

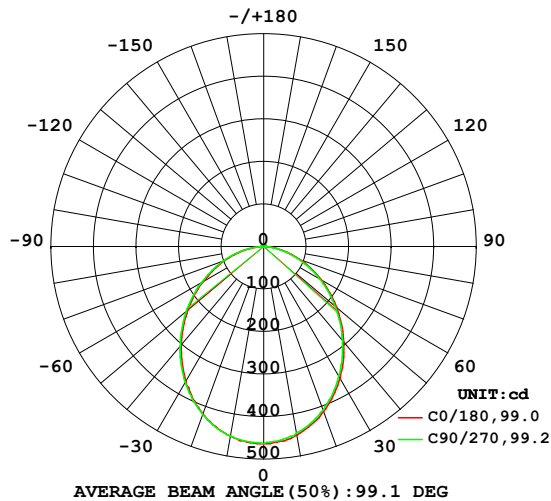
## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINAIRE PHOTOMETRIC TEST REPORT

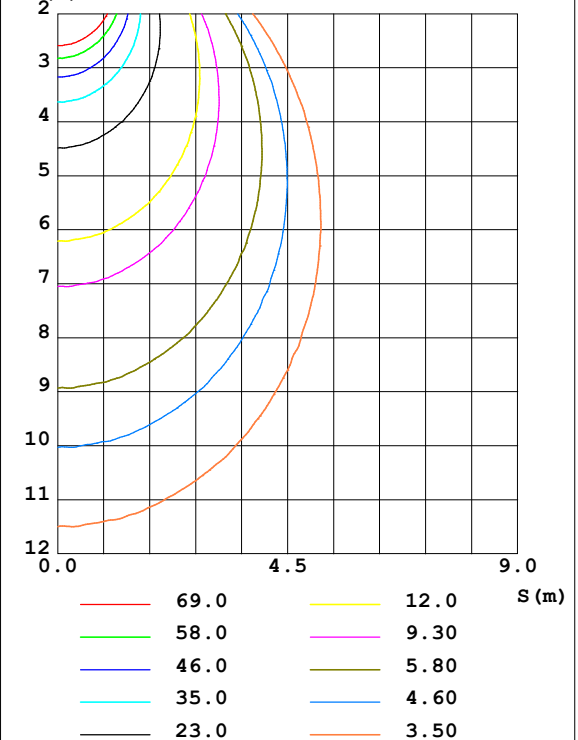
|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |           |                  |
| NAME: ASD-JBR-GB-6D12WH                                                          | TYPE:     | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.11 | Shielding Angle: |

| DATA OF LAMP      |                   | PHOTOMETRIC DATA Eff: 103.28 lm/W |        |                     |           |
|-------------------|-------------------|-----------------------------------|--------|---------------------|-----------|
| MODEL             | ASD-JBR-GB-6D12WH | I <sub>max</sub> (cd)             | 465.2  | S/MH (C0/180)       | 1.18      |
| NOMINAL POWER (W) | 12                | LOR (%)                           | 100.0  | S/MH (C90/270)      | 1.19      |
| RATED VOLTAGE (V) | 120               | TOTAL FLUX (lm)                   | 1156.7 | η UP, DN (C0-180)   | 0.9, 47.9 |
| NOMINAL FLUX (lm) | 1156.68           | CIE CLASS                         | DIRECT | η UP, DN (C180-360) | 0.8, 50.4 |
| LAMPS INSIDE      | 1                 | η up (%)                          | 1.7    | CIBSE SHR NOM       | 1.25      |
| TEST VOLTAGE (V)  | 120.0             | η down (%)                        | 98.3   | CIBSE SHR MAX       | 1.35      |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2024-07-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
Humidity: 65.0%  
Test Distance: 7.074m [K=1.0000]  
Remarks:

## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 450.4                 | 447.3 | 445.2 | 448.8 | 452.6 | 455.6 | 452.8 | 450.0 | 0- 10    | 43.59       | 43.59        | 3.77,3.77  |
| 20       | 412.7                 | 409.2 | 409.4 | 414.0 | 418.5 | 422.0 | 420.5 | 414.6 | 10- 20   | 122.6       | 166.2        | 14.4,14.4  |
| 30       | 359.8                 | 353.9 | 353.2 | 361.3 | 365.8 | 370.2 | 368.8 | 361.9 | 20- 30   | 179.5       | 345.7        | 29.9,29.9  |
| 40       | 292.6                 | 288.3 | 289.1 | 296.3 | 301.4 | 307.0 | 305.9 | 296.9 | 30- 40   | 206.5       | 552.2        | 47.7,47.7  |
| 50       | 224.3                 | 219.9 | 219.7 | 227.7 | 233.3 | 238.6 | 237.6 | 228.4 | 40- 50   | 202.9       | 755.2        | 65.3,65.3  |
| 60       | 155.9                 | 150.0 | 151.1 | 157.3 | 162.1 | 170.0 | 168.3 | 160.0 | 50- 60   | 173.7       | 928.8        | 80.3,80.3  |
| 70       | 91.59                 | 85.84 | 86.83 | 93.49 | 97.89 | 104.7 | 102.3 | 95.52 | 60- 70   | 125.2       | 1054         | 91.1,91.1  |
| 80       | 34.14                 | 30.72 | 29.11 | 37.21 | 36.15 | 44.47 | 43.59 | 37.92 | 70- 80   | 68.52       | 1123         | 97.1,97.1  |
| 90       | 2.394                 | 2.418 | 2.398 | 2.404 | 1.343 | 1.557 | 1.443 | 1.389 | 80- 90   | 14.50       | 1137         | 98.3,98.3  |
| 100      | 2.621                 | 2.667 | 2.650 | 2.656 | 1.754 | 1.707 | 1.733 | 1.762 | 90-100   | 2.206       | 1139         | 98.5,98.5  |
| 110      | 2.905                 | 2.954 | 2.960 | 2.944 | 2.259 | 2.204 | 2.228 | 2.266 | 100-110  | 2.525       | 1142         | 98.7,98.7  |
| 120      | 3.195                 | 3.237 | 3.260 | 3.247 | 2.788 | 2.718 | 2.765 | 2.815 | 110-120  | 2.775       | 1145         | 99,99      |
| 130      | 3.470                 | 3.518 | 3.534 | 3.533 | 3.310 | 3.237 | 3.288 | 3.319 | 120-130  | 2.871       | 1147         | 99.2,99.2  |
| 140      | 3.804                 | 3.872 | 3.873 | 3.852 | 3.824 | 3.748 | 3.801 | 3.830 | 130-140  | 2.793       | 1150         | 99.4,99.4  |
| 150      | 4.178                 | 4.254 | 4.256 | 4.233 | 4.288 | 4.220 | 4.276 | 4.308 | 140-150  | 2.534       | 1153         | 99.7,99.7  |
| 160      | 4.577                 | 4.619 | 4.637 | 4.609 | 4.710 | 4.627 | 4.688 | 4.678 | 150-160  | 2.055       | 1155         | 99.8,99.8  |
| 170      | 4.914                 | 4.944 | 4.967 | 4.933 | 5.055 | 4.941 | 5.001 | 4.967 | 160-170  | 1.358       | 1156         | 100,100    |
| 180      | 5.153                 | 5.099 | 5.152 | 5.113 | 5.167 | 5.113 | 5.144 | 5.113 | 170-180  | 0.4808      | 1157         | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |       |       |       |       |          | UNIT:lm     |              |            |

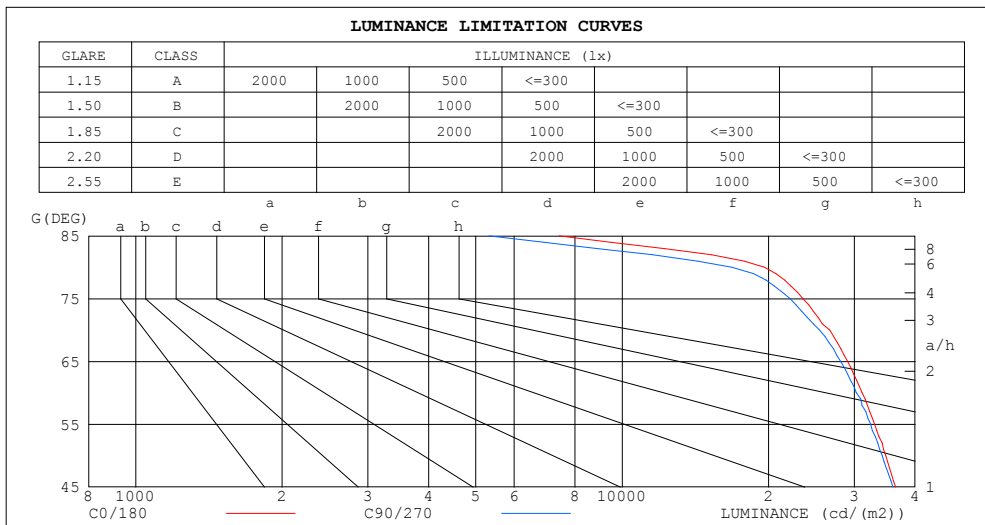
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-07-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.074m [K=1.0000]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |           |                  |
| NAME: ASD-JBR-GB-6D12WH                                                          | TYPE:     | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.11 | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 7425   | 5330    |
| 80                | 19624  | 16797   |
| 75                | 23526  | 22143   |
| 70                | 26729  | 25440   |
| 65                | 29089  | 28105   |
| 60                | 31113  | 30276   |
| 55                | 33007  | 32404   |
| 50                | 34824  | 34258   |
| 45                | 36498  | 36037   |

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-07-30

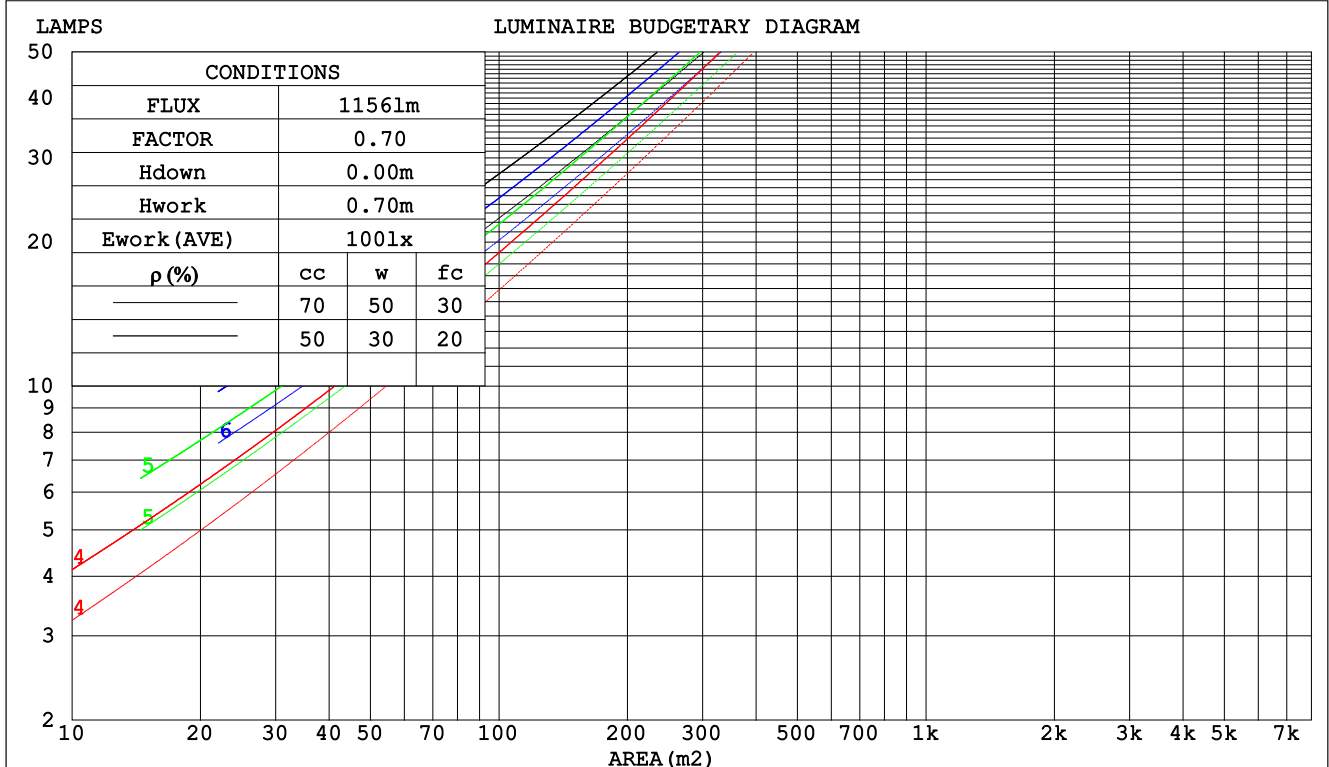
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.074m [K=1.0000]  
Remarks:

## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |           |                  |
| NAME: ASD-JBR-GB-6D12WH                                                          | TYPE:     | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.11 | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0   |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |
| pfc  | 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 | 1.10                            | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | .98 |
| 1.0  | 1.04                  | 1.00 | .97  | 1.02 | .98  | .95  | .97                             | .94  | .92  | .93  | .91  | .89  | .89  | .87  | .86  | .83 |
| 2.0  | .92                   | .85  | .80  | .90  | .84  | .78  | .86                             | .81  | .76  | .82  | .78  | .74  | .79  | .76  | .72  | .70 |
| 3.0  | .81                   | .73  | .67  | .79  | .72  | .66  | .76                             | .70  | .65  | .73  | .68  | .63  | .70  | .66  | .62  | .60 |
| 4.0  | .72                   | .63  | .57  | .70  | .63  | .56  | .68                             | .61  | .55  | .65  | .59  | .55  | .63  | .58  | .54  | .51 |
| 5.0  | .64                   | .56  | .49  | .63  | .55  | .49  | .61                             | .54  | .48  | .59  | .53  | .48  | .57  | .51  | .47  | .45 |
| 6.0  | .58                   | .49  | .43  | .57  | .49  | .43  | .55                             | .48  | .42  | .53  | .47  | .42  | .52  | .46  | .41  | .39 |
| 7.0  | .53                   | .44  | .38  | .52  | .44  | .38  | .50                             | .43  | .38  | .49  | .42  | .37  | .47  | .41  | .37  | .35 |
| 8.0  | .48                   | .40  | .34  | .48  | .40  | .34  | .46                             | .39  | .34  | .45  | .38  | .34  | .44  | .38  | .33  | .31 |
| 9.0  | .45                   | .36  | .31  | .44  | .36  | .31  | .43                             | .36  | .31  | .41  | .35  | .30  | .40  | .34  | .30  | .28 |
| 10.0 | .41                   | .33  | .28  | .41  | .33  | .28  | .39                             | .33  | .28  | .38  | .32  | .28  | .37  | .32  | .28  | .26 |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-07-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.074m [K=1.0000]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## WEC AND CCEC

|                                                                                  |  |  |           |  |                  |
|----------------------------------------------------------------------------------|--|--|-----------|--|------------------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |  |  |           |  |                  |
| NAME: ASD-JBR-GB-6D12WH                                                          |  |  | TYPE:     |  | WEIGHT:          |
| SPEC.:5000K                                                                      |  |  | DIM.:     |  | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          |  |  | SUR.:0.11 |  | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0  | .292                  | .166 | .053 | .284 | .162 | .052 | .270                            | .155 | .049 | .257 | .148 | .048 | .245 | .142 | .046 |   |  |
| 2.0  | .277                  | .152 | .047 | .271 | .149 | .046 | .258                            | .144 | .045 | .247 | .138 | .043 | .236 | .134 | .042 |   |  |
| 3.0  | .258                  | .137 | .041 | .252 | .135 | .041 | .241                            | .131 | .040 | .231 | .127 | .039 | .222 | .123 | .038 |   |  |
| 4.0  | .239                  | .124 | .037 | .234 | .123 | .036 | .224                            | .119 | .036 | .215 | .116 | .035 | .207 | .112 | .034 |   |  |
| 5.0  | .222                  | .113 | .033 | .218 | .112 | .033 | .209                            | .109 | .032 | .201 | .106 | .031 | .193 | .103 | .031 |   |  |
| 6.0  | .207                  | .104 | .030 | .203 | .102 | .029 | .195                            | .100 | .029 | .187 | .097 | .029 | .181 | .095 | .028 |   |  |
| 7.0  | .193                  | .095 | .027 | .189 | .094 | .027 | .182                            | .092 | .027 | .176 | .090 | .026 | .169 | .088 | .026 |   |  |
| 8.0  | .181                  | .088 | .025 | .177 | .087 | .025 | .171                            | .085 | .024 | .165 | .084 | .024 | .159 | .082 | .024 |   |  |
| 9.0  | .170                  | .082 | .023 | .167 | .081 | .023 | .161                            | .080 | .023 | .156 | .078 | .022 | .150 | .076 | .022 |   |  |
| 10.0 | .160                  | .077 | .021 | .157 | .076 | .021 | .152                            | .074 | .021 | .147 | .073 | .021 | .142 | .072 | .021 |   |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                                         |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------------------|------|------|------|------|------|------|------|------|---|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                         | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                                         |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients (CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0  | .203                  | .203 | .203 | .174 | .174 | .174 | .119                                        | .119 | .119 | .068 | .068 | .068 | .022 | .022 | .022 |   |
| 1.0  | .192                  | .169 | .149 | .164 | .145 | .128 | .112                                        | .100 | .089 | .065 | .058 | .052 | .021 | .019 | .017 |   |
| 2.0  | .183                  | .145 | .113 | .157 | .125 | .098 | .108                                        | .086 | .068 | .062 | .050 | .040 | .020 | .016 | .013 |   |
| 3.0  | .175                  | .127 | .089 | .150 | .110 | .077 | .103                                        | .076 | .054 | .060 | .045 | .032 | .019 | .014 | .010 |   |
| 4.0  | .168                  | .114 | .073 | .144 | .099 | .063 | .099                                        | .069 | .045 | .057 | .040 | .026 | .018 | .013 | .009 |   |
| 5.0  | .160                  | .104 | .062 | .138 | .090 | .054 | .095                                        | .063 | .038 | .055 | .037 | .022 | .018 | .012 | .007 |   |
| 6.0  | .153                  | .095 | .053 | .132 | .082 | .047 | .091                                        | .058 | .033 | .053 | .034 | .020 | .017 | .011 | .006 |   |
| 7.0  | .147                  | .088 | .047 | .126 | .076 | .041 | .087                                        | .054 | .029 | .051 | .032 | .017 | .016 | .010 | .006 |   |
| 8.0  | .140                  | .082 | .043 | .121 | .071 | .037 | .084                                        | .050 | .026 | .049 | .030 | .016 | .016 | .010 | .005 |   |
| 9.0  | .134                  | .077 | .039 | .116 | .067 | .034 | .080                                        | .047 | .024 | .047 | .028 | .014 | .015 | .009 | .005 |   |
| 10.0 | .129                  | .073 | .036 | .111 | .064 | .032 | .077                                        | .045 | .022 | .045 | .026 | .013 | .015 | .009 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-07-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.074m [K=1.0000]  
 Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## UGR(Unified Glare Rating) Table

|                                                                                  |               |                  |      |      |      |               |                |                  |      |      |      |
|----------------------------------------------------------------------------------|---------------|------------------|------|------|------|---------------|----------------|------------------|------|------|------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |               |                  |      |      |      |               |                |                  |      |      |      |
| NAME: ASD-JBR-GB-6D12WH                                                          |               |                  |      |      |      | TYPE:         |                | WEIGHT:          |      |      |      |
| SPEC.:5000K                                                                      |               |                  |      |      |      | DIM.:         |                | SERIAL No.:      |      |      |      |
| MFR.: ASD Lighting Corp                                                          |               |                  |      |      |      | SUR.:0.11     |                | 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                                                                    | 24.1          | 25.5             | 24.4 | 25.8 | 26.0 | 24.0          | 25.4           | 24.3             | 25.7 | 25.9 |      |
|                                                                                  | 3H            | 25.4             | 26.7 | 25.7 | 27.0 | 27.2          | 25.2           | 26.6             | 25.6 | 26.8 | 27.1 |
|                                                                                  | 4H            | 25.9             | 27.1 | 26.2 | 27.4 | 27.7          | 25.7           | 27.0             | 26.0 | 27.2 | 27.5 |
|                                                                                  | 6H            | 26.2             | 27.4 | 26.5 | 27.7 | 28.0          | 26.0           | 27.2             | 26.3 | 27.5 | 27.8 |
|                                                                                  | 8H            | 26.2             | 27.4 | 26.6 | 27.7 | 28.0          | 26.0           | 27.1             | 26.3 | 27.4 | 27.8 |
|                                                                                  | 12H           | 26.2             | 27.3 | 26.6 | 27.6 | 28.0          | 25.9           | 27.0             | 26.3 | 27.4 | 27.7 |
| 4H                                                                               | 2H            | 24.6             | 25.8 | 24.9 | 26.1 | 26.4          | 24.5           | 25.8             | 24.8 | 26.0 | 26.3 |
|                                                                                  | 3H            | 26.0             | 27.1 | 26.4 | 27.5 | 27.8          | 25.9           | 27.0             | 26.3 | 27.4 | 27.7 |
|                                                                                  | 4H            | 26.6             | 27.6 | 27.0 | 28.0 | 28.4          | 26.5           | 27.5             | 26.9 | 27.8 | 28.2 |
|                                                                                  | 6H            | 27.1             | 27.9 | 27.5 | 28.3 | 28.7          | 26.9           | 27.7             | 27.3 | 28.1 | 28.5 |
|                                                                                  | 8H            | 27.1             | 28.0 | 27.6 | 28.4 | 28.8          | 26.9           | 27.7             | 27.3 | 28.1 | 28.5 |
|                                                                                  | 12H           | 27.1             | 27.9 | 27.6 | 28.3 | 28.7          | 26.9           | 27.6             | 27.3 | 28.0 | 28.5 |
| 8H                                                                               | 4H            | 26.8             | 27.6 | 27.2 | 28.0 | 28.5          | 26.7           | 27.5             | 27.1 | 27.9 | 28.3 |
|                                                                                  | 6H            | 27.3             | 28.0 | 27.8 | 28.5 | 28.9          | 27.1           | 27.8             | 27.6 | 28.3 | 28.7 |
|                                                                                  | 8H            | 27.5             | 28.1 | 28.0 | 28.5 | 29.0          | 27.2           | 27.8             | 27.7 | 28.3 | 28.8 |
|                                                                                  | 12H           | 27.5             | 28.0 | 28.0 | 28.5 | 29.0          | 27.2           | 27.7             | 27.7 | 28.2 | 28.7 |
| 12H                                                                              | 4H            | 26.8             | 27.6 | 27.2 | 28.0 | 28.4          | 26.7           | 27.4             | 27.1 | 27.8 | 28.3 |
|                                                                                  | 6H            | 27.4             | 28.0 | 27.8 | 28.4 | 28.9          | 27.2           | 27.8             | 27.7 | 28.2 | 28.7 |
|                                                                                  | 8H            | 27.5             | 28.0 | 28.0 | 28.5 | 29.0          | 27.3           | 27.8             | 27.8 | 28.3 | 28.8 |
| Variations with the observer position at spacings:                               |               |                  |      |      |      |               |                |                  |      |      |      |
| S = 1.0H                                                                         | + 0.2 / - 0.3 |                  |      |      |      | + 0.2 / - 0.3 |                |                  |      |      |      |
| 1.5H                                                                             | + 0.1 / - 0.3 |                  |      |      |      | + 0.1 / - 0.3 |                |                  |      |      |      |
| 2.0H                                                                             | + 0.3 / - 0.3 |                  |      |      |      | + 0.3 / - 0.3 |                |                  |      |      |      |

CIE Pub.117, 1157 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.5)  
Area: 0.01 m2

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-07-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.074m [K=1.0000]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## UTILIZATION FACTORS TABLE

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |           |                  |
| NAME: ASD-JBR-GB-6D12WH                                                          | TYPE:     | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.11 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 59                                                   | 48  | 41        | 58  | 48  | 41  | 57  | 47            | 41  | 35     |
| 0.80                             | 69                                                   | 58  | 51        | 68  | 58  | 51  | 66  | 57            | 50  | 44     |
| 1.00                             | 78                                                   | 67  | 60        | 76  | 66  | 60  | 74  | 67            | 59  | 52     |
| 1.25                             | 84                                                   | 74  | 68        | 83  | 74  | 67  | 80  | 72            | 66  | 59     |
| 1.50                             | 89                                                   | 80  | 73        | 88  | 79  | 73  | 84  | 77            | 71  | 64     |
| 2.00                             | 96                                                   | 88  | 82        | 94  | 86  | 81  | 90  | 84            | 79  | 71     |
| 2.50                             | 100                                                  | 92  | 86        | 97  | 91  | 85  | 93  | 88            | 83  | 75     |
| 3.00                             | 103                                                  | 96  | 91        | 101 | 95  | 90  | 96  | 91            | 87  | 79     |
| 4.00                             | 107                                                  | 101 | 97        | 104 | 99  | 95  | 100 | 96            | 92  | 83     |
| 5.00                             | 109                                                  | 104 | 100       | 106 | 102 | 99  | 102 | 98            | 95  | 86     |
| ROOM INDEX                       | UF(total)                                            |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

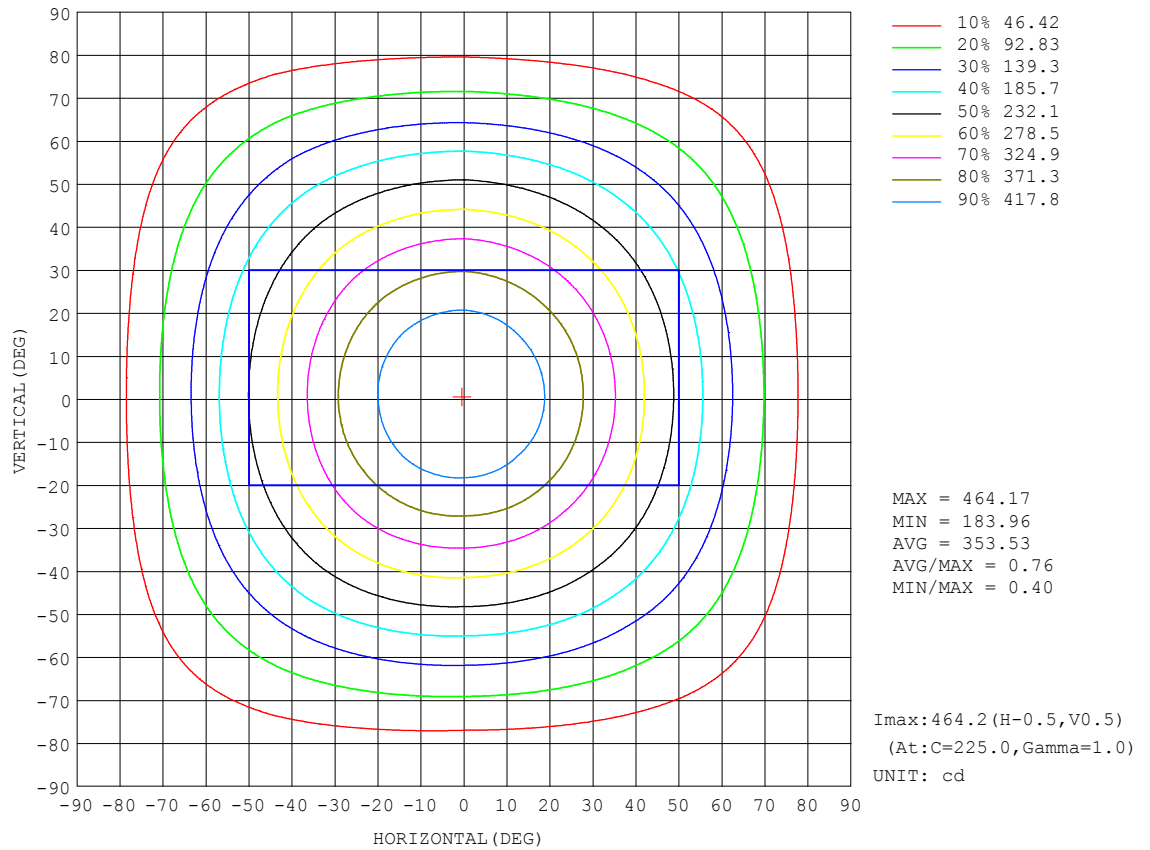
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-07-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.074m [K=1.0000]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |           |                  |
| NAME: ASD-JBR-GB-6D12WH                                                          | TYPE:     | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.11 | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-07-30

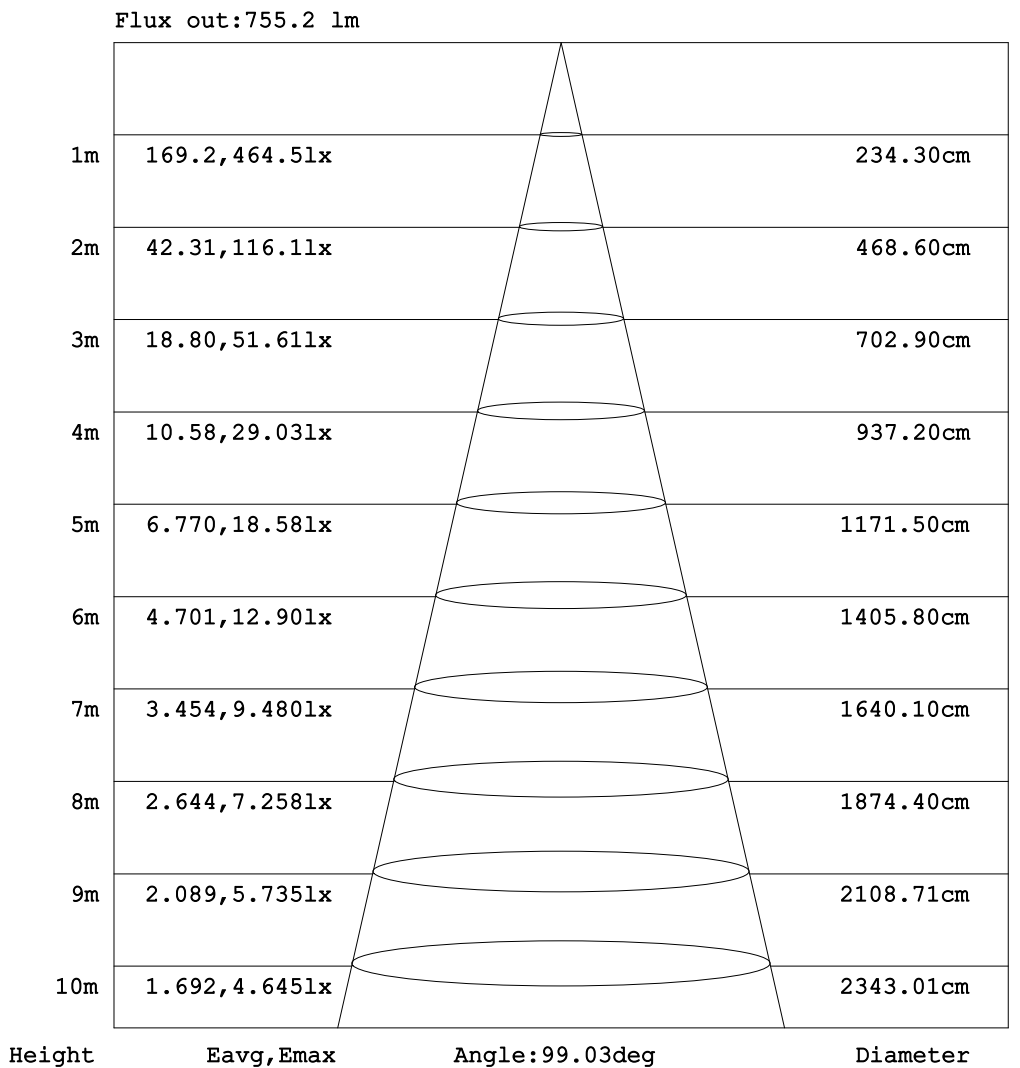
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.074m [K=1.0000]  
Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |           |                  |
| NAME: ASD-JBR-GB-6D12WH                                                          | TYPE:     | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.11 | Shielding Angle: |



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

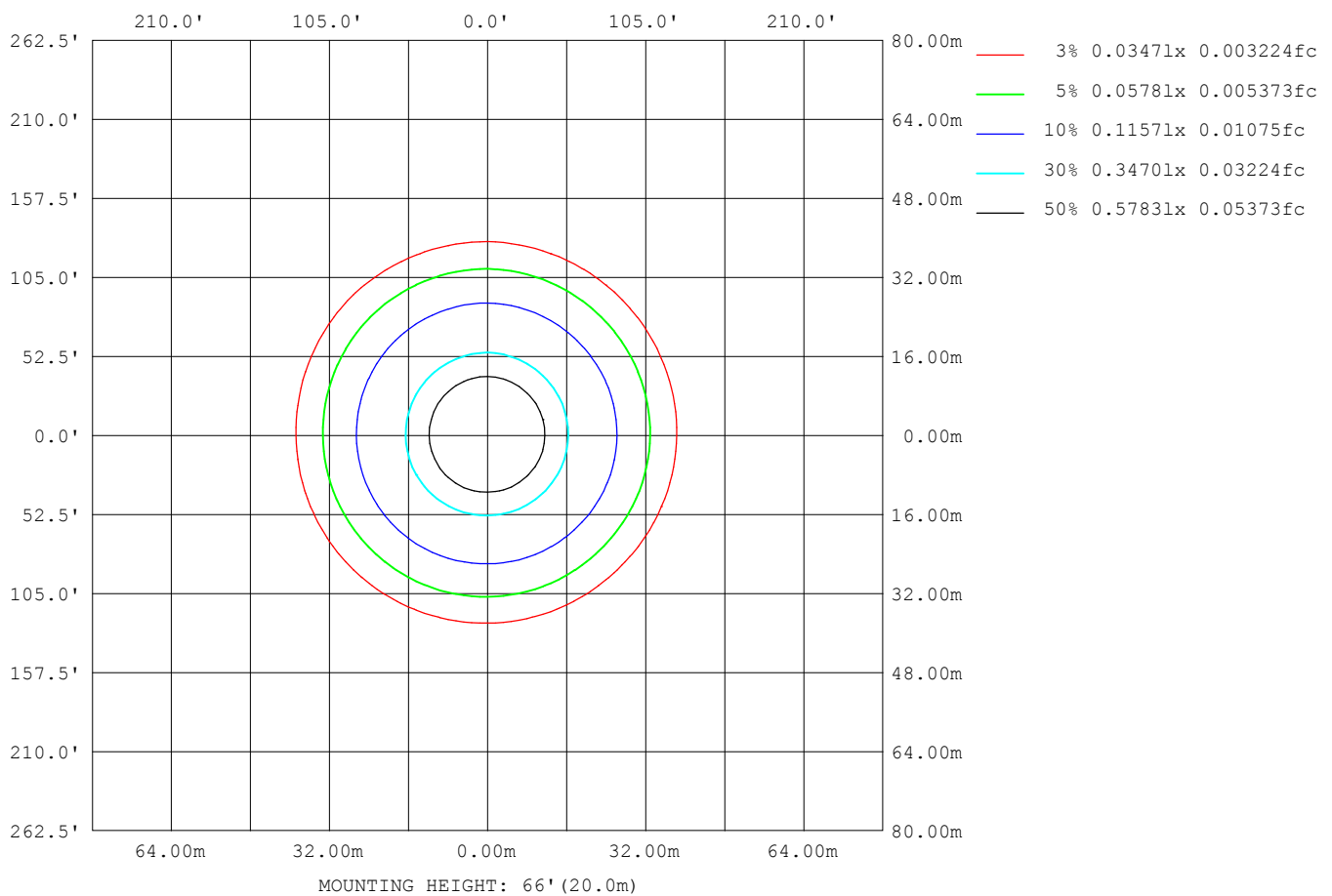
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-07-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.074m [K=1.0000]  
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |           |                  |
| NAME: ASD-JBR-GB-6D12WH                                                          | TYPE:     | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.11 | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-07-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.074m [K=1.0000]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LED Avg.L Report

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |           |                  |
| NAME: ASD-JBR-GB-6D12WH                                                          | TYPE:     | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.11 | Shielding Angle: |

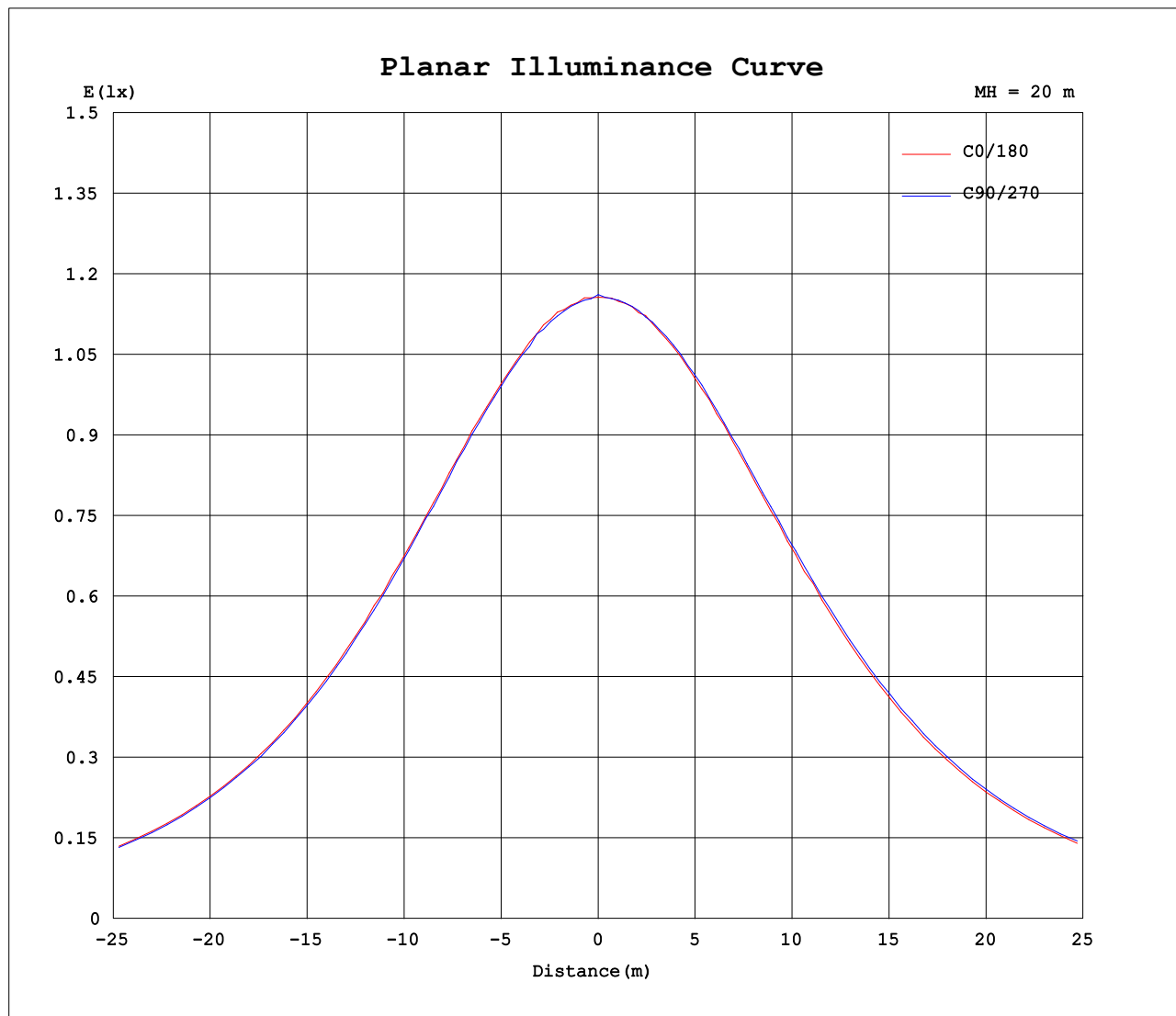
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 29897 |
| L_0~180 (75) av  | 24912 |
| L_0~180 (85) av  | 7432  |
| L_90~270 (65) av | 29940 |
| L_90~270 (75) av | 24942 |
| L_90~270 (85) av | 9086  |
| L_45 (65) av     | 29920 |
| L_45 (75) av     | 24954 |
| L_45 (85) av     | 13973 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-07-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.074m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2024-07-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity: 65.0%  
 Test Distance: 7.074m [K=1.0000]  
 Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                  |           |                  |
|----------------------------------------------------------------------------------|-----------|------------------|
| Test:U:120.10V I:0.0940A P:11.200W PF:0.9850 Freq:60.00Hz Lamp Flux:1156.68x1 lm |           |                  |
| NAME: ASD-JBR-GB-6D12WH                                                          | TYPE:     | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:     | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.11 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 45   | 90   | 135  | 180  | 225  | 270  | 315  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| 0                  | 464  | 464  | 464  | 464  | 464  | 464  | 464  | 464  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 459  | 458  | 457  | 459  | 462  | 462  | 460  | 458  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 450  | 447  | 445  | 449  | 453  | 456  | 453  | 450  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 433  | 431  | 430  | 434  | 438  | 441  | 440  | 435  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 413  | 409  | 409  | 414  | 418  | 422  | 421  | 415  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 387  | 385  | 383  | 389  | 395  | 398  | 397  | 389  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 360  | 354  | 353  | 361  | 366  | 370  | 369  | 362  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 327  | 321  | 321  | 330  | 335  | 340  | 338  | 329  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 293  | 288  | 289  | 296  | 301  | 307  | 306  | 297  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 259  | 254  | 254  | 262  | 267  | 273  | 272  | 263  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 224  | 220  | 220  | 228  | 233  | 239  | 238  | 228  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 190  | 186  | 185  | 194  | 199  | 204  | 203  | 194  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 156  | 150  | 151  | 157  | 162  | 170  | 168  | 160  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 123  | 117  | 119  | 125  | 130  | 137  | 135  | 127  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 91.6 | 85.8 | 86.8 | 93.5 | 97.9 | 105  | 102  | 95.5 |  |  |  |  |  |  |  |  |  |  |
| 75                 | 61.0 | 57.0 | 57.2 | 64.1 | 67.9 | 72.5 | 71.9 | 64.8 |  |  |  |  |  |  |  |  |  |  |
| 80                 | 34.1 | 30.7 | 29.1 | 37.2 | 36.1 | 44.5 | 43.6 | 37.9 |  |  |  |  |  |  |  |  |  |  |
| 85                 | 6.48 | 7.45 | 4.64 | 11.8 | 6.47 | 16.7 | 11.2 | 12.7 |  |  |  |  |  |  |  |  |  |  |
| 90                 | 2.39 | 2.42 | 2.40 | 2.40 | 1.34 | 1.56 | 1.44 | 1.39 |  |  |  |  |  |  |  |  |  |  |
| 95                 | 2.48 | 2.53 | 2.53 | 2.51 | 1.53 | 1.49 | 1.51 | 1.54 |  |  |  |  |  |  |  |  |  |  |
| 100                | 2.62 | 2.67 | 2.65 | 2.66 | 1.75 | 1.71 | 1.73 | 1.76 |  |  |  |  |  |  |  |  |  |  |
| 105                | 2.75 | 2.80 | 2.80 | 2.79 | 2.00 | 1.95 | 1.97 | 2.02 |  |  |  |  |  |  |  |  |  |  |
| 110                | 2.91 | 2.95 | 2.96 | 2.94 | 2.26 | 2.20 | 2.23 | 2.27 |  |  |  |  |  |  |  |  |  |  |
| 115                | 3.06 | 3.09 | 3.10 | 3.10 | 2.53 | 2.45 | 2.49 | 2.54 |  |  |  |  |  |  |  |  |  |  |
| 120                | 3.19 | 3.24 | 3.26 | 3.25 | 2.79 | 2.72 | 2.77 | 2.82 |  |  |  |  |  |  |  |  |  |  |
| 125                | 3.33 | 3.37 | 3.40 | 3.40 | 3.05 | 2.98 | 3.03 | 3.07 |  |  |  |  |  |  |  |  |  |  |
| 130                | 3.47 | 3.52 | 3.53 | 3.53 | 3.31 | 3.24 | 3.29 | 3.32 |  |  |  |  |  |  |  |  |  |  |
| 135                | 3.63 | 3.68 | 3.69 | 3.68 | 3.57 | 3.50 | 3.57 | 3.59 |  |  |  |  |  |  |  |  |  |  |
| 140                | 3.80 | 3.87 | 3.87 | 3.85 | 3.82 | 3.75 | 3.80 | 3.83 |  |  |  |  |  |  |  |  |  |  |
| 145                | 4.00 | 4.07 | 4.06 | 4.05 | 4.06 | 3.99 | 4.04 | 4.07 |  |  |  |  |  |  |  |  |  |  |
| 150                | 4.18 | 4.25 | 4.26 | 4.23 | 4.29 | 4.22 | 4.28 | 4.31 |  |  |  |  |  |  |  |  |  |  |
| 155                | 4.37 | 4.45 | 4.45 | 4.45 | 4.51 | 4.43 | 4.49 | 4.50 |  |  |  |  |  |  |  |  |  |  |
| 160                | 4.58 | 4.62 | 4.64 | 4.61 | 4.71 | 4.63 | 4.69 | 4.68 |  |  |  |  |  |  |  |  |  |  |
| 165                | 4.75 | 4.78 | 4.81 | 4.79 | 4.89 | 4.81 | 4.86 | 4.84 |  |  |  |  |  |  |  |  |  |  |
| 170                | 4.91 | 4.94 | 4.97 | 4.93 | 5.05 | 4.94 | 5.00 | 4.97 |  |  |  |  |  |  |  |  |  |  |
| 175                | 5.07 | 5.05 | 5.08 | 5.04 | 5.14 | 5.06 | 5.10 | 5.07 |  |  |  |  |  |  |  |  |  |  |
| 180                | 5.15 | 5.10 | 5.15 | 5.11 | 5.17 | 5.11 | 5.14 | 5.11 |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-07-30

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.074m [K=1.0000]  
Remarks: