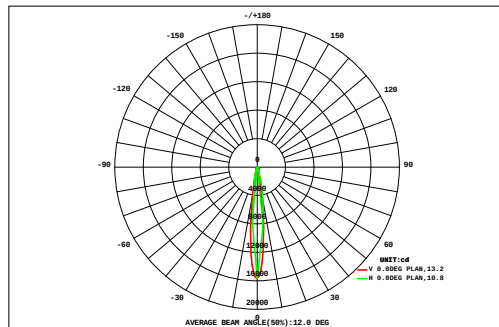
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|                                                         |                |                                                                       |
|---------------------------------------------------------|----------------|-----------------------------------------------------------------------|
| Maximum Intensity<br>(Luminaire orientation as tested.) |                | 10012.3 cd per klm.<br>0.0 degrees vertical<br>0.0 degrees horizontal |
| Beam Spread                                             | At 10% of Imax | 31.8V x 27.6H                                                         |
|                                                         | At 50% of Imax | 10.8V x 13.2H                                                         |
|                                                         | At 90% of Imax | 3.7V x 5.3H                                                           |
| Beam Flux                                               | Total          | 988.4 lumens per klm.                                                 |
|                                                         | To 10% of Imax | 629.4 lumens per klm.                                                 |
|                                                         | To 50% of Imax | 262.0 lumens per klm.                                                 |
|                                                         | To 90% of Imax | 26.5 lumens per klm.                                                  |
| Upward LOR                                              |                | 0.0 %                                                                 |
| Downward LOR                                            |                | 98.8 %                                                                |
| Luminaire Efficiency(Light Output Ratio)                |                | 100.0 %                                                               |

## LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.8V I:0.3572A P:29.75W PF:0.6897 Freq:49.99Hz Lamp Flux:1561.99x1 lm |          |                       |
| NAME: 8.03.035.0004 10° SP-PZT-R135-6P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025070076 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |



| DATA OF LAMP             |          | Eff:52.50lm/W   |          |
|--------------------------|----------|-----------------|----------|
| MODEL SP-PZT-R135-6P-RDM | Imax(cd) | 15639           |          |
| NOMINAL POWER(W)         | 30       | AVAILABILITY(%) | 67.4     |
| RATED VOLTAGE(V)         | 120      | Avai. FLUX(lm)  | 1052     |
| NOMINAL FLUX(lm)         | 1561.99  | LOR(%)          | 100.0    |
| LAMPS INSIDE             | 1        | TOTAL FLUX(lm)  | 1562     |
| TEST VOLTAGE(V)          | 120      | θ @50%(H,V)     | 13,11DEG |

| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                   |      |      |      |      |      |      |      | UNIT:lm |      |      | Φ t  | Φ a  |
|----------------|-------------------|------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|------|---------|------|------|------|------|
|                | 27                | 0.40 | 0.46 | 0.53 | 0.60 | 0.67 | 0.74 | 0.80 | 0.85              | 0.89 | 0.90 | 0.89 | 0.85 | 0.79 | 0.72 | 0.65 | 0.57    | 0.50 | 0.43 | 12.2 | 0.00 |
|                | 24                | 0.39 | 0.47 | 0.56 | 0.65 | 0.77 | 0.90 | 1.03 | 1.15              | 1.25 | 1.31 | 1.32 | 1.28 | 1.18 | 1.07 | 0.94 | 0.81    | 0.69 | 0.59 | 16.4 | 0.00 |
|                | 21                | 0.50 | 0.60 | 0.72 | 0.86 | 1.01 | 1.17 | 1.33 | 1.47              | 1.56 | 1.59 | 1.54 | 1.43 | 1.29 | 1.13 | 0.97 | 0.82    | 0.69 | 0.58 | 19.3 | 0.00 |
|                | 18                | 0.63 | 0.75 | 0.90 | 1.07 | 1.27 | 1.47 | 1.66 | 1.80              | 1.88 | 1.86 | 1.75 | 1.58 | 1.38 | 1.17 | 0.98 | 0.81    | 0.67 | 0.56 | 22.2 | 0.00 |
|                | 15                | 0.53 | 0.66 | 0.82 | 1.04 | 1.34 | 1.79 | 2.44 | 3.37              | 4.49 | 5.39 | 5.48 | 4.72 | 3.63 | 2.68 | 1.98 | 1.48    | 1.13 | 0.88 | 43.9 | 18.4 |
|                | 12                | 0.61 | 0.77 | 0.99 | 1.29 | 1.75 | 2.44 | 3.49 | 4.89              | 6.36 | 7.21 | 6.90 | 5.65 | 4.20 | 3.03 | 2.19 | 1.61    | 1.21 | 0.93 | 55.5 | 33.0 |
|                | 9                 | 0.85 | 1.10 | 1.44 | 1.94 | 2.71 | 3.91 | 5.64 | 7.74              | 9.29 | 9.15 | 7.41 | 5.28 | 3.64 | 2.52 | 1.79 | 1.32    | 0.99 | 0.75 | 67.5 | 45.5 |
|                | 6                 | 0.73 | 0.94 | 1.23 | 1.67 | 2.39 | 3.67 | 6.23 | 10.9              | 17.3 | 21.9 | 21.5 | 16.4 | 9.92 | 5.44 | 3.16 | 2.03    | 1.41 | 1.02 | 128  | 110  |
|                | 3                 | 0.57 | 0.74 | 0.97 | 1.32 | 1.96 | 3.29 | 6.73 | 14.3              | 26.0 | 36.1 | 37.3 | 28.8 | 17.0 | 8.71 | 4.69 | 2.83    | 1.88 | 1.33 | 194  | 179  |
|                | 0                 | 0.94 | 1.26 | 1.78 | 2.76 | 4.79 | 9.90 | 20.7 | 36.4              | 48.1 | 46.9 | 33.7 | 17.9 | 8.22 | 4.17 | 2.48 | 1.65    | 1.17 | 0.85 | 244  | 228  |
|                | -3                | 0.91 | 1.22 | 1.71 | 2.64 | 4.54 | 9.28 | 19.3 | 34.2              | 45.7 | 45.5 | 33.7 | 18.7 | 8.93 | 4.55 | 2.67 | 1.75    | 1.22 | 0.89 | 237  | 221  |
|                | -6                | 0.52 | 0.66 | 0.82 | 0.98 | 1.14 | 1.01 | 1.23 | 2.95              | 9.61 | 19.4 | 24.9 | 22.1 | 14.2 | 7.61 | 4.22 | 2.59    | 1.74 | 1.23 | 117  | 102  |
|                | -9                | 0.65 | 0.84 | 1.08 | 1.42 | 1.90 | 2.76 | 4.30 | 6.15              | 7.89 | 11.0 | 12.2 | 10.5 | 7.06 | 4.25 | 2.64 | 1.77    | 1.26 | 0.93 | 78.6 | 60.8 |
|                | -12               | 0.82 | 1.07 | 1.42 | 1.98 | 2.90 | 4.44 | 6.54 | 8.11              | 6.97 | 2.99 | 0.57 | 0.01 | 0.14 | 0.47 | 0.80 | 0.82    | 0.70 | 0.57 | 41.3 | 26.7 |
|                | -15               | 0.42 | 0.52 | 0.65 | 0.81 | 1.00 | 1.23 | 1.57 | 2.29              | 3.70 | 5.46 | 6.36 | 5.64 | 4.16 | 2.86 | 2.01 | 1.47    | 1.10 | 0.83 | 42.1 | 20.8 |
| -18            | 0.36              | 0.43 | 0.52 | 0.60 | 0.62 | 0.55 | 0.50 | 0.52 | 0.86              | 2.23 | 3.67 | 3.82 | 3.07 | 2.22 | 1.64 | 1.23 | 0.94    | 0.72 | 24.5 | 7.26 |      |
| -21            | 0.47              | 0.58 | 0.72 | 0.86 | 0.98 | 1.03 | 0.95 | 0.60 | 0.25              | 0.09 | 0.04 | 0.09 | 0.19 | 0.34 | 0.46 | 0.46 | 0.40    | 0.34 | 8.86 | 0.00 |      |
| -24            | 0.34              | 0.42 | 0.51 | 0.61 | 0.69 | 0.73 | 0.70 | 0.61 | 0.67              | 0.72 | 0.74 | 0.72 | 0.67 | 0.60 | 0.55 | 0.52 | 0.45    | 0.38 | 10.6 | 0.00 |      |
| -27            | -27               | -24  | -21  | -18  | -15  | -12  | -9   | -6   | HORIZONTAL( DEG ) |      |      |      | 6    | 9    | 12   | 15   | 18      | 21   | 24   | 27   |      |
| Φ t            | 10.6              | 13.5 | 17.4 | 23.1 | 32.4 | 50.3 | 85.1 | 138  | 193               | 220  | 200  | 145  | 89.6 | 53.5 | 34.8 | 24.5 | 18.2    | 13.8 | 1363 | ---  |      |
| Φ a            | 0.00              | 0.00 | 0.00 | 0.00 | 7.87 | 24.5 | 70.1 | 123  | 182               | 210  | 192  | 137  | 68.2 | 28.6 | 9.11 | 0.00 | 0.00    | 0.00 | ---  | 1052 |      |

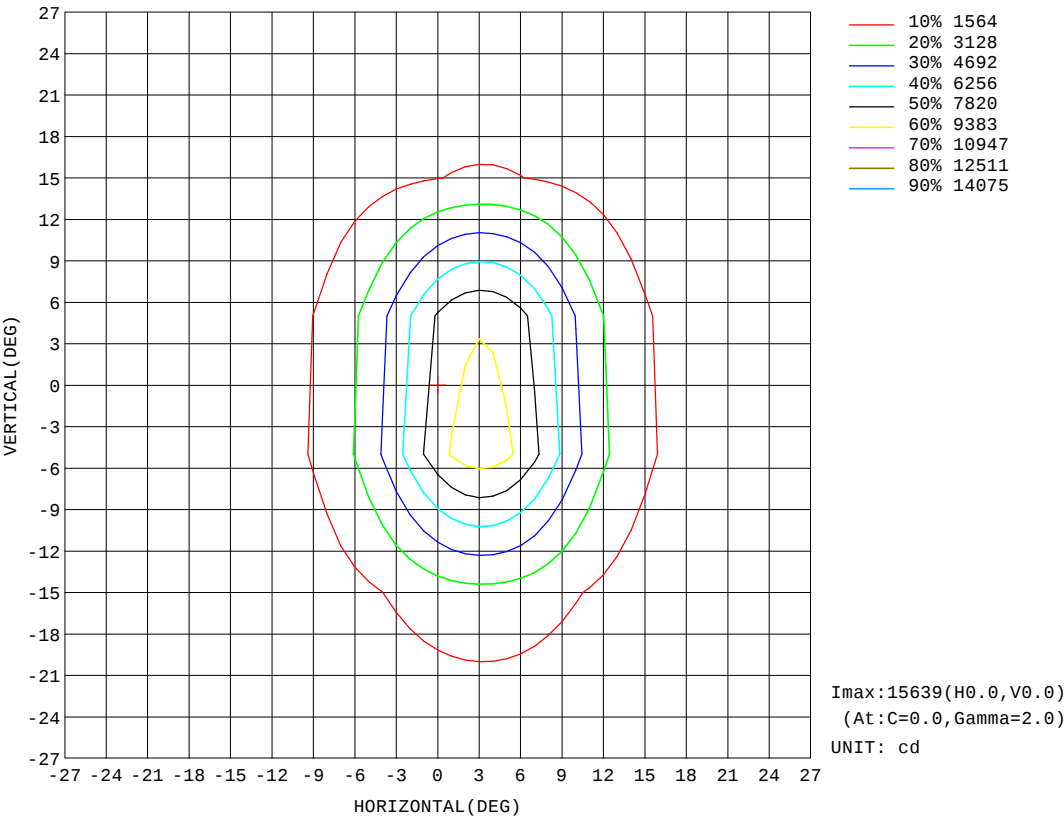
one-half-peak spread: U:5.8,D:5.1 , L:6.6,R:6.6NEMA Beam Type: Type 2 x 3 (H x V)

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-07-30

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:120.8V I:0.3572A P:29.75W PF:0.6897 Freq:49.99Hz Lamp Flux:1561.99x1 lm |          |                       |
| NAME: 8.03.035.0004 10° SP-PZT-R135-6P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025070076 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding Angle:      |

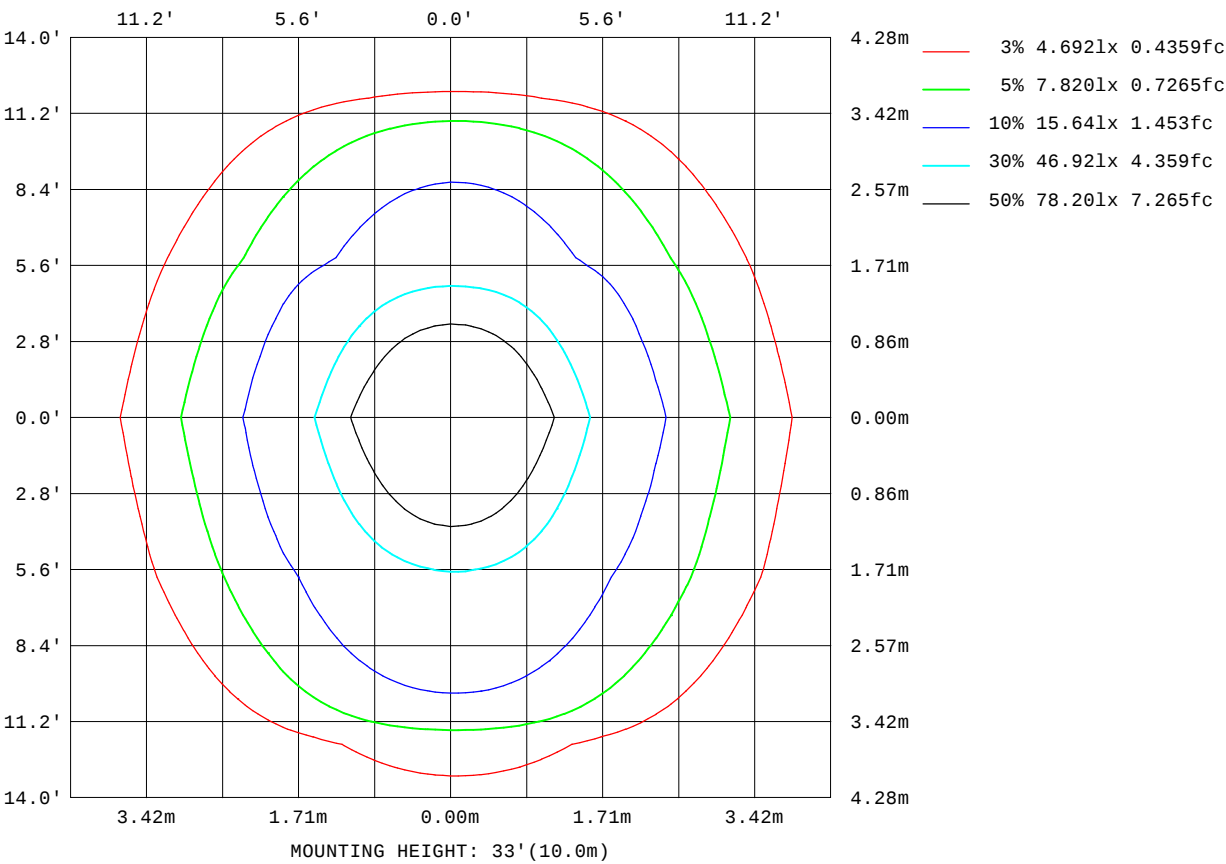


H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-07-30

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

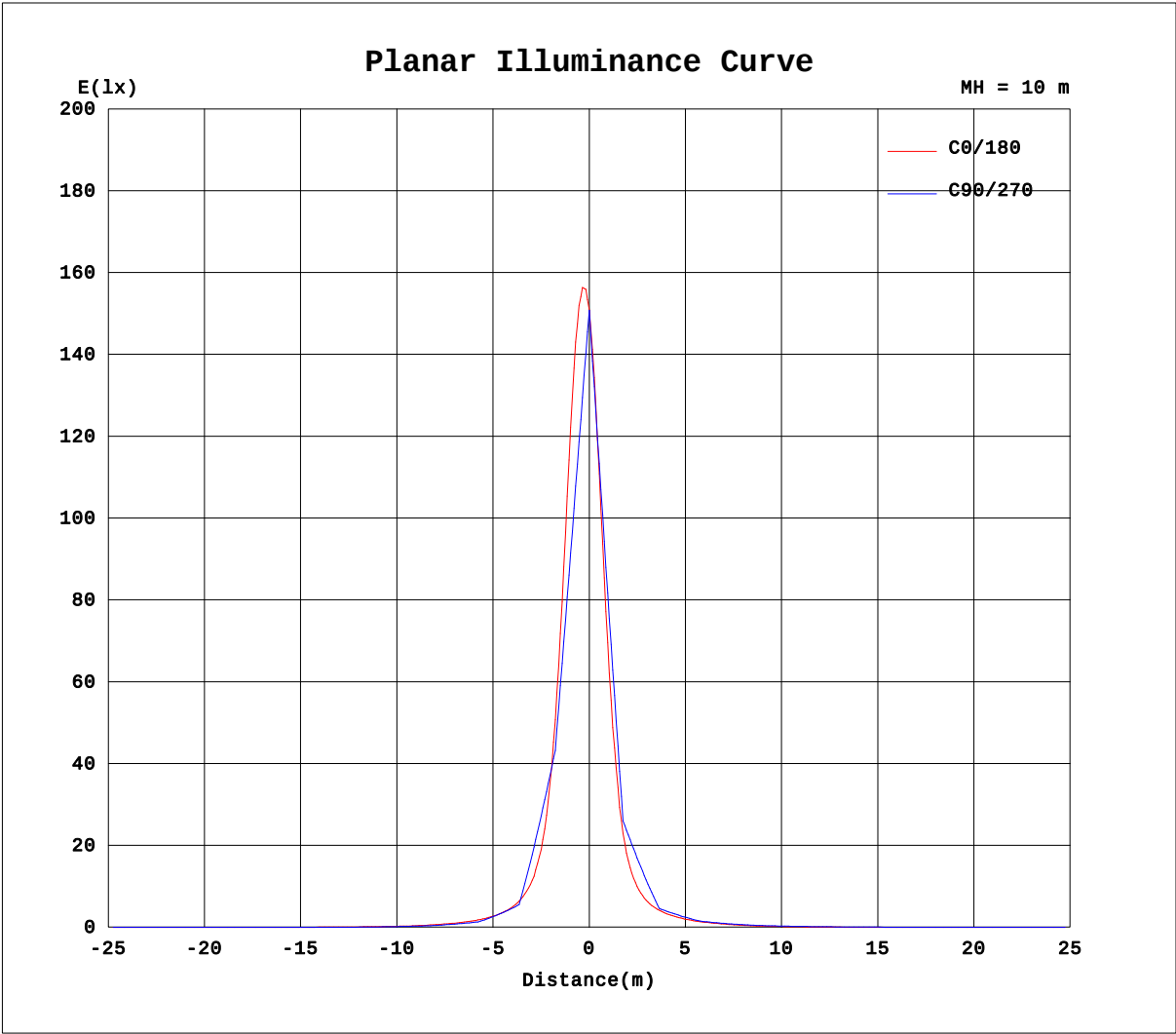
|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.8V I:0.3572A P:29.75W PF:0.6897 Freq:49.99Hz Lamp Flux:1561.99x1 lm |          |                       |
| NAME: 8.03.035.0004 10° SP-PZT-R135-6P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025070076 |
| 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:2025-07-30

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

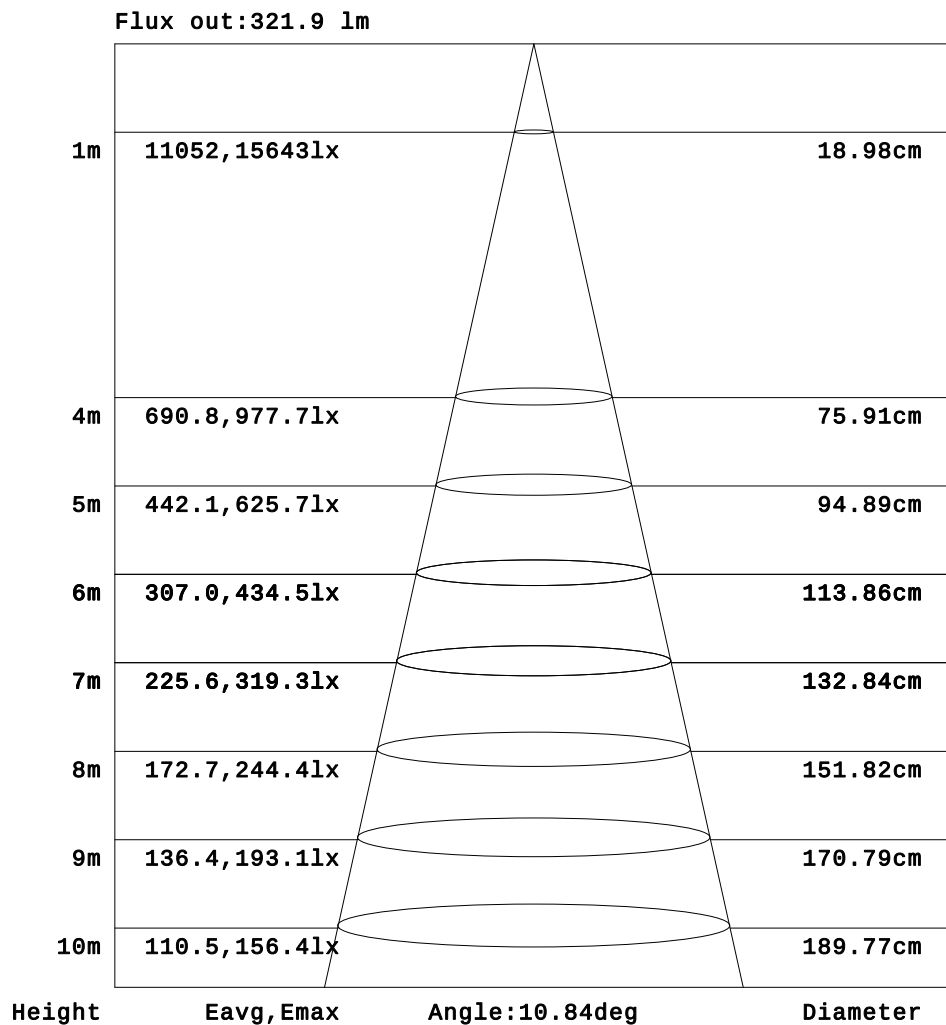


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2025-07-30

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:120.8V I:0.3572A P:29.75W PF:0.6897 Freq:49.99Hz Lamp Flux:1561.99x1 lm |          |                       |
| NAME: 8.03.035.0004 10° SP-PZT-R135-6P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025070076 |
| 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:2025-07-30

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:120.8V I:0.3572A P:29.75W PF:0.6897 Freq:49.99Hz Lamp Flux:1561.99x1 lm |          |                       |
| NAME: 8.03.035.0004 10° SP-PZT-R135-6P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025070076 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding 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 | 0.00 | 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 | 0.16 | 0.36 | 0.56 | 0.78 | 0.99 | 1.19 | 1.36 | 1.49 |
| -50         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.57 | 0.96 | 1.38 | 1.81 | 2.23 | 2.60 | 2.89 | 3.05 | 3.07 |
| -45         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.45 | 0.96 | 1.54 | 2.15 | 2.81 | 3.52 | 4.34 | 5.20 | 5.76 | 6.07 |
| -40         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.65 | 1.31 | 2.05 | 2.85 | 3.70 | 4.65 | 5.74 | 7.20 | 8.22 | 8.91 | 9.21 |
| -35         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.74 | 1.54 | 2.46 | 3.58 | 4.97 | 6.66 | 8.75 | 10.8 | 12.8 | 14.3 | 15.0 |
| -30         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.87 | 1.78 | 2.84 | 4.15 | 5.92 | 8.17 | 11.2 | 14.1 | 16.9 | 19.4 | 20.7 | 21.2 |
| -25         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.72 | 1.83 | 3.16 | 4.65 | 6.57 | 9.29 | 12.9 | 17.6 | 23.6 | 30.3 | 37.5 | 43.3 |
| -20         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.67 | 1.83 | 3.47 | 5.19 | 7.33 | 10.2 | 14.7 | 19.9 | 28.0 | 38.2 | 50.0 | 62.0 | 68.0 |
| -15         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 1.51 | 2.96 | 4.69 | 6.75 | 9.61 | 14.5 | 20.8 | 29.7 | 44.7 | 73.4 | 137  | 238  |
| -10         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 1.24 | 2.85 | 4.50 | 6.53 | 9.30 | 14.3 | 21.7 | 31.3 | 47.5 | 80.6 | 161  | 333  | 471  |
| -5          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 2.13 | 3.70 | 5.54 | 8.01 | 12.2 | 18.5 | 26.8 | 40.3 | 66.7 | 139  | 392  | 877  |
| 0           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 1.73 | 3.27 | 4.99 | 7.28 | 11.3 | 17.2 | 24.6 | 36.9 | 59.3 | 120  | 353  | 1028 | 1564 |
| 5           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 2.28 | 3.86 | 5.76 | 8.61 | 13.3 | 19.0 | 26.9 | 40.0 | 64.9 | 131  | 361  | 798  |
| 10          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 1.66 | 3.15 | 4.88 | 7.33 | 11.0 | 16.0 | 22.2 | 31.1 | 45.6 | 71.5 | 124  | 214  | 281  |
| 15          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.69 | 2.06 | 3.58 | 5.44 | 8.14 | 11.8 | 16.3 | 21.9 | 30.0 | 42.4 | 63.9 | 102  | 153  |
| 20          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 1.34 | 2.75 | 4.34 | 6.62 | 9.31 | 12.8 | 16.7 | 21.7 | 27.9 | 36.0 | 45.0 | 52.9 | 56.5 |
| 25          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 1.55 | 2.92 | 4.63 | 6.68 | 9.26 | 12.2 | 15.5 | 19.5 | 24.3 | 29.9 | 35.4 | 39.4 |
| 30          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.71 | 1.96 | 3.35 | 5.13 | 6.91 | 9.23 | 11.5 | 14.0 | 16.7 | 19.3 | 21.6 | 23.2 | 23.9 |
| 35          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.78 | 1.96 | 3.40 | 4.92 | 6.55 | 8.46 | 10.3 | 12.2 | 14.1 | 15.9 | 17.3 | 18.2 |
| 40          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.99 | 2.14 | 3.54 | 4.77 | 6.18 | 7.60 | 8.86 | 10.1 | 11.2 | 12.0 | 12.5 | 12.8 |
| 45          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.81 | 1.88 | 3.07 | 4.15 | 5.33 | 6.46 | 7.45 | 8.33 | 9.05 | 9.57 | 9.88 |
| 50          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.67 | 1.71 | 2.65 | 3.51 | 4.46 | 5.29 | 5.91 | 6.42 | 6.79 | 7.02 | 7.12 |
| 55          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.52 | 1.15 | 1.92 | 2.64 | 3.38 | 4.02 | 4.51 | 4.88 | 5.14 | 5.29 |
| 60          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 1.19 | 1.73 | 2.28 | 2.76 | 3.08 | 3.31 | 3.46 | 3.53 |
| 65          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.42 | 0.71 | 0.97 | 1.25 | 1.47 | 1.72 | 1.89 | 1.99 |
| 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 | 0.18 | 0.35 | 0.45 | 0.50 |
| 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 | 0.02 | 0.13 | 0.20 | 0.24 |
| 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:2025-07-30

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:

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|                                                                                |          |                       |
|--------------------------------------------------------------------------------|----------|-----------------------|
| Test:U:120.8V I:0.3572A P:29.75W PF:0.6897 Freq:49.99Hz Lamp Flux:1561.99x1 lm |          |                       |
| NAME: 8.03.035.0004 10° SP-PZT-R135-6P-RDM                                     | TYPE:LED | WEIGHT:               |
| SPEC.:                                                                         | DIM.:    | SERIAL No.:2025070076 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                                         | SUR.:    | Shielding 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         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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         | 1.55 | 1.54 | 1.46 | 1.33 | 1.16 | 0.96 | 0.74 | 0.52 | 0.32 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -50         | 3.10 | 3.00 | 2.78 | 2.47 | 2.09 | 1.65 | 1.21 | 0.80 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -45         | 6.15 | 5.98 | 5.55 | 4.78 | 3.95 | 3.25 | 2.57 | 1.93 | 1.31 | 0.69 | 0.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -40         | 9.06 | 8.49 | 7.51 | 6.03 | 4.98 | 4.03 | 3.15 | 2.31 | 1.52 | 0.82 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -35         | 15.3 | 15.0 | 13.7 | 11.8 | 9.65 | 7.50 | 5.69 | 4.20 | 2.95 | 1.93 | 1.07 | 0.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -30         | 21.3 | 20.2 | 17.8 | 14.9 | 11.8 | 8.65 | 6.40 | 4.53 | 3.10 | 1.99 | 1.03 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -25         | 44.4 | 40.3 | 33.4 | 26.4 | 19.7 | 14.4 | 10.3 | 7.35 | 5.23 | 3.61 | 2.22 | 1.02 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -20         | 63.6 | 52.5 | 40.4 | 29.8 | 20.9 | 15.1 | 10.4 | 7.51 | 5.31 | 3.55 | 1.88 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -15         | 260  | 166  | 90.1 | 54.0 | 34.7 | 23.3 | 16.0 | 10.6 | 7.45 | 5.21 | 3.39 | 1.84 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -10         | 352  | 176  | 90.5 | 52.8 | 33.8 | 22.3 | 14.5 | 9.59 | 6.74 | 4.64 | 2.94 | 1.28 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -5          | 968  | 508  | 184  | 83.9 | 47.8 | 30.2 | 20.3 | 13.3 | 8.76 | 6.07 | 4.11 | 2.47 | 0.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0           | 1075 | 375  | 131  | 64.8 | 38.5 | 25.1 | 17.3 | 11.0 | 7.31 | 5.03 | 3.28 | 1.68 | 0.12 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5           | 879  | 465  | 171  | 80.1 | 46.5 | 29.9 | 20.6 | 14.3 | 9.33 | 6.29 | 4.28 | 2.62 | 1.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10          | 227  | 135  | 78.4 | 48.8 | 32.3 | 22.5 | 16.1 | 11.0 | 7.37 | 5.00 | 3.26 | 1.69 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15          | 165  | 119  | 75.3 | 48.8 | 33.5 | 23.9 | 17.5 | 12.7 | 8.81 | 5.94 | 4.00 | 2.39 | 0.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20          | 53.7 | 46.1 | 36.9 | 28.7 | 22.2 | 17.1 | 13.0 | 9.29 | 6.62 | 4.39 | 2.77 | 1.31 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25          | 40.0 | 37.0 | 31.8 | 26.1 | 21.0 | 16.8 | 13.1 | 9.96 | 7.27 | 5.07 | 3.30 | 1.84 | 0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30          | 23.5 | 22.0 | 19.8 | 17.2 | 14.5 | 11.9 | 9.52 | 7.14 | 5.32 | 3.47 | 2.05 | 0.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35          | 18.3 | 17.8 | 16.6 | 14.9 | 13.0 | 11.0 | 9.11 | 7.11 | 5.42 | 3.77 | 2.29 | 1.06 | 0.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40          | 12.7 | 12.2 | 11.4 | 10.3 | 9.14 | 7.83 | 6.31 | 4.95 | 3.62 | 2.18 | 1.02 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45          | 9.96 | 9.79 | 9.39 | 8.73 | 7.89 | 6.90 | 5.74 | 4.56 | 3.45 | 2.17 | 1.08 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50          | 7.10 | 6.96 | 6.63 | 6.15 | 5.49 | 4.61 | 3.72 | 2.85 | 1.78 | 0.80 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55          | 5.33 | 5.27 | 5.09 | 4.77 | 4.28 | 3.66 | 2.95 | 2.24 | 1.43 | 0.67 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60          | 3.51 | 3.41 | 3.20 | 2.85 | 2.35 | 1.86 | 1.33 | 0.71 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65          | 2.01 | 1.97 | 1.84 | 1.62 | 1.33 | 1.08 | 0.83 | 0.55 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70          | 0.48 | 0.40 | 0.24 | 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 | 0.00 |
| 75          | 0.25 | 0.23 | 0.17 | 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 |
| 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:2025-07-30

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