

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|                                    |                        |
|------------------------------------|------------------------|
| Maximum Intensity                  | 3436.3 cd per klm.     |
| (Luminaire orientation as tested.) | 0.0 degrees vertical   |
|                                    | 0.0 degrees horizontal |

|             |                |               |
|-------------|----------------|---------------|
| Beam Spread | At 10% of Imax | 51.9V x 49.6H |
|             | At 50% of Imax | 24.3V x 23.2H |
|             | At 90% of Imax | 7.4V x 8.6H   |

|           |                |                       |
|-----------|----------------|-----------------------|
| Beam Flux | Total          | 999.7 lumens per klm. |
|           | To 10% of Imax | 717.2 lumens per klm. |
|           | To 50% of Imax | 345.5 lumens per klm. |
|           | To 90% of Imax | 55.1 lumens per klm.  |

|              |         |
|--------------|---------|
| Upward LOR   | 0.0 %   |
| Downward LOR | 100.0 % |

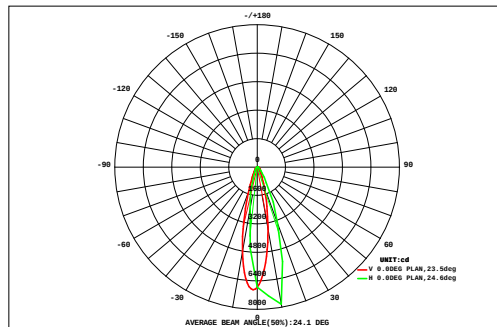
|                                          |         |
|------------------------------------------|---------|
| Luminaire Efficiency(Light Output Ratio) | 100.0 % |
|------------------------------------------|---------|

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:27.1DEG  
Operators:QC1  
Test Date:2023-12-29

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:61%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|                                                                   |          |                       |
|-------------------------------------------------------------------|----------|-----------------------|
| Test:U:276.9V I:0.2638A P:44.27W PF:0.6061 Lamp Flux:2291.38x1 lm |          |                       |
| NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W                   | TYPE:LED | WEIGHT:               |
| DIM.:                                                             | SPEC.:   | SERIAL No.:2023120063 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |



| DATA OF LAMP     |                     | Eff:51.76lm/W   |          |
|------------------|---------------------|-----------------|----------|
| MODEL            | DKP-F170-24P-RDM-AL | Imax(cd)        | 7874     |
| NOMINAL POWER(W) | 44                  | AVAILABILITY(%) | 72.9     |
| RATED VOLTAGE(V) | 276                 | Avai. FLUX(lm)  | 1670     |
| NOMINAL FLUX(lm) | 2291.38             | LOR(%)          | 100.0    |
| LAMPS INSIDE     | 1                   | TOTAL FLUX(lm)  | 2291     |
| TEST VOLTAGE(V)  | 276.9               | θ @50%(H,V)     | 23,24DEG |

| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                   |      |      |      |      |      |      |      | UNIT:lm |      | Φ t  | Φ a  |
|----------------|-------------------|------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|------|---------|------|------|------|
|                | 0.52              | 0.68 | 0.89 | 1.12 | 1.39 | 1.70 | 2.05 | 2.37 | 2.62              | 2.74 | 2.69 | 2.49 | 2.19 | 1.86 | 1.54 | 1.26 | 1.01    | 0.79 | 29.9 | 0.00 |
| 45             | 0.73              | 0.97 | 1.25 | 1.58 | 1.98 | 2.44 | 2.91 | 3.29 | 3.51              | 3.49 | 3.25 | 2.85 | 2.39 | 1.95 | 1.56 | 1.24 | 0.97    | 0.73 | 37.1 | 0.00 |
| 40             | 0.65              | 0.90 | 1.20 | 1.61 | 2.18 | 2.97 | 4.04 | 5.24 | 6.24              | 6.69 | 6.37 | 5.48 | 4.38 | 3.35 | 2.50 | 1.85 | 1.38    | 1.03 | 58.1 | 16.9 |
| 35             | 0.94              | 1.29 | 1.77 | 2.45 | 3.45 | 4.86 | 6.56 | 8.17 | 9.07              | 8.84 | 7.64 | 6.02 | 4.47 | 3.25 | 2.34 | 1.67 | 1.22    | 0.90 | 74.9 | 43.7 |
| 30             | 0.77              | 1.08 | 1.52 | 2.22 | 3.40 | 5.57 | 9.33 | 14.5 | 19.3              | 21.1 | 18.8 | 14.1 | 9.45 | 6.11 | 3.97 | 2.65 | 1.81    | 1.27 | 137  | 114  |
| 25             | 1.12              | 1.60 | 2.39 | 3.76 | 6.37 | 11.1 | 18.5 | 26.1 | 30.1              | 27.9 | 20.9 | 13.5 | 8.25 | 5.06 | 3.22 | 2.14 | 1.46    | 1.03 | 185  | 163  |
| 20             | 0.84              | 1.19 | 1.71 | 2.60 | 4.36 | 8.45 | 17.2 | 30.8 | 45.0              | 51.5 | 44.4 | 29.9 | 17.2 | 9.55 | 5.49 | 3.36 | 2.17    | 1.44 | 277  | 257  |
| 15             | 1.21              | 1.78 | 2.76 | 4.77 | 9.38 | 19.9 | 37.5 | 57.2 | 68.8              | 61.8 | 41.3 | 22.6 | 11.6 | 6.27 | 3.70 | 2.36 | 1.56    | 1.08 | 355  | 336  |
| 10             | 0.84              | 1.17 | 1.66 | 2.43 | 3.87 | 7.13 | 15.5 | 30.6 | 47.1              | 55.5 | 49.0 | 33.4 | 18.8 | 10.1 | 5.65 | 3.40 | 2.19    | 1.46 | 290  | 270  |
| 5              | 1.15              | 1.67 | 2.58 | 4.33 | 8.18 | 16.7 | 31.9 | 47.4 | 52.5              | 42.9 | 27.7 | 15.3 | 8.17 | 4.73 | 3.01 | 2.04 | 1.41    | 1.00 | 273  | 252  |
| 0              | 0.76              | 1.04 | 1.41 | 1.90 | 2.62 | 3.82 | 6.67 | 13.6 | 22.8              | 28.4 | 26.3 | 19.3 | 12.0 | 7.04 | 4.30 | 2.78 | 1.87    | 1.30 | 158  | 136  |
| -5             | 0.99              | 1.37 | 1.91 | 2.77 | 4.20 | 6.35 | 8.86 | 10.6 | 10.2              | 7.92 | 5.61 | 3.99 | 3.21 | 2.64 | 2.06 | 1.56 | 1.16    | 0.86 | 76.3 | 48.2 |
| -10            | 0.65              | 0.87 | 1.14 | 1.46 | 1.86 | 2.46 | 3.39 | 4.93 | 7.05              | 8.60 | 8.51 | 7.04 | 5.21 | 3.72 | 2.67 | 1.95 | 1.43    | 1.05 | 64.0 | 33.0 |
| -15            | 0.79              | 1.04 | 1.33 | 1.69 | 2.14 | 2.57 | 2.80 | 2.61 | 2.12              | 1.79 | 1.65 | 1.65 | 1.68 | 1.57 | 1.36 | 1.12 | 0.89    | 0.68 | 29.5 | 0.00 |
| -20            | 0.53              | 0.69 | 0.88 | 1.09 | 1.32 | 1.60 | 1.94 | 2.32 | 2.67              | 2.90 | 2.90 | 2.68 | 2.34 | 1.96 | 1.60 | 1.29 | 1.02    | 0.79 | 30.5 | 0.00 |
| -25            | 0.60              | 0.76 | 0.93 | 1.11 | 1.28 | 1.42 | 1.52 | 1.55 | 1.52              | 1.45 | 1.38 | 1.30 | 1.21 | 1.09 | 0.95 | 0.81 | 0.66    | 0.51 | 20.0 | 0.00 |
| -30            | 0.41              | 0.52 | 0.65 | 0.78 | 0.92 | 1.06 | 1.19 | 1.32 | 1.42              | 1.47 | 1.47 | 1.40 | 1.29 | 1.15 | 1.00 | 0.85 | 0.70    | 0.56 | 18.2 | 0.00 |
| -35            | 0.44              | 0.54 | 0.64 | 0.74 | 0.83 | 0.91 | 0.97 | 1.01 | 1.02              | 1.00 | 0.95 | 0.89 | 0.82 | 0.74 | 0.65 | 0.55 | 0.45    | 0.35 | 13.5 | 0.00 |
| -40            | 0.44              | 0.54 | 0.64 | 0.74 | 0.83 | 0.91 | 0.97 | 1.01 | 1.02              | 1.00 | 0.95 | 0.89 | 0.82 | 0.74 | 0.65 | 0.55 | 0.45    | 0.35 | 13.5 | 0.00 |
| -45            | 0.44              | 0.54 | 0.64 | 0.74 | 0.83 | 0.91 | 0.97 | 1.01 | 1.02              | 1.00 | 0.95 | 0.89 | 0.82 | 0.74 | 0.65 | 0.55 | 0.45    | 0.35 | 13.5 | 0.00 |
|                | -45               | -40  | -35  | -30  | -25  | -20  | -15  | -10  | HORIZONTAL( DEG ) | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45      |      |      |      |
| Φ t            | 14.0              | 19.2 | 26.6 | 38.4 | 59.7 | 101  | 173  | 264  | 333               | 336  | 271  | 184  | 115  | 72.1 | 47.6 | 32.9 | 23.4    | 16.8 | 2127 | ---  |
| Φ a            | 0.00              | 0.00 | 0.00 | 1.91 | 23.0 | 72.2 | 150  | 242  | 314               | 319  | 253  | 163  | 86.3 | 39.0 | 6.99 | 0.00 | 0.00    | 0.00 | ---  | 1670 |

one-half-peak spread: U:16.2,D:8.3 , L:11.9,R:11.5

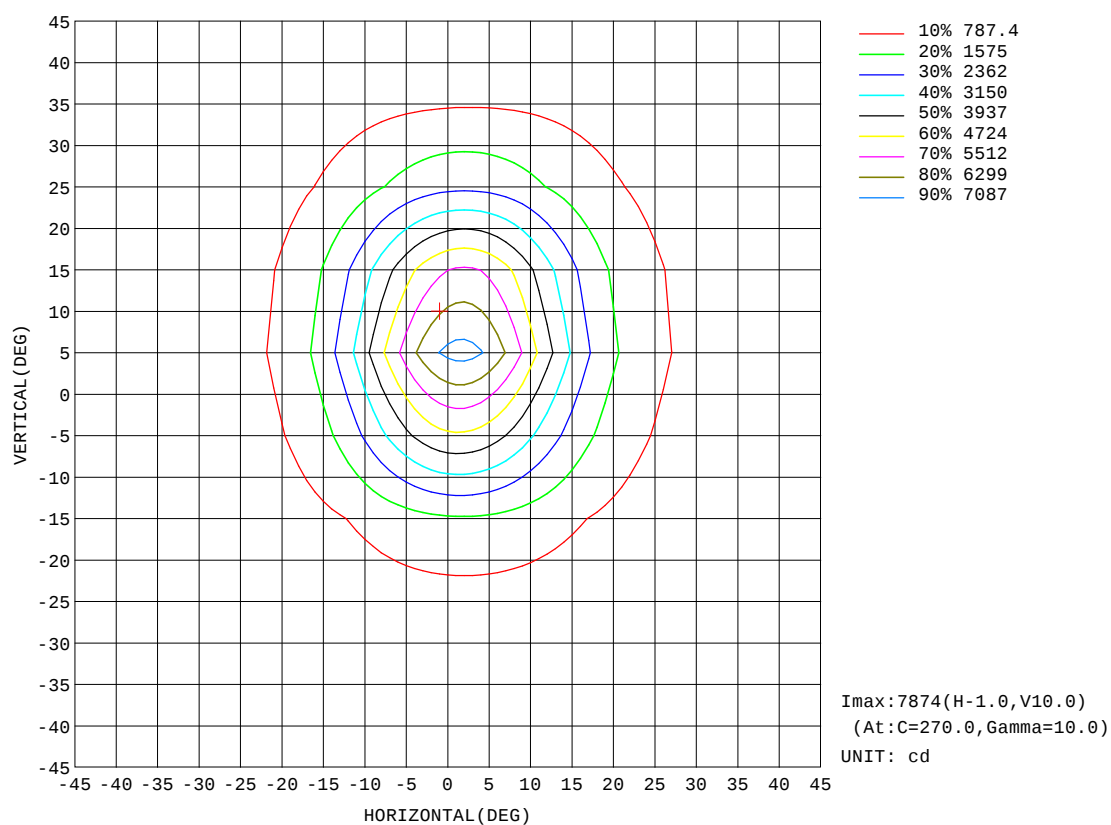
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG  
 H(β) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:27.1DEG  
 Operators:QC1  
 Test Date:2023-12-29

V(B) Range:-80 - 80DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.275  
 Humidity:61%  
 Test Distance:8.300m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|                                                                   |          |                       |
|-------------------------------------------------------------------|----------|-----------------------|
| Test:U:276.9V I:0.2638A P:44.27W PF:0.6061 Lamp Flux:2291.38x1 lm |          |                       |
| NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W                   | TYPE:LED | WEIGHT:               |
| DIM.:                                                             | SPEC.:   | SERIAL No.:2023120063 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |

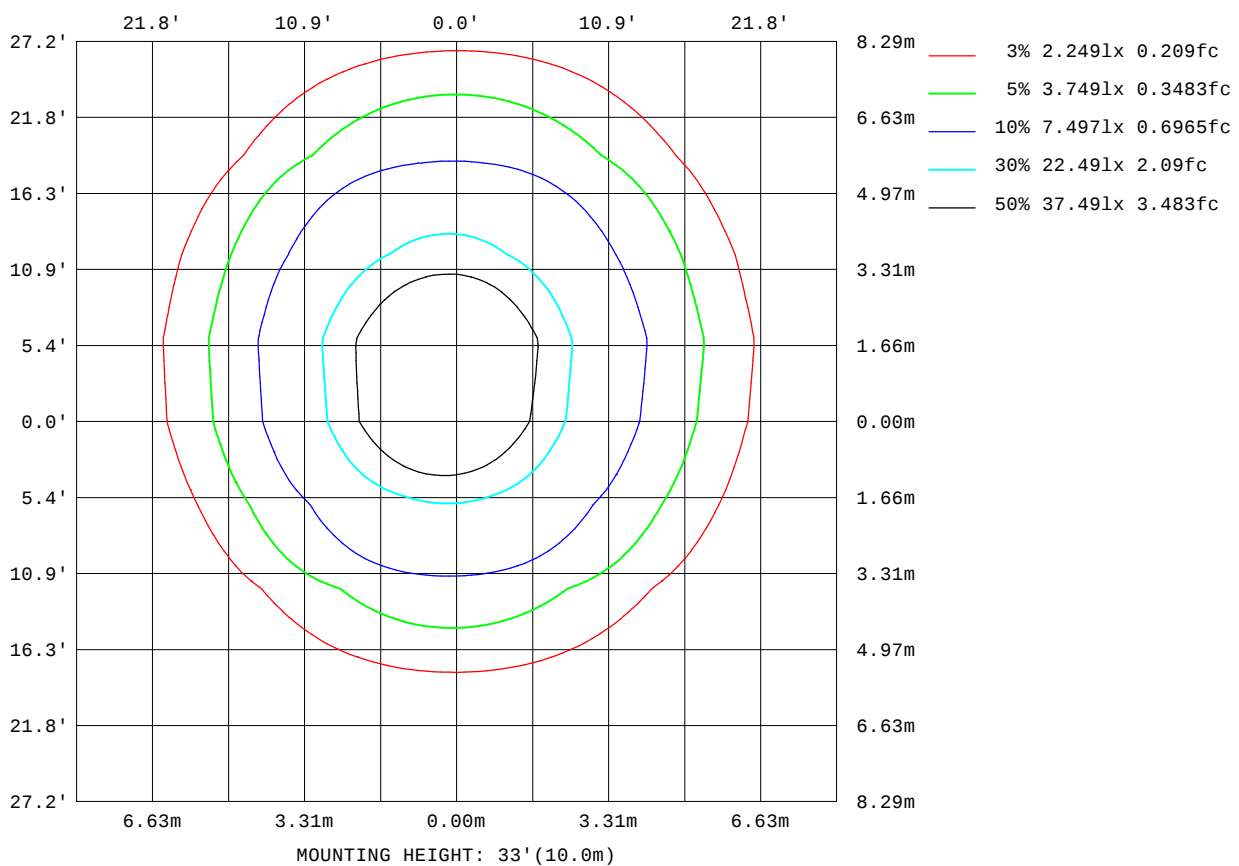


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:27.1DEG  
Operators:QC1  
Test Date:2023-12-29

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:61%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

|                                                                   |          |                       |
|-------------------------------------------------------------------|----------|-----------------------|
| Test:U:276.9V I:0.2638A P:44.27W PF:0.6061 Lamp Flux:2291.38x1 lm |          |                       |
| NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W                   | TYPE:LED | WEIGHT:               |
| DIM.:                                                             | SPEC.:   | SERIAL No.:2023120063 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |

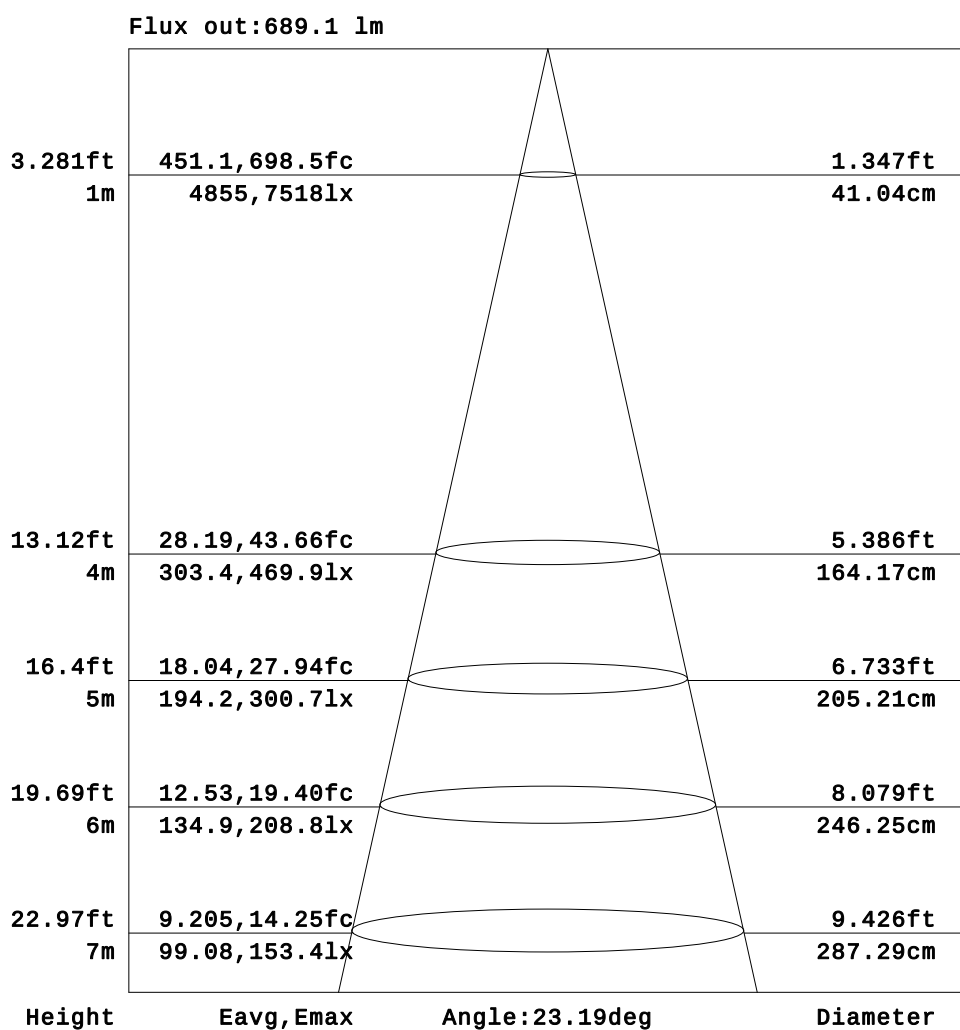


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:27.1DEG  
Operators:QC1  
Test Date:2023-12-29

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:61%  
Test Distance:8.300m [K=1.0000]  
Remarks:

## AAI Figure

|                                                                   |          |                       |
|-------------------------------------------------------------------|----------|-----------------------|
| Test:U:276.9V I:0.2638A P:44.27W PF:0.6061 Lamp Flux:2291.38x1 lm |          |                       |
| NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W                   | TYPE:LED | WEIGHT:               |
| DIM.:                                                             | SPEC.:   | SERIAL No.:2023120063 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |

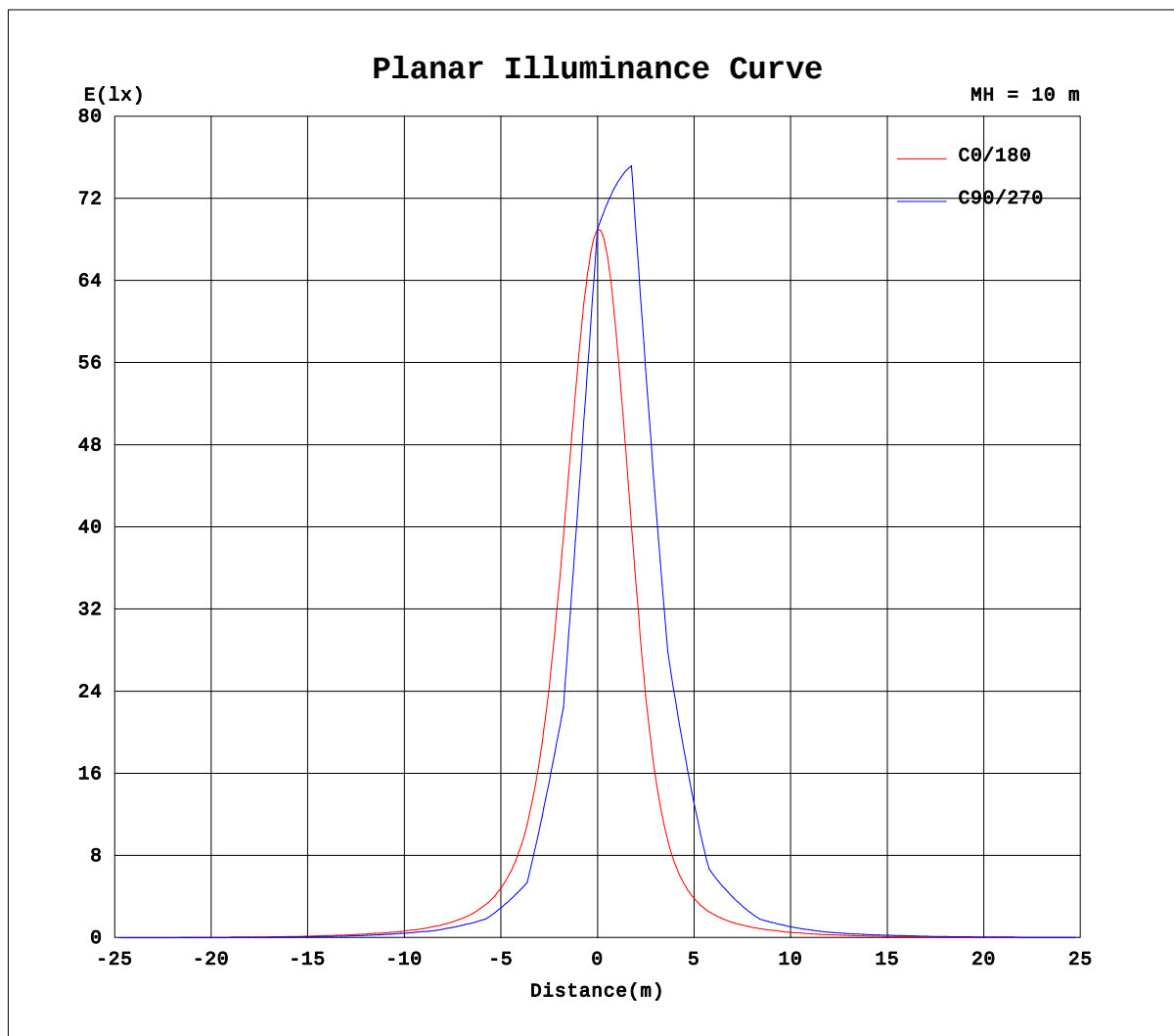


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:27.1DEG  
Operators:QC1  
Test Date:2023-12-29

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity:61%  
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: 27.1DEG  
Operators: QC1  
Test Date: 2023-12-29

V(B) Range: -80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
Humidity: 61%  
Test Distance: 8.300m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                   |        |                       |
|-------------------------------------------------------------------|--------|-----------------------|
| Test:U:276.9V I:0.2638A P:44.27W PF:0.6061 Lamp Flux:2291.38x1 lm |        |                       |
| NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W TYPE:LED          |        | WEIGHT:               |
| DIM.:                                                             | SPEC.: | SERIAL No.:2023120063 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:  | PROTECTION ANGLE:     |

Table--1

UNIT: cd

| 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 | 1.36 | 4.72 | 8.04 | 11.0 | 13.4 | 15.8 | 17.8 | 19.0 | 19.4 | 19.7 | 20.3 | 20.5 |
| -60         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.45 | 6.65 | 13.5 | 19.8 | 25.0 | 29.7 | 34.2 | 37.1 | 38.7 | 39.1 | 40.1 | 40.9 | 40.8 |
| -55         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.44 | 5.03 | 11.2 | 20.1 | 29.4 | 37.7 | 44.4 | 50.2 | 55.1 | 58.7 | 61.4 | 63.8 | 66.0 | 67.1 |
| -50         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.35 | 15.7 | 26.1 | 38.0 | 49.3 | 58.8 | 66.2 | 72.4 | 77.6 | 82.3 | 86.5 | 90.3 | 92.8 | 93.4 |
| -45         | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 5.41 | 16.3 | 29.3 | 42.5 | 54.9 | 66.3 | 76.8 | 86.5 | 95.6 | 104  | 112  | 119  | 125  | 128  |
| -40         | 0.00 | 0.00 | 0.00 | 0.00 | 5.26 | 17.3 | 32.1 | 48.5 | 61.9 | 74.3 | 86.6 | 99.2 | 112  | 124  | 136  | 146  | 155  | 161  | 163  |
| -35         | 0.00 | 0.00 | 0.00 | 0.00 | 2.36 | 13.7 | 28.8 | 46.3 | 62.2 | 76.9 | 92.2 | 109  | 126  | 144  | 163  | 181  | 199  | 214  | 222  |
| -30         | 0.00 | 0.00 | 0.00 | 0.74 | 12.0 | 27.1 | 46.6 | 63.7 | 80.1 | 97.6 | 117  | 139  | 162  | 186  | 212  | 239  | 262  | 279  | 285  |
| -25         | 0.00 | 0.00 | 0.00 | 0.00 | 6.97 | 21.2 | 40.6 | 59.7 | 78.1 | 97.8 | 120  | 146  | 176  | 212  | 258  | 313  | 374  | 429  | 463  |
| -20         | 0.00 | 0.00 | 0.00 | 4.28 | 18.3 | 37.5 | 58.0 | 77.7 | 99.1 | 124  | 154  | 189  | 232  | 290  | 368  | 461  | 556  | 628  | 649  |
| -15         | 0.00 | 0.00 | 0.00 | 0.09 | 10.9 | 27.7 | 49.4 | 70.1 | 92.5 | 118  | 150  | 189  | 242  | 318  | 443  | 640  | 927  | 1260 | 1482 |
| -10         | 0.00 | 0.00 | 0.00 | 6.64 | 22.4 | 44.1 | 65.8 | 88.5 | 116  | 149  | 191  | 248  | 335  | 480  | 733  | 1143 | 1703 | 2209 | 2337 |
| -5          | 0.00 | 0.00 | 0.00 | 0.44 | 13.6 | 32.3 | 55.2 | 77.8 | 104  | 135  | 176  | 230  | 315  | 462  | 756  | 1360 | 2461 | 3777 | 4586 |
| 0           | 0.00 | 0.00 | 0.00 | 8.35 | 25.5 | 48.5 | 71.4 | 97.0 | 128  | 167  | 220  | 304  | 449  | 745  | 1401 | 2765 | 4829 | 6547 | 6755 |
| 5           | 0.00 | 0.00 | 0.00 | 0.59 | 14.6 | 34.1 | 57.3 | 81.1 | 109  | 144  | 189  | 252  | 358  | 556  | 984  | 1947 | 3718 | 5850 | 7270 |
| 10          | 0.00 | 0.00 | 0.00 | 7.97 | 25.0 | 48.0 | 71.0 | 97.1 | 129  | 171  | 227  | 314  | 471  | 798  | 1552 | 3058 | 5198 | 7198 | 7830 |
| 15          | 0.00 | 0.00 | 0.00 | 0.23 | 13.5 | 32.3 | 55.4 | 78.7 | 106  | 139  | 183  | 243  | 340  | 514  | 869  | 1619 | 2899 | 4423 | 5499 |
| 20          | 0.00 | 0.00 | 0.00 | 6.50 | 22.4 | 44.7 | 67.0 | 91.6 | 121  | 157  | 205  | 275  | 390  | 592  | 967  | 1601 | 2446 | 3157 | 3344 |
| 25          | 0.00 | 0.00 | 0.00 | 0.00 | 10.6 | 27.4 | 49.5 | 71.2 | 95.5 | 124  | 161  | 208  | 277  | 382  | 562  | 869  | 1329 | 1837 | 2165 |
| 30          | 0.00 | 0.00 | 0.00 | 3.30 | 17.4 | 36.8 | 57.7 | 79.2 | 103  | 133  | 170  | 216  | 277  | 364  | 490  | 656  | 838  | 985  | 1037 |
| 35          | 0.00 | 0.00 | 0.00 | 0.00 | 6.30 | 20.6 | 40.1 | 60.0 | 80.4 | 103  | 130  | 164  | 204  | 256  | 327  | 421  | 534  | 642  | 713  |
| 40          | 0.00 | 0.00 | 0.00 | 0.39 | 11.8 | 26.9 | 46.6 | 65.0 | 83.9 | 105  | 130  | 158  | 190  | 227  | 271  | 320  | 364  | 398  | 412  |
| 45          | 0.00 | 0.00 | 0.00 | 0.00 | 2.03 | 13.2 | 28.2 | 46.0 | 63.3 | 80.5 | 99.0 | 120  | 143  | 169  | 198  | 229  | 261  | 288  | 306  |
| 50          | 0.00 | 0.00 | 0.00 | 0.00 | 4.50 | 16.3 | 31.1 | 48.0 | 63.2 | 77.8 | 92.8 | 109  | 126  | 144  | 162  | 178  | 193  | 203  | 208  |
| 55          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.30 | 16.3 | 29.6 | 43.5 | 57.5 | 70.6 | 83.0 | 95.4 | 108  | 121  | 133  | 145  | 154  | 160  |
| 60          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.24 | 16.9 | 27.8 | 40.6 | 53.1 | 63.4 | 71.8 | 79.6 | 87.1 | 94.5 | 102  | 108  | 113  | 116  |
| 65          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.74 | 5.53 | 12.8 | 22.6 | 32.9 | 42.2 | 49.7 | 56.4 | 62.3 | 67.1 | 71.4 | 75.3 | 78.9 | 81.4 |
| 70          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.90 | 9.14 | 17.0 | 24.4 | 30.3 | 35.8 | 40.6 | 43.6 | 44.9 | 45.6 | 46.6 | 47.6 | 47.9 |
| 75          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.30 | 6.17 | 10.0 | 13.5 | 16.2 | 18.9 | 21.3 | 23.0 | 23.1 | 23.0 | 23.6 | 24.2 |
| 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 | 0.11 | 1.45 | 1.25 | 0.29 | 0.10 | 0.30 | 0.40 |
| 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:27.1DEG  
 Operators:QC1  
 Test Date:2023-12-29

V(B) Range:-80 - 80DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
 Humidity:61%  
 Test Distance:8.300m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                   |          |                       |
|-------------------------------------------------------------------|----------|-----------------------|
| Test:U:276.9V I:0.2638A P:44.27W PF:0.6061 Lamp Flux:2291.38x1 lm |          |                       |
| NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W                   | TYPE:LED | WEIGHT:               |
| DIM.:                                                             | SPEC.:   | SERIAL No.:2023120063 |
| MFR.: TPK OPTOELECTRONIC TECH CO., LTD                            | SUR.:    | PROTECTION ANGLE:     |

Table--2

UNIT: cd

| 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         | 20.3 | 19.6 | 18.7 | 17.7 | 16.6 | 15.2 | 13.3 | 11.3 | 8.96 | 5.93 | 2.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -60         | 39.9 | 38.2 | 36.2 | 34.2 | 31.7 | 28.3 | 24.2 | 20.0 | 14.4 | 7.97 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -55         | 66.8 | 65.2 | 62.5 | 59.1 | 55.4 | 51.1 | 46.0 | 40.2 | 33.3 | 24.6 | 15.4 | 7.67 | 3.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -50         | 92.1 | 89.1 | 84.9 | 79.8 | 74.2 | 68.0 | 61.0 | 52.7 | 42.0 | 30.2 | 19.3 | 9.69 | 0.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -45         | 128  | 125  | 119  | 112  | 104  | 94.8 | 85.2 | 74.8 | 63.0 | 50.1 | 36.5 | 22.9 | 10.8 | 2.15 | 0.00 | 0.00 | 0.00 | 0.00 |
| -40         | 160  | 154  | 145  | 134  | 123  | 110  | 97.1 | 83.1 | 68.7 | 53.6 | 37.4 | 20.8 | 8.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -35         | 223  | 216  | 202  | 186  | 167  | 148  | 130  | 112  | 93.8 | 75.9 | 57.7 | 39.0 | 21.5 | 8.07 | 0.45 | 0.00 | 0.00 | 0.00 |
| -30         | 279  | 263  | 240  | 215  | 189  | 164  | 141  | 119  | 97.5 | 76.4 | 55.7 | 35.5 | 17.3 | 4.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| -25         | 462  | 429  | 378  | 322  | 270  | 225  | 188  | 156  | 128  | 102  | 78.0 | 54.8 | 32.9 | 14.9 | 2.64 | 0.00 | 0.00 | 0.00 |
| -20         | 613  | 537  | 449  | 365  | 296  | 240  | 195  | 159  | 127  | 98.7 | 72.0 | 47.5 | 25.2 | 9.46 | 0.13 | 0.00 | 0.00 | 0.00 |
| -15         | 1446 | 1197 | 889  | 636  | 462  | 345  | 264  | 206  | 162  | 128  | 97.2 | 68.5 | 42.9 | 21.0 | 6.17 | 0.00 | 0.00 | 0.00 |
| -10         | 2013 | 1482 | 1006 | 681  | 476  | 346  | 258  | 198  | 155  | 120  | 87.2 | 58.0 | 32.8 | 13.6 | 1.68 | 0.00 | 0.00 | 0.00 |
| -5          | 4304 | 3234 | 2062 | 1227 | 750  | 493  | 346  | 253  | 192  | 149  | 112  | 78.2 | 49.7 | 25.2 | 8.45 | 0.06 | 0.00 | 0.00 |
| 0           | 5410 | 3542 | 2018 | 1125 | 682  | 448  | 313  | 229  | 173  | 131  | 95.8 | 62.9 | 36.2 | 15.2 | 2.19 | 0.00 | 0.00 | 0.00 |
| 5           | 6910 | 5062 | 3059 | 1696 | 965  | 595  | 398  | 281  | 208  | 159  | 119  | 82.7 | 52.3 | 26.9 | 9.25 | 0.19 | 0.00 | 0.00 |
| 10          | 6380 | 4092 | 2280 | 1268 | 750  | 481  | 332  | 238  | 179  | 136  | 98.3 | 64.6 | 36.8 | 15.7 | 2.59 | 0.00 | 0.00 | 0.00 |
| 15          | 5347 | 4025 | 2527 | 1475 | 883  | 561  | 381  | 272  | 203  | 156  | 116  | 80.3 | 50.3 | 25.5 | 8.53 | 0.13 | 0.00 | 0.00 |
| 20          | 2890 | 2090 | 1378 | 887  | 586  | 405  | 290  | 217  | 167  | 127  | 90.8 | 58.5 | 32.8 | 13.4 | 1.51 | 0.00 | 0.00 | 0.00 |
| 25          | 2127 | 1753 | 1272 | 874  | 600  | 423  | 308  | 232  | 180  | 141  | 104  | 71.0 | 43.9 | 21.5 | 6.39 | 0.00 | 0.00 | 0.00 |
| 30          | 973  | 827  | 658  | 506  | 385  | 294  | 228  | 181  | 144  | 110  | 77.3 | 49.4 | 26.6 | 10.3 | 0.44 | 0.00 | 0.00 | 0.00 |
| 35          | 717  | 656  | 558  | 452  | 360  | 285  | 227  | 184  | 148  | 116  | 85.0 | 57.5 | 34.4 | 16.0 | 3.35 | 0.00 | 0.00 | 0.00 |
| 40          | 402  | 372  | 330  | 284  | 240  | 203  | 172  | 141  | 113  | 84.2 | 58.7 | 37.0 | 18.4 | 5.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45          | 309  | 298  | 275  | 246  | 216  | 187  | 161  | 136  | 110  | 86.2 | 63.2 | 42.5 | 24.0 | 9.80 | 0.69 | 0.00 | 0.00 | 0.00 |
| 50          | 206  | 199  | 187  | 172  | 156  | 139  | 120  | 99.2 | 79.0 | 60.1 | 42.5 | 25.1 | 11.6 | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55          | 162  | 159  | 152  | 142  | 131  | 118  | 105  | 90.4 | 74.6 | 59.0 | 43.1 | 28.3 | 14.8 | 3.58 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60          | 115  | 112  | 106  | 99.1 | 90.8 | 81.9 | 72.9 | 62.7 | 51.6 | 38.9 | 25.9 | 14.6 | 3.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65          | 81.8 | 80.5 | 77.5 | 73.6 | 69.4 | 64.9 | 59.1 | 51.9 | 43.6 | 34.2 | 23.3 | 13.1 | 5.17 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 70          | 47.1 | 45.5 | 43.9 | 43.2 | 42.7 | 41.2 | 37.0 | 31.4 | 24.6 | 16.7 | 8.21 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75          | 24.0 | 23.3 | 22.4 | 22.0 | 22.4 | 21.7 | 20.0 | 17.4 | 14.4 | 10.8 | 6.64 | 2.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 80          | 0.14 | 0.00 | 0.10 | 1.46 | 1.44 | 0.11 | 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 |

$H(\beta)$  Range:-90 - 90DEG  
 $H(\beta)$  Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:27.1DEG  
 Operators:QC1  
 Test Date:2023-12-29

$V(\beta)$  Range:-80 - 80DEG  
 $V(\beta)$  Interval: 5.0DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.275  
 Humidity:61%  
 Test Distance:8.300m [K=1.0000]  
 Remarks: