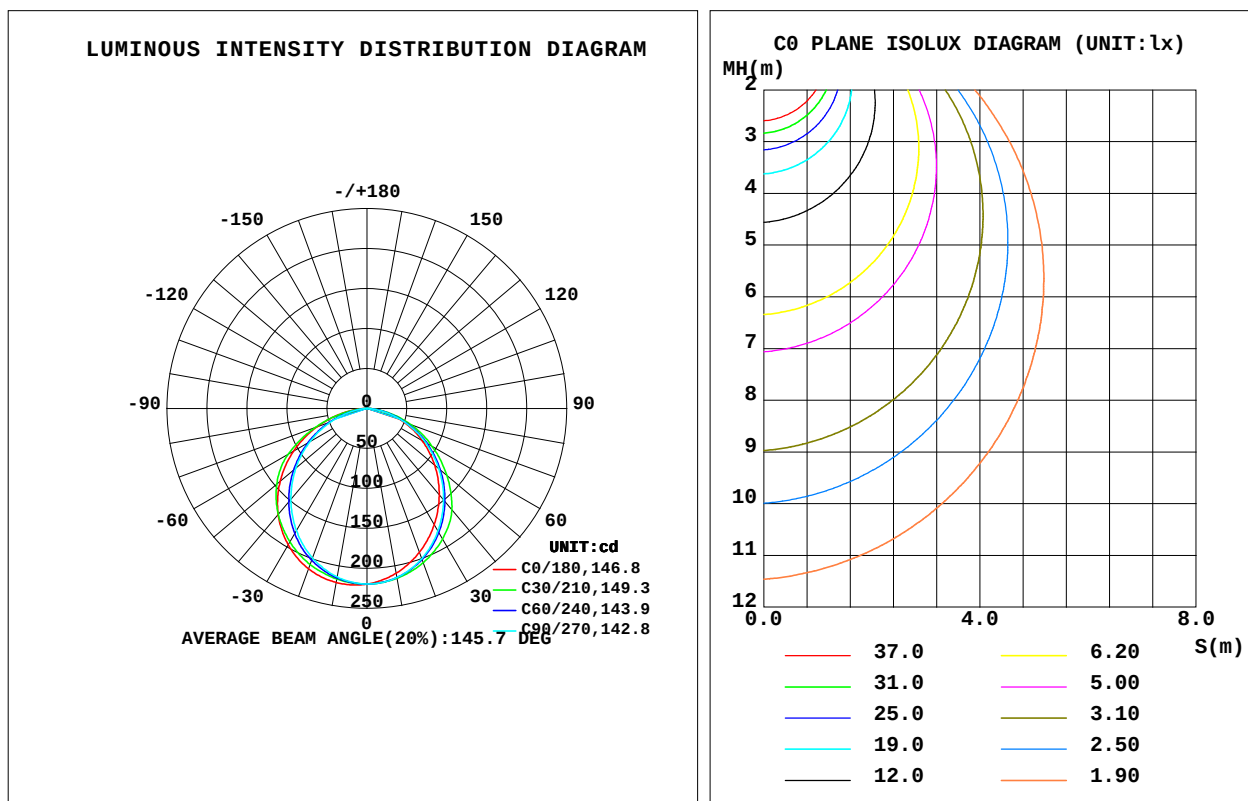


**LUMINAIRE PHOTOMETRIC TEST REPORT**

|                                                                                 |       |                  |
|---------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:627.24x1 lm |       |                  |
| NAME: ASD-UCS-24D12CC-BZ                                                        | TYPE: | WEIGHT:          |
| SPEC.:4000K                                                                     | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                         | SUR.: | Shielding Angle: |

| DATA OF LAMP     |                    | PHOTOMETRIC DATA Eff: 55.11 lm/W |        |                    |          |
|------------------|--------------------|----------------------------------|--------|--------------------|----------|
| MODEL            | ASD-UCS-24D12CC-BZ | I <sub>max</sub> (cd)            | 221.5  | S/MH(C0/180)       | 1.32     |
| NOMINAL POWER(W) | 12                 | LOR(%)                           | 165.2  | S/MH(C90/270)      | 1.20     |
| RATED VOLTAGE(V) | 120                | TOTAL FLUX(lm)                   | 627.24 | h UP, DN(C0-180)   | 0.5,82.8 |
| NOMINAL FLUX(lm) | 627.24             | CIE CLASS                        | DIRECT | h UP, DN(C180-360) | 0.4,81.4 |
| LAMPS INSIDE     | 1                  | h up(%)                          | 1.0    | CIBSE SHR NOM      | 1.50     |
| TEST VOLTAGE(V)  | 120                | h down(%)                        | 164.2  | CIBSE SHR MAX      | 1.50     |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:  
Test Date:09 October 2020

g Range: 0 - 180DEG  
g Interval: 0.5DEG  
Test System:EVERFINE G0-SPEX500\_V1 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:3.010m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

**ZONAL FLUX DIAGRAM:**

| g   | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | g       | F zone   | F total | %lum, lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|----------|---------|------------|
| 10  | 209.3                 | 215.3  | 214.8  | 218.1  | 221.0  | 216.0  | 213.9  | 214.8  | 0- 10   | 20.78    | 20.78   | 3.31,5.47  |
| 20  | 191.6                 | 204.1  | 200.1  | 209.6  | 213.5  | 205.0  | 199.3  | 203.8  | 10- 20  | 59.60    | 80.37   | 12.8,21.2  |
| 30  | 168.1                 | 185.9  | 177.4  | 195.2  | 197.1  | 187.5  | 176.6  | 187.1  | 20- 30  | 90.64    | 171.0   | 27.3,45    |
| 40  | 140.8                 | 162.1  | 149.2  | 176.0  | 173.0  | 164.7  | 148.3  | 164.9  | 30- 40  | 109.6    | 280.6   | 44.7,73.9  |
| 50  | 110.7                 | 131.4  | 117.5  | 151.6  | 141.8  | 136.7  | 116.3  | 131.1  | 40- 50  | 113.8    | 394.4   | 62.9,104   |
| 60  | 79.30                 | 94.31  | 84.38  | 120.1  | 105.5  | 103.1  | 82.12  | 93.04  | 50- 60  | 102.0    | 496.4   | 79.1,131   |
| 70  | 48.29                 | 56.90  | 50.24  | 74.25  | 65.91  | 61.58  | 47.14  | 55.10  | 60- 70  | 76.27    | 572.6   | 91.3,151   |
| 80  | 19.71                 | 22.58  | 18.26  | 29.14  | 27.60  | 21.95  | 15.41  | 19.87  | 70- 80  | 41.62    | 614.3   | 97.9,162   |
| 90  | 0.2982                | 0.4492 | 0.1660 | 0.3932 | 0.3498 | 0.3609 | 0.1353 | 0.3929 | 80- 90  | 9.308    | 623.6   | 99.4,164   |
| 100 | 0.4020                | 0.3618 | 0.2692 | 0.3232 | 0.2130 | 0.2456 | 0.2552 | 0.3571 | 90-100  | 0.2989   | 623.9   | 99.5,164   |
| 110 | 0.6208                | 0.5807 | 0.4729 | 0.4748 | 0.3515 | 0.4235 | 0.4386 | 0.5867 | 100-110 | 0.4225   | 624.3   | 99.5,164   |
| 120 | 0.7930                | 0.7741 | 0.6596 | 0.6489 | 0.4759 | 0.5763 | 0.6207 | 0.7552 | 110-120 | 0.5834   | 624.9   | 99.6,165   |
| 130 | 0.8093                | 0.8705 | 0.7793 | 0.7766 | 0.5557 | 0.6922 | 0.7419 | 0.8423 | 120-130 | 0.6457   | 625.5   | 99.7,165   |
| 140 | 0.7429                | 0.9692 | 0.8625 | 0.8967 | 0.5948 | 0.7449 | 0.8022 | 0.8240 | 130-140 | 0.6094   | 626.1   | 99.8,165   |
| 150 | 0.6840                | 0.9862 | 0.9686 | 0.9345 | 0.6078 | 0.7199 | 0.8082 | 0.7050 | 140-150 | 0.5092   | 626.6   | 99.9,165   |
| 160 | 0.6011                | 0.8081 | 0.8973 | 0.8631 | 0.5686 | 0.6240 | 0.5930 | 0.5669 | 150-160 | 0.3538   | 627.0   | 100,165    |
| 170 | 0.5376                | 0.7104 | 0.6673 | 0.8174 | 0.5389 | 0.5859 | 0.5568 | 0.6261 | 160-170 | 0.1869   | 627.2   | 100,165    |
| 180 | 0.5763                | 0.7192 | 0.7367 | 0.8137 | 0.5730 | 0.7170 | 0.7376 | 0.8071 | 170-180 | 0.0624   | 627.2   | 100,165    |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |         | UNIT: lm |         |            |

**C Range:** 0 - 360DEG  
**C Interval:** 15.0DEG  
**Test Speed:** MEDIUM  
**Temperature:** 25.3DEG  
**Operators:**  
**Test Date:** 09 October 2020

**g Range:** 0 - 180DEG  
**g Interval:** 0.5DEG  
**Test System:** EVERFINE G0-SPEX500\_V1 SYSTEM V2.0.402  
**Humidity:** 65.0%  
**Test Distance:** 3.010m [K=1.0000]  
**Remarks:**

### UGR(Unified Glare Rating) Table

|                                                                                 |               |                  |      |      |       |               |                |                  |      |      |      |
|---------------------------------------------------------------------------------|---------------|------------------|------|------|-------|---------------|----------------|------------------|------|------|------|
| Test:U:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:627.24x1 lm |               |                  |      |      |       |               |                |                  |      |      |      |
| NAME: ASD-UCS-24D12CC-BZ                                                        |               |                  |      |      | TYPE: |               |                | WEIGHT:          |      |      |      |
| SPEC.:4000K                                                                     |               |                  |      |      | DIM.: |               |                | SERIAL No.:      |      |      |      |
| MFR.: ASD Lighting Corp                                                         |               |                  |      |      | SUR.: |               |                | Shielding Angle: |      |      |      |
| ceiling/cavity                                                                  | 0.7           | 0.7              | 0.5  | 0.5  | 0.3   | 0.7           | 0.7            | 0.5              | 0.5  | 0.3  |      |
| walls                                                                           | 0.5           | 0.3              | 0.5  | 0.3  | 0.3   | 0.5           | 0.3            | 0.5              | 0.3  | 0.3  |      |
| working plane                                                                   | 0.2           | 0.2              | 0.2  | 0.2  | 0.2   | 0.2           | 0.2            | 0.2              | 0.2  | 0.2  |      |
| Room dimensions                                                                 |               | Viewed crosswise |      |      |       |               | Viewed endwise |                  |      |      |      |
| x = 2H y = 2H                                                                   | 9.5           | 11.0             | 9.7  | 11.2 | 11.4  | 9.1           | 10.6           | 9.4              | 10.8 | 11.0 |      |
|                                                                                 | 3H            | 10.9             | 12.3 | 11.2 | 12.6  | 12.8          | 10.4           | 11.8             | 10.7 | 12.1 | 12.3 |
|                                                                                 | 4H            | 11.5             | 12.8 | 11.8 | 13.1  | 13.3          | 10.9           | 12.3             | 11.3 | 12.5 | 12.8 |
|                                                                                 | 6H            | 11.9             | 13.1 | 12.2 | 13.4  | 13.7          | 11.2           | 12.5             | 11.6 | 12.8 | 13.1 |
|                                                                                 | 8H            | 12.0             | 13.2 | 12.3 | 13.5  | 13.8          | 11.3           | 12.5             | 11.7 | 12.8 | 13.1 |
|                                                                                 | 12H           | 12.1             | 13.2 | 12.4 | 13.5  | 13.8          | 11.3           | 12.5             | 11.7 | 12.8 | 13.1 |
| 4H                                                                              | 2H            | 10.0             | 11.3 | 10.3 | 11.6  | 11.9          | 9.7            | 11.1             | 10.1 | 11.3 | 11.6 |
|                                                                                 | 3H            | 11.7             | 12.8 | 12.0 | 13.1  | 13.4          | 11.3           | 12.4             | 11.6 | 12.7 | 13.0 |
|                                                                                 | 4H            | 12.4             | 13.4 | 12.7 | 13.8  | 14.1          | 11.9           | 12.9             | 12.3 | 13.3 | 13.6 |
|                                                                                 | 6H            | 12.9             | 13.8 | 13.3 | 14.2  | 14.6          | 12.3           | 13.2             | 12.7 | 13.6 | 14.0 |
|                                                                                 | 8H            | 13.1             | 14.0 | 13.5 | 14.3  | 14.7          | 12.4           | 13.3             | 12.8 | 13.7 | 14.1 |
|                                                                                 | 12H           | 13.2             | 14.0 | 13.6 | 14.4  | 14.8          | 12.5           | 13.3             | 12.9 | 13.6 | 14.1 |
| 8H                                                                              | 4H            | 12.6             | 13.5 | 13.0 | 13.8  | 14.2          | 12.2           | 13.0             | 12.6 | 13.4 | 13.8 |
|                                                                                 | 6H            | 13.3             | 14.0 | 13.7 | 14.4  | 14.8          | 12.7           | 13.4             | 13.2 | 13.9 | 14.3 |
|                                                                                 | 8H            | 13.5             | 14.2 | 14.0 | 14.6  | 15.1          | 12.9           | 13.5             | 13.4 | 14.0 | 14.4 |
|                                                                                 | 12H           | 13.7             | 14.3 | 14.2 | 14.7  | 15.2          | 13.0           | 13.5             | 13.5 | 14.0 | 14.5 |
| 12H                                                                             | 4H            | 12.6             | 13.4 | 13.0 | 13.8  | 14.2          | 12.2           | 13.0             | 12.6 | 13.4 | 13.8 |
|                                                                                 | 6H            | 13.3             | 13.9 | 13.8 | 14.4  | 14.8          | 12.8           | 13.4             | 13.2 | 13.8 | 14.3 |
|                                                                                 | 8H            | 13.6             | 14.2 | 14.1 | 14.6  | 15.1          | 13.0           | 13.5             | 13.5 | 14.0 | 14.5 |
| Variations with the observer position at spacings:                              |               |                  |      |      |       |               |                |                  |      |      |      |
| S = 1.0H                                                                        | + 0.2 / - 0.2 |                  |      |      |       | + 0.2 / - 0.2 |                |                  |      |      |      |
| 1.5H                                                                            | + 0.2 / - 0.4 |                  |      |      |       | + 0.2 / - 0.3 |                |                  |      |      |      |
| 2.0H                                                                            | + 0.2 / - 0.4 |                  |      |      |       | + 0.2 / - 0.3 |                |                  |      |      |      |

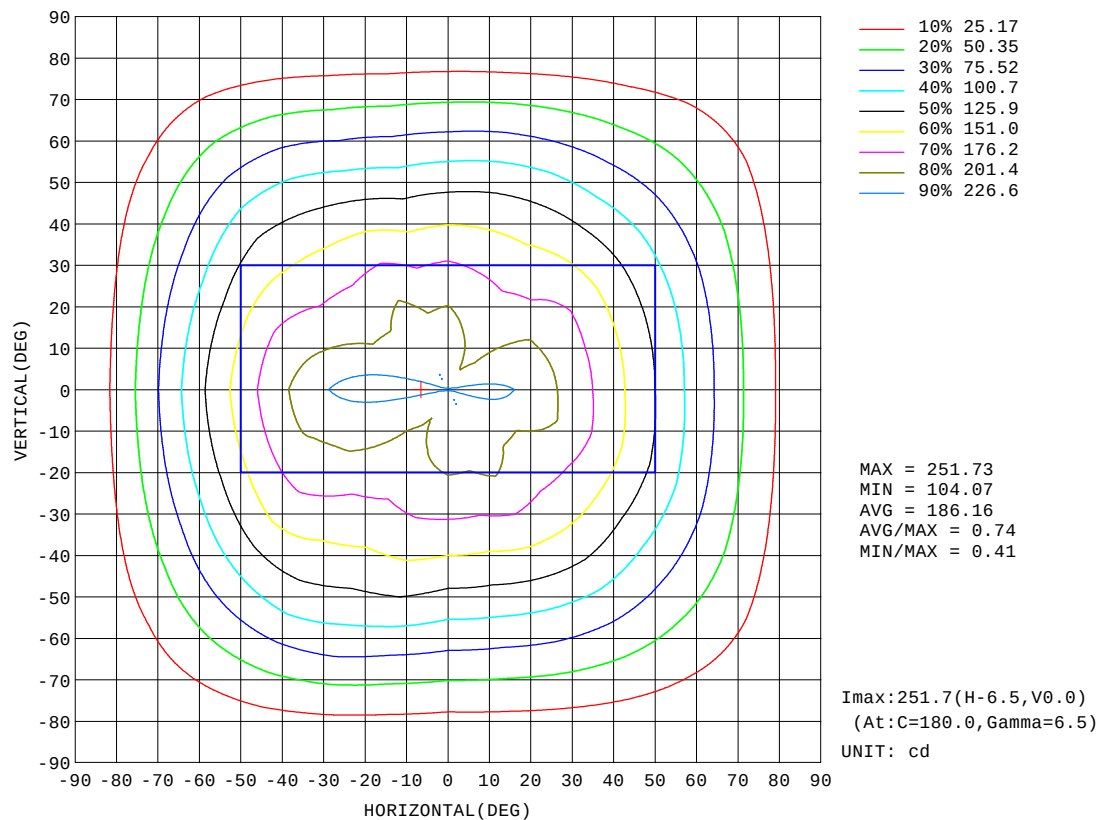
CIE Pub.117, 379.8 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.4)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09 October 2020

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:3.010m [K=1.0000]  
 Remarks:

### ISOCANDELA DIAGRAM

|                                                                                 |       |                  |
|---------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:627.24x1 lm |       |                  |
| NAME: ASD-UCS-24D12CC-BZ                                                        | TYPE: | WEIGHT:          |
| SPEC.:4000K                                                                     | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                         | SUR.: | Shielding Angle: |

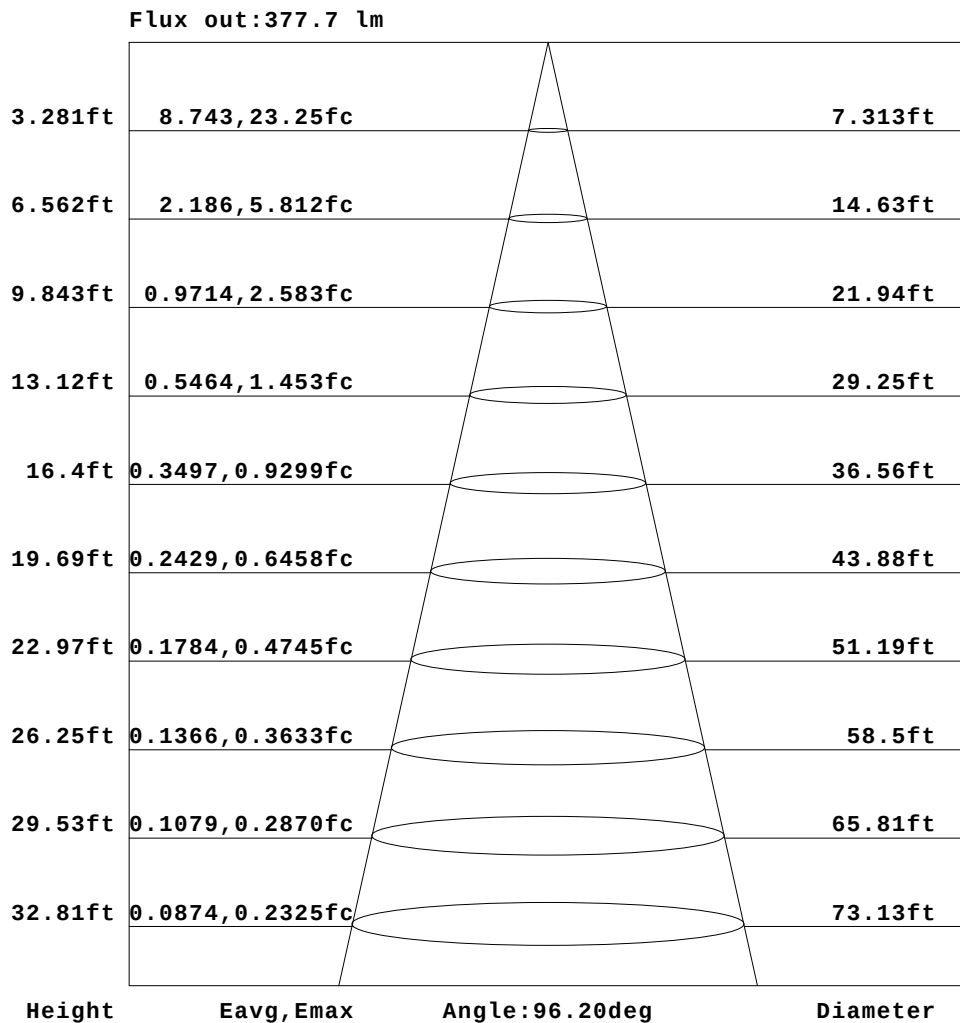


**C Range: 0 - 360DEG**  
**C Interval: 15.0DEG**  
**Test Speed: MEDIUM**  
**Temperature:25.3DEG**  
**Operators:**  
**Test Date:09 October 2020**

**g Range: 0 - 180DEG**  
**g Interval: 0.5DEG**  
**Test System:EVERFINE G0-SPEX500\_V1 SYSTEM V2.0.402**  
**Humidity:65.0%**  
**Test Distance:3.010m [K=1.0000]**  
**Remarks:**

### AAI Figure

|                                                                                 |       |                  |
|---------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:627.24x1 lm |       |                  |
| NAME: ASD-UCS-24D12CC-BZ                                                        | TYPE: | WEIGHT:          |
| SPEC.:4000K                                                                     | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                         | SUR.: | Shielding Angle: |



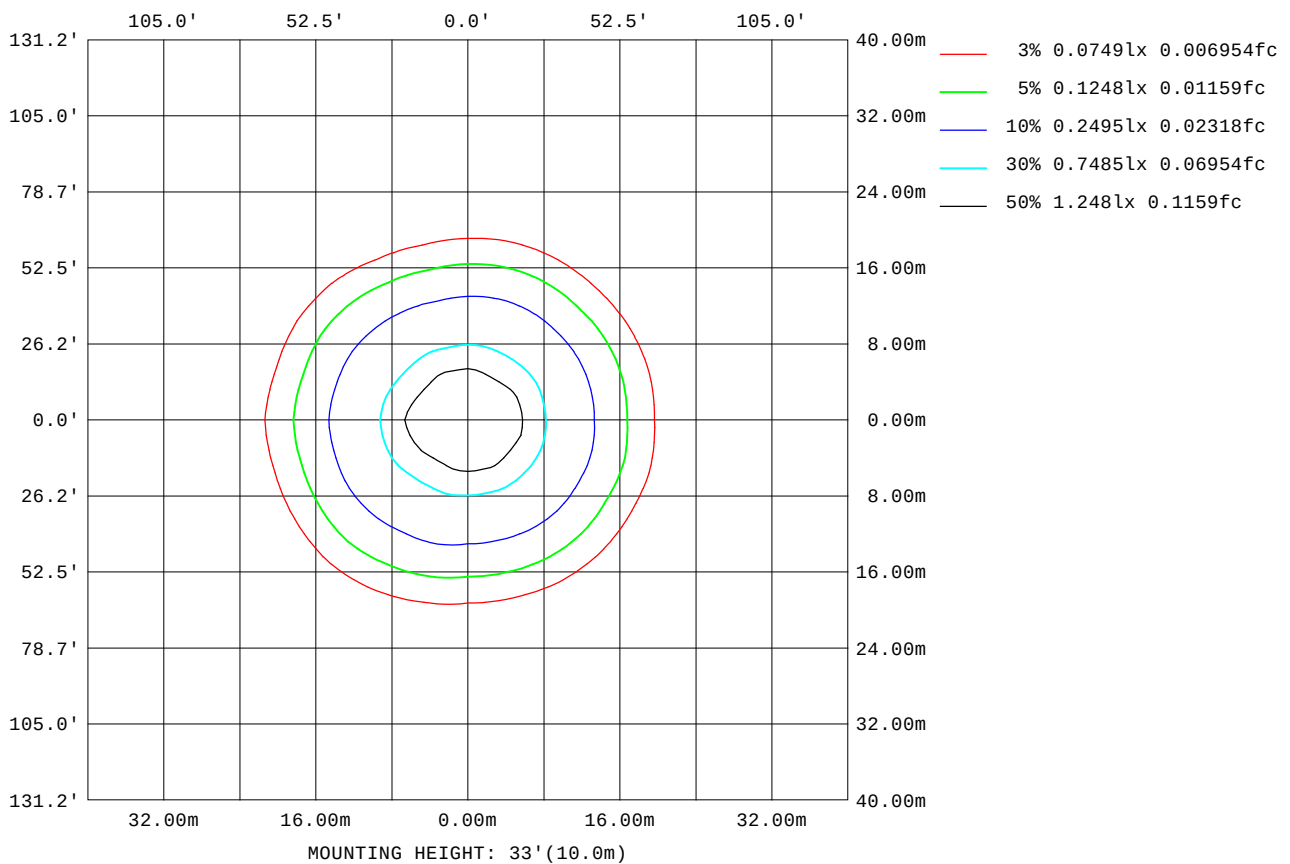
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09 October 2020

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE G0-SPEX500\_V1 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:3.010m [K=1.0000]  
 Remarks:

### ISOLUX DIAGRAM

|                                                                                 |       |                  |
|---------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:627.24x1 lm |       |                  |
| NAME: ASD-UCS-24D12CC-BZ                                                        | TYPE: | WEIGHT:          |
| SPEC.:4000K                                                                     | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                         | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09 October 2020

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE G0-SPEX500\_V1 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:3.010m [K=1.0000]  
 Remarks:

### LED Avg.L Report

|                                                                                 |       |                  |
|---------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:627.24x1 lm |       |                  |
| NAME: ASD-UCS-24D12CC-BZ                                                        | TYPE: | WEIGHT:          |
| SPEC.:4000K                                                                     | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                         | SUR.: | Shielding Angle: |

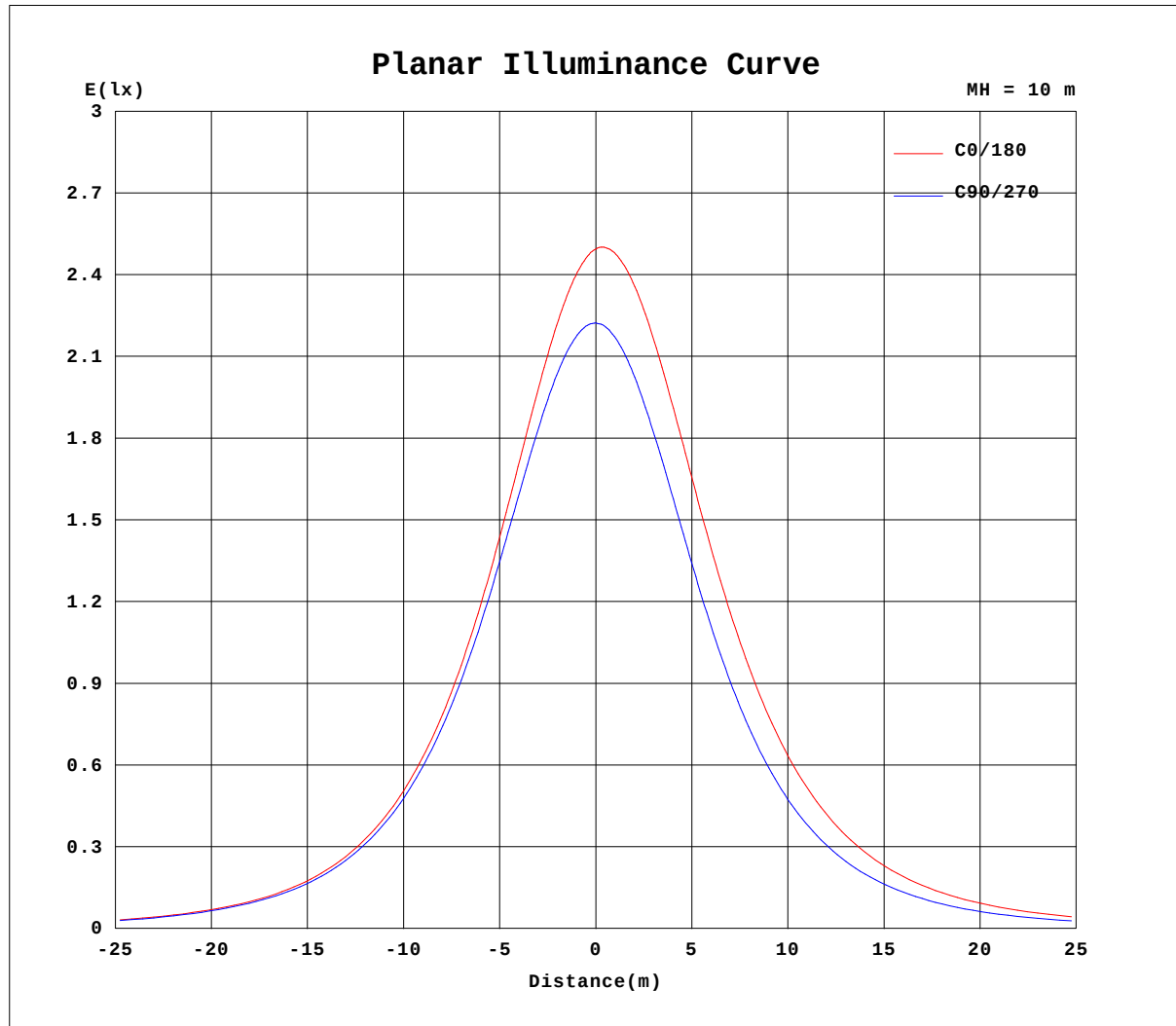
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 355   |
| L_0~180(75)av  | 307   |
| L_0~180(85)av  | 227   |
| L_90~270(65)av | 312   |
| L_90~270(75)av | 247   |
| L_90~270(85)av | 93    |
| L_45(65)av     | 391   |
| L_45(75)av     | 324   |
| L_45(85)av     | 174   |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:09 October 2020

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE G0-SPEX500\_V1 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:3.010m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 09 October 2020

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System: EVERFINE G0-SPEX500\_V1 SYSTEM V2.0.402  
 Humidity: 65.0%  
 Test Distance: 3.010m [K=1.0000]  
 Remarks:



**LUMINOUS DISTRIBUTION INTENSITY DATA**

|                                                                                 |       |                  |
|---------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:627.24x1 lm |       |                  |
| NAME: ASD-UCS-24D12CC-BZ                                                        | TYPE: | WEIGHT:          |
| SPEC.:4000K                                                                     | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                         | SUR.: | Shielding Angle: |

**Table--1**
**UNIT: cd**

| C( DEG)<br>g (DEG) | 0    | 15   | 30   | 45   | 60   | 75   | 90   | 105  | 120  | 135   | 150  | 165  | 180  | 195  | 210  | 225  | 240  | 255  | 270  |
|--------------------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| 0                  | 220  | 220  | 220  | 220  | 220  | 220  | 220  | 220  | 220  | 220   | 220  | 220  | 220  | 220  | 220  | 220  | 220  | 220  | 220  |
| 5                  | 215  | 219  | 218  | 218  | 218  | 219  | 218  | 219  | 219  | 219   | 220  | 220  | 221  | 219  | 219  | 219  | 219  | 218  | 218  |
| 10                 | 209  | 216  | 216  | 215  | 215  | 215  | 215  | 216  | 217  | 218   | 218  | 219  | 221  | 217  | 217  | 216  | 215  | 214  | 214  |
| 15                 | 201  | 212  | 211  | 210  | 209  | 209  | 209  | 212  | 213  | 215   | 215  | 218  | 218  | 214  | 213  | 211  | 210  | 207  | 207  |
| 20                 | 192  | 207  | 205  | 204  | 201  | 201  | 200  | 206  | 207  | 210   | 211  | 215  | 213  | 209  | 208  | 205  | 202  | 199  | 199  |
| 25                 | 180  | 199  | 198  | 196  | 191  | 191  | 190  | 197  | 200  | 203   | 206  | 212  | 206  | 203  | 201  | 197  | 193  | 188  | 189  |
| 30                 | 168  | 187  | 189  | 186  | 180  | 179  | 177  | 187  | 191  | 195   | 199  | 208  | 197  | 196  | 193  | 188  | 181  | 176  | 177  |
| 35                 | 155  | 172  | 178  | 175  | 166  | 165  | 164  | 176  | 180  | 186   | 191  | 204  | 186  | 188  | 183  | 177  | 167  | 162  | 163  |
| 40                 | 141  | 157  | 165  | 162  | 152  | 151  | 149  | 163  | 169  | 176   | 182  | 192  | 173  | 178  | 173  | 165  | 152  | 147  | 148  |
| 45                 | 126  | 141  | 148  | 148  | 136  | 135  | 134  | 150  | 156  | 165   | 171  | 176  | 158  | 166  | 161  | 151  | 136  | 132  | 133  |
| 50                 | 111  | 125  | 131  | 131  | 120  | 119  | 117  | 134  | 142  | 152   | 156  | 157  | 142  | 148  | 147  | 137  | 120  | 115  | 116  |
| 55                 | 95.1 | 108  | 112  | 113  | 103  | 103  | 101  | 117  | 127  | 137   | 136  | 137  | 124  | 128  | 132  | 121  | 103  | 98.3 | 99.4 |
| 60                 | 79.3 | 90.4 | 93.3 | 94.3 | 86.9 | 85.7 | 84.4 | 97.5 | 110  | 120   | 114  | 115  | 106  | 108  | 113  | 103  | 85.1 | 81.7 | 82.1 |
| 65                 | 64.0 | 73.0 | 75.9 | 75.5 | 69.4 | 68.5 | 67.4 | 78.0 | 91.8 | 97.8  | 92.0 | 92.8 | 85.9 | 86.7 | 90.9 | 83.0 | 67.1 | 64.3 | 64.6 |
| 70                 | 48.3 | 55.7 | 57.5 | 56.9 | 52.1 | 51.3 | 50.2 | 58.6 | 70.6 | 74.3  | 70.1 | 70.0 | 65.9 | 65.7 | 68.2 | 61.6 | 49.4 | 46.7 | 47.1 |
| 75                 | 33.4 | 39.1 | 39.8 | 39.0 | 35.4 | 34.7 | 33.6 | 39.7 | 48.0 | 51.0  | 47.8 | 47.5 | 46.1 | 44.6 | 46.2 | 40.9 | 32.3 | 30.0 | 30.2 |
| 80                 | 19.7 | 23.8 | 23.5 | 22.6 | 19.9 | 19.4 | 18.3 | 22.2 | 27.1 | 29.1  | 26.9 | 26.7 | 27.6 | 25.2 | 25.8 | 21.9 | 16.8 | 15.2 | 15.4 |
| 85                 | 8.14 | 10.7 | 9.48 | 8.41 | 6.80 | 6.28 | 5.57 | 7.26 | 9.10 | 10.37 | 9.18 | 9.17 | 11.7 | 8.67 | 8.03 | 5.51 | 3.31 | 2.34 | 2.51 |
| 90                 | 0.30 | 0.67 | 0.52 | 0.45 | 0.35 | 0.27 | 0.17 | 0.21 | 0.31 | 0.39  | 0.46 | 0.39 | 0.35 | 0.18 | 0.44 | 0.36 | 0.27 | 0.21 | 0.14 |
| 95                 | 0.30 | 0.32 | 0.38 | 0.36 | 0.30 | 0.26 | 0.20 | 0.22 | 0.29 | 0.34  | 0.30 | 0.26 | 0.15 | 0.18 | 0.20 | 0.17 | 0.16 | 0.18 | 0.18 |
| 100                | 0.40 | 0.40 | 0.40 | 0.36 | 0.33 | 0.31 | 0.27 | 0.28 | 0.30 | 0.32  | 0.30 | 0.30 | 0.21 | 0.25 | 0.27 | 0.25 | 0.24 | 0.26 | 0.26 |
| 105                | 0.51 | 0.51 | 0.51 | 0.48 | 0.41 | 0.38 | 0.37 | 0.38 | 0.38 | 0.39  | 0.37 | 0.37 | 0.28 | 0.33 | 0.35 | 0.33 | 0.31 | 0.34 | 0.35 |
| 110                | 0.62 | 0.63 | 0.63 | 0.58 | 0.52 | 0.49 | 0.47 | 0.49 | 0.48 | 0.47  | 0.45 | 0.46 | 0.35 | 0.41 | 0.43 | 0.42 | 0.40 | 0.43 | 0.44 |
| 115                | 0.72 | 0.74 | 0.74 | 0.69 | 0.62 | 0.59 | 0.57 | 0.60 | 0.58 | 0.56  | 0.54 | 0.54 | 0.42 | 0.48 | 0.51 | 0.50 | 0.48 | 0.52 | 0.53 |
| 120                | 0.79 | 0.83 | 0.83 | 0.77 | 0.70 | 0.69 | 0.66 | 0.69 | 0.67 | 0.65  | 0.62 | 0.61 | 0.48 | 0.54 | 0.58 | 0.58 | 0.55 | 0.60 | 0.62 |
| 125                | 0.82 | 0.87 | 0.88 | 0.83 | 0.75 | 0.75 | 0.73 | 0.75 | 0.74 | 0.72  | 0.67 | 0.67 | 0.53 | 0.59 | 0.64 | 0.64 | 0.61 | 0.65 | 0.67 |
| 130                | 0.81 | 0.88 | 0.93 | 0.87 | 0.79 | 0.80 | 0.78 | 0.80 | 0.80 | 0.78  | 0.73 | 0.71 | 0.56 | 0.62 | 0.68 | 0.69 | 0.66 | 0.72 | 0.74 |
| 135                | 0.78 | 0.86 | 0.96 | 0.92 | 0.83 | 0.84 | 0.83 | 0.85 | 0.85 | 0.84  | 0.77 | 0.75 | 0.58 | 0.64 | 0.70 | 0.73 | 0.70 | 0.76 | 0.79 |
| 140                | 0.74 | 0.83 | 0.97 | 0.97 | 0.88 | 0.89 | 0.86 | 0.89 | 0.91 | 0.90  | 0.80 | 0.76 | 0.59 | 0.65 | 0.72 | 0.74 | 0.73 | 0.79 | 0.80 |
| 145                | 0.72 | 0.80 | 0.93 | 0.99 | 0.93 | 0.95 | 0.93 | 0.96 | 0.97 | 0.93  | 0.81 | 0.77 | 0.60 | 0.65 | 0.71 | 0.74 | 0.74 | 0.80 | 0.82 |
| 150                | 0.68 | 0.76 | 0.89 | 0.99 | 0.94 | 0.99 | 0.97 | 0.98 | 1.00 | 0.93  | 0.82 | 0.78 | 0.61 | 0.65 | 0.70 | 0.72 | 0.72 | 0.80 | 0.81 |
| 155                | 0.65 | 0.74 | 0.82 | 0.91 | 0.93 | 1.00 | 0.98 | 0.99 | 0.99 | 0.91  | 0.81 | 0.78 | 0.59 | 0.63 | 0.69 | 0.67 | 0.66 | 0.73 | 0.74 |
| 160                | 0.60 | 0.71 | 0.75 | 0.81 | 0.83 | 0.89 | 0.90 | 0.92 | 0.94 | 0.86  | 0.79 | 0.77 | 0.57 | 0.61 | 0.64 | 0.62 | 0.60 | 0.62 | 0.59 |
| 165                | 0.54 | 0.64 | 0.70 | 0.72 | 0.72 | 0.75 | 0.77 | 0.83 | 0.86 | 0.83  | 0.76 | 0.72 | 0.52 | 0.57 | 0.60 | 0.60 | 0.56 | 0.56 | 0.51 |
| 170                | 0.54 | 0.62 | 0.72 | 0.71 | 0.65 | 0.69 | 0.67 | 0.75 | 0.82 | 0.82  | 0.76 | 0.72 | 0.54 | 0.58 | 0.61 | 0.59 | 0.54 | 0.53 | 0.56 |
| 175                | 0.54 | 0.61 | 0.69 | 0.71 | 0.68 | 0.72 | 0.67 | 0.74 | 0.81 | 0.81  | 0.74 | 0.70 | 0.54 | 0.58 | 0.61 | 0.63 | 0.58 | 0.58 | 0.61 |
| 180                | 0.58 | 0.63 | 0.68 | 0.72 | 0.65 | 0.72 | 0.74 | 0.71 | 0.77 | 0.81  | 0.75 | 0.72 | 0.57 | 0.63 | 0.69 | 0.72 | 0.66 | 0.72 | 0.74 |

**C Range: 0 - 360DEG**
**C Interval: 15.0DEG**
**Test Speed: MEDIUM**
**Temperature:25.3DEG**
**Operators:**
**Test Date:09 October 2020**
**g Range: 0 - 180DEG**
**g Interval: 0.5DEG**
**Test System:EVERFINE G0-SPEX500\_V1 SYSTEM V2.0.402**
**Humidity:65.0%**
**Test Distance:3.010m [K=1.0000]**
**Remarks:**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

|                                                                                 |       |                  |
|---------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:627.24x1 lm |       |                  |
| NAME: ASD-UCS-24D12CC-BZ                                                        | TYPE: | WEIGHT:          |
| SPEC.:4000K                                                                     | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                         | SUR.: | Shielding Angle: |

**Table--2**
**UNIT: cd**

| C(DEG)<br>g (DEG) | 285  | 300  | 315  | 330  | 345  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 220  | 220  | 220  | 220  | 220  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 218  | 218  | 218  | 218  | 218  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 214  | 215  | 215  | 215  | 216  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 209  | 209  | 210  | 211  | 213  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 201  | 203  | 204  | 206  | 209  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 192  | 194  | 196  | 199  | 202  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 181  | 185  | 187  | 189  | 190  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 169  | 174  | 177  | 176  | 175  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 156  | 161  | 165  | 159  | 159  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 142  | 148  | 150  | 143  | 143  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 126  | 132  | 131  | 126  | 126  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 108  | 114  | 112  | 108  | 109  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 89.5 | 94.0 | 93.0 | 90.3 | 91.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 70.4 | 74.2 | 74.1 | 72.4 | 74.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 51.4 | 54.6 | 55.1 | 54.8 | 57.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 32.8 | 35.8 | 37.0 | 37.9 | 40.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 16.1 | 18.5 | 19.9 | 22.4 | 24.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 2.51 | 4.23 | 6.10 | 8.55 | 11.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 0.23 | 0.31 | 0.39 | 0.41 | 0.83 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 0.21 | 0.23 | 0.25 | 0.25 | 0.26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 0.30 | 0.33 | 0.36 | 0.35 | 0.36 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 0.40 | 0.44 | 0.47 | 0.46 | 0.47 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 0.50 | 0.55 | 0.59 | 0.56 | 0.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 0.59 | 0.65 | 0.68 | 0.66 | 0.68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 0.68 | 0.73 | 0.76 | 0.75 | 0.75 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 0.72 | 0.78 | 0.81 | 0.76 | 0.77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 0.80 | 0.83 | 0.84 | 0.77 | 0.77 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 0.83 | 0.85 | 0.83 | 0.75 | 0.74 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 0.84 | 0.86 | 0.82 | 0.71 | 0.71 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 0.84 | 0.85 | 0.79 | 0.67 | 0.68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 0.82 | 0.80 | 0.70 | 0.63 | 0.64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 0.72 | 0.69 | 0.62 | 0.60 | 0.61 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 0.60 | 0.59 | 0.57 | 0.55 | 0.58 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 0.57 | 0.57 | 0.58 | 0.54 | 0.56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 0.58 | 0.61 | 0.63 | 0.61 | 0.63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 0.64 | 0.65 | 0.68 | 0.68 | 0.68 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 0.71 | 0.78 | 0.81 | 0.74 | 0.72 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**C Range: 0 - 360DEG**  
**C Interval: 15.0DEG**  
**Test Speed: MEDIUM**  
**Temperature:25.3DEG**  
**Operators:**  
**Test Date:09 October 2020**

**g Range: 0 - 180DEG**  
**g Interval: 0.5DEG**  
**Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402**  
**Humidity:65.0%**  
**Test Distance:3.010m [K=1.0000]**  
**Remarks:**