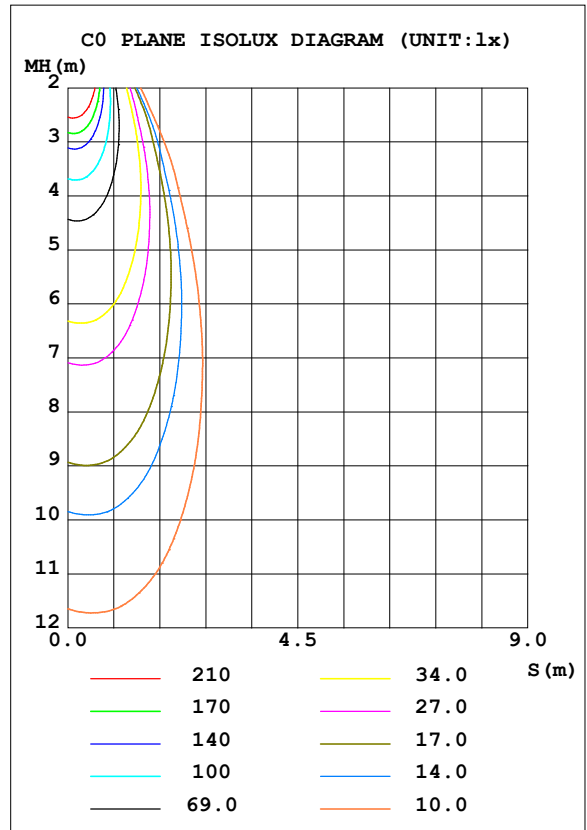
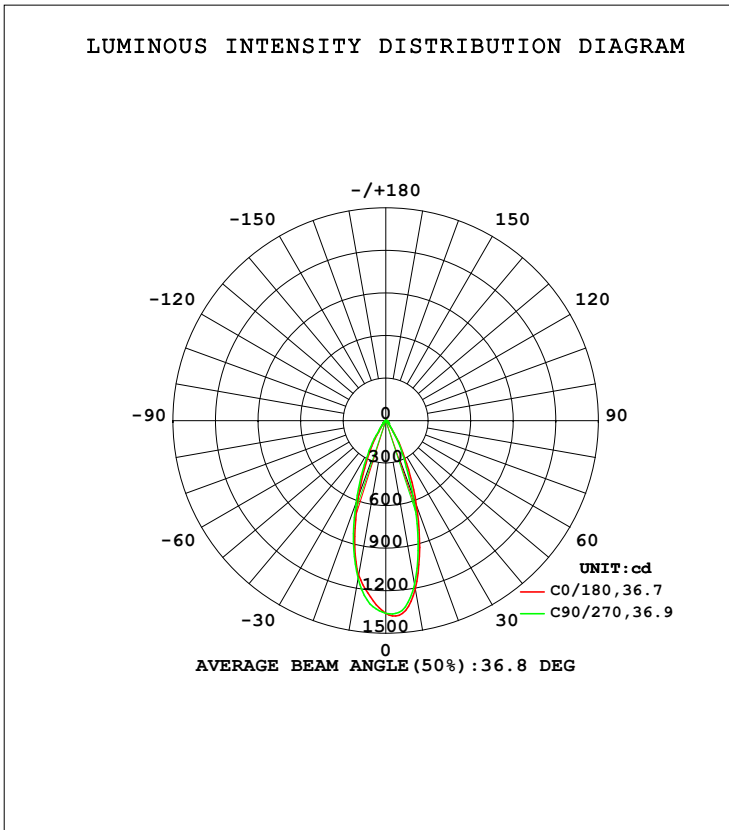


**LUMINAIRE PHOTOMETRIC TEST REPORT**

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.: | Shielding Angle: |

| DATA OF LAMP      |         | PHOTOMETRIC DATA Eff: 82.69 lm/W  |        |  |           |
|-------------------|---------|-----------------------------------|--------|--|-----------|
| MODEL             |         | I <sub>max</sub> (cd)             | 1382   | S/MH (C0/180)                              | 0.59      |
| NOMINAL POWER (W) | 8       | LOR (%)                           | 100.0  | S/MH (C90/270)                             | 0.61      |
| RATED VOLTAGE (V) | 120     | TOTAL FLUX (lm)                   | 640.68 | <input type="checkbox"/> UP, DN (C0-180)   | 0.0, 51.6 |
| NOMINAL FLUX (lm) | 640.679 | CIE CLASS                         | DIRECT | <input type="checkbox"/> UP, DN (C180-360) | 0.0, 48.4 |
| LAMPS INSIDE      | 1       | <input type="checkbox"/> up (%)   | 0.0    | CIBSE SHR NOM                              | 0.50      |
| TEST VOLTAGE (V)  | 120     | <input type="checkbox"/> down (%) | 100.0  | CIBSE SHR MAX                              | 0.65      |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-10-19

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 3.080m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

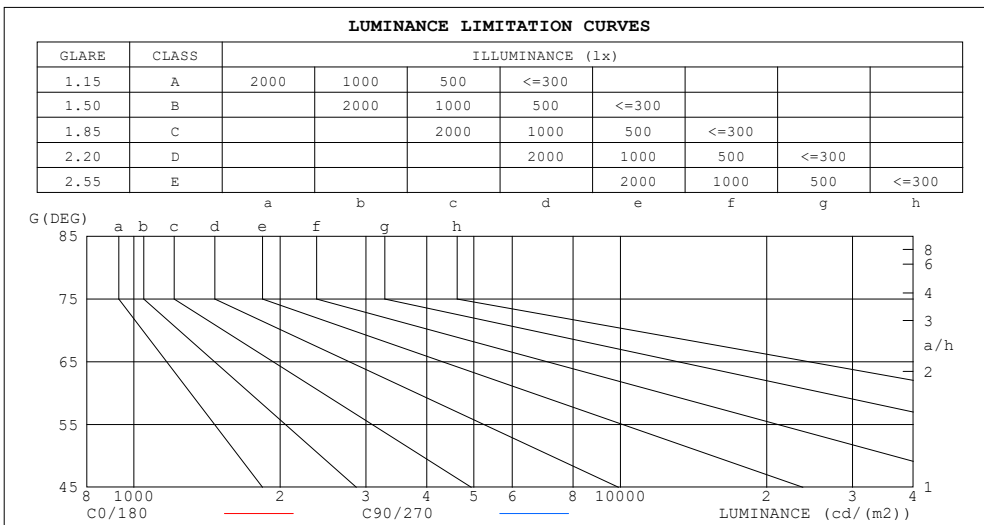
| °   | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | °       | □ zone  | □ total | %lum, lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|------------|
| 10  | 1205                  | 1204   | 1172   | 1118   | 1104   | 1111   | 1129   | 1190   | 0- 10   | 120.3   | 120.3   | 18.8,18.8  |
| 20  | 632.5                 | 705.4  | 564.8  | 561.5  | 561.0  | 535.7  | 612.5  | 645.7  | 10- 20  | 243.0   | 363.3   | 56.7,56.7  |
| 30  | 205.3                 | 257.7  | 184.2  | 192.5  | 182.9  | 167.3  | 214.3  | 217.2  | 20- 30  | 169.5   | 532.8   | 83.2,83.2  |
| 40  | 40.62                 | 48.41  | 42.68  | 40.33  | 38.19  | 39.17  | 43.66  | 42.24  | 30- 40  | 58.40   | 591.2   | 92.3,92.3  |
| 50  | 22.78                 | 22.62  | 22.15  | 21.82  | 21.65  | 21.66  | 22.10  | 22.64  | 40- 50  | 23.19   | 614.3   | 95.9,95.9  |
| 60  | 11.97                 | 11.90  | 11.47  | 11.35  | 11.24  | 11.26  | 10.82  | 11.77  | 50- 60  | 14.54   | 628.9   | 98.2,98.2  |
| 70  | 6.411                 | 5.655  | 4.623  | 5.243  | 5.750  | 5.186  | 4.469  | 5.507  | 60- 70  | 8.175   | 637.1   | 99.4,99.4  |
| 80  | 2.467                 | 1.160  | 0.5159 | 0.9828 | 2.049  | 1.002  | 0.4867 | 1.056  | 70- 80  | 3.300   | 640.4   | 100,100    |
| 90  | 0.0127                | 0.0090 | 0.0073 | 0.0053 | 0.0194 | 0.0124 | 0.0140 | 0.0120 | 80- 90  | 0.3201  | 640.7   | 100,100    |
| 100 |                       |        |        |        |        |        |        |        | 90-100  |         |         |            |
| 110 |                       |        |        |        |        |        |        |        | 100-110 |         |         |            |
| 120 |                       |        |        |        |        |        |        |        | 110-120 |         |         |            |
| 130 |                       |        |        |        |        |        |        |        | 120-130 |         |         |            |
| 140 |                       |        |        |        |        |        |        |        | 130-140 |         |         |            |
| 150 |                       |        |        |        |        |        |        |        | 140-150 |         |         |            |
| 160 |                       |        |        |        |        |        |        |        | 150-160 |         |         |            |
| 170 |                       |        |        |        |        |        |        |        | 160-170 |         |         |            |
| 180 |                       |        |        |        |        |        |        |        | 170-180 |         |         |            |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |         | UNIT:lm |         |            |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-19

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 44     | 5       |
| 80                | 128    | 27      |
| 75                | 148    | 78      |
| 70                | 169    | 122     |
| 65                | 192    | 164     |
| 60                | 215    | 206     |
| 55                | 260    | 251     |
| 50                | 319    | 310     |
| 45                | 376    | 369     |

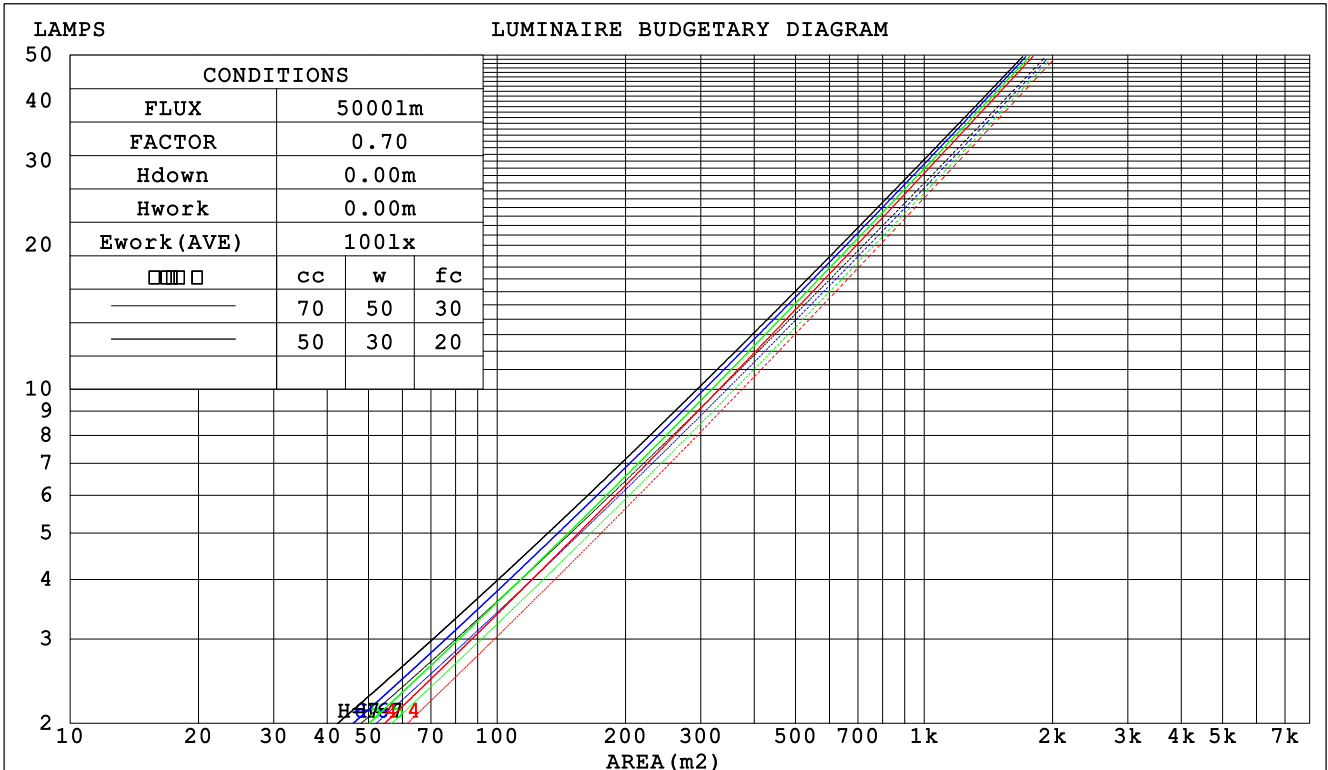
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-19

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.: | Shielding Angle: |

|      |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |      |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|------|
| □cc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0    |
| □w   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0    |
| □fc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0    |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |
| 0.0  | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11                            | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1.0  | 1.11                  | 1.09 | 1.07 | 1.09 | 1.07 | 1.05 | 1.05                            | 1.03 | 1.02 | 1.01 | 1.00 | .99  | .98  | .97  | .96  | .94  |
| 2.0  | 1.04                  | 1.01 | .98  | 1.03 | .99  | .96  | .99                             | .97  | .94  | .97  | .94  | .92  | .94  | .92  | .90  | .89  |
| 3.0  | .98                   | .94  | .90  | .97  | .93  | .89  | .94                             | .91  | .88  | .92  | .89  | .87  | .90  | .87  | .85  | .84  |
| 4.0  | .93                   | .88  | .84  | .92  | .87  | .83  | .90                             | .86  | .82  | .88  | .84  | .82  | .86  | .83  | .81  | .79  |
| 5.0  | .88                   | .83  | .79  | .87  | .82  | .78  | .85                             | .81  | .78  | .84  | .80  | .77  | .82  | .79  | .76  | .75  |
| 6.0  | .84                   | .78  | .74  | .83  | .78  | .74  | .81                             | .77  | .74  | .80  | .76  | .73  | .79  | .75  | .73  | .71  |
| 7.0  | .80                   | .74  | .71  | .79  | .74  | .70  | .78                             | .73  | .70  | .77  | .73  | .70  | .76  | .72  | .69  | .68  |
| 8.0  | .76                   | .71  | .67  | .75  | .70  | .67  | .74                             | .70  | .67  | .73  | .69  | .66  | .73  | .69  | .66  | .65  |
| 9.0  | .73                   | .68  | .64  | .72  | .67  | .64  | .71                             | .67  | .64  | .71  | .66  | .63  | .70  | .66  | .63  | .62  |
| 10.0 | .70                   | .65  | .61  | .69  | .64  | .61  | .69                             | .64  | .61  | .68  | .64  | .61  | .67  | .63  | .61  | .60  |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-19

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

WEC AND CCEC

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.: | Shielding Angle: |

|                             |                       |                |                                  |                |                |   |
|-----------------------------|-----------------------|----------------|----------------------------------|----------------|----------------|---|
| <input type="checkbox"/> cc | 80%                   | 70%            | 50%                              | 30%            | 10%            | 0 |
| <input type="checkbox"/> w  | 50% 30% 10%           | 50% 30% 10%    | 50% 30% 10%                      | 50% 30% 10%    | 50% 30% 10%    | 0 |
| <input type="checkbox"/> fc | 20%                   | 20%            | 20%                              | 20%            | 20%            | 0 |
| RCR                         | RCR:Room Cavity Ratio |                | Wall Exitance Coefficients (WEC) |                |                |   |
| 0.0                         |                       |                |                                  |                |                |   |
| 1.0                         | .167 .095 .030        | .160 .091 .029 | .148 .085 .027                   | .136 .079 .025 | .126 .073 .023 |   |
| 2.0                         | .158 .087 .027        | .153 .084 .026 | .142 .079 .025                   | .132 .074 .023 | .123 .070 .022 |   |
| 3.0                         | .149 .079 .024        | .144 .077 .023 | .135 .073 .022                   | .127 .070 .021 | .120 .066 .020 |   |
| 4.0                         | .141 .073 .022        | .137 .072 .021 | .129 .068 .020                   | .122 .066 .020 | .115 .063 .019 |   |
| 5.0                         | .133 .068 .020        | .130 .067 .019 | .123 .064 .019                   | .117 .062 .018 | .111 .059 .018 |   |
| 6.0                         | .126 .063 .018        | .123 .062 .018 | .118 .060 .018                   | .112 .058 .017 | .107 .056 .017 |   |
| 7.0                         | .120 .059 .017        | .118 .059 .017 | .113 .057 .016                   | .108 .055 .016 | .103 .054 .016 |   |
| 8.0                         | .115 .056 .016        | .112 .055 .016 | .108 .054 .015                   | .104 .053 .015 | .100 .051 .015 |   |
| 9.0                         | .110 .053 .015        | .108 .052 .015 | .104 .051 .015                   | .100 .050 .014 | .096 .049 .014 |   |
| 10.0                        | .105 .050 .014        | .103 .050 .014 | .100 .049 .014                   | .096 .048 .014 | .093 .047 .013 |   |

|                             |                       |                |   |                |                |   |
|-----------------------------|-----------------------|----------------|---|----------------|----------------|---|
| <input type="checkbox"/> cc | 80%                   | 70%            | 50%   | 30%            | 10%            | 0 |
| <input type="checkbox"/> w  | 50% 30% 10%           | 50% 30% 10%    | 50% 30% 10%                                 | 50% 30% 10%    | 50% 30% 10%    | 0 |
| <input type="checkbox"/> fc | 20%                   | 20%            | 20%   | 20%            | 20%            | 0 |
| RCR                         | RCR:Room Cavity Ratio |                | Ceiling Cavity Exitance Coefficients (CCEC) |                |                |   |
| 0.0                         | .190 .190 .190        | .163 .163 .163 | .111 .111 .111                              | .064 .064 .064 | .020 .020 .020 |   |
| 1.0                         | .170 .157 .146        | .146 .135 .125 | .100 .093 .087                              | .057 .054 .050 | .018 .017 .016 |   |
| 2.0                         | .154 .133 .114        | .132 .114 .099 | .091 .079 .069                              | .052 .046 .040 | .017 .015 .013 |   |
| 3.0                         | .141 .113 .091        | .121 .098 .079 | .083 .068 .056                              | .048 .040 .033 | .015 .013 .011 |   |
| 4.0                         | .130 .099 .074        | .112 .085 .065 | .077 .059 .046                              | .044 .035 .027 | .014 .011 .009 |   |
| 5.0                         | .121 .087 .062        | .104 .075 .054 | .071 .052 .038                              | .041 .031 .022 | .013 .010 .007 |   |
| 6.0                         | .113 .077 .052        | .097 .067 .045 | .067 .047 .032                              | .039 .028 .019 | .013 .009 .006 |   |
| 7.0                         | .106 .069 .044        | .091 .060 .038 | .063 .042 .027                              | .037 .025 .016 | .012 .008 .005 |   |
| 8.0                         | .100 .063 .038        | .086 .055 .033 | .059 .038 .023                              | .035 .023 .014 | .011 .007 .005 |   |
| 9.0                         | .094 .058 .033        | .081 .050 .029 | .056 .035 .020                              | .033 .021 .012 | .011 .007 .004 |   |
| 10.0                        | .090 .053 .029        | .077 .046 .025 | .054 .032 .018                              | .031 .019 .011 | .010 .006 .004 |   |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-19

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | 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                                      | 5.3              | 6.1 | 5.5 | 6.3 | 6.4 | 5.0            | 5.8 | 5.2 | 6.0 | 6.2 |
| 3H   | 5.7              | 6.5 | 6.0 | 6.7 | 6.9 | 5.3            | 6.1 | 5.5 | 6.3 | 6.5 |
| 4H   | 5.9              | 6.7 | 6.2 | 6.9 | 7.1 | 5.3            | 6.1 | 5.6 | 6.3 | 6.5 |
| 6H   | 6.0              | 6.7 | 6.3 | 7.0 | 7.2 | 5.3            | 6.0 | 5.5 | 6.2 | 6.4 |
| 8H   | 6.0              | 6.7 | 6.3 | 6.9 | 7.2 | 5.2            | 5.9 | 5.5 | 6.1 | 6.4 |
| 12H  | 6.0              | 6.6 | 6.3 | 6.9 | 7.2 | 5.2            | 5.8 | 5.5 | 6.1 | 6.3 |
| 4H 2H  | 5.4              | 6.1 | 5.6 | 6.3 | 6.6 | 5.1            | 5.9 | 5.4 | 6.1 | 6.3 |
| 3H   | 6.0              | 6.6 | 6.3 | 6.9 | 7.2 | 5.5            | 6.2 | 5.8 | 6.4 | 6.7 |
| 4H   | 6.2              | 6.8 | 6.6 | 7.1 | 7.4 | 5.6            | 6.2 | 5.9 | 6.5 | 6.8 |
| 6H   | 6.4              | 6.9 | 6.8 | 7.3 | 7.6 | 5.5            | 6.0 | 5.9 | 6.4 | 6.7 |
| 8H   | 6.4              | 6.9 | 6.8 | 7.2 | 7.6 | 5.5            | 6.0 | 5.9 | 6.3 | 6.7 |
| 12H  | 6.4              | 6.8 | 6.8 | 7.2 | 7.6 | 5.4            | 5.9 | 5.8 | 6.2 | 6.6 |
| 8H 4H  | 6.2              | 6.7 | 6.6 | 7.0 | 7.4 | 5.6            | 6.1 | 6.0 | 6.4 | 6.8 |
| 6H   | 6.4              | 6.8 | 6.8 | 7.2 | 7.6 | 5.5            | 5.9 | 6.0 | 6.3 | 6.7 |
| 8H   | 6.4              | 6.8 | 6.9 | 7.2 | 7.6 | 5.5            | 5.8 | 5.9 | 6.2 | 6.7 |
| 12H  | 6.4              | 6.7 | 6.8 | 7.1 | 7.6 | 5.4            | 5.7 | 5.9 | 6.2 | 6.6 |
| 12H 4H   | 6.1              | 6.6 | 6.6 | 7.0 | 7.3 | 5.5            | 6.0 | 5.9 | 6.3 | 6.7 |
| 6H   | 6.4              | 6.7 | 6.8 | 7.1 | 7.6 | 5.5            | 5.8 | 5.9 | 6.3 | 6.7 |
| 8H   | 6.4              | 6.7 | 6.8 | 7.1 | 7.6 | 5.4            | 5.7 | 5.9 | 6.2 | 6.6 |
| Variations with the observer position at spacings: |                  |     |     |     |     |                |     |     |     |     |
| S = 1.0H   | + 0.8 / - 1.0    |     |     |     |     | + 1.0 / - 1.4  |     |     |     |     |
| 1.5H   | + 1.2 / - 0.6    |     |     |     |     | + 1.4 / - 0.8  |     |     |     |     |
| 2.0H   | + 1.1 / - 0.9    |     |     |     |     | + 1.3 / - 1.1  |     |     |     |     |

CIE Pub.117, 640.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.5)  
 Area: 0.111111 m2

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-19

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.: | Shielding Angle: |

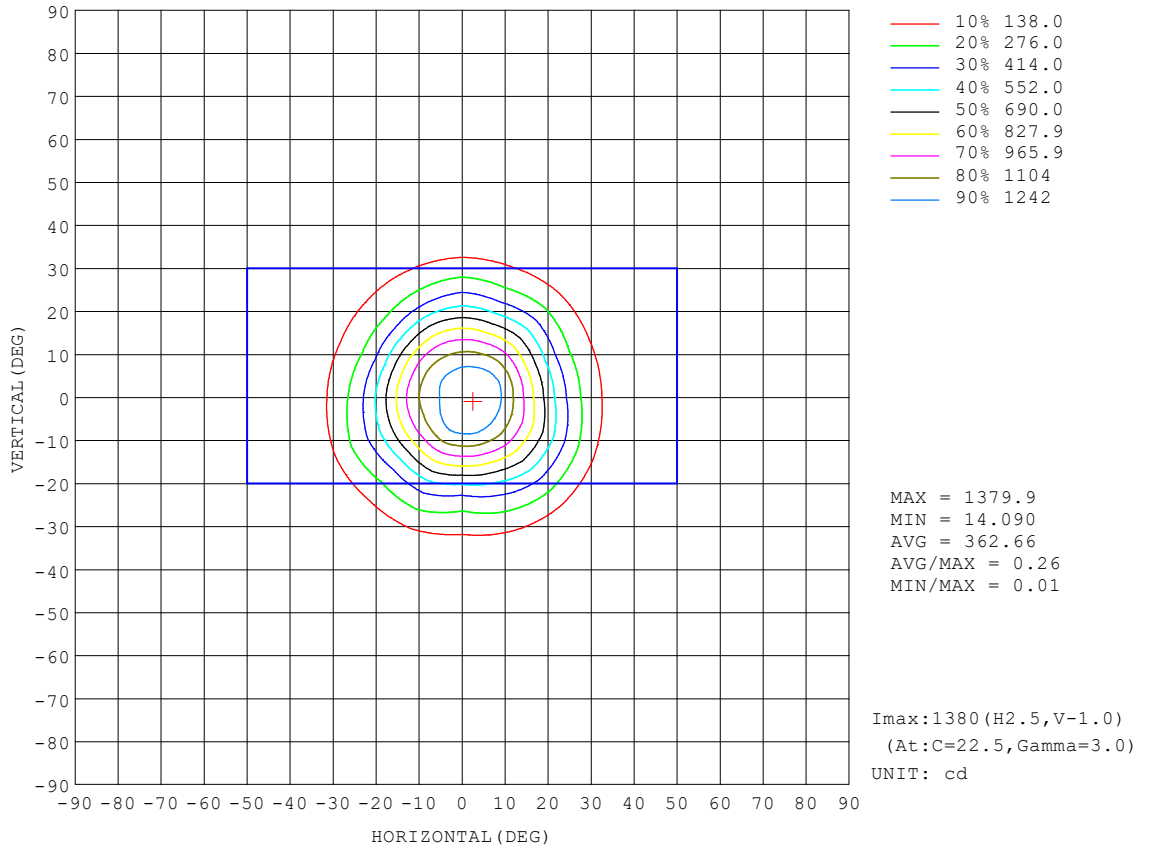
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5           | 0.5 | 0.5 | 0      |
| Walls                            | 0.7  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7           | 0.5 | 0.3 | 0      |
| Working plane                    | 0.2  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |               |     |     |        |
| k = 0.60                         | 87   | 80  | 76        | 86  | 80  | 76  | 85            | 80  | 76  | 73     |
| 0.80                             | 94   | 88  | 84        | 93  | 88  | 84  | 92            | 87  | 84  | 80     |
| 1.00                             | 99   | 93  | 89        | 98  | 92  | 89  | 96            | 92  | 88  | 84     |
| 1.25                             | 103  | 97  | 94        | 102 | 97  | 93  | 100           | 96  | 93  | 88     |
| 1.50                             | 105  | 101 | 97        | 104 | 100 | 97  | 102           | 98  | 96  | 91     |
| 2.00                             | 108  | 104 | 101       | 107 | 103 | 100 | 104           | 101 | 98  | 93     |
| 2.50                             | 110  | 106 | 103       | 108 | 105 | 102 | 105           | 102 | 100 | 94     |
| 3.00                             | 112  | 108 | 105       | 110 | 107 | 104 | 106           | 104 | 102 | 96     |
| 4.00                             | 114  | 111 | 109       | 112 | 109 | 107 | 108           | 106 | 104 | 97     |
| 5.00                             | 115  | 113 | 111       | 113 | 111 | 109 | 109           | 107 | 106 | 98     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-19

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.: | Shielding Angle: |



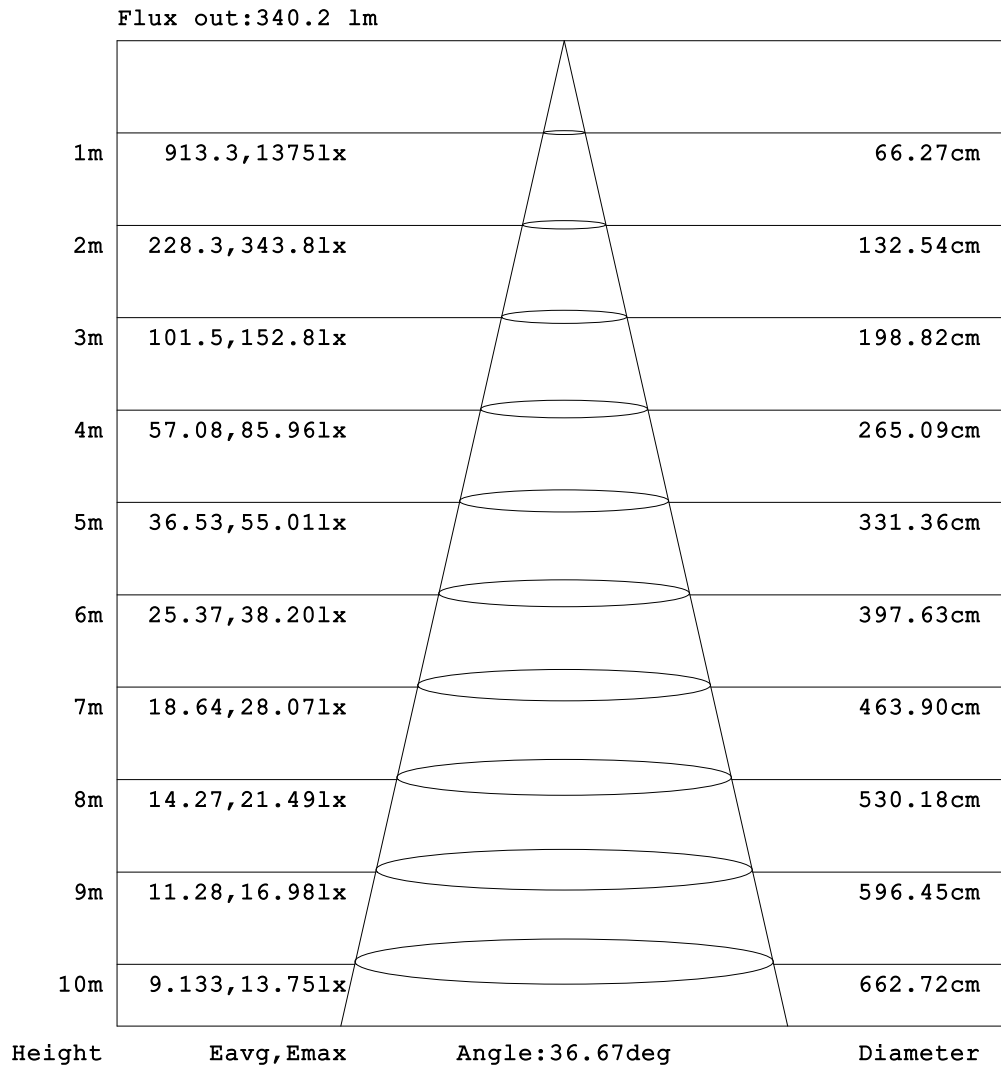
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-19

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:



**AAI Figure**

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.: | Shielding Angle: |



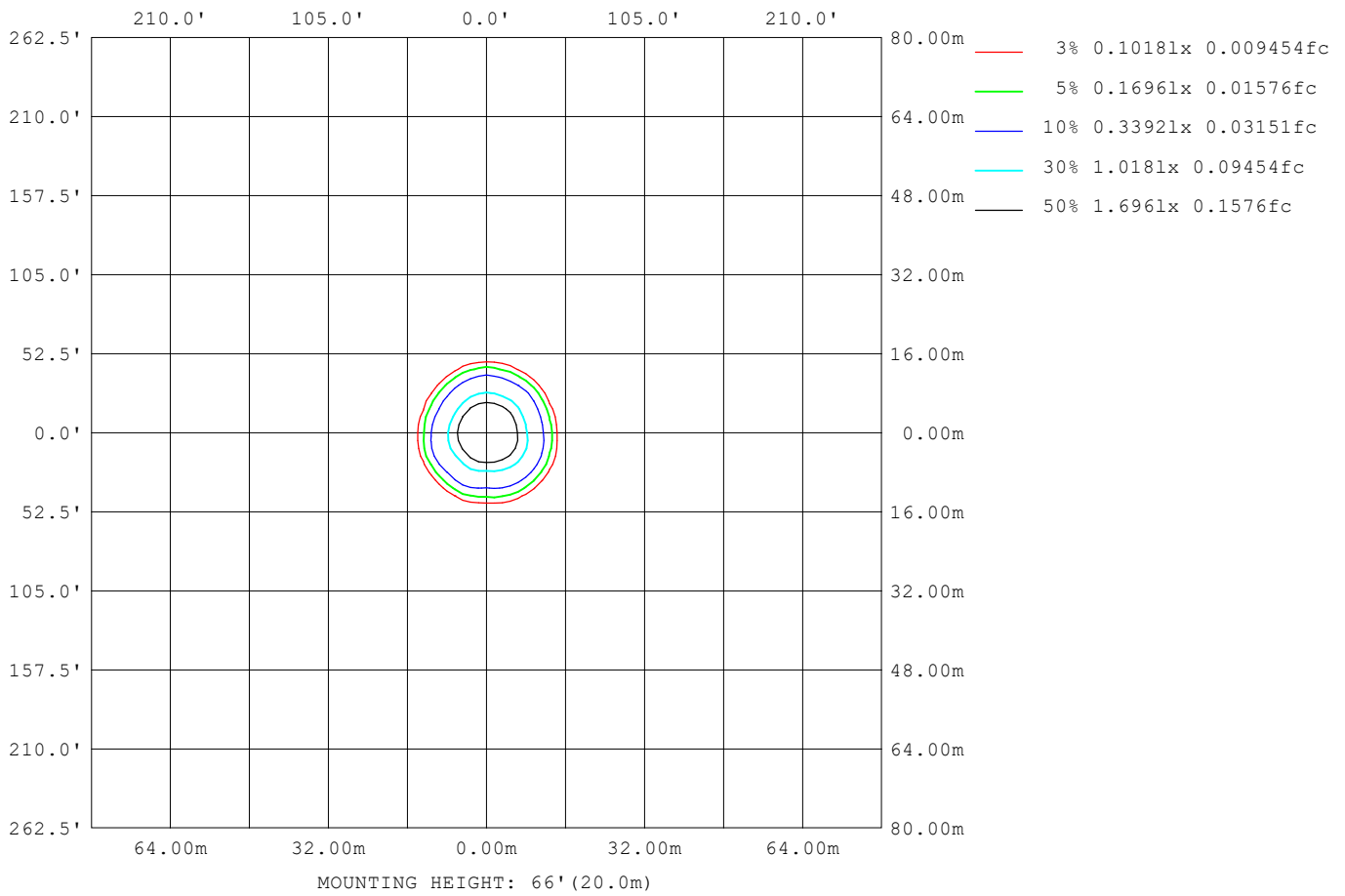
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-19

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-19

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.: | Shielding Angle: |

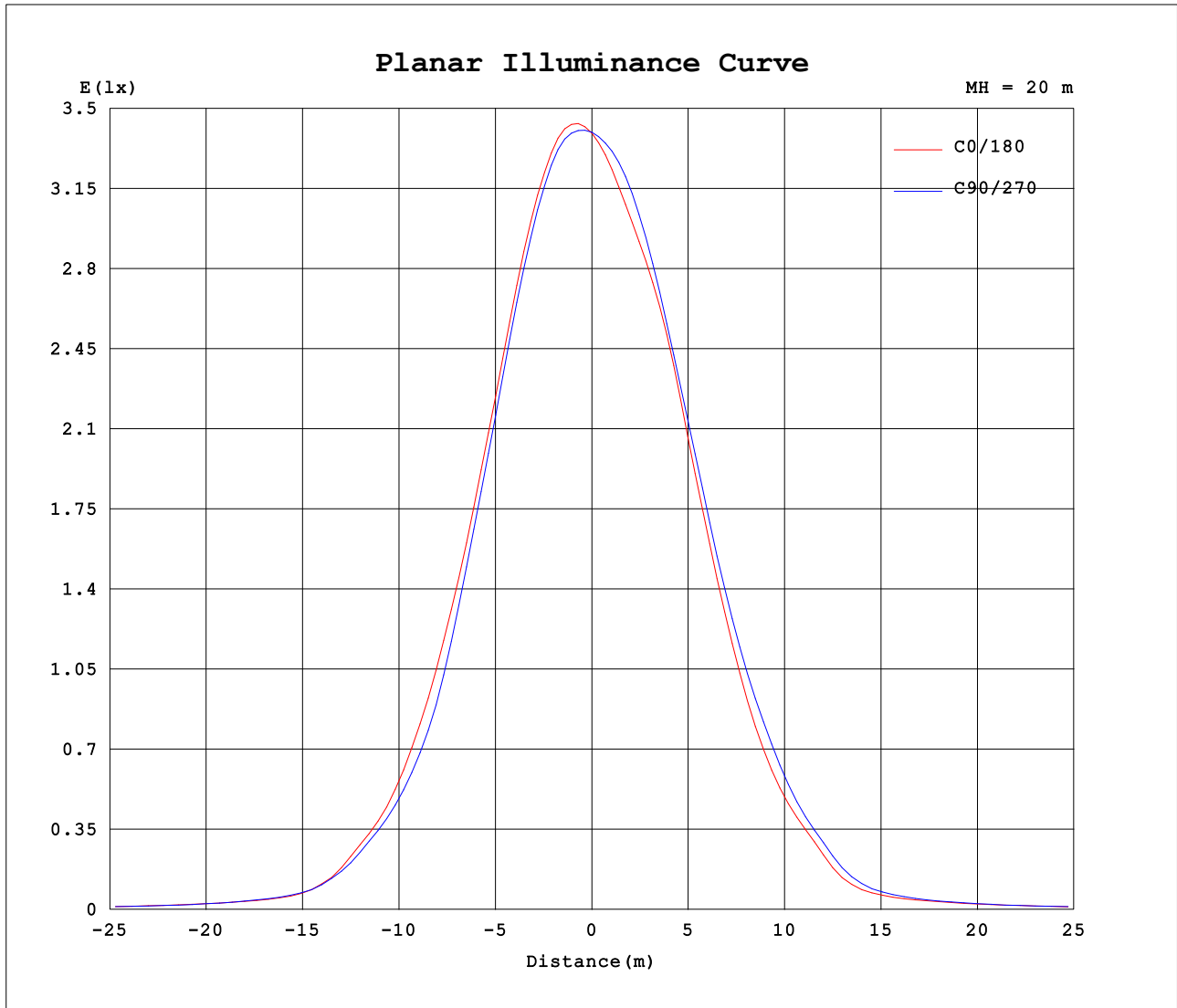
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 184   |
| L_0~180 (75) av  | 138   |
| L_0~180 (85) av  | 39    |
| L_90~270 (65) av | 160   |
| L_90~270 (75) av | 77    |
| L_90~270 (85) av | 5     |
| L_45 (65) av     | 177   |
| L_45 (75) av     | 104   |
| L_45 (85) av     | 5     |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-19

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-10-19

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 3.080m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|  |       |                  |
|--|-------|------------------|
| Test:U:120.06V I:0.0687A P:7.7480W PF:0.9543 Freq:59.98Hz Lamp Flux:640.679x1 lm |       |                  |
| NAME: ASD-CD-TR-2D8AC-WH   | TYPE: | WEIGHT:          |
| SPEC.:5000K 90   | DIM.: | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>□ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|--------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                  | 1358 | 1358 | 1358 | 1358 | 1358 | 1358  | 1358 | 1358  | 1358 | 1358  | 1358 | 1358  | 1358 | 1358  | 1358 | 1358  |  |  |  |
| 5                  | 1365 | 1365 | 1359 | 1358 | 1343 | 1321  | 1286 | 1256  | 1247 | 1258  | 1270 | 1280  | 1296 | 1315  | 1340 | 1355  |  |  |  |
| 10                 | 1205 | 1205 | 1204 | 1194 | 1172 | 1165  | 1118 | 1096  | 1104 | 1104  | 1111 | 1116  | 1129 | 1151  | 1190 | 1210  |  |  |  |
| 15                 | 925  | 974  | 969  | 914  | 885  | 891   | 848  | 850   | 847  | 829   | 842  | 872   | 883  | 888   | 929  | 918   |  |  |  |
| 20                 | 632  | 710  | 705  | 622  | 565  | 601   | 561  | 580   | 561  | 519   | 536  | 586   | 613  | 600   | 646  | 612   |  |  |  |
| 25                 | 380  | 457  | 459  | 389  | 322  | 373   | 340  | 373   | 328  | 285   | 294  | 339   | 389  | 360   | 398  | 354   |  |  |  |
| 30                 | 205  | 250  | 258  | 226  | 184  | 214   | 192  | 214   | 183  | 160   | 167  | 189   | 214  | 199   | 217  | 195   |  |  |  |
| 35                 | 82.5 | 100  | 105  | 94.8 | 79.1 | 86.0  | 73.8 | 74.9  | 63.8 | 61.6  | 65.5 | 73.9  | 83.0 | 79.8  | 81.6 | 74.5  |  |  |  |
| 40                 | 40.6 | 46.7 | 48.4 | 47.2 | 42.7 | 43.8  | 40.3 | 40.9  | 38.2 | 37.9  | 39.2 | 41.5  | 43.7 | 41.8  | 42.2 | 39.3  |  |  |  |
| 45                 | 29.6 | 30.7 | 30.9 | 31.1 | 29.0 | 28.9  | 28.2 | 28.4  | 27.9 | 27.8  | 28.2 | 29.1  | 29.8 | 29.2  | 29.7 | 29.2  |  |  |  |
| 50                 | 22.8 | 22.8 | 22.6 | 22.4 | 22.2 | 22.1  | 21.8 | 21.8  | 21.6 | 21.5  | 21.7 | 21.8  | 22.1 | 22.3  | 22.6 | 22.7  |  |  |  |
| 55                 | 16.6 | 16.7 | 16.4 | 16.3 | 16.0 | 15.8  | 15.5 | 15.5  | 15.3 | 15.2  | 15.4 | 15.4  | 15.7 | 15.8  | 16.5 | 16.5  |  |  |  |
| 60                 | 12.0 | 12.0 | 11.9 | 11.7 | 11.5 | 11.4  | 11.4 | 11.3  | 11.2 | 11.2  | 11.3 | 10.9  | 10.8 | 11.1  | 11.8 | 11.9  |  |  |  |
| 65                 | 9.01 | 8.97 | 8.67 | 8.11 | 7.72 | 7.85  | 8.15 | 8.29  | 8.26 | 8.31  | 8.01 | 7.49  | 7.34 | 7.68  | 8.45 | 8.98  |  |  |  |
| 70                 | 6.41 | 6.32 | 5.66 | 4.97 | 4.62 | 4.79  | 5.24 | 5.73  | 5.75 | 5.73  | 5.19 | 4.63  | 4.47 | 4.74  | 5.51 | 6.30  |  |  |  |
| 75                 | 4.25 | 3.98 | 3.16 | 2.54 | 2.26 | 2.41  | 2.87 | 3.52  | 3.70 | 3.49  | 2.86 | 2.35  | 2.19 | 2.39  | 3.04 | 3.91  |  |  |  |
| 80                 | 2.47 | 1.97 | 1.16 | 0.69 | 0.52 | 0.61  | 0.98 | 1.64  | 2.05 | 1.63  | 1.00 | 0.59  | 0.49 | 0.59  | 1.06 | 1.88  |  |  |  |
| 85                 | 0.42 | 0.42 | 0.05 | 0.05 | 0.05 | 0.05  | 0.05 | 0.30  | 0.33 | 0.29  | 0.04 | 0.04  | 0.04 | 0.04  | 0.04 | 0.38  |  |  |  |
| 90                 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00  | 0.01 | 0.01  | 0.02 | 0.02  | 0.01 | 0.01  | 0.01 | 0.01  | 0.01 | 0.02  |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |
|                    |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |  |  |  |

|                      |   |
|----------------------|---|
| C Range: 0 - 360DEG  | □ Range: 0 - 90DEG                                  |
| C Interval: 22.5DEG  | □ Interval: 1.0DEG                                  |
| Test Speed: HIGH     | Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421 |
| Temperature:25.3DEG  | Humidity:65.0%                                      |
| Operators:           | Test Distance:3.080m [K=1.0000]                     |
| Test Date:2021-10-19 | Remarks:  |