

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

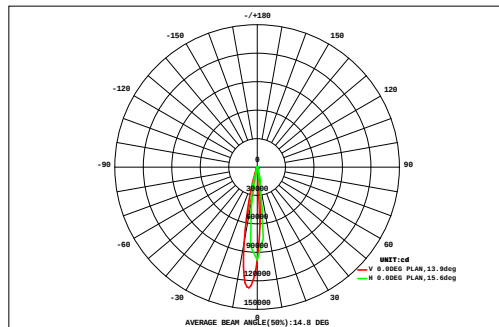
|                                                         |                |                                                                       |
|---------------------------------------------------------|----------------|-----------------------------------------------------------------------|
| Maximum Intensity<br>(Luminaire orientation as tested.) |                | 10558.2 cd per klm.<br>0.0 degrees vertical<br>0.0 degrees horizontal |
| Beam Spread                                             | At 10% of Imax | 32.5V x 27.6H                                                         |
|                                                         | At 50% of Imax | 12.0V x 13.9H                                                         |
|                                                         | At 90% of Imax | 3.9V x 5.6H                                                           |
| Beam Flux                                               | Total          | 982.9 lumens per klm.                                                 |
|                                                         | To 10% of Imax | 709.6 lumens per klm.                                                 |
|                                                         | To 50% of Imax | 310.2 lumens per klm.                                                 |
|                                                         | To 90% of Imax | 31.0 lumens per klm.                                                  |
| Upward LOR                                              |                | 0.0 %                                                                 |
| Downward LOR                                            |                | 98.3 %                                                                |
| 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:2024-09-18

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:220.6V I:0.8366A P:178.6W PF:0.9675 Lamp Flux:12071.5x1 lm |          |                       |
| NAME: 8.03.005.0164 30° SP-F310B-72P-RDM                          | TYPE:LED | WEIGHT:               |
| DIM.:                                                             | SPEC.:   | SERIAL No.:2024090096 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |



| DATA OF LAMP     |                  | Eff:67.59lm/W      |          |
|------------------|------------------|--------------------|----------|
| MODEL            | SP-F310B-72P-RDM | Imax(cd)           | 127453   |
| NOMINAL POWER(W) | 178              | AVAILABILITY(%)    | 76.2     |
| RATED VOLTAGE(V) | 220              | Avai. FLUX(lm)     | 9199     |
| NOMINAL FLUX(lm) | 12071.5          | LOR(%)             | 100.0    |
| LAMPS INSIDE     | 1                | TOTAL FLUX(lm)     | 12071    |
| TEST VOLTAGE(V)  | 220.6            | $\theta$ @50%(H,V) | 14,12DEG |

| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |                  |      |      |      |      |      |      |      | UNIT:lm |      |      |       | Φ t  | Φ a |
|----------------|-------------------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|------|---------|------|------|-------|------|-----|
|                | 1.72              | 2.24 | 2.77 | 3.28 | 3.71 | 4.02 | 4.26 | 4.44             | 4.36 | 4.14 | 3.97 | 3.67 | 3.13 | 2.51 | 2.04 | 1.68    | 1.39 | 1.14 | 54.5  | 0.00 |     |
|                | 1.98              | 2.63 | 3.44 | 4.46 | 5.39 | 6.12 | 6.75 | 7.19             | 7.43 | 7.25 | 6.72 | 6.19 | 5.57 | 4.68 | 3.64 | 2.86    | 2.21 | 1.66 | 86.2  | 0.00 |     |
|                | 3.02              | 3.96 | 5.14 | 6.34 | 7.31 | 8.15 | 8.80 | 9.11             | 9.02 | 8.53 | 7.79 | 6.93 | 5.88 | 4.70 | 3.66 | 2.80    | 2.06 | 1.49 | 105   | 0.00 |     |
|                | 4.16              | 5.42 | 6.98 | 8.34 | 9.32 | 10.3 | 10.9 | 11.1             | 10.6 | 9.74 | 8.78 | 7.57 | 6.06 | 4.58 | 3.57 | 2.65    | 1.83 | 1.26 | 123   | 0.00 |     |
|                | 3.55              | 4.93 | 6.55 | 9.26 | 14.2 | 22.6 | 33.8 | 44.0             | 48.5 | 44.8 | 34.7 | 23.8 | 15.3 | 10.4 | 7.38 | 5.54    | 4.10 | 2.88 | 336   | 164  |     |
|                | 4.59              | 6.32 | 8.72 | 13.3 | 22.1 | 35.6 | 51.0 | 62.7             | 64.7 | 56.0 | 41.1 | 26.9 | 17.0 | 11.5 | 8.16 | 6.06    | 4.42 | 3.05 | 443   | 294  |     |
|                | 7.41              | 9.86 | 14.3 | 23.3 | 39.9 | 61.5 | 80.1 | 86.4             | 76.3 | 55.2 | 34.4 | 19.8 | 12.6 | 8.80 | 6.62 | 4.75    | 3.22 | 2.07 | 547   | 410  |     |
|                | 6.08              | 8.37 | 12.3 | 20.8 | 40.5 | 74.5 | 124  | 171              | 188  | 164  | 112  | 63.1 | 32.7 | 16.8 | 10.1 | 6.83    | 4.80 | 3.27 | 1060  | 947  |     |
|                | 4.39              | 6.44 | 9.70 | 17.3 | 39.9 | 87.1 | 170  | 264              | 312  | 286  | 200  | 112  | 55.4 | 25.8 | 13.9 | 9.17    | 6.60 | 4.65 | 1625  | 1521 |     |
|                | 8.70              | 14.0 | 27.1 | 63.4 | 131  | 242  | 356  | 398              | 344  | 221  | 112  | 51.2 | 21.6 | 11.5 | 7.67 | 5.53    | 3.80 | 2.43 | 2022  | 1928 |     |
|                | 8.39              | 13.4 | 25.6 | 59.2 | 123  | 227  | 338  | 384              | 340  | 226  | 120  | 57.1 | 25.0 | 12.8 | 8.16 | 5.78    | 4.00 | 2.59 | 1979  | 1880 |     |
|                | 3.95              | 4.87 | 4.89 | 3.69 | 7.94 | 19.6 | 58.5 | 133              | 195  | 210  | 164  | 97.5 | 50.9 | 23.8 | 12.8 | 8.32    | 6.04 | 4.24 | 1008  | 915  |     |
|                | 5.50              | 7.34 | 10.2 | 17.8 | 32.0 | 50.0 | 66.4 | 92.8             | 110  | 108  | 80.8 | 48.2 | 26.1 | 14.0 | 8.66 | 6.05    | 4.26 | 2.91 | 691   | 586  |     |
|                | 7.45              | 10.5 | 16.4 | 29.9 | 51.6 | 73.4 | 79.4 | 58.6             | 23.4 | 6.14 | 1.49 | 0.54 | 0.77 | 2.51 | 3.82 | 3.36    | 2.16 | 1.33 | 373   | 287  |     |
|                | 2.94              | 3.93 | 4.99 | 5.81 | 7.60 | 13.6 | 24.7 | 39.7             | 52.2 | 53.1 | 44.4 | 30.7 | 18.8 | 11.2 | 7.31 | 5.21    | 3.94 | 2.79 | 333   | 197  |     |
|                | 2.20              | 2.83 | 2.97 | 2.46 | 2.59 | 2.67 | 2.99 | 8.84             | 22.2 | 29.5 | 29.2 | 22.6 | 15.0 | 9.26 | 6.07 | 4.35    | 3.35 | 2.42 | 172   | 71.6 |     |
|                | 3.39              | 4.54 | 5.61 | 5.85 | 4.53 | 1.81 | 0.43 | 0.00             | 0.00 | 0.00 | 0.00 | 0.25 | 1.11 | 1.91 | 1.85 | 1.54    | 1.07 | 0.83 | 34.7  | 0.00 |     |
|                | 2.21              | 2.89 | 3.66 | 4.03 | 3.43 | 3.34 | 3.79 | 4.28             | 4.54 | 4.49 | 4.15 | 3.66 | 3.20 | 2.81 | 2.40 | 1.88    | 1.44 | 1.12 | 57.3  | 0.00 |     |
| -27            | -24               | -21  | -18  | -15  | -12  | -9   | -6   | HORIZONTAL (DEG) |      |      |      | 6    | 9    | 12   | 15   | 18      | 21   | 24   | 27    |      |     |
| Φ t            | 81.6              | 114  | 171  | 299  | 546  | 943  | 1420 | 1780             | 1813 | 1494 | 1005 | 582  | 316  | 180  | 118  | 84.4    | 60.7 | 42.1 | 11049 | ---  |     |
| Φ a            | 0.00              | 0.00 | 21.7 | 129  | 432  | 842  | 1340 | 1719             | 1755 | 1452 | 915  | 427  | 161  | 3.89 | 0.00 | 0.00    | 0.00 | 0.00 | ---   | 9199 |     |

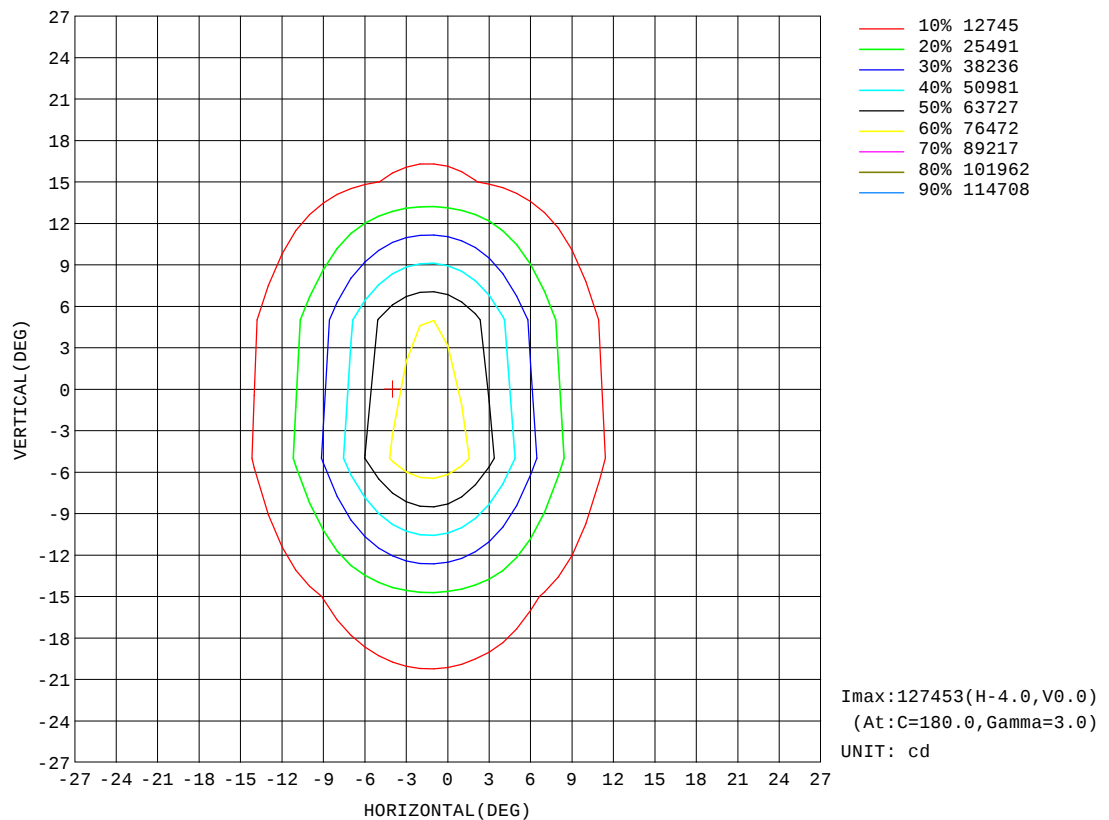
one-half-peak spread: U:6.6,D:5.5 , L:7.4,R:6.6EMA Beam Type: Type 2 x 3 (H x V)

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-09-18

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

## ISOCANDELA DIAGRAM

|                                                                   |          |                       |
|-------------------------------------------------------------------|----------|-----------------------|
| Test:U:220.6V I:0.8366A P:178.6W PF:0.9675 Lamp Flux:12071.5x1 lm |          |                       |
| NAME: 8.03.005.0164 30° SP-F310B-72P-RDM                          | TYPE:LED | WEIGHT:               |
| DIM.:                                                             | SPEC.:   | SERIAL No.:2024090096 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |

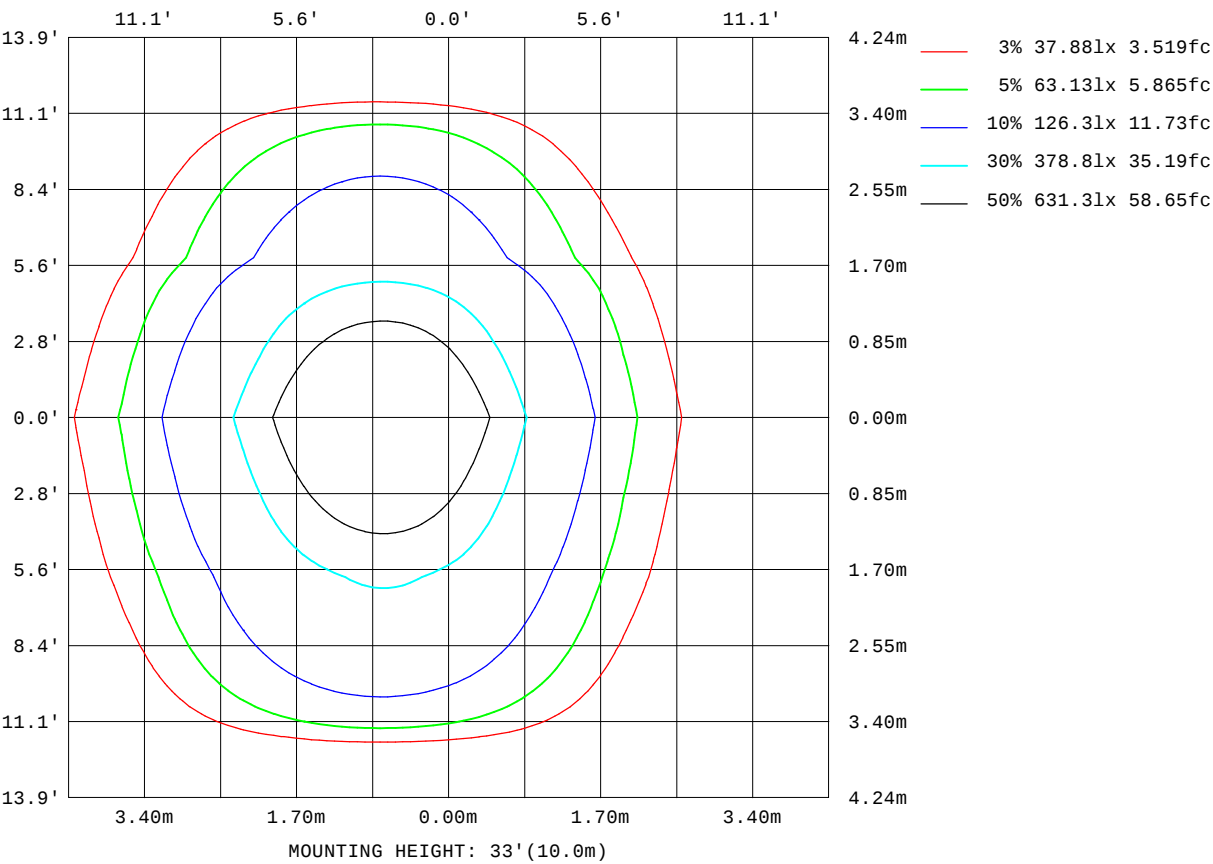


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
Operators:QC1  
Test Date:2024-09-18

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

|                                                                   |          |                       |
|-------------------------------------------------------------------|----------|-----------------------|
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| NAME: 8.03.005.0164 30° SP-F310B-72P-RDM                          | TYPE:LED | WEIGHT:               |
| DIM.:                                                             | SPEC.:   | SERIAL No.:2024090096 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |

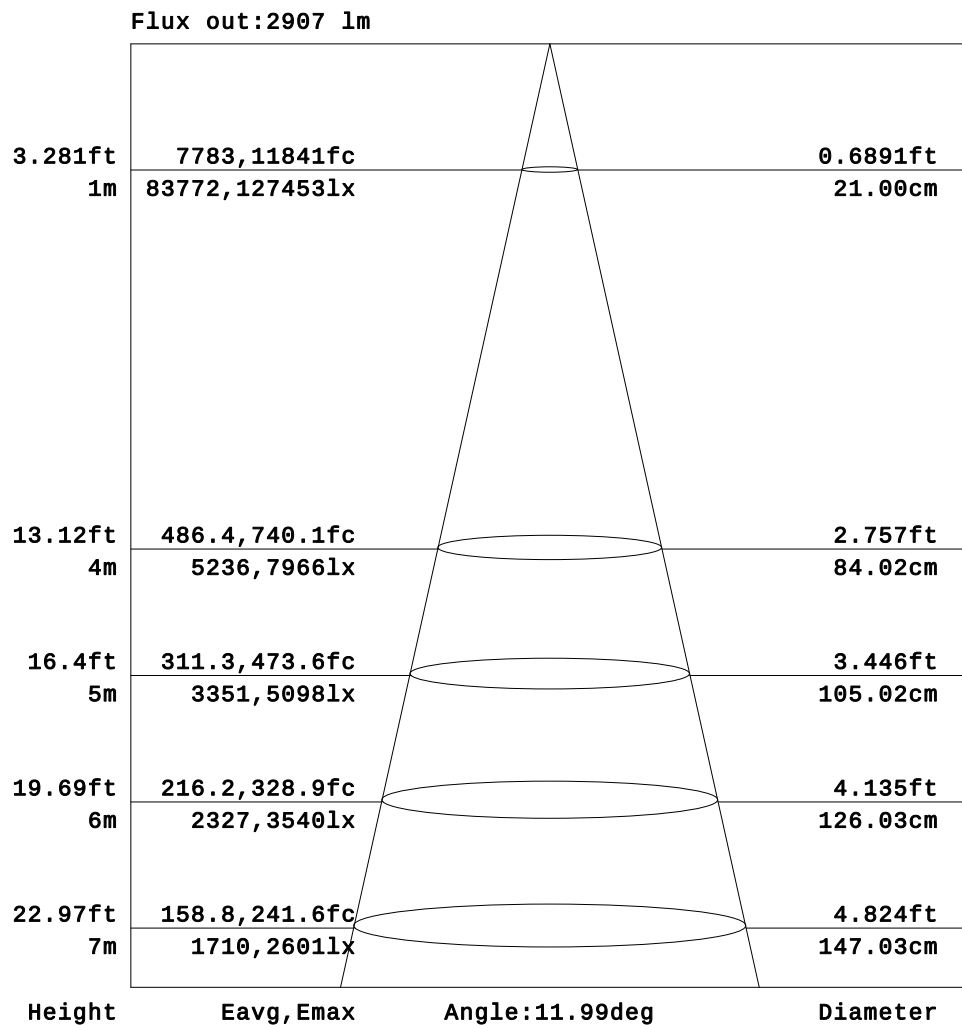


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:28.0DEG  
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Test Date:2024-09-18

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

|                                                                   |          |                       |
|-------------------------------------------------------------------|----------|-----------------------|
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| DIM.:                                                             | SPEC.:   | SERIAL No.:2024090096 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |

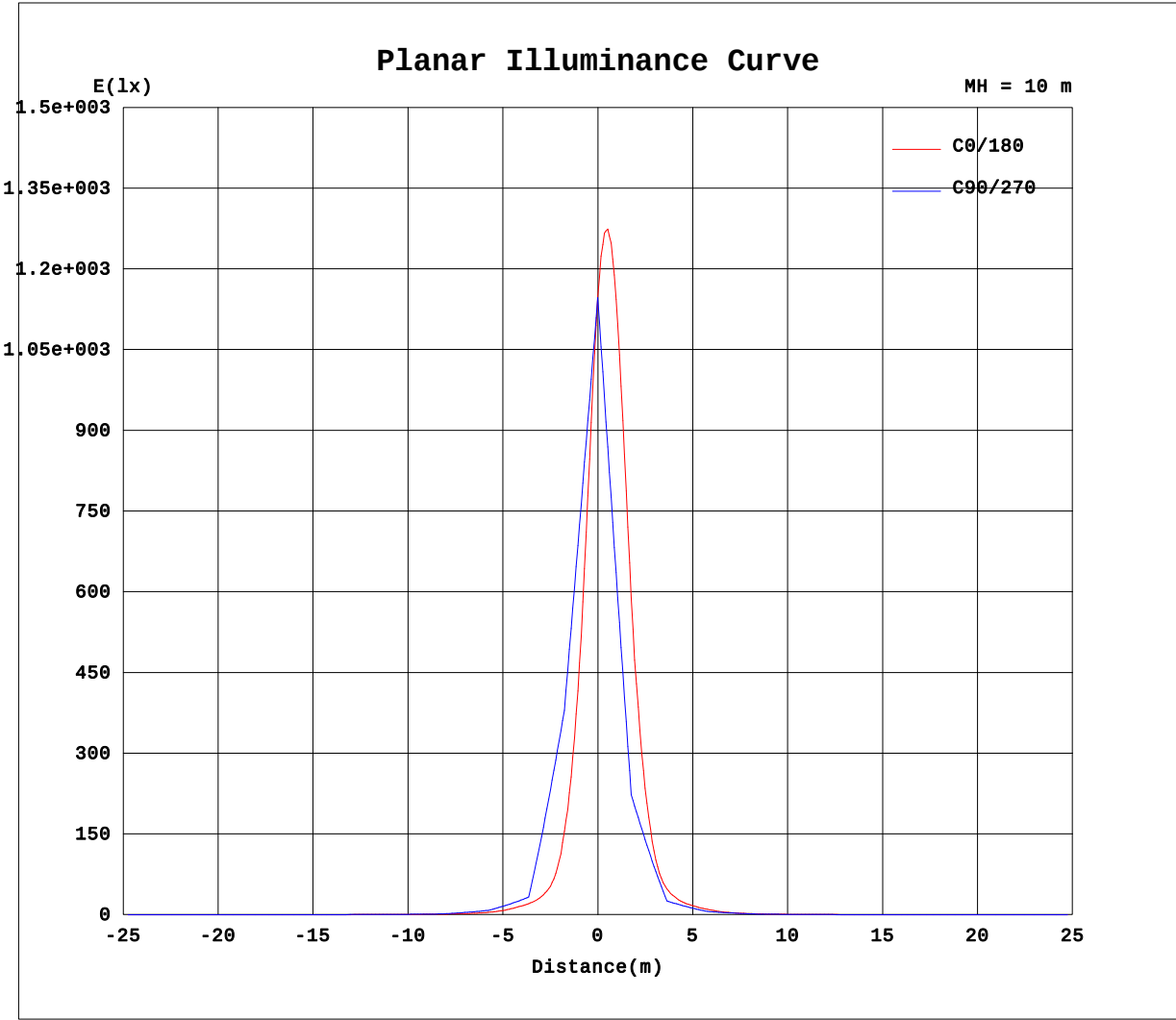


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
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V(B) Interval: 5.0DEG  
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Humidity:83%  
Test Distance:8.300m [K=1.0000]  
Remarks:

Planar Illuminance Curve



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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:220.6V I:0.8366A P:178.6W PF:0.9675 Lamp Flux:12071.5x1 lm |          |                       |
| NAME: 8.03.005.0164 30° SP-F310B-72P-RDM                          | TYPE:LED | WEIGHT:               |
| DIM.:                                                             | SPEC.:   | SERIAL No.:2024090096 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |

Table--1

UNIT: ×100cd

| 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 | 0.01 | 0.04 | 0.09 | 0.13 | 0.16 | 0.19 | 0.23 | 0.25 | 0.30 | 0.32 | 0.33 | 0.32 | 0.32 |
| -70         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.14 | 0.22 | 0.30 | 0.36 | 0.43 | 0.48 | 0.57 | 0.63 | 0.66 | 0.65 | 0.64 | 0.63 |
| -65         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.15 | 0.27 | 0.40 | 0.55 | 0.69 | 0.80 | 0.96 | 1.09 | 1.24 | 1.35 | 1.41 | 1.43 | 1.45 |
| -60         | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.21 | 0.38 | 0.56 | 0.76 | 0.97 | 1.15 | 1.36 | 1.60 | 1.80 | 1.99 | 2.13 | 2.20 | 2.27 | 2.25 |
| -55         | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.24 | 0.45 | 0.70 | 0.96 | 1.24 | 1.50 | 1.76 | 1.97 | 2.12 | 2.24 | 2.35 | 2.41 | 2.43 | 2.45 |
| -50         | 0.00 | 0.00 | 0.00 | 0.06 | 0.26 | 0.51 | 0.80 | 1.15 | 1.50 | 1.81 | 2.17 | 2.42 | 2.52 | 2.60 | 2.61 | 2.66 | 2.64 | 2.63 | 2.62 |
| -45         | 0.00 | 0.00 | 0.00 | 0.03 | 0.21 | 0.50 | 0.83 | 1.23 | 1.63 | 1.96 | 2.21 | 2.44 | 2.66 | 2.88 | 3.06 | 3.22 | 3.31 | 3.27 | 3.22 |
| -40         | 0.00 | 0.00 | 0.00 | 0.18 | 0.48 | 0.86 | 1.34 | 1.80 | 2.17 | 2.42 | 2.54 | 2.73 | 3.09 | 3.39 | 3.67 | 3.96 | 3.96 | 3.82 | 3.82 |
| -35         | 0.00 | 0.00 | 0.00 | 0.10 | 0.36 | 0.76 | 1.25 | 1.77 | 2.14 | 2.37 | 2.61 | 2.93 | 3.40 | 4.21 | 5.48 | 6.80 | 7.57 | 8.28 | 8.54 |
| -30         | 0.00 | 0.00 | 0.05 | 0.31 | 0.69 | 1.22 | 1.81 | 2.24 | 2.41 | 2.58 | 3.02 | 3.62 | 4.67 | 6.39 | 9.01 | 10.6 | 12.0 | 13.2 | 12.6 |
| -25         | 0.00 | 0.00 | 0.00 | 0.16 | 0.51 | 1.01 | 1.62 | 2.13 | 2.33 | 2.55 | 3.01 | 3.81 | 5.47 | 8.31 | 12.6 | 17.8 | 22.0 | 26.1 | 27.2 |
| -20         | 0.00 | 0.00 | 0.09 | 0.41 | 0.89 | 1.52 | 2.11 | 2.30 | 2.47 | 3.00 | 3.83 | 5.58 | 9.49 | 14.9 | 22.9 | 30.0 | 37.1 | 41.5 | 38.5 |
| -15         | 0.00 | 0.00 | 0.00 | 0.22 | 0.64 | 1.21 | 1.87 | 2.27 | 2.35 | 2.77 | 3.52 | 5.10 | 9.12 | 16.0 | 26.1 | 49.0 | 112  | 204  | 234  |
| -10         | 0.00 | 0.00 | 0.11 | 0.49 | 1.02 | 1.69 | 2.24 | 2.31 | 2.66 | 3.30 | 4.74 | 8.59 | 16.4 | 27.8 | 51.1 | 131  | 299  | 432  | 354  |
| -5          | 0.00 | 0.00 | 0.00 | 0.26 | 0.71 | 1.31 | 1.99 | 2.29 | 2.39 | 2.92 | 3.88 | 6.17 | 12.1 | 22.4 | 40.0 | 104  | 324  | 714  | 837  |
| 0           | 0.00 | 0.00 | 0.14 | 0.55 | 1.08 | 1.75 | 2.24 | 2.30 | 2.70 | 3.45 | 5.15 | 9.70 | 19.4 | 33.9 | 80.2 | 292  | 814  | 1268 | 980  |
| 5           | 0.00 | 0.00 | 0.00 | 0.28 | 0.71 | 1.31 | 1.98 | 2.29 | 2.40 | 2.89 | 3.83 | 6.02 | 11.7 | 21.7 | 38.2 | 95.4 | 291  | 642  | 748  |
| 10          | 0.00 | 0.00 | 0.14 | 0.51 | 1.02 | 1.69 | 2.23 | 2.32 | 2.63 | 3.24 | 4.59 | 7.95 | 15.2 | 25.8 | 42.3 | 90.2 | 186  | 254  | 209  |
| 15          | 0.00 | 0.00 | 0.00 | 0.25 | 0.66 | 1.21 | 1.87 | 2.26 | 2.35 | 2.71 | 3.37 | 4.79 | 8.19 | 14.8 | 23.2 | 39.0 | 76.3 | 127  | 141  |
| 20          | 0.00 | 0.00 | 0.11 | 0.45 | 0.92 | 1.53 | 2.08 | 2.29 | 2.43 | 2.85 | 3.60 | 5.01 | 8.32 | 13.4 | 19.9 | 26.1 | 30.3 | 32.5 | 30.6 |
| 25          | 0.00 | 0.00 | 0.00 | 0.19 | 0.56 | 1.04 | 1.62 | 2.09 | 2.29 | 2.48 | 2.85 | 3.53 | 4.85 | 7.45 | 11.1 | 15.5 | 18.7 | 20.9 | 21.2 |
| 30          | 0.00 | 0.00 | 0.06 | 0.35 | 0.74 | 1.25 | 1.78 | 2.18 | 2.35 | 2.49 | 2.85 | 3.36 | 4.24 | 5.62 | 7.65 | 9.16 | 9.98 | 10.5 | 9.81 |
| 35          | 0.00 | 0.00 | 0.00 | 0.12 | 0.42 | 0.81 | 1.27 | 1.74 | 2.08 | 2.29 | 2.50 | 2.74 | 3.17 | 3.80 | 4.80 | 5.87 | 6.54 | 6.84 | 6.91 |
| 40          | 0.00 | 0.00 | 0.02 | 0.23 | 0.54 | 0.90 | 1.34 | 1.75 | 2.07 | 2.33 | 2.42 | 2.59 | 2.85 | 3.08 | 3.33 | 3.46 | 3.53 | 3.50 | 3.50 |
| 45          | 0.00 | 0.00 | 0.00 | 0.05 | 0.25 | 0.54 | 0.87 | 1.24 | 1.58 | 1.88 | 2.11 | 2.30 | 2.50 | 2.68 | 2.82 | 2.93 | 2.97 | 2.96 | 2.94 |
| 50          | 0.00 | 0.00 | 0.00 | 0.09 | 0.31 | 0.56 | 0.83 | 1.14 | 1.46 | 1.73 | 2.02 | 2.26 | 2.37 | 2.44 | 2.48 | 2.46 | 2.42 | 2.39 | 2.39 |
| 55          | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.27 | 0.48 | 0.72 | 0.96 | 1.21 | 1.42 | 1.65 | 1.85 | 1.99 | 2.09 | 2.14 | 2.17 | 2.18 | 2.16 |
| 60          | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.24 | 0.40 | 0.58 | 0.76 | 0.95 | 1.10 | 1.28 | 1.50 | 1.66 | 1.78 | 1.86 | 1.94 | 1.95 | 1.89 |
| 65          | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.17 | 0.29 | 0.42 | 0.55 | 0.67 | 0.77 | 0.92 | 1.03 | 1.13 | 1.20 | 1.25 | 1.27 | 1.25 |
| 70          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.16 | 0.23 | 0.30 | 0.36 | 0.42 | 0.47 | 0.54 | 0.58 | 0.60 | 0.59 | 0.58 | 0.55 |
| 75          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.09 | 0.13 | 0.16 | 0.19 | 0.22 | 0.24 | 0.28 | 0.30 | 0.30 | 0.29 | 0.28 |
| 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( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:28.0DEG  
 Operators:QC1  
 Test Date:2024-09-18

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:220.6V I:0.8366A P:178.6W PF:0.9675 Lamp Flux:12071.5x1 lm |          |                       |
| NAME: 8.03.005.0164 30° SP-F310B-72P-RDM                          | TYPE:LED | WEIGHT:               |
| DIM.:                                                             | SPEC.:   | SERIAL No.:2024090096 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |

|                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |              |      |  |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------|------|--|
| Table--2         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNIT: ×100cd |      |  |
| 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              | 0.31 | 0.29 | 0.27 | 0.25 | 0.20 | 0.16 | 0.13 | 0.09 | 0.06 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| -70              | 0.60 | 0.57 | 0.52 | 0.44 | 0.35 | 0.28 | 0.21 | 0.14 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| -65              | 1.41 | 1.31 | 1.22 | 1.10 | 0.96 | 0.81 | 0.64 | 0.49 | 0.36 | 0.23 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| -60              | 2.12 | 1.95 | 1.78 | 1.59 | 1.38 | 1.13 | 0.89 | 0.69 | 0.49 | 0.32 | 0.17 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| -55              | 2.41 | 2.34 | 2.29 | 2.20 | 2.05 | 1.87 | 1.60 | 1.30 | 1.01 | 0.73 | 0.48 | 0.27 | 0.10 | 0.01 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| -50              | 2.63 | 2.68 | 2.70 | 2.64 | 2.53 | 2.30 | 1.95 | 1.57 | 1.18 | 0.82 | 0.53 | 0.28 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| -45              | 3.22 | 3.17 | 3.08 | 2.97 | 2.79 | 2.63 | 2.46 | 2.22 | 1.84 | 1.42 | 0.97 | 0.61 | 0.32 | 0.09 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| -40              | 3.77 | 3.56 | 3.33 | 3.08 | 2.87 | 2.76 | 2.70 | 2.45 | 1.99 | 1.46 | 0.96 | 0.57 | 0.26 | 0.04 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| -35              | 7.85 | 6.86 | 6.01 | 4.57 | 3.69 | 3.18 | 2.87 | 2.67 | 2.44 | 2.08 | 1.54 | 0.99 | 0.56 | 0.22 | 0.02 | 0.00 | 0.00         | 0.00 |  |
| -30              | 10.7 | 9.30 | 6.89 | 4.89 | 3.85 | 3.15 | 2.78 | 2.65 | 2.50 | 2.06 | 1.45 | 0.87 | 0.43 | 0.13 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| -25              | 23.8 | 19.1 | 14.7 | 9.57 | 6.36 | 4.32 | 3.35 | 2.84 | 2.62 | 2.45 | 2.03 | 1.35 | 0.77 | 0.35 | 0.07 | 0.00 | 0.00         | 0.00 |  |
| -20              | 31.2 | 24.0 | 15.9 | 10.2 | 6.12 | 4.16 | 3.21 | 2.72 | 2.57 | 2.42 | 1.82 | 1.09 | 0.57 | 0.19 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| -15              | 159  | 73.4 | 33.1 | 19.2 | 11.5 | 6.42 | 4.22 | 3.16 | 2.66 | 2.51 | 2.29 | 1.60 | 0.92 | 0.44 | 0.11 | 0.00 | 0.00         | 0.00 |  |
| -10              | 175  | 63.8 | 30.4 | 18.6 | 10.0 | 5.58 | 3.84 | 2.91 | 2.51 | 2.46 | 2.01 | 1.24 | 0.67 | 0.25 | 0.01 | 0.00 | 0.00         | 0.00 |  |
| -5               | 499  | 176  | 55.5 | 27.6 | 16.1 | 8.37 | 4.91 | 3.43 | 2.75 | 2.47 | 2.37 | 1.72 | 1.00 | 0.49 | 0.12 | 0.00 | 0.00         | 0.00 |  |
| 0                | 380  | 107  | 39.2 | 21.8 | 11.7 | 6.14 | 4.16 | 3.04 | 2.54 | 2.47 | 2.05 | 1.28 | 0.69 | 0.26 | 0.01 | 0.00 | 0.00         | 0.00 |  |
| 5                | 442  | 157  | 52.5 | 27.0 | 15.7 | 8.19 | 4.81 | 3.43 | 2.73 | 2.47 | 2.33 | 1.69 | 0.98 | 0.47 | 0.12 | 0.00 | 0.00         | 0.00 |  |
| 10               | 110  | 50.4 | 28.7 | 17.5 | 9.59 | 5.26 | 3.76 | 2.90 | 2.48 | 2.42 | 1.93 | 1.20 | 0.64 | 0.23 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| 15               | 98.6 | 51.7 | 28.5 | 17.9 | 10.8 | 6.03 | 4.10 | 3.14 | 2.60 | 2.46 | 2.17 | 1.52 | 0.87 | 0.40 | 0.09 | 0.00 | 0.00         | 0.00 |  |
| 20               | 26.5 | 20.7 | 14.0 | 9.29 | 5.61 | 3.97 | 3.23 | 2.64 | 2.50 | 2.26 | 1.69 | 1.01 | 0.52 | 0.16 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| 25               | 19.3 | 16.7 | 12.4 | 8.65 | 5.94 | 4.12 | 3.28 | 2.77 | 2.50 | 2.29 | 1.85 | 1.24 | 0.70 | 0.30 | 0.04 | 0.00 | 0.00         | 0.00 |  |
| 30               | 9.27 | 7.86 | 5.74 | 4.63 | 3.82 | 3.12 | 2.67 | 2.50 | 2.28 | 1.85 | 1.29 | 0.78 | 0.37 | 0.09 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| 35               | 6.47 | 6.21 | 5.13 | 4.20 | 3.56 | 3.09 | 2.71 | 2.48 | 2.22 | 1.83 | 1.36 | 0.87 | 0.48 | 0.17 | 0.01 | 0.00 | 0.00         | 0.00 |  |
| 40               | 3.49 | 3.41 | 3.23 | 2.97 | 2.72 | 2.56 | 2.47 | 2.15 | 1.72 | 1.26 | 0.82 | 0.47 | 0.18 | 0.01 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| 45               | 2.95 | 2.95 | 2.91 | 2.79 | 2.60 | 2.40 | 2.18 | 1.92 | 1.58 | 1.19 | 0.82 | 0.49 | 0.23 | 0.05 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| 50               | 2.41 | 2.48 | 2.46 | 2.37 | 2.24 | 1.97 | 1.61 | 1.30 | 0.98 | 0.67 | 0.42 | 0.19 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| 55               | 2.12 | 2.10 | 2.06 | 1.95 | 1.81 | 1.61 | 1.33 | 1.07 | 0.83 | 0.58 | 0.36 | 0.17 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| 60               | 1.79 | 1.70 | 1.54 | 1.35 | 1.16 | 0.91 | 0.73 | 0.55 | 0.38 | 0.22 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| 65               | 1.19 | 1.13 | 1.05 | 0.93 | 0.79 | 0.65 | 0.50 | 0.38 | 0.26 | 0.16 | 0.08 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| 70               | 0.52 | 0.48 | 0.43 | 0.34 | 0.26 | 0.20 | 0.13 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00 |  |
| 75               | 0.27 | 0.25 | 0.23 | 0.20 | 0.15 | 0.12 | 0.09 | 0.05 | 0.02 | 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:2024-09-18

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: