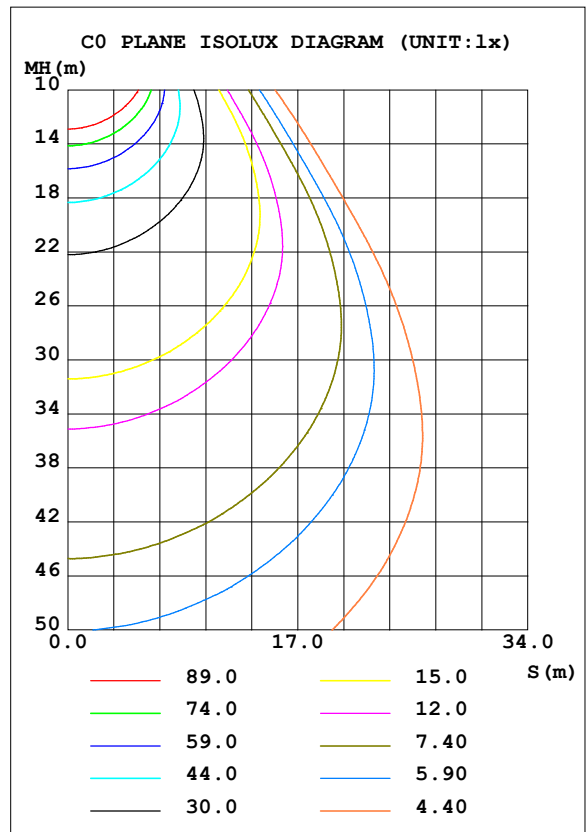
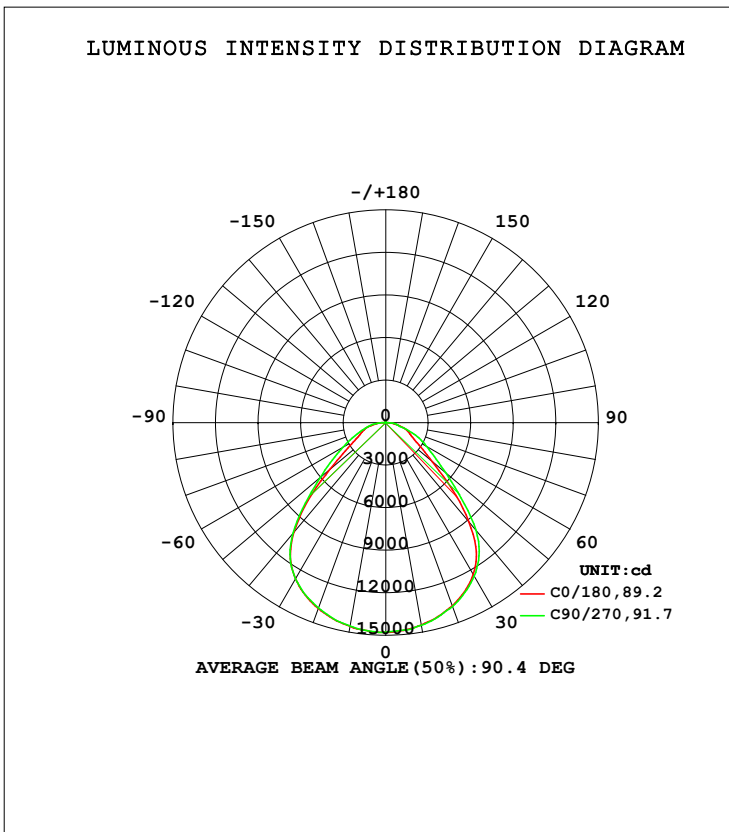


LUMINAIRE PHOTOMETRIC TEST REPORT

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:121.4V I:1.948A P:235.8W PF:0.9968 Freq:59.99Hz Lamp Flux:29920 x1 lm |                 |                  |
| NAME: ASD Lighting Corp  | TYPE:           | WEIGHT:          |
| SPEC.:ASD-WHB7-4D22050   | DIM.:           | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.29*1.14m | Shielding Angle: |

| DATA OF LAMP      |                  | PHOTOMETRIC DATA Eff: 126,89 lm/W |        |                     |           |
|-------------------|------------------|-----------------------------------|--------|---------------------|-----------|
| MODEL             | ASD-WHB7-4D22050 | I <sub>max</sub> (cd)             | 14798  | S/MH (C0/180)       | 1.27      |
| NOMINAL POWER (W) | 220              | LOR (%)                           | 100.0  | S/MH (C90/270)      | 1.27      |
| RATED VOLTAGE (V) | 120-277          | TOTAL FLUX (lm)                   | 29920  | η UP, DN (C0-180)   | 0.5, 48.6 |
| NOMINAL FLUX (lm) | 29920            | CIE CLASS                         | DIRECT | η UP, DN (C180-360) | 0.4, 50.5 |
| LAMPS INSIDE      | 1                | η up (%)                          | 0.9    | CIBSE SHR NOM       | 1.25      |
| TEST VOLTAGE (V)  | 120              | η down (%)                        | 99.1   | CIBSE SHR MAX       | 1.30      |



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 26.5DEG  
 Operators: wudashuai  
 Test Date: 2021-10-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity: 62%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                                       | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum,lamp |
|----------|--|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|-----------|
| 10       | 1448                                     | 1446  | 1450  | 1456  | 1459  | 1460  | 1456  | 1450  | 0- 10    | 1399        | 1399         | 4.3,4.3   |
| 20       | 1373                                     | 1369  | 1379  | 1390  | 1395  | 1394  | 1390  | 1375  | 10- 20   | 4020        | 5419         | 16.7,16.7 |
| 30       | 1234                                     | 1230  | 1249  | 1266  | 1273  | 1275  | 1272  | 1239  | 20- 30   | 6115        | 11533        | 35.5,35.5 |
| 40       | 910.6                                    | 925.3 | 990.7 | 1013  | 1008  | 1025  | 1021  | 939.1 | 30- 40   | 7114        | 18647        | 57.4,57.4 |
| 50       | 432.0                                    | 494.6 | 554.4 | 562.8 | 515.4 | 578.9 | 606.0 | 520.3 | 40- 50   | 5734        | 24382        | 75,75     |
| 60       | 227.0                                    | 279.0 | 330.1 | 316.5 | 254.0 | 320.7 | 350.9 | 306.6 | 50- 60   | 3561        | 27942        | 86,86     |
| 70       | 157.8                                    | 179.3 | 179.7 | 198.7 | 173.2 | 199.8 | 195.6 | 175.8 | 60- 70   | 2345        | 30288        | 93.2,93.2 |
| 80       | 70.61                                    | 88.18 | 80.15 | 106.5 | 88.51 | 106.0 | 106.0 | 88.32 | 70- 80   | 1424        | 31712        | 97.5,97.5 |
| 90       | 1.395                                    | 1.305 | 1.255 | 4.729 | 6.660 | 7.855 | 1.611 | 1.194 | 80- 90   | 501.4       | 32213        | 99.1,99.1 |
| 100      | 2.003                                    | 2.014 | 2.006 | 1.831 | 1.739 | 1.705 | 1.786 | 1.833 | 90-100   | 18.06       | 32231        | 99.1,99.1 |
| 110      | 3.177                                    | 3.453 | 3.079 | 2.969 | 2.719 | 2.853 | 2.762 | 3.056 | 100-110  | 25.20       | 32257        | 99.2,99.2 |
| 120      | 5.606                                    | 4.553 | 4.344 | 4.399 | 4.452 | 4.095 | 3.975 | 4.312 | 110-120  | 37.69       | 32294        | 99.3,99.3 |
| 130      | 5.962                                    | 5.647 | 5.683 | 5.491 | 5.556 | 5.206 | 5.305 | 5.380 | 120-130  | 45.17       | 32339        | 99.5,99.5 |
| 140      | 6.844                                    | 6.834 | 6.920 | 6.657 | 6.439 | 6.438 | 6.607 | 6.588 | 130-140  | 47.09       | 32386        | 99.6,99.6 |
| 150      | 7.930                                    | 8.091 | 8.127 | 7.943 | 7.515 | 7.747 | 7.850 | 7.900 | 140-150  | 45.55       | 32432        | 99.8,99.8 |
| 160      | 9.211                                    | 9.293 | 9.401 | 9.100 | 8.916 | 8.973 | 9.167 | 9.158 | 150-160  | 39.26       | 32471        | 99.9,99.9 |
| 170      | 10.34                                    | 10.39 | 10.49 | 10.25 | 10.14 | 10.18 | 10.36 | 10.33 | 160-170  | 27.48       | 32499        | 100,100   |
| 180      | 10.68                                    | 10.72 | 10.92 | 10.74 | 10.69 | 10.71 | 10.93 | 10.74 | 170-180  | 10.05       | 32509        | 100,100   |
| DEG      | LUMINOUS INTENSITY: $\times 10\text{cd}$ |       |       |       |       |       |       |       |          | UNIT:lm     |              |           |

Conical surface Flux(90deg): 21833 lm

%lum = 67.2%

%lamp = 67.2%

Conical surface Flux(120deg): 27942 lm

%lum = 86.0%

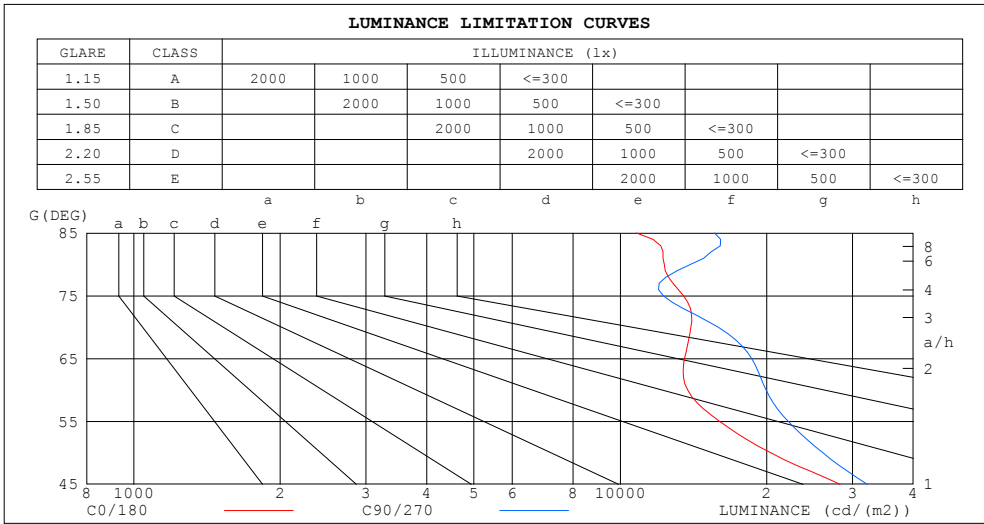
%lamp = 86.0%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:26.5DEG  
 Operators:wudashuai  
 Test Date:2021-10-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:62%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:121.4V I:1.948A P:235.8W PF:0.9968 Freq:59.99Hz Lamp Flux:29920 x1 lm |                 |                  |
| NAME: ASD Lighting Corp  | TYPE:           | WEIGHT:          |
| SPEC.:ASD-WHB7-4D22050   | DIM.:           | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.29*1.14m | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 10794  | 15633   |
| 80                | 12315  | 13948   |
| 75                | 13479  | 12264   |
| 70                | 13972  | 15878   |
| 65                | 13556  | 18633   |
| 60                | 13750  | 19948   |
| 55                | 15988  | 22123   |
| 50                | 20355  | 26062   |
| 45                | 28280  | 32161   |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:26.5DEG  
 Operators:wudashuai  
 Test Date:2021-10-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:62%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

WEC AND CCEC

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:121.4V I:1.948A P:235.8W PF:0.9968 Freq:59.99Hz Lamp Flux:29920 x1 lm |                 |                  |
| NAME: ASD Lighting Corp  | TYPE:           | WEIGHT:          |
| SPEC.:ASD-WHB7-4D22050   | DIM.:           | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.29*1.14m | Shielding Angle: |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%                              |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                              | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%                              |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients (WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                  |      |      |      |      |      |      |      |      |   |
| 1.0  | .271                  | .154 | .049 | .264 | .150 | .048 | .250                             | .144 | .046 | .238 | .137 | .044 | .226 | .131 | .042 |   |
| 2.0  | .256                  | .140 | .043 | .250 | .137 | .042 | .238                             | .132 | .041 | .227 | .127 | .040 | .217 | .123 | .039 |   |
| 3.0  | .239                  | .127 | .038 | .233 | .125 | .038 | .223                             | .121 | .037 | .213 | .117 | .036 | .204 | .113 | .035 |   |
| 4.0  | .223                  | .116 | .034 | .218 | .114 | .034 | .209                             | .111 | .033 | .200 | .107 | .032 | .192 | .104 | .032 |   |
| 5.0  | .208                  | .106 | .031 | .204 | .105 | .030 | .195                             | .102 | .030 | .188 | .099 | .029 | .181 | .097 | .029 |   |
| 6.0  | .195                  | .098 | .028 | .191 | .096 | .028 | .184                             | .094 | .027 | .177 | .092 | .027 | .170 | .090 | .027 |   |
| 7.0  | .183                  | .090 | .026 | .179 | .089 | .025 | .173                             | .087 | .025 | .167 | .085 | .025 | .161 | .084 | .025 |   |
| 8.0  | .172                  | .084 | .024 | .169 | .083 | .023 | .163                             | .081 | .023 | .157 | .080 | .023 | .152 | .078 | .023 |   |
| 9.0  | .162                  | .078 | .022 | .159 | .078 | .022 | .154                             | .076 | .022 | .149 | .075 | .021 | .144 | .073 | .021 |   |
| 10.0 | .153                  | .074 | .020 | .151 | .073 | .020 | .146                             | .072 | .020 | .142 | .070 | .020 | .137 | .069 | .020 |   |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%   |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%   |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients (CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .197                  | .197 | .197 | .169 | .169 | .169 | .115  | .115 | .115 | .066 | .066 | .066 | .021 | .021 | .021 |   |
| 1.0  | .185                  | .163 | .144 | .158 | .140 | .124 | .108  | .097 | .086 | .062 | .056 | .050 | .020 | .018 | .016 |   |
| 2.0  | .174                  | .139 | .109 | .149 | .120 | .095 | .102  | .083 | .066 | .059 | .048 | .039 | .019 | .016 | .013 |   |
| 3.0  | .166                  | .121 | .086 | .142 | .105 | .074 | .097  | .073 | .052 | .056 | .042 | .031 | .018 | .014 | .010 |   |
| 4.0  | .157                  | .107 | .069 | .135 | .093 | .060 | .093  | .065 | .042 | .054 | .038 | .025 | .017 | .012 | .008 |   |
| 5.0  | .150                  | .097 | .058 | .129 | .084 | .050 | .089  | .059 | .035 | .051 | .034 | .021 | .017 | .011 | .007 |   |
| 6.0  | .143                  | .088 | .049 | .123 | .076 | .043 | .085  | .054 | .030 | .049 | .031 | .018 | .016 | .010 | .006 |   |
| 7.0  | .136                  | .081 | .043 | .117 | .070 | .037 | .081  | .049 | .026 | .047 | .029 | .016 | .015 | .010 | .005 |   |
| 8.0  | .130                  | .075 | .038 | .112 | .065 | .033 | .078  | .046 | .023 | .045 | .027 | .014 | .015 | .009 | .005 |   |
| 9.0  | .125                  | .070 | .034 | .107 | .061 | .029 | .074  | .043 | .021 | .043 | .025 | .012 | .014 | .008 | .004 |   |
| 10.0 | .120                  | .066 | .031 | .103 | .057 | .027 | .071  | .040 | .019 | .042 | .024 | .011 | .014 | .008 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:26.5DEG  
 Operators:wudashuai  
 Test Date:2021-10-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:62%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## UGR(Unified Glare Rating) Table

| Test:U:121.4V I:1.948A P:235.8W PF:0.9968 Freq:59.99Hz Lamp Flux:29920 x1 lm |                  |      |      |      |                 |                |      |                  |      |      |
|--|------------------|------|------|------|-----------------|----------------|------|------------------|------|------|
| NAME: ASD Lighting Corp  |                  |      |      |      | TYPE:           |                |      | WEIGHT:          |      |      |
| SPEC.:ASD-WHB7-4D22050   |                  |      |      |      | DIM.:           |                |      | SERIAL No.:      |      |      |
| MFR.: ASD Lighting Corp  |                  |      |      |      | SUR.:0.29*1.14m |                |      | 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  | 21.9             | 23.2 | 22.1 | 23.4 | 23.6            | 22.8           | 24.2 | 23.1             | 24.4 | 24.6 |
| 3H   | 22.8             | 24.1 | 23.1 | 24.3 | 24.6            | 23.8           | 25.0 | 24.1             | 25.3 | 25.5 |
| 4H   | 23.3             | 24.5 | 23.6 | 24.7 | 25.0            | 24.1           | 25.3 | 24.4             | 25.5 | 25.8 |
| 6H   | 23.7             | 24.8 | 24.0 | 25.1 | 25.3            | 24.4           | 25.5 | 24.7             | 25.8 | 26.1 |
| 8H   | 23.8             | 24.9 | 24.1 | 25.2 | 25.5            | 24.5           | 25.6 | 24.9             | 25.9 | 26.2 |
| 12H  | 23.9             | 24.9 | 24.2 | 25.2 | 25.5            | 24.7           | 25.7 | 25.0             | 26.0 | 26.3 |
| 4H 2H  | 22.3             | 23.5 | 22.6 | 23.7 | 24.0            | 23.1           | 24.2 | 23.4             | 24.5 | 24.8 |
| 3H   | 23.5             | 24.5 | 23.9 | 24.8 | 25.2            | 24.3           | 25.3 | 24.6             | 25.6 | 25.9 |
| 4H   | 24.1             | 25.1 | 24.5 | 25.4 | 25.8            | 24.7           | 25.7 | 25.1             | 26.0 | 26.3 |
| 6H   | 24.6             | 25.5 | 25.1 | 25.8 | 26.2            | 25.2           | 26.0 | 25.6             | 26.4 | 26.7 |
| 8H   | 24.8             | 25.6 | 25.3 | 26.0 | 26.4            | 25.4           | 26.2 | 25.8             | 26.6 | 27.0 |
| 12H  | 25.0             | 25.7 | 25.4 | 26.1 | 26.5            | 25.6           | 26.3 | 26.1             | 26.7 | 27.2 |
| 8H 4H  | 24.4             | 25.2 | 24.9 | 25.6 | 26.0            | 24.9           | 25.7 | 25.4             | 26.1 | 26.5 |
| 6H   | 25.1             | 25.8 | 25.6 | 26.2 | 26.6            | 25.6           | 26.2 | 26.0             | 26.6 | 27.1 |
| 8H   | 25.4             | 26.0 | 25.9 | 26.4 | 26.9            | 25.9           | 26.5 | 26.4             | 26.9 | 27.4 |
| 12H  | 25.6             | 26.1 | 26.1 | 26.5 | 27.0            | 26.2           | 26.7 | 26.7             | 27.2 | 27.7 |
| 12H 4H   | 24.5             | 25.2 | 24.9 | 25.6 | 26.0            | 25.0           | 25.7 | 25.4             | 26.1 | 26.5 |
| 6H   | 25.2             | 25.8 | 25.7 | 26.2 | 26.7            | 25.6           | 26.2 | 26.1             | 26.6 | 27.1 |
| 8H   | 25.5             | 26.0 | 26.0 | 26.5 | 27.0            | 26.0           | 26.5 | 26.5             | 27.0 | 27.5 |
| Variations with the observer position at spacings:                           |                  |      |      |      |                 |                |      |                  |      |      |
| S = 1.0H   | + 0.4 / - 0.5    |      |      |      |                 | + 0.4 / - 0.5  |      |                  |      |      |
| 1.5H   | + 0.4 / - 0.5    |      |      |      |                 | + 0.4 / - 0.3  |      |                  |      |      |
| 2.0H   | + 0.9 / - 0.7    |      |      |      |                 | + 0.8 / - 0.5  |      |                  |      |      |

CIE Pub.117, 32509 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.1)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:26.5DEG  
 Operators:wudashuai  
 Test Date:2021-10-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:62%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:121.4V I:1.948A P:235.8W PF:0.9968 Freq:59.99Hz Lamp Flux:29920 x1 lm |                 |                  |
| NAME: ASD Lighting Corp  | TYPE:           | WEIGHT:          |
| SPEC.:ASD-WHB7-4D22050   | DIM.:           | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.29*1.14m | Shielding Angle: |

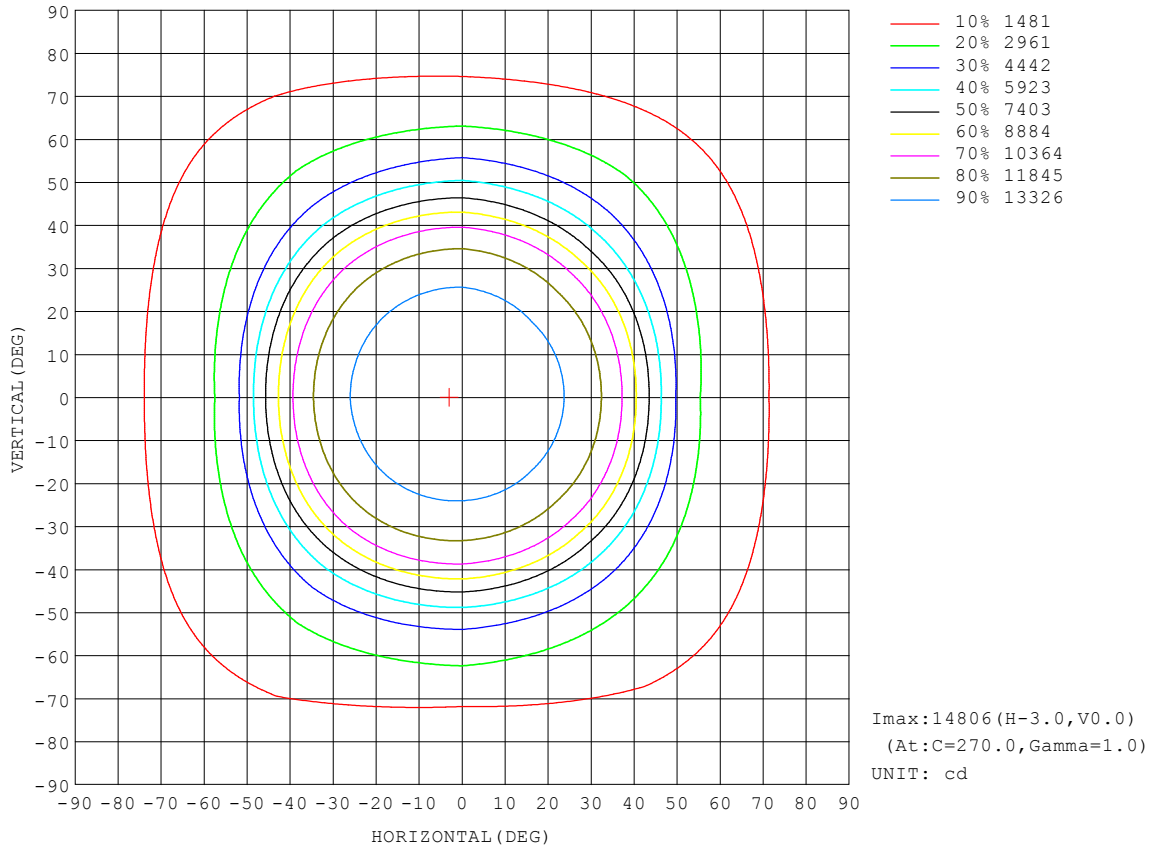
| REFLECTANCE                      |  |     |           |     |     |     |               |     |     |        |
|----------------------------------|--|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 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                         | 65   | 55  | 49        | 64  | 55  | 49  | 63            | 54  | 48  | 43     |
| 0.80                             | 75   | 65  | 58        | 74  | 64  | 58  | 72            | 64  | 58  | 52     |
| 1.00                             | 82   | 73  | 67        | 81  | 72  | 66  | 79            | 73  | 66  | 60     |
| 1.25                             | 89   | 80  | 74        | 87  | 79  | 73  | 85            | 78  | 73  | 66     |
| 1.50                             | 93   | 85  | 79        | 92  | 84  | 78  | 89            | 82  | 77  | 70     |
| 2.00                             | 99   | 92  | 86        | 97  | 90  | 85  | 94            | 88  | 84  | 77     |
| 2.50                             | 102  | 95  | 90        | 100 | 94  | 89  | 96            | 91  | 87  | 80     |
| 3.00                             | 105  | 99  | 94        | 103 | 97  | 93  | 99            | 94  | 91  | 83     |
| 4.00                             | 108  | 103 | 99        | 106 | 101 | 98  | 102           | 98  | 95  | 86     |
| 5.00                             | 110  | 106 | 103       | 108 | 104 | 101 | 103           | 100 | 98  | 89     |
| ROOM INDEX                       | UF(total)  |     |           |     |     |     |               |     |     | Direct |
| According to DIN EN 13032-2 2004 |  |     | Suspended |     |     |     | SHRNOM = 1.25 |     |     |        |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:26.5DEG  
 Operators:wudashuai  
 Test Date:2021-10-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:62%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:121.4V I:1.948A P:235.8W PF:0.9968 Freq:59.99Hz Lamp Flux:29920 x1 lm |                 |                  |
| NAME: ASD Lighting Corp  | TYPE:           | WEIGHT:          |
| SPEC.:ASD-WHB7-4D22050   | DIM.:           | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.29*1.14m | Shielding Angle: |

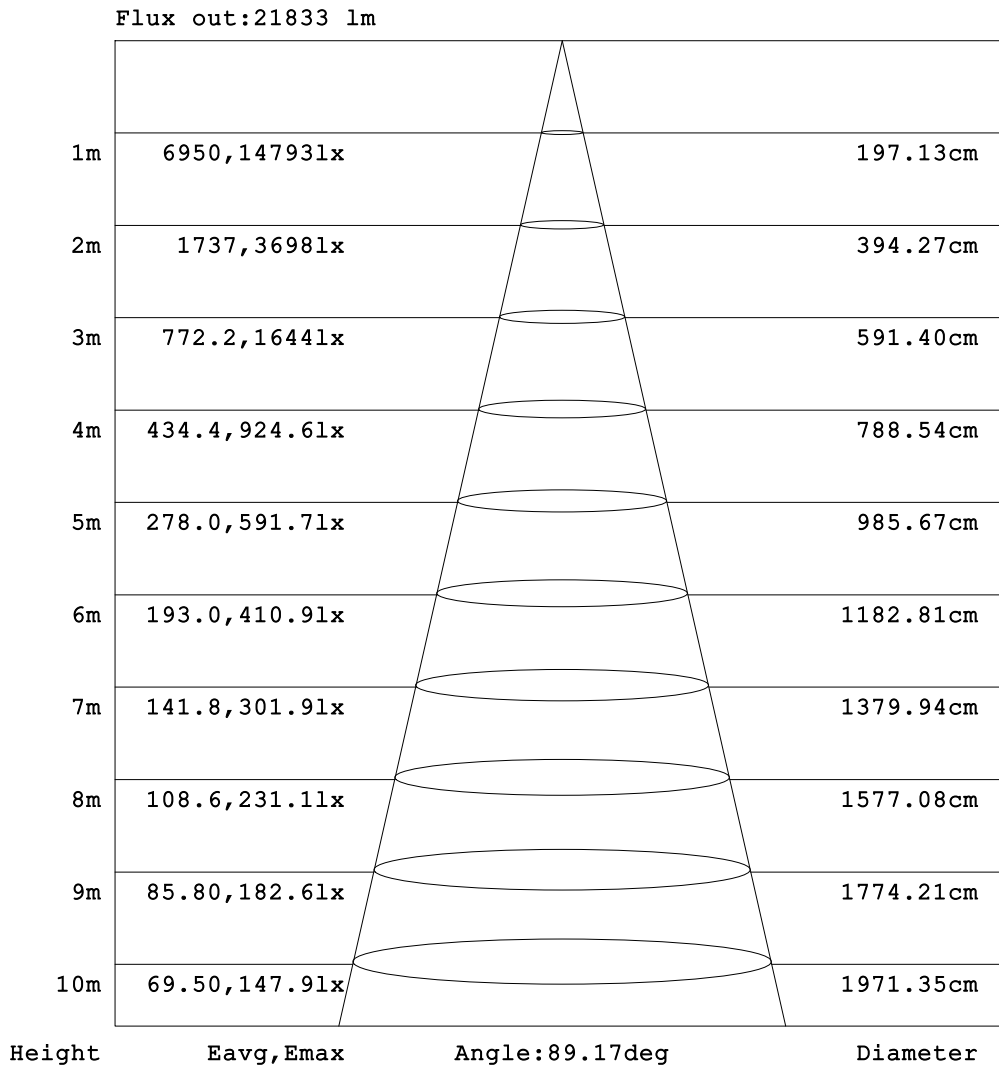


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:26.5DEG  
 Operators:wudashuai  
 Test Date:2021-10-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:62%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

AAI Figure

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:121.4V I:1.948A P:235.8W PF:0.9968 Freq:59.99Hz Lamp Flux:29920 x1 lm |                 |                  |
| NAME: ASD Lighting Corp  | TYPE:           | WEIGHT:          |
| SPEC.:ASD-WHB7-4D22050   | DIM.:           | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.29*1.14m | Shielding Angle: |



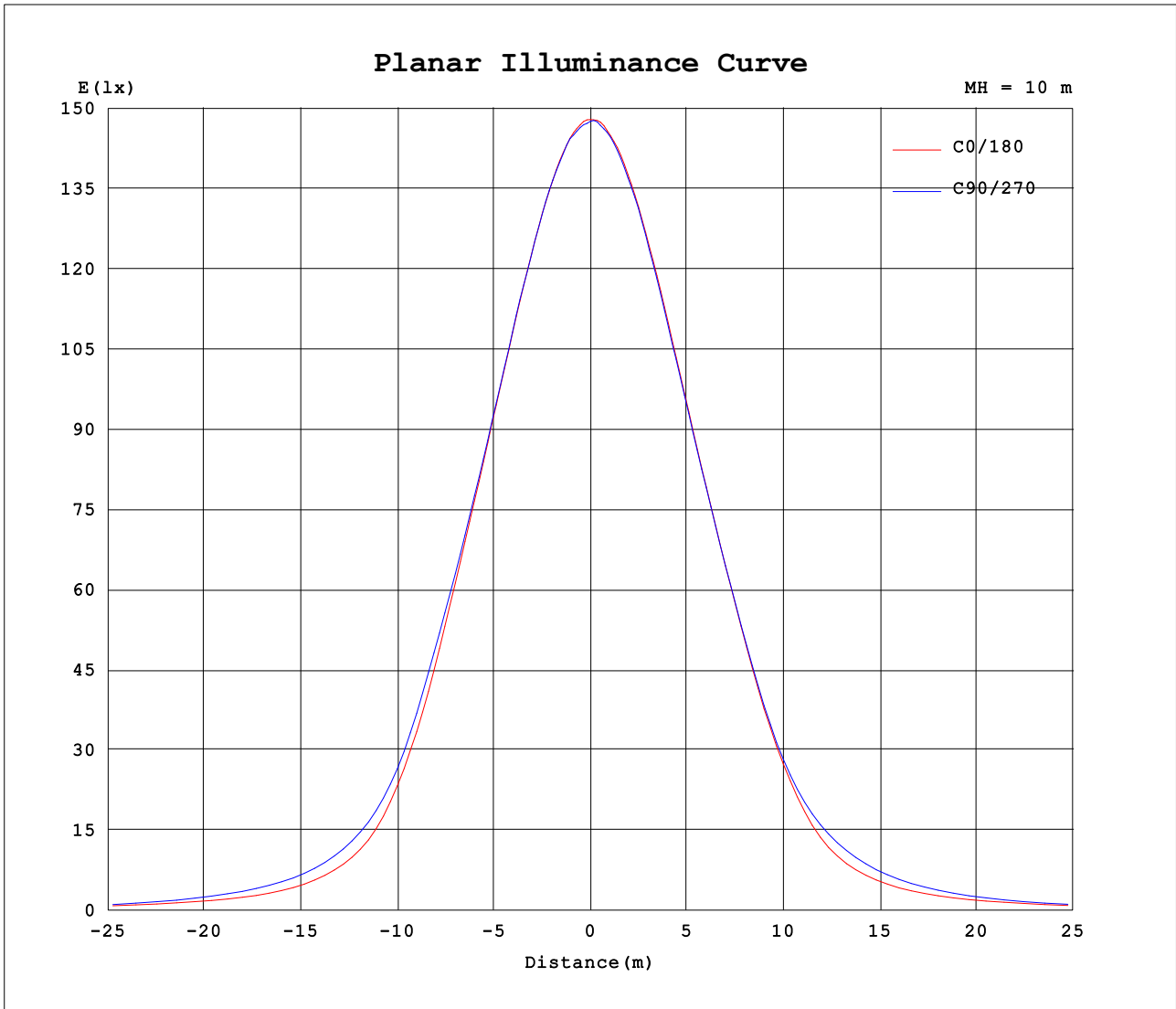
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:26.5DEG  
 Operators:wudashuai  
 Test Date:2021-10-26

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:62%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:



Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 26.5DEG  
 Operators: wudashuai  
 Test Date: 2021-10-26

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity: 62%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                 |                  |
|--|-----------------|------------------|
| Test:U:121.4V I:1.948A P:235.8W PF:0.9968 Freq:59.99Hz Lamp Flux:29920 x1 lm |                 |                  |
| NAME: ASD Lighting Corp  | TYPE:           | WEIGHT:          |
| SPEC.:ASD-WHB7-4D22050   | DIM.:           | SERIAL No.:      |
| MFR.: ASD Lighting Corp  | SUR.:0.29*1.14m | Shielding Angle: |

Table--1

UNIT: x10cd

| C (DEG) \ γ (DEG) | 0    | 45   | 90   | 135  | 180  | 225  | 270  | 315  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| 0                 | 1477 | 1477 | 1477 | 1477 | 1477 | 1477 | 1477 | 1477 |  |  |  |  |  |  |  |  |  |  |  |
| 5                 | 1470 | 1468 | 1468 | 1473 | 1474 | 1469 | 1473 | 1466 |  |  |  |  |  |  |  |  |  |  |  |
| 10                | 1448 | 1446 | 1450 | 1456 | 1459 | 1460 | 1456 | 1450 |  |  |  |  |  |  |  |  |  |  |  |
| 15                | 1417 | 1415 | 1420 | 1427 | 1433 | 1433 | 1431 | 1418 |  |  |  |  |  |  |  |  |  |  |  |
| 20                | 1373 | 1369 | 1379 | 1390 | 1395 | 1394 | 1390 | 1375 |  |  |  |  |  |  |  |  |  |  |  |
| 25                | 1315 | 1309 | 1321 | 1335 | 1344 | 1342 | 1341 | 1317 |  |  |  |  |  |  |  |  |  |  |  |
| 30                | 1234 | 1230 | 1249 | 1266 | 1273 | 1275 | 1272 | 1239 |  |  |  |  |  |  |  |  |  |  |  |
| 35                | 1113 | 1115 | 1148 | 1167 | 1172 | 1177 | 1175 | 1125 |  |  |  |  |  |  |  |  |  |  |  |
| 40                | 911  | 925  | 991  | 1013 | 1008 | 1025 | 1021 | 939  |  |  |  |  |  |  |  |  |  |  |  |
| 45                | 660  | 679  | 753  | 768  | 775  | 800  | 801  | 699  |  |  |  |  |  |  |  |  |  |  |  |
| 50                | 432  | 495  | 554  | 563  | 515  | 579  | 606  | 520  |  |  |  |  |  |  |  |  |  |  |  |
| 55                | 303  | 361  | 420  | 416  | 349  | 421  | 462  | 395  |  |  |  |  |  |  |  |  |  |  |  |
| 60                | 227  | 279  | 330  | 317  | 254  | 321  | 351  | 307  |  |  |  |  |  |  |  |  |  |  |  |
| 65                | 189  | 227  | 261  | 254  | 203  | 253  | 265  | 233  |  |  |  |  |  |  |  |  |  |  |  |
| 70                | 158  | 179  | 180  | 199  | 173  | 200  | 196  | 176  |  |  |  |  |  |  |  |  |  |  |  |
| 75                | 115  | 134  | 105  | 150  | 139  | 154  | 144  | 130  |  |  |  |  |  |  |  |  |  |  |  |
| 80                | 70.6 | 88.2 | 80.1 | 107  | 88.5 | 106  | 106  | 88.3 |  |  |  |  |  |  |  |  |  |  |  |
| 85                | 31.1 | 35.0 | 45.1 | 57.7 | 49.4 | 58.2 | 57.7 | 37.7 |  |  |  |  |  |  |  |  |  |  |  |
| 90                | 1.39 | 1.31 | 1.25 | 4.73 | 6.66 | 7.85 | 1.61 | 1.19 |  |  |  |  |  |  |  |  |  |  |  |
| 95                | 1.60 | 1.63 | 1.55 | 1.48 | 1.37 | 1.37 | 1.36 | 1.48 |  |  |  |  |  |  |  |  |  |  |  |
| 100               | 2.00 | 2.01 | 2.01 | 1.83 | 1.74 | 1.70 | 1.79 | 1.83 |  |  |  |  |  |  |  |  |  |  |  |
| 105               | 2.50 | 2.64 | 2.51 | 2.35 | 2.15 | 2.20 | 2.22 | 2.39 |  |  |  |  |  |  |  |  |  |  |  |
| 110               | 3.18 | 3.45 | 3.08 | 2.97 | 2.72 | 2.85 | 2.76 | 3.06 |  |  |  |  |  |  |  |  |  |  |  |
| 115               | 3.87 | 4.14 | 3.70 | 4.36 | 3.43 | 4.04 | 3.37 | 4.13 |  |  |  |  |  |  |  |  |  |  |  |
| 120               | 5.61 | 4.55 | 4.34 | 4.40 | 4.45 | 4.09 | 3.98 | 4.31 |  |  |  |  |  |  |  |  |  |  |  |
| 125               | 5.54 | 5.07 | 5.02 | 4.94 | 5.77 | 4.62 | 4.63 | 4.82 |  |  |  |  |  |  |  |  |  |  |  |
| 130               | 5.96 | 5.65 | 5.68 | 5.49 | 5.56 | 5.21 | 5.30 | 5.38 |  |  |  |  |  |  |  |  |  |  |  |
| 135               | 6.38 | 6.24 | 6.32 | 6.07 | 5.98 | 5.82 | 5.97 | 5.98 |  |  |  |  |  |  |  |  |  |  |  |
| 140               | 6.84 | 6.83 | 6.92 | 6.66 | 6.44 | 6.44 | 6.61 | 6.59 |  |  |  |  |  |  |  |  |  |  |  |
| 145               | 7.36 | 7.48 | 7.51 | 7.32 | 6.95 | 7.12 | 7.21 | 7.26 |  |  |  |  |  |  |  |  |  |  |  |
| 150               | 7.93 | 8.09 | 8.13 | 7.94 | 7.52 | 7.75 | 7.85 | 7.90 |  |  |  |  |  |  |  |  |  |  |  |
| 155               | 8.59 | 8.69 | 8.77 | 8.52 | 8.23 | 8.36 | 8.50 | 8.53 |  |  |  |  |  |  |  |  |  |  |  |
| 160               | 9.21 | 9.29 | 9.40 | 9.10 | 8.92 | 8.97 | 9.17 | 9.16 |  |  |  |  |  |  |  |  |  |  |  |
| 165               | 9.80 | 9.89 | 9.98 | 9.69 | 9.57 | 9.62 | 9.81 | 9.79 |  |  |  |  |  |  |  |  |  |  |  |
| 170               | 10.3 | 10.4 | 10.5 | 10.3 | 10.1 | 10.2 | 10.4 | 10.3 |  |  |  |  |  |  |  |  |  |  |  |
| 175               | 10.6 | 10.6 | 10.8 | 10.6 | 10.5 | 10.5 | 10.8 | 10.6 |  |  |  |  |  |  |  |  |  |  |  |
| 180               | 10.7 | 10.7 | 10.9 | 10.7 | 10.7 | 10.7 | 10.9 | 10.7 |  |  |  |  |  |  |  |  |  |  |  |

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