

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

|                                    |                        |
|------------------------------------|------------------------|
| Maximum Intensity                  | 2170.6 cd per klm.     |
| (Luminaire orientation as tested.) | 0.0 degrees vertical   |
|                                    | 0.0 degrees horizontal |

|             |                |               |
|-------------|----------------|---------------|
| Beam Spread | At 10% of Imax | 67.5V x 65.5H |
|             | At 50% of Imax | 32.8V x 32.5H |
|             | At 90% of Imax | 8.9V x 12.2H  |

|           |                |                       |
|-----------|----------------|-----------------------|
| Beam Flux | Total          | 999.3 lumens per klm. |
|           | To 10% of Imax | 772.7 lumens per klm. |
|           | To 50% of Imax | 378.3 lumens per klm. |
|           | To 90% of Imax | 42.6 lumens per klm.  |

|              |        |
|--------------|--------|
| Upward LOR   | 0.0 %  |
| Downward LOR | 99.9 % |

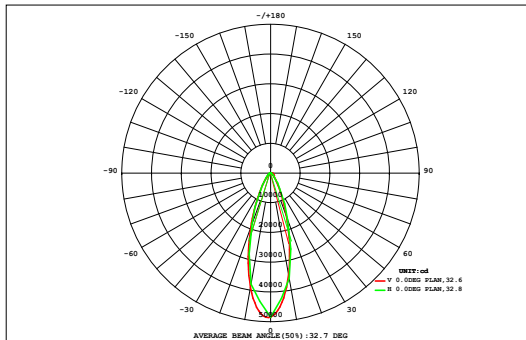
|   |         |
|---|---------|
| Luminaire Efficiency (Light Output Ratio) | 100.0 % |
|---|---------|

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-08

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.290m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

|   |          |                  |
|---|----------|------------------|
| Test:U:220.6V I:0.7310A P:155.1W PF:0.9617 Lamp Flux:22382x1 lm |          |                  |
| NAME: FL-5050-150   | TYPE:LED | WEIGHT:7KG       |
| SPEC.:C470SP-Q2-P-03A 230V50HZ                                  | DIM.:    | SERIAL No.:1     |
| MFR.: EVERFINE  | SUR.:    | Shielding Angle: |



| DATA OF LAMP     |                | Eff:144.32lm/W  |          |
|------------------|----------------|-----------------|----------|
| MODEL            | FL-5050-150-30 | Imax(cd)        | 48582    |
| NOMINAL POWER(W) | 150            | AVAILABILITY(%) | 77.6     |
| RATED VOLTAGE(V) | 220            | Avai. FLUX(lm)  | 17358    |
| NOMINAL FLUX(lm) | 22382          | LOR(%)          | 100.0    |
| LAMPS INSIDE     | 1              | TOTAL FLUX(lm)  | 22382    |
| TEST VOLTAGE(V)  | 220            | θ @50%(H,V)     | 33,33DEG |

| VERTICAL (DEG)   | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | UNIT:lm |      | Φ t   | Φ a   |
|------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|------|-------|-------|
|                  | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 94.6  | 0.00  |
| 80               | 0.09              | 0.67 | 1.96 | 3.68 | 5.54 | 7.25 | 8.62 | 9.43 | 9.69 | 9.72 | 9.52 | 8.77 | 7.39 | 5.67 | 3.79 | 2.02 | 0.73    | 0.10 | 152   | 0.00  |
| 70               | 0.13              | 1.12 | 3.08 | 5.64 | 8.43 | 11.2 | 13.7 | 15.6 | 16.4 | 16.5 | 15.7 | 13.9 | 11.5 | 8.67 | 5.76 | 3.14 | 1.16    | 0.15 | 230   | 0.00  |
| 60               | 0.20              | 1.60 | 4.22 | 7.68 | 11.8 | 16.5 | 20.9 | 24.5 | 26.7 | 26.7 | 24.7 | 21.1 | 16.7 | 12.1 | 7.97 | 4.39 | 1.68    | 0.24 | 357   | 0.00  |
| 50               | 0.27              | 1.97 | 5.20 | 9.64 | 15.6 | 23.1 | 32.1 | 41.4 | 48.0 | 48.1 | 41.7 | 32.3 | 23.3 | 16.0 | 10.1 | 5.55 | 2.15    | 0.32 | 657   | 84.1  |
| 40               | 0.32              | 2.30 | 6.04 | 11.7 | 20.2 | 33.6 | 55.2 | 84.9 | 111  | 112  | 86.5 | 56.1 | 34.0 | 20.7 | 12.2 | 6.55 | 2.59    | 0.40 | 1432  | 1015  |
| 30               | 0.36              | 2.55 | 6.74 | 13.7 | 25.9 | 51.1 | 106  | 202  | 299  | 303  | 208  | 109  | 52.0 | 26.5 | 14.5 | 7.48 | 2.97    | 0.47 | 2988  | 2691  |
| 20               | 0.39              | 2.74 | 7.33 | 15.5 | 32.3 | 75.8 | 195  | 440  | 708  | 718  | 455  | 201  | 76.8 | 32.8 | 16.5 | 8.22 | 3.24    | 0.52 | 4741  | 4475  |
| 10               | 0.40              | 2.84 | 7.65 | 16.6 | 36.9 | 97.8 | 287  | 711  | 1195 | 1205 | 724  | 291  | 97.8 | 37.5 | 17.7 | 8.68 | 3.40    | 0.54 | 5018  | 4753  |
| 0                | 0.39              | 2.87 | 7.75 | 16.8 | 37.8 | 102  | 309  | 768  | 1284 | 1275 | 751  | 296  | 98.0 | 37.5 | 17.8 | 8.70 | 3.40    | 0.51 | 5018  | 4753  |
| -10              | 0.35              | 2.79 | 7.51 | 15.9 | 33.9 | 83.3 | 223  | 516  | 827  | 812  | 495  | 212  | 79.2 | 33.6 | 16.8 | 8.39 | 3.28    | 0.46 | 3371  | 3081  |
| -20              | 0.33              | 2.65 | 7.15 | 14.6 | 28.2 | 57.9 | 125  | 238  | 337  | 325  | 216  | 111  | 53.5 | 27.5 | 15.1 | 7.77 | 3.00    | 0.40 | 1570  | 1189  |
| -30              | 0.32              | 2.45 | 6.65 | 12.9 | 22.6 | 38.5 | 63.3 | 93.6 | 116  | 112  | 86.7 | 58.7 | 36.7 | 22.5 | 13.3 | 7.10 | 2.67    | 0.36 | 697   | 68.9  |
| -40              | 0.32              | 2.25 | 6.13 | 11.4 | 18.6 | 28.0 | 38.9 | 49.0 | 54.0 | 52.7 | 46.4 | 36.9 | 27.0 | 18.5 | 11.6 | 6.36 | 2.31    | 0.33 | 411   | 0.00  |
| -50              | 0.32              | 1.97 | 5.33 | 9.72 | 15.0 | 21.1 | 27.1 | 31.7 | 34.1 | 33.9 | 31.3 | 26.7 | 21.1 | 15.2 | 9.93 | 5.48 | 1.99    | 0.32 | 292   | 0.00  |
| -60              | 0.29              | 1.61 | 4.23 | 7.66 | 11.4 | 15.3 | 18.9 | 21.4 | 22.7 | 22.7 | 21.4 | 18.9 | 15.4 | 11.5 | 7.78 | 4.22 | 1.60    | 0.28 | 207   | 0.00  |
| -70              | 0.23              | 1.15 | 2.87 | 5.13 | 7.47 | 9.67 | 11.6 | 12.8 | 13.3 | 13.4 | 12.9 | 11.7 | 9.80 | 7.59 | 5.14 | 2.85 | 1.14    | 0.23 | 129   | 0.00  |
| -80              | 0.10              | 0.43 | 0.98 | 1.63 | 2.29 | 2.92 | 3.31 | 3.51 | 3.54 | 3.57 | 3.53 | 3.30 | 2.82 | 2.16 | 1.47 | 0.83 | 0.34    | 0.08 | 36.8  | 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  | 0.00  |
| HORIZONTAL (DEG) |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |         |      |       |       |
| Φ t              | 4.79              | 34.0 | 90.8 | 180  | 334  | 676  | 1538 | 3264 | 5107 | 5090 | 3229 | 1507 | 663  | 336  | 187  | 97.7 | 37.7    | 5.71 | 22382 | ---   |
| Φ a              | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 99.9 | 1067 | 2839 | 4722 | 4706 | 2803 | 1044 | 77.3 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00  | 17358 |

one-half-peak spread: U:16.9,D:16.1 , L:16.5,R:16.3

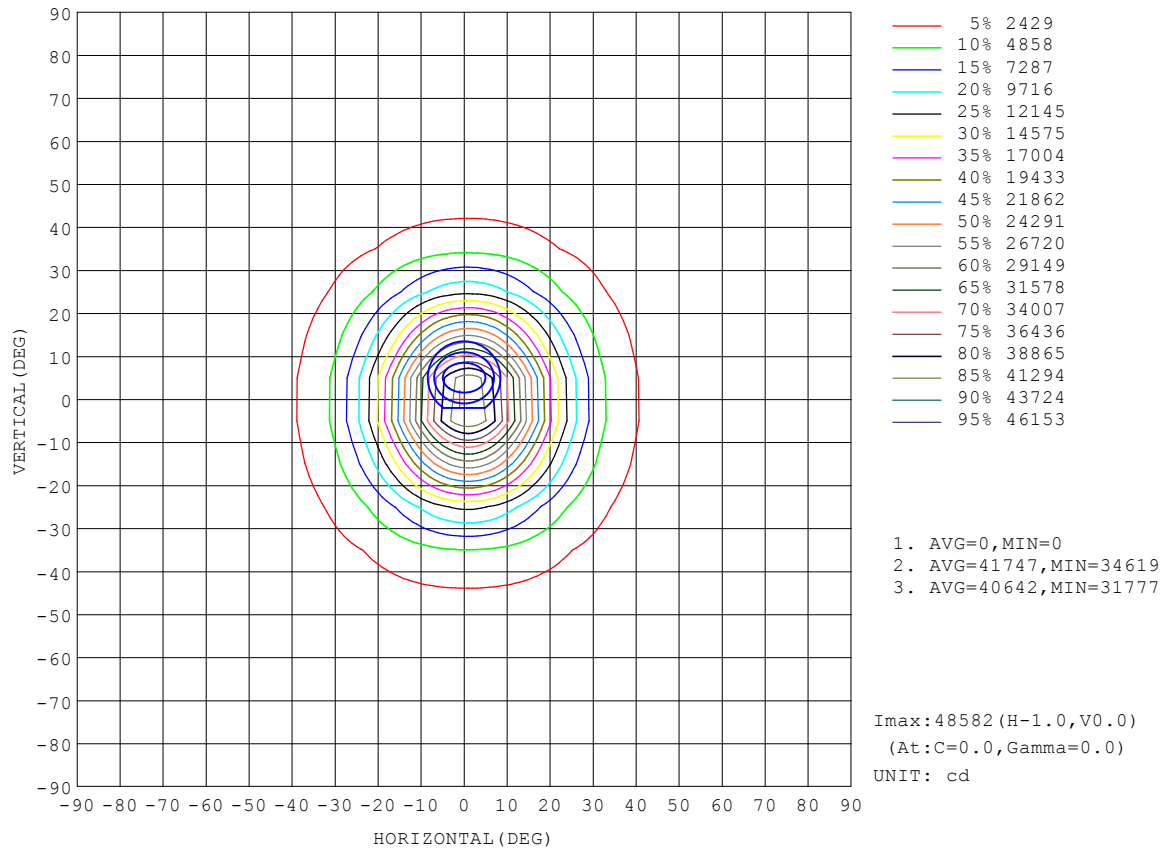
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-08

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.290m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

|   |          |                  |
|---|----------|------------------|
| Test:U:220.6V I:0.7310A P:155.1W PF:0.9617 Lamp Flux:22382x1 lm |          |                  |
| NAME: FL-5050-150   | TYPE:LED | WEIGHT:7KG       |
| SPEC.:C470SP-Q2-P-03A 230V50HZ                                  | DIM.:    | SERIAL No.:1     |
| MFR.: EVERFINE  | SUR.:    | Shielding Angle: |

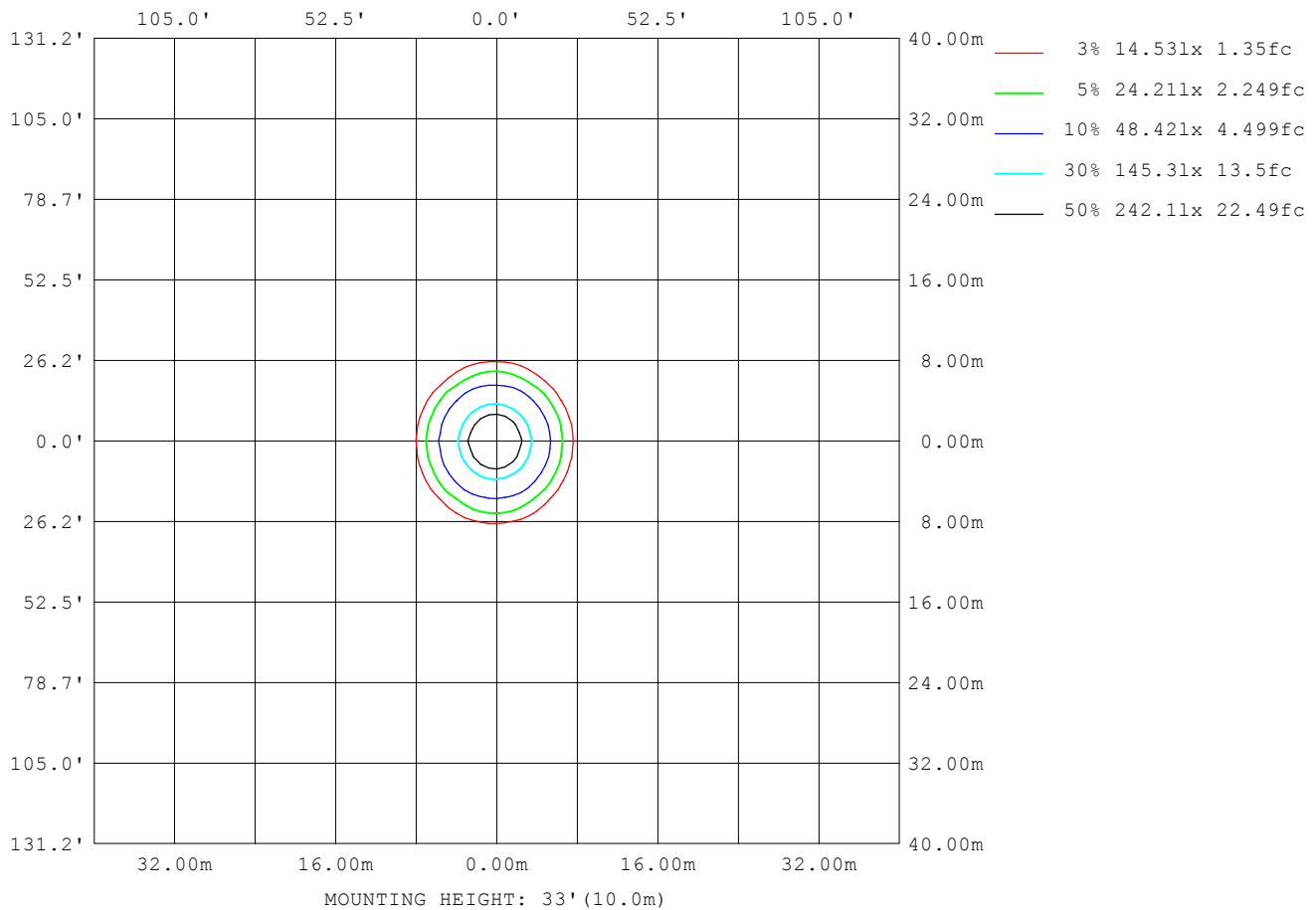


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-08

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.290m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

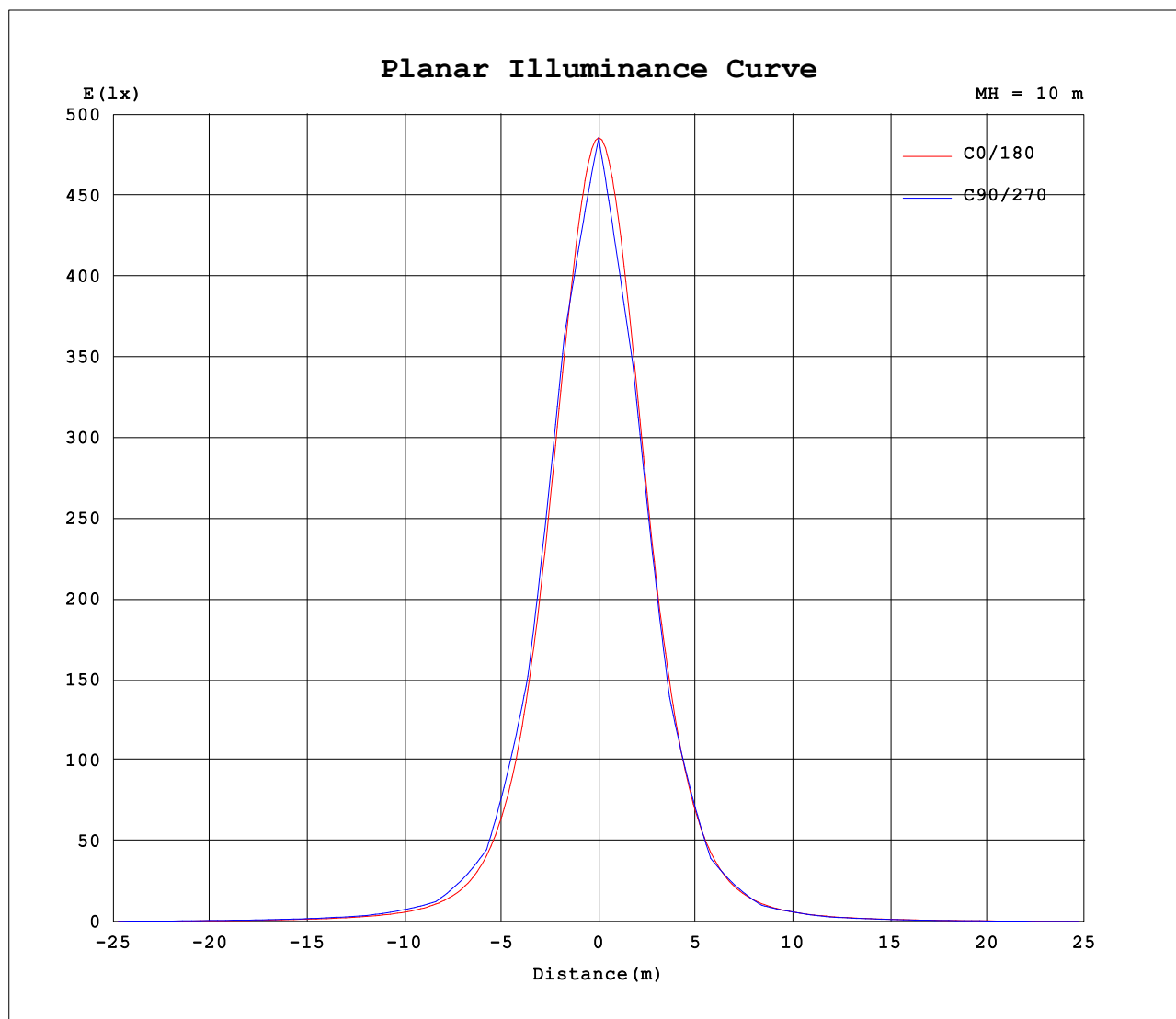
|   |          |                  |
|---|----------|------------------|
| Test:U:220.6V I:0.7310A P:155.1W PF:0.9617 Lamp Flux:22382x1 lm |          |                  |
| NAME: FL-5050-150   | TYPE:LED | WEIGHT:7KG       |
| SPEC.:C470SP-Q2-P-03A 230V50HZ                                  | DIM.:    | SERIAL No.:1     |
| MFR.: EVERFINE  | SUR.:    | Shielding Angle: |



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-08

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.290m [K=1.0000]  
Remarks:

## Planar Illuminance Curve

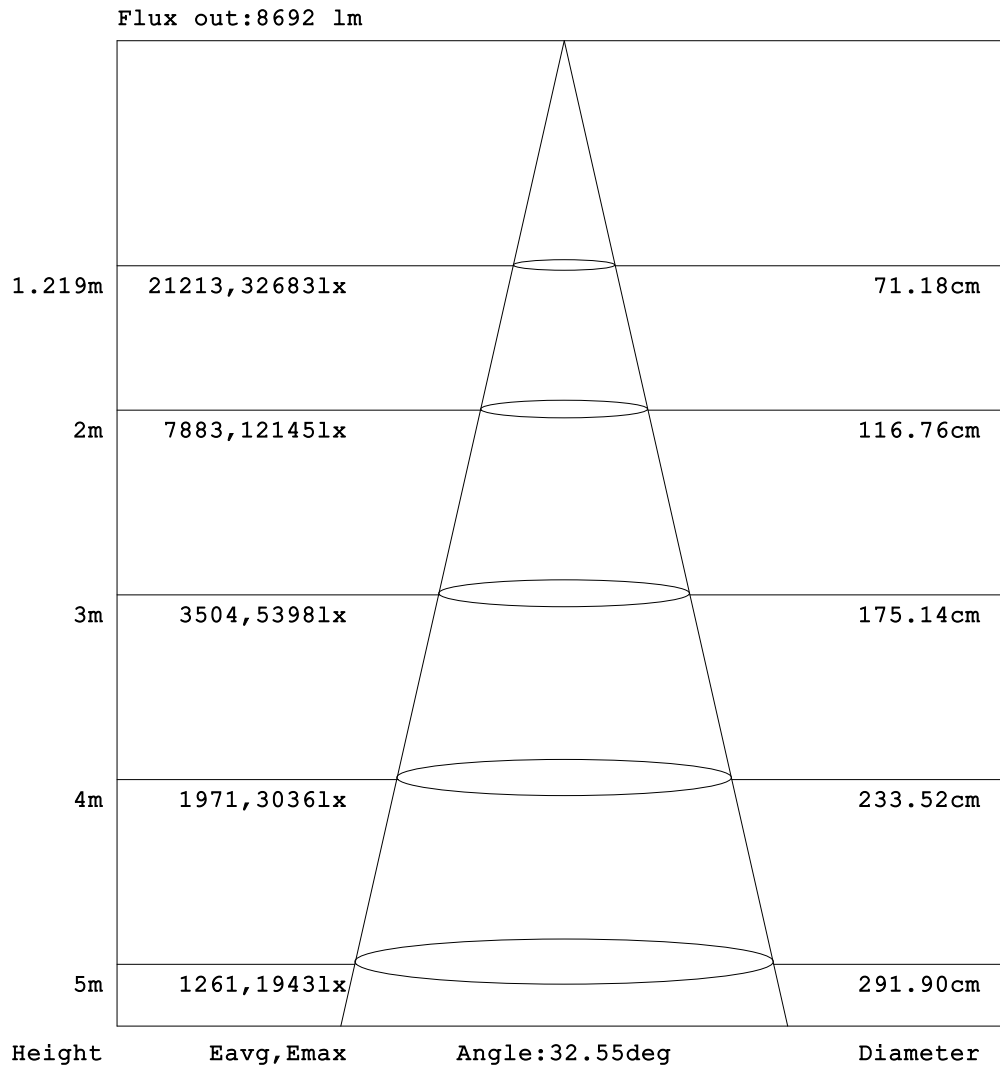


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-08

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.290m [K=1.0000]  
Remarks:

### AAI Figure

|   |          |                  |
|---|----------|------------------|
| Test:U:220.6V I:0.7310A P:155.1W PF:0.9617 Lamp Flux:22382x1 lm |          |                  |
| NAME: FL-5050-150   | TYPE:LED | WEIGHT:7KG       |
| SPEC.:C470SP-Q2-P-03A 230V50HZ                                  | DIM.:    | SERIAL No.:1     |
| MFR.: EVERFINE  | 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:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-08

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.290m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|   |          |                  |
|---|----------|------------------|
| Test:U:220.6V I:0.7310A P:155.1W PF:0.9617 Lamp Flux:22382x1 lm |          |                  |
| NAME: FL-5050-150   | TYPE:LED | WEIGHT:7KG       |
| SPEC.:C470SP-Q2-P-03A 230V50HZ                                  | DIM.:    | SERIAL No.:1     |
| MFR.: EVERFINE  | SUR.:    | Shielding Angle: |

Table--1

UNIT: ×10cd

| 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                | 5.72 | 7.07 | 8.93 | 11.5 | 14.4 | 17.1 | 19.6 | 21.9 | 23.8 | 25.5  | 27.1 | 28.5 | 29.5 | 30.0 | 30.4 | 30.7 | 30.7 | 30.5 | 30.5 |
| -75                | 5.90 | 7.16 | 9.61 | 13.0 | 17.1 | 21.0 | 24.8 | 28.3 | 31.4 | 33.9  | 36.3 | 38.5 | 40.4 | 42.0 | 43.2 | 44.1 | 44.7 | 44.8 | 44.9 |
| -70                | 6.70 | 9.02 | 12.7 | 17.8 | 23.1 | 28.0 | 32.9 | 37.3 | 41.1 | 44.3  | 47.3 | 50.1 | 52.8 | 55.0 | 56.8 | 58.2 | 58.9 | 59.2 | 59.4 |
| -65                | 6.45 | 8.40 | 12.3 | 18.1 | 24.5 | 30.8 | 36.9 | 42.2 | 47.0 | 51.6  | 56.1 | 60.5 | 64.5 | 68.2 | 71.4 | 74.0 | 75.8 | 76.9 | 77.4 |
| -60                | 7.25 | 10.6 | 16.1 | 23.5 | 30.9 | 38.6 | 45.4 | 51.0 | 56.6 | 62.4  | 68.6 | 74.1 | 79.4 | 84.1 | 88.2 | 91.4 | 93.7 | 95.0 | 95.4 |
| -55                | 6.33 | 8.88 | 14.2 | 22.1 | 30.6 | 39.2 | 46.8 | 53.6 | 60.5 | 67.9  | 75.6 | 83.5 | 91.3 | 98.9 | 106  | 112  | 118  | 121  | 123  |
| -50                | 6.71 | 10.8 | 18.2 | 27.5 | 37.2 | 46.3 | 53.8 | 61.7 | 70.2 | 79.3  | 89.0 | 99.2 | 109  | 120  | 129  | 138  | 144  | 149  | 150  |
| -45                | 5.36 | 8.40 | 15.3 | 25.1 | 35.5 | 45.2 | 53.7 | 62.6 | 72.5 | 83.5  | 95.8 | 110  | 126  | 143  | 162  | 180  | 197  | 209  | 214  |
| -40                | 5.45 | 10.5 | 20.0 | 30.9 | 42.0 | 51.1 | 60.6 | 71.3 | 83.2 | 97.1  | 113  | 133  | 156  | 182  | 209  | 237  | 261  | 275  | 277  |
| -35                | 3.95 | 7.39 | 16.1 | 27.5 | 39.2 | 49.0 | 59.0 | 70.4 | 83.9 | 100.0 | 120  | 147  | 183  | 229  | 283  | 346  | 410  | 461  | 483  |
| -30                | 4.00 | 9.90 | 21.2 | 33.5 | 44.7 | 54.6 | 66.2 | 79.9 | 96.7 | 118   | 147  | 188  | 245  | 317  | 407  | 507  | 606  | 673  | 688  |
| -25                | 2.80 | 6.61 | 17.4 | 29.9 | 41.8 | 52.1 | 63.8 | 78.1 | 96.0 | 120   | 155  | 207  | 288  | 407  | 571  | 777  | 998  | 1177 | 1260 |
| -20                | 3.19 | 10.6 | 23.4 | 36.3 | 47.0 | 58.5 | 72.3 | 89.7 | 113  | 147   | 199  | 283  | 416  | 618  | 891  | 1226 | 1552 | 1777 | 1830 |
| -15                | 2.20 | 6.38 | 19.1 | 32.0 | 43.4 | 54.6 | 67.8 | 84.9 | 107  | 141   | 195  | 284  | 434  | 682  | 1047 | 1541 | 2102 | 2579 | 2811 |
| -10                | 2.80 | 11.7 | 25.1 | 37.3 | 48.4 | 60.6 | 76.1 | 96.3 | 125  | 172   | 250  | 386  | 625  | 1010 | 1572 | 2303 | 3072 | 3636 | 3791 |
| -5                 | 1.95 | 6.95 | 20.5 | 32.9 | 44.2 | 56.0 | 70.1 | 88.8 | 114  | 155   | 223  | 341  | 555  | 921  | 1483 | 2253 | 3150 | 3926 | 4318 |
| 0                  | 2.65 | 13.3 | 25.8 | 37.8 | 49.2 | 61.7 | 78.1 | 99.4 | 131  | 183   | 274  | 438  | 736  | 1237 | 1968 | 2913 | 3911 | 4643 | 4842 |
| 5                  | 1.78 | 7.82 | 20.9 | 32.6 | 43.9 | 55.6 | 69.7 | 88.3 | 113  | 154   | 221  | 338  | 548  | 909  | 1459 | 2213 | 3088 | 3842 | 4223 |
| 10                 | 2.39 | 13.5 | 24.9 | 36.7 | 47.7 | 59.8 | 75.1 | 95.0 | 123  | 169   | 246  | 378  | 607  | 978  | 1513 | 2207 | 2931 | 3459 | 3603 |
| 15                 | 1.50 | 8.07 | 20.1 | 31.3 | 42.3 | 53.3 | 66.4 | 83.1 | 105  | 138   | 190  | 276  | 420  | 654  | 999  | 1463 | 1987 | 2428 | 2641 |
| 20                 | 2.38 | 13.0 | 23.9 | 35.1 | 45.4 | 56.6 | 70.1 | 87.0 | 109  | 142   | 192  | 270  | 395  | 581  | 832  | 1137 | 1433 | 1633 | 1679 |
| 25                 | 1.22 | 7.48 | 18.8 | 29.1 | 39.7 | 49.5 | 60.9 | 74.6 | 91.7 | 115   | 147  | 196  | 270  | 379  | 528  | 714  | 912  | 1071 | 1144 |
| 30                 | 2.25 | 11.5 | 21.7 | 31.9 | 41.6 | 51.0 | 62.0 | 74.9 | 90.5 | 110   | 136  | 173  | 223  | 287  | 365  | 451  | 535  | 592  | 605  |
| 35                 | 1.08 | 6.45 | 16.8 | 26.2 | 35.9 | 44.5 | 53.7 | 64.2 | 76.5 | 91.0  | 109  | 132  | 163  | 202  | 249  | 302  | 356  | 399  | 417  |
| 40                 | 2.11 | 10.1 | 19.5 | 28.2 | 37.2 | 45.0 | 53.5 | 62.9 | 73.5 | 85.2  | 98.6 | 115  | 133  | 153  | 175  | 197  | 215  | 226  | 228  |
| 45                 | 1.10 | 5.21 | 14.3 | 22.6 | 30.8 | 38.6 | 45.8 | 53.5 | 61.9 | 71.1  | 81.1 | 92.2 | 105  | 118  | 132  | 146  | 159  | 167  | 171  |
| 50                 | 1.89 | 7.78 | 15.9 | 23.5 | 31.0 | 38.0 | 44.2 | 50.7 | 57.6 | 64.8  | 72.1 | 79.5 | 86.6 | 93.5 | 100  | 106  | 110  | 113  | 113  |
| 55                 | 1.24 | 3.92 | 11.2 | 18.2 | 24.8 | 31.3 | 37.2 | 42.8 | 48.2 | 54.0  | 59.7 | 65.6 | 71.0 | 76.1 | 80.8 | 84.8 | 87.9 | 90.1 | 90.9 |
| 60                 | 1.78 | 5.55 | 12.1 | 18.4 | 24.0 | 29.6 | 34.8 | 39.2 | 43.5 | 47.8  | 52.2 | 56.1 | 59.5 | 62.5 | 64.9 | 66.7 | 67.9 | 68.6 | 68.8 |
| 65                 | 1.36 | 2.85 | 7.48 | 13.0 | 18.0 | 22.9 | 27.4 | 31.5 | 35.2 | 38.7  | 41.8 | 44.9 | 47.6 | 50.0 | 51.9 | 53.4 | 54.3 | 54.8 | 55.1 |
| 70                 | 1.67 | 3.16 | 7.23 | 11.6 | 16.0 | 20.0 | 23.4 | 26.8 | 29.8 | 32.1  | 34.1 | 36.0 | 37.8 | 39.2 | 40.3 | 40.9 | 41.3 | 41.3 | 41.3 |
| 75                 | 1.52 | 2.04 | 4.06 | 7.30 | 10.5 | 13.7 | 16.5 | 19.1 | 21.5 | 23.5  | 25.1 | 26.6 | 27.9 | 28.9 | 29.6 | 30.0 | 30.2 | 30.1 | 30.0 |
| 80                 | 1.62 | 2.08 | 3.35 | 5.46 | 7.67 | 9.66 | 11.6 | 13.4 | 14.9 | 16.2  | 17.3 | 18.3 | 19.0 | 19.3 | 19.3 | 19.3 | 19.1 | 18.8 | 18.7 |
| 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:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-08

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.290m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|   |          |                  |
|---|----------|------------------|
| Test:U:220.6V I:0.7310A P:155.1W PF:0.9617 Lamp Flux:22382x1 lm |          |                  |
| NAME: FL-5050-150   | TYPE:LED | WEIGHT:7KG       |
| SPEC.:C470SP-Q2-P-03A 230V50HZ                                  | DIM.:    | SERIAL No.:1     |
| MFR.: EVERFINE  | SUR.:    | Shielding Angle: |

Table--2

UNIT: ×10cd

| 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                | 30.7 | 31.0 | 31.0 | 30.7 | 30.4 | 29.7 | 28.4 | 26.9 | 25.3 | 23.4 | 21.2 | 18.9 | 16.2 | 13.3 | 10.5 | 8.27 | 6.41 | 5.78 |  |
| -75                | 45.0 | 45.0 | 44.8 | 44.2 | 43.2 | 41.9 | 40.1 | 37.9 | 35.7 | 33.2 | 30.1 | 26.6 | 22.9 | 19.1 | 14.9 | 11.0 | 8.15 | 6.40 |  |
| -70                | 59.3 | 59.0 | 58.3 | 56.9 | 55.0 | 52.8 | 50.0 | 47.2 | 44.3 | 40.7 | 36.2 | 31.3 | 26.6 | 21.5 | 16.0 | 11.3 | 8.00 | 6.59 |  |
| -65                | 77.2 | 76.5 | 75.1 | 73.0 | 70.2 | 66.8 | 63.0 | 58.9 | 54.5 | 50.0 | 45.2 | 39.9 | 33.7 | 27.4 | 21.1 | 14.6 | 9.89 | 7.12 |  |
| -60                | 94.7 | 93.0 | 90.5 | 87.0 | 82.7 | 78.0 | 72.7 | 67.0 | 61.2 | 55.6 | 50.2 | 43.8 | 35.7 | 28.3 | 20.7 | 13.7 | 8.91 | 7.03 |  |
| -55                | 122  | 119  | 115  | 109  | 102  | 94.7 | 87.1 | 79.6 | 72.0 | 64.8 | 57.9 | 51.2 | 43.7 | 34.9 | 26.2 | 17.7 | 11.0 | 7.15 |  |
| -50                | 147  | 142  | 134  | 125  | 115  | 105  | 95.5 | 86.0 | 77.1 | 68.4 | 60.5 | 52.9 | 44.7 | 34.3 | 24.8 | 15.6 | 9.16 | 6.58 |  |
| -45                | 211  | 201  | 185  | 167  | 149  | 131  | 115  | 101  | 89.0 | 78.2 | 68.3 | 59.4 | 51.0 | 41.5 | 30.4 | 20.2 | 11.4 | 6.62 |  |
| -40                | 269  | 249  | 223  | 194  | 167  | 143  | 122  | 106  | 92.0 | 79.8 | 68.8 | 59.1 | 50.3 | 39.7 | 27.8 | 16.9 | 8.88 | 5.85 |  |
| -35                | 472  | 430  | 368  | 304  | 246  | 197  | 158  | 130  | 108  | 91.8 | 78.3 | 66.7 | 56.5 | 46.9 | 35.0 | 22.9 | 12.0 | 6.16 |  |
| -30                | 649  | 564  | 462  | 365  | 282  | 217  | 169  | 135  | 111  | 92.5 | 78.0 | 65.8 | 55.2 | 45.3 | 32.0 | 19.5 | 9.20 | 5.36 |  |
| -25                | 1221 | 1067 | 852  | 636  | 455  | 321  | 230  | 171  | 133  | 107  | 88.5 | 73.9 | 61.8 | 51.2 | 39.6 | 26.0 | 13.1 | 6.06 |  |
| -20                | 1694 | 1406 | 1062 | 751  | 509  | 343  | 238  | 172  | 131  | 105  | 86.8 | 71.8 | 59.6 | 48.8 | 36.0 | 22.1 | 9.49 | 5.37 |  |
| -15                | 2703 | 2303 | 1754 | 1227 | 803  | 510  | 327  | 221  | 159  | 122  | 98.0 | 80.4 | 66.4 | 54.5 | 43.0 | 29.2 | 15.0 | 6.23 |  |
| -10                | 3452 | 2778 | 2011 | 1330 | 830  | 507  | 318  | 213  | 153  | 117  | 94.5 | 77.0 | 63.3 | 51.5 | 39.1 | 25.1 | 10.4 | 5.46 |  |
| -5                 | 4132 | 3470 | 2586 | 1746 | 1093 | 660  | 399  | 256  | 177  | 131  | 103  | 84.2 | 68.9 | 56.4 | 44.5 | 31.2 | 16.9 | 6.44 |  |
| 0                  | 4371 | 3478 | 2458 | 1581 | 964  | 567  | 344  | 225  | 159  | 120  | 96.3 | 78.1 | 64.1 | 51.9 | 39.4 | 26.7 | 11.3 | 5.69 |  |
| 5                  | 4044 | 3397 | 2533 | 1712 | 1074 | 651  | 395  | 254  | 175  | 130  | 103  | 83.7 | 68.4 | 56.0 | 44.3 | 31.3 | 18.1 | 6.49 |  |
| 10                 | 3288 | 2647 | 1922 | 1275 | 802  | 493  | 311  | 209  | 150  | 115  | 93.3 | 76.0 | 62.5 | 50.9 | 38.8 | 26.4 | 12.7 | 5.68 |  |
| 15                 | 2542 | 2167 | 1655 | 1162 | 764  | 488  | 316  | 215  | 155  | 119  | 95.9 | 78.8 | 65.0 | 53.4 | 42.3 | 29.9 | 18.0 | 6.32 |  |
| 20                 | 1553 | 1293 | 982  | 699  | 477  | 323  | 226  | 165  | 127  | 102  | 84.1 | 69.7 | 57.8 | 47.5 | 35.7 | 24.4 | 11.8 | 5.25 |  |
| 25                 | 1106 | 969  | 776  | 582  | 419  | 298  | 215  | 161  | 125  | 101  | 84.5 | 70.6 | 59.1 | 49.1 | 38.6 | 27.3 | 16.2 | 5.82 |  |
| 30                 | 571  | 498  | 409  | 326  | 254  | 197  | 155  | 125  | 103  | 86.5 | 73.2 | 61.8 | 52.0 | 42.9 | 31.9 | 21.9 | 10.4 | 4.51 |  |
| 35                 | 407  | 371  | 319  | 265  | 215  | 174  | 141  | 117  | 98.1 | 83.6 | 71.5 | 61.0 | 51.8 | 43.4 | 33.5 | 23.9 | 13.7 | 4.87 |  |
| 40                 | 221  | 205  | 185  | 163  | 141  | 122  | 106  | 92.5 | 80.8 | 70.5 | 61.0 | 52.5 | 45.0 | 36.5 | 26.9 | 18.1 | 8.03 | 3.70 |  |
| 45                 | 168  | 161  | 149  | 136  | 121  | 108  | 95.8 | 85.0 | 75.5 | 66.7 | 58.5 | 51.0 | 44.0 | 36.4 | 27.7 | 19.7 | 10.6 | 3.74 |  |
| 50                 | 111  | 108  | 103  | 97.2 | 90.5 | 83.6 | 76.7 | 69.7 | 63.0 | 56.1 | 49.9 | 43.8 | 37.3 | 29.4 | 22.1 | 14.3 | 5.90 | 2.80 |  |
| 55                 | 90.5 | 88.7 | 86.0 | 82.4 | 77.9 | 73.0 | 67.9 | 62.5 | 57.0 | 51.6 | 46.2 | 40.9 | 35.0 | 28.4 | 21.8 | 15.0 | 7.51 | 2.79 |  |
| 60                 | 68.4 | 67.5 | 66.2 | 64.1 | 61.5 | 58.4 | 55.0 | 50.9 | 46.8 | 42.6 | 38.5 | 33.5 | 27.5 | 22.0 | 16.1 | 9.78 | 4.01 | 2.27 |  |
| 65                 | 55.0 | 54.7 | 54.0 | 52.8 | 51.1 | 49.0 | 46.5 | 43.6 | 40.6 | 37.3 | 33.6 | 29.5 | 24.9 | 20.1 | 15.2 | 9.88 | 4.80 | 2.16 |  |
| 70                 | 41.4 | 41.3 | 41.0 | 40.3 | 39.2 | 37.7 | 35.9 | 34.0 | 32.0 | 29.2 | 25.5 | 21.9 | 18.4 | 14.4 | 10.1 | 5.70 | 2.82 | 1.92 |  |
| 75                 | 30.1 | 30.3 | 30.3 | 30.0 | 29.6 | 28.7 | 27.5 | 26.1 | 24.6 | 22.7 | 20.3 | 17.6 | 14.8 | 11.9 | 8.65 | 5.42 | 2.96 | 1.85 |  |
| 80                 | 19.0 | 19.3 | 19.4 | 19.5 | 19.4 | 18.9 | 18.0 | 17.0 | 15.9 | 14.4 | 12.9 | 11.0 | 8.94 | 6.80 | 4.66 | 2.89 | 1.93 | 1.78 |  |
| 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:25.3DEG  
Operators:DAMIN  
Test Date:2017-11-08

V(B) Range:-80 - 80DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.290m [K=1.0000]  
Remarks: