

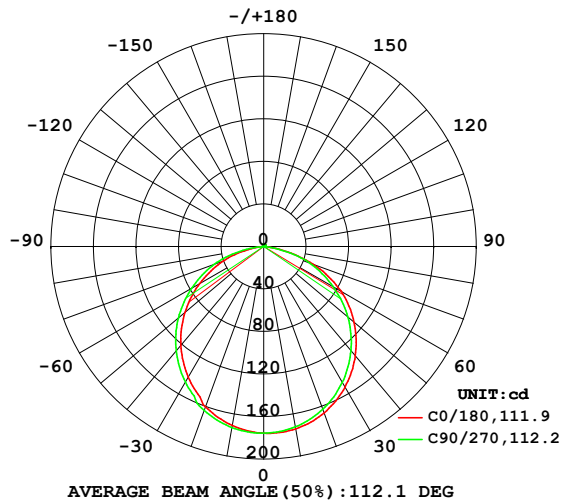
## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINAIRE PHOTOMETRIC TEST REPORT

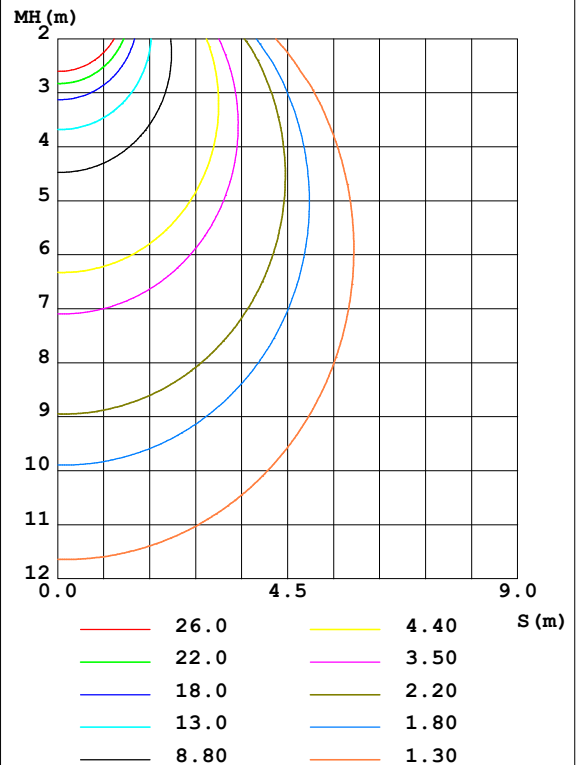
|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |            |                  |
| NAME: ASD-JBR-3D6BK                                                              | TYPE:      | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:      | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.135 | Shielding Angle: |

| DATA OF LAMP      |               | PHOTOMETRIC DATA Eff: 82.67 lm/W |        |                     |           |
|-------------------|---------------|----------------------------------|--------|---------------------|-----------|
| MODEL             | ASD-JBR-3D6BK | I <sub>max</sub> (cd)            | 175.8  | S/MH (C0/180)       | 1.21      |
| NOMINAL POWER (W) | 6             | LOR (%)                          | 100.0  | S/MH (C90/270)      | 1.25      |
| RATED VOLTAGE (V) | 120           | TOTAL FLUX (lm)                  | 499.35 | η UP, DN (C0-180)   | 0.9, 49.5 |
| NOMINAL FLUX (lm) | 499.354       | CIE CLASS                        | DIRECT | η UP, DN (C180-360) | 0.8, 48.8 |
| 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: 2024-09-24

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       | 174.1                 | 173.4 | 172.2 | 171.5 | 171.0  | 171.6  | 172.9  | 173.5  | 0- 10    | 16.62       | 16.62        | 3.33,3.33  |
| 20       | 166.5                 | 165.1 | 162.8 | 161.5 | 160.4  | 161.6  | 164.0  | 165.4  | 10- 20   | 47.61       | 64.23        | 12.9,12.9  |
| 30       | 152.9                 | 148.9 | 147.8 | 143.5 | 142.0  | 146.0  | 147.3  | 151.6  | 20- 30   | 71.82       | 136.0        | 27.2,27.2  |
| 40       | 134.1                 | 129.9 | 127.8 | 123.3 | 121.2  | 125.5  | 128.1  | 132.5  | 30- 40   | 86.46       | 222.5        | 44.6,44.6  |
| 50       | 111.0                 | 106.7 | 103.4 | 98.97 | 96.62  | 101.0  | 104.7  | 109.2  | 40- 50   | 89.73       | 312.2        | 62.5,62.5  |
| 60       | 84.16                 | 80.30 | 75.09 | 71.81 | 69.20  | 72.47  | 78.01  | 81.80  | 50- 60   | 81.00       | 393.2        | 78.7,78.7  |
| 70       | 49.81                 | 51.48 | 46.69 | 42.19 | 40.76  | 44.10  | 49.69  | 51.62  | 60- 70   | 61.31       | 454.5        | 91,91      |
| 80       | 11.84                 | 18.29 | 9.915 | 9.818 | 8.532  | 14.88  | 16.51  | 14.47  | 70- 80   | 32.05       | 486.6        | 97.4,97.4  |
| 90       | 1.040                 | 1.485 | 1.032 | 1.100 | 0.6735 | 0.7893 | 0.7822 | 0.6539 | 80- 90   | 4.289       | 490.9        | 98.3,98.3  |
| 100      | 1.105                 | 1.124 | 1.136 | 1.171 | 0.8451 | 0.8055 | 0.7889 | 0.7605 | 90-100   | 0.9850      | 491.9        | 98.5,98.5  |
| 110      | 1.250                 | 1.254 | 1.264 | 1.307 | 1.063  | 1.006  | 0.9821 | 0.9589 | 100-110  | 1.110       | 493.0        | 98.7,98.7  |
| 120      | 1.352                 | 1.382 | 1.384 | 1.490 | 1.269  | 1.231  | 1.186  | 1.226  | 110-120  | 1.213       | 494.2        | 99,99      |
| 130      | 1.456                 | 1.489 | 1.478 | 1.659 | 1.466  | 1.418  | 1.379  | 1.471  | 120-130  | 1.255       | 495.4        | 99.2,99.2  |
| 140      | 1.581                 | 1.614 | 1.611 | 1.741 | 1.659  | 1.614  | 1.580  | 1.560  | 130-140  | 1.200       | 496.6        | 99.5,99.5  |
| 150      | 1.739                 | 1.778 | 1.781 | 1.897 | 1.856  | 1.788  | 1.781  | 1.751  | 140-150  | 1.071       | 497.7        | 99.7,99.7  |
| 160      | 1.916                 | 1.927 | 1.941 | 1.971 | 2.018  | 1.965  | 1.956  | 1.929  | 150-160  | 0.8662      | 498.6        | 99.8,99.8  |
| 170      | 2.064                 | 2.067 | 2.068 | 2.091 | 2.132  | 2.080  | 2.100  | 2.067  | 160-170  | 0.5712      | 499.2        | 100,100    |
| 180      | 2.168                 | 2.143 | 2.144 | 2.146 | 2.174  | 2.138  | 2.147  | 2.143  | 170-180  | 0.2016      | 499.4        | 100,100    |
| DEG      | LUMINOUS INTENSITY:cd |       |       |       |        |        |        |        |          | UNIT:lm     |              |            |

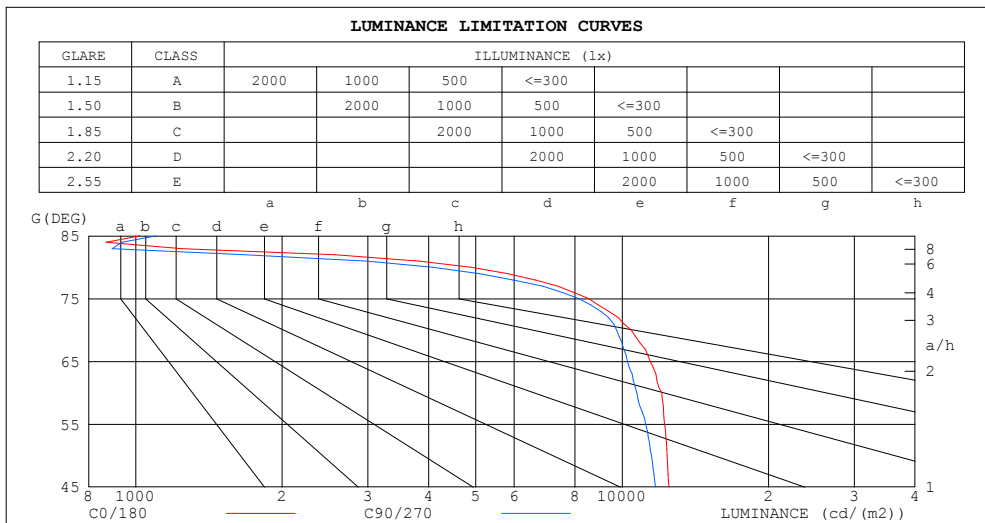
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-09-24

$\gamma$  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:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |            |                  |
| NAME: ASD-JBR-3D6BK                                                              | TYPE:      | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:      | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.135 | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 1020   | 1101    |
| 80                | 4887   | 4073    |
| 75                | 8541   | 8147    |
| 70                | 10435  | 9737    |
| 65                | 11414  | 10248   |
| 60                | 12061  | 10712   |
| 55                | 12229  | 11184   |
| 50                | 12376  | 11479   |
| 45                | 12476  | 11712   |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-09-24

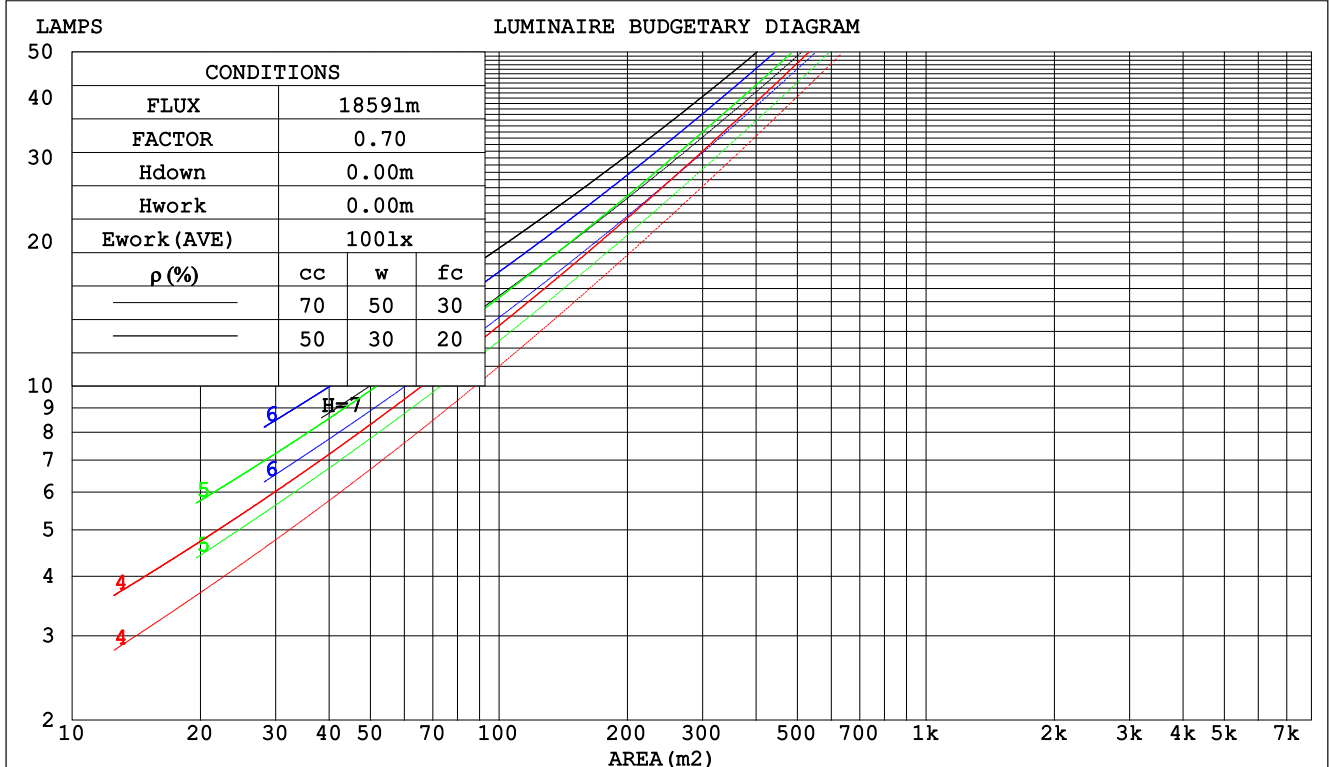
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.074m [K=1.0000]  
 Remarks:

## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |            |                  |
| NAME: ASD-JBR-3D6BK                                                              | TYPE:      | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:      | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.135 | 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 | .96  | 1.02 | .98  | .95  | .97                             | .94  | .91  | .93  | .90  | .88  | .89  | .87  | .85  | .83 |
| 2.0  | .91                   | .84  | .79  | .89  | .83  | .77  | .85                             | .80  | .75  | .81  | .77  | .73  | .78  | .75  | .72  | .69 |
| 3.0  | .80                   | .72  | .65  | .78  | .71  | .65  | .75                             | .68  | .63  | .72  | .66  | .62  | .69  | .65  | .61  | .58 |
| 4.0  | .71                   | .62  | .55  | .69  | .61  | .55  | .66                             | .59  | .54  | .64  | .58  | .53  | .62  | .56  | .52  | .50 |
| 5.0  | .63                   | .54  | .48  | .62  | .53  | .47  | .60                             | .52  | .46  | .57  | .51  | .46  | .55  | .50  | .45  | .43 |
| 6.0  | .57                   | .48  | .41  | .56  | .47  | .41  | .54                             | .46  | .41  | .52  | .45  | .40  | .50  | .44  | .40  | .38 |
| 7.0  | .51                   | .43  | .37  | .51  | .42  | .36  | .49                             | .41  | .36  | .47  | .41  | .36  | .46  | .40  | .35  | .33 |
| 8.0  | .47                   | .38  | .33  | .46  | .38  | .32  | .45                             | .37  | .32  | .43  | .37  | .32  | .42  | .36  | .32  | .30 |
| 9.0  | .43                   | .35  | .29  | .42  | .35  | .29  | .41                             | .34  | .29  | .40  | .33  | .29  | .39  | .33  | .28  | .27 |
| 10.0 | .40                   | .32  | .27  | .39  | .32  | .26  | .38                             | .31  | .26  | .37  | .31  | .26  | .36  | .30  | .26  | .24 |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-09-24

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:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |  |  |            |  |                  |
| NAME: ASD-JBR-3D6BK                                                              |  |  | TYPE:      |  | WEIGHT:          |
| SPEC.:5000K                                                                      |  |  | DIM.:      |  | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          |  |  | SUR.:0.135 |  | 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  | .297                  | .169 | .053 | .289 | .165 | .052 | .275                            | .158 | .050 | .262 | .151 | .048 | .250 | .145 | .047 |   |  |
| 2.0  | .284                  | .156 | .048 | .277 | .153 | .047 | .265                            | .147 | .046 | .253 | .142 | .044 | .243 | .137 | .043 |   |  |
| 3.0  | .265                  | .141 | .042 | .259 | .139 | .042 | .248                            | .134 | .041 | .238 | .130 | .040 | .228 | .126 | .039 |   |  |
| 4.0  | .245                  | .128 | .038 | .240 | .126 | .037 | .230                            | .122 | .036 | .221 | .119 | .036 | .213 | .116 | .035 |   |  |
| 5.0  | .228                  | .116 | .034 | .223 | .114 | .033 | .214                            | .111 | .033 | .206 | .109 | .032 | .198 | .106 | .032 |   |  |
| 6.0  | .211                  | .106 | .030 | .207 | .105 | .030 | .199                            | .102 | .030 | .192 | .100 | .029 | .185 | .097 | .029 |   |  |
| 7.0  | .197                  | .097 | .028 | .193 | .096 | .027 | .186                            | .094 | .027 | .180 | .092 | .027 | .173 | .090 | .026 |   |  |
| 8.0  | .184                  | .090 | .025 | .181 | .089 | .025 | .174                            | .087 | .025 | .169 | .085 | .025 | .163 | .084 | .024 |   |  |
| 9.0  | .173                  | .084 | .023 | .170 | .083 | .023 | .164                            | .081 | .023 | .159 | .079 | .023 | .153 | .078 | .023 |   |  |
| 10.0 | .163                  | .078 | .022 | .160 | .077 | .022 | .155                            | .076 | .021 | .150 | .074 | .021 | .145 | .073 | .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 | .148 | .165 | .145 | .128 | .113                                       | .100 | .088 | .065 | .058 | .051 | .021 | .019 | .017 |   |
| 2.0  | .184                  | .145 | .112 | .158 | .125 | .097 | .108                                       | .086 | .068 | .062 | .050 | .040 | .020 | .016 | .013 |   |
| 3.0  | .177                  | .127 | .088 | .151 | .110 | .076 | .104                                       | .076 | .054 | .060 | .045 | .032 | .019 | .014 | .010 |   |
| 4.0  | .169                  | .114 | .072 | .145 | .099 | .063 | .100                                       | .069 | .044 | .058 | .040 | .026 | .019 | .013 | .009 |   |
| 5.0  | .162                  | .104 | .061 | .139 | .090 | .053 | .096                                       | .063 | .037 | .055 | .037 | .022 | .018 | .012 | .007 |   |
| 6.0  | .155                  | .095 | .053 | .133 | .083 | .046 | .092                                       | .058 | .033 | .053 | .034 | .019 | .017 | .011 | .006 |   |
| 7.0  | .148                  | .089 | .047 | .127 | .077 | .041 | .088                                       | .054 | .029 | .051 | .032 | .017 | .017 | .010 | .006 |   |
| 8.0  | .142                  | .083 | .042 | .122 | .072 | .037 | .084                                       | .050 | .026 | .049 | .030 | .016 | .016 | .010 | .005 |   |
| 9.0  | .136                  | .078 | .039 | .117 | .068 | .034 | .081                                       | .047 | .024 | .047 | .028 | .014 | .015 | .009 | .005 |   |
| 10.0 | .130                  | .074 | .036 | .112 | .064 | .031 | .078                                       | .045 | .022 | .045 | .027 | .013 | .015 | .009 | .004 |   |

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-09-24

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:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |               |                  |      |      |      |               |                |                  |      |      |      |
| NAME: ASD-JBR-3D6BK                                                              |               |                  |      |      |      | TYPE:         |                | WEIGHT:          |      |      |      |
| SPEC.:5000K                                                                      |               |                  |      |      |      | DIM.:         |                | SERIAL No.:      |      |      |      |
| MFR.: ASD Lighting Corp                                                          |               |                  |      |      |      | SUR.:0.135    |                | 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          | 25.6             | 24.4 | 25.8 | 26.1 | 23.7          | 25.2           | 24.0             | 25.4 | 25.7 |      |
|                                                                                  | 3H            | 25.6             | 27.0 | 25.9 | 27.3 | 27.5          | 25.2           | 26.6             | 25.5 | 26.9 | 27.1 |
|                                                                                  | 4H            | 26.1             | 27.4 | 26.5 | 27.7 | 28.0          | 25.7           | 27.0             | 26.1 | 27.3 | 27.6 |
|                                                                                  | 6H            | 26.3             | 27.5 | 26.7 | 27.8 | 28.1          | 25.9           | 27.1             | 26.3 | 27.4 | 27.8 |
|                                                                                  | 8H            | 26.3             | 27.5 | 26.6 | 27.8 | 28.1          | 25.9           | 27.1             | 26.2 | 27.4 | 27.7 |
|                                                                                  | 12H           | 26.2             | 27.4 | 26.6 | 27.7 | 28.0          | 25.8           | 27.0             | 26.2 | 27.3 | 27.6 |
| 4H                                                                               | 2H            | 24.7             | 26.0 | 25.0 | 26.3 | 26.6          | 24.4           | 25.7             | 24.7 | 26.0 | 26.3 |
|                                                                                  | 3H            | 26.4             | 27.5 | 26.8 | 27.9 | 28.2          | 26.1           | 27.2             | 26.5 | 27.6 | 27.9 |
|                                                                                  | 4H            | 27.0             | 28.0 | 27.4 | 28.4 | 28.8          | 26.7           | 27.8             | 27.1 | 28.1 | 28.5 |
|                                                                                  | 6H            | 27.3             | 28.2 | 27.7 | 28.6 | 29.0          | 27.0           | 27.9             | 27.4 | 28.3 | 28.7 |
|                                                                                  | 8H            | 27.3             | 28.1 | 27.7 | 28.5 | 29.0          | 27.0           | 27.8             | 27.4 | 28.2 | 28.6 |
|                                                                                  | 12H           | 27.2             | 28.0 | 27.7 | 28.4 | 28.9          | 26.9           | 27.7             | 27.4 | 28.1 | 28.6 |
| 8H                                                                               | 4H            | 27.2             | 28.1 | 27.7 | 28.5 | 28.9          | 27.0           | 27.8             | 27.4 | 28.2 | 28.7 |
|                                                                                  | 6H            | 27.6             | 28.3 | 28.1 | 28.8 | 29.2          | 27.4           | 28.1             | 27.8 | 28.5 | 29.0 |
|                                                                                  | 8H            | 27.7             | 28.3 | 28.1 | 28.7 | 29.2          | 27.4           | 28.0             | 27.8 | 28.4 | 28.9 |
|                                                                                  | 12H           | 27.6             | 28.2 | 28.1 | 28.6 | 29.2          | 27.3           | 27.9             | 27.9 | 28.4 | 28.9 |
| 12H                                                                              | 4H            | 27.2             | 28.0 | 27.7 | 28.4 | 28.9          | 27.0           | 27.8             | 27.4 | 28.2 | 28.6 |
|                                                                                  | 6H            | 27.7             | 28.3 | 28.1 | 28.7 | 29.2          | 27.4           | 28.0             | 27.9 | 28.5 | 28.9 |
|                                                                                  | 8H            | 27.7             | 28.2 | 28.2 | 28.7 | 29.2          | 27.4           | 27.9             | 27.9 | 28.4 | 28.9 |
| Variations with the observer position at spacings:                               |               |                  |      |      |      |               |                |                  |      |      |      |
| S = 1.0H                                                                         | + 0.1 / - 0.2 |                  |      |      |      | + 0.2 / - 0.2 |                |                  |      |      |      |
| 1.5H                                                                             | + 0.2 / - 0.3 |                  |      |      |      | + 0.2 / - 0.4 |                |                  |      |      |      |
| 2.0H                                                                             | + 0.2 / - 0.3 |                  |      |      |      | + 0.2 / - 0.4 |                |                  |      |      |      |

CIE Pub.117, 499.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.4)  
Area: 0.014 m2

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-09-24

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:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |            |                  |
| NAME: ASD-JBR-3D6BK                                                              | TYPE:      | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:      | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.135 | 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 57                                                   | 46  | 39        | 57  | 46  | 39  | 55  | 45            | 39  | 32     |
| 0.80                             | 67                                                   | 56  | 49        | 66  | 55  | 48  | 64  | 55            | 48  | 41     |
| 1.00                             | 76                                                   | 65  | 58        | 75  | 64  | 57  | 72  | 66            | 57  | 50     |
| 1.25                             | 83                                                   | 73  | 66        | 82  | 72  | 65  | 79  | 70            | 64  | 57     |
| 1.50                             | 88                                                   | 78  | 71        | 86  | 77  | 71  | 83  | 75            | 70  | 62     |
| 2.00                             | 95                                                   | 87  | 80        | 93  | 85  | 79  | 89  | 83            | 78  | 70     |
| 2.50                             | 99                                                   | 91  | 85        | 97  | 90  | 84  | 93  | 87            | 82  | 74     |
| 3.00                             | 102                                                  | 96  | 90        | 100 | 94  | 89  | 96  | 91            | 87  | 78     |
| 4.00                             | 106                                                  | 101 | 96        | 104 | 99  | 95  | 99  | 95            | 92  | 83     |
| 5.00                             | 109                                                  | 104 | 100       | 106 | 102 | 98  | 101 | 98            | 95  | 85     |
| ROOM INDEX                       | UF(total)                                            |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

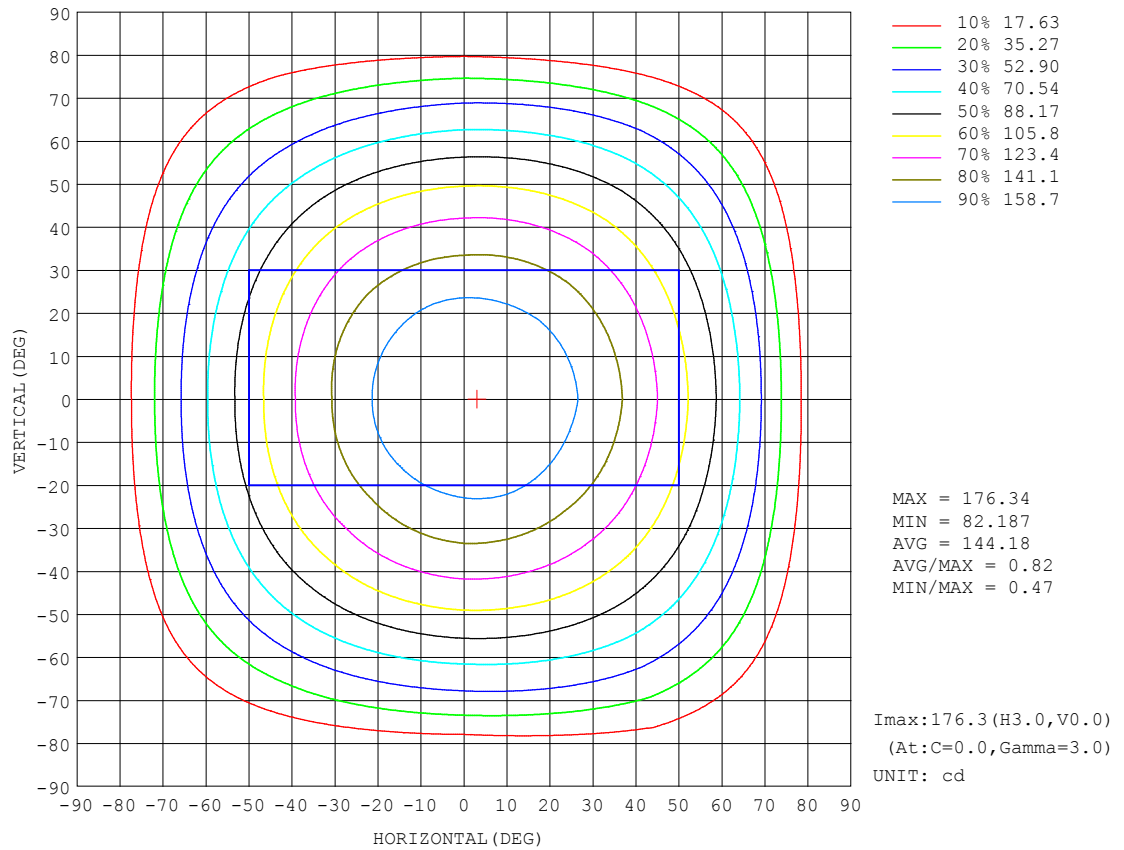
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2024-09-24

$\gamma$  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:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |            |                  |
| NAME: ASD-JBR-3D6BK                                                              | TYPE:      | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:      | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.135 | Shielding Angle: |



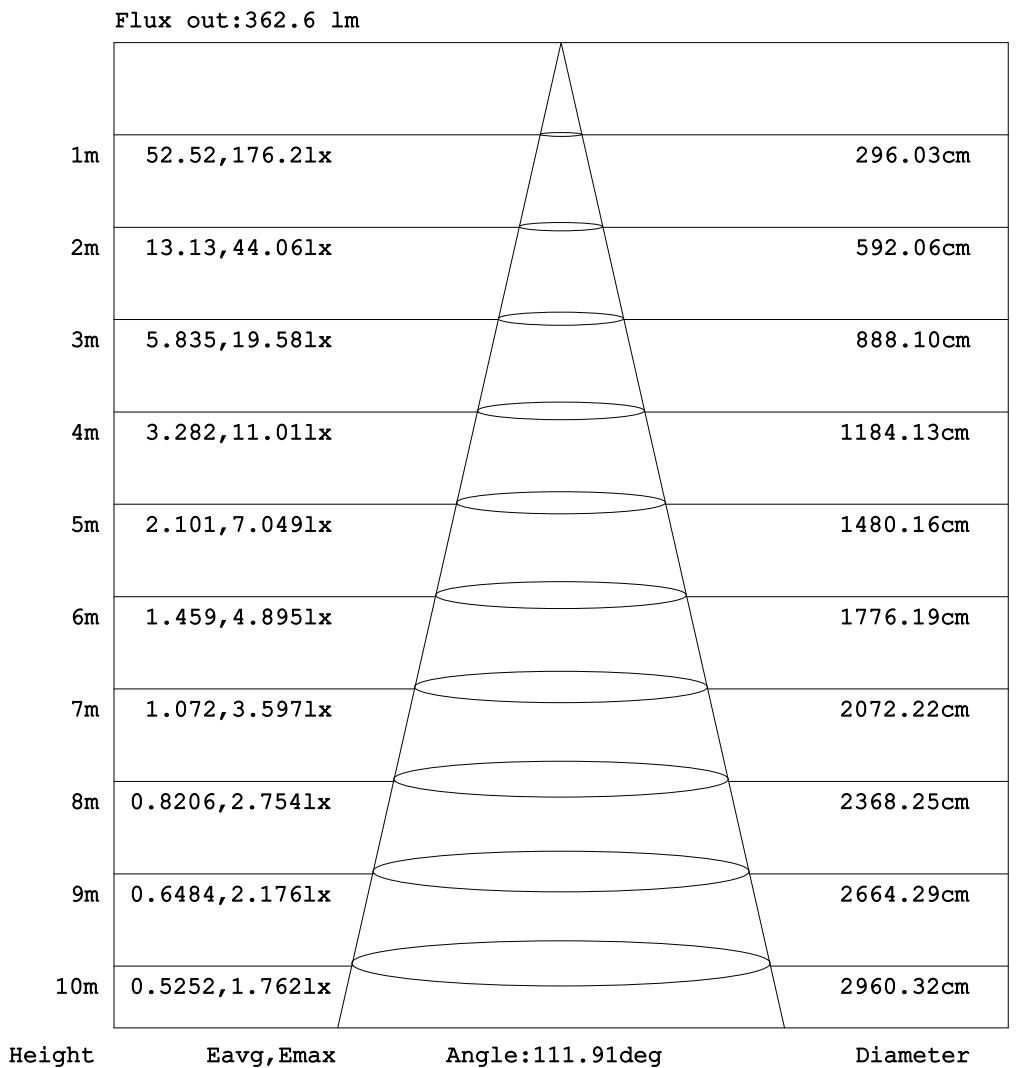
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-09-24

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

AAI Figure

|                                                                                  |            |                  |
|----------------------------------------------------------------------------------|------------|------------------|
| Test:U:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |            |                  |
| NAME: ASD-JBR-3D6BK                                                              | TYPE:      | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:      | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.135 | Shielding Angle: |



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

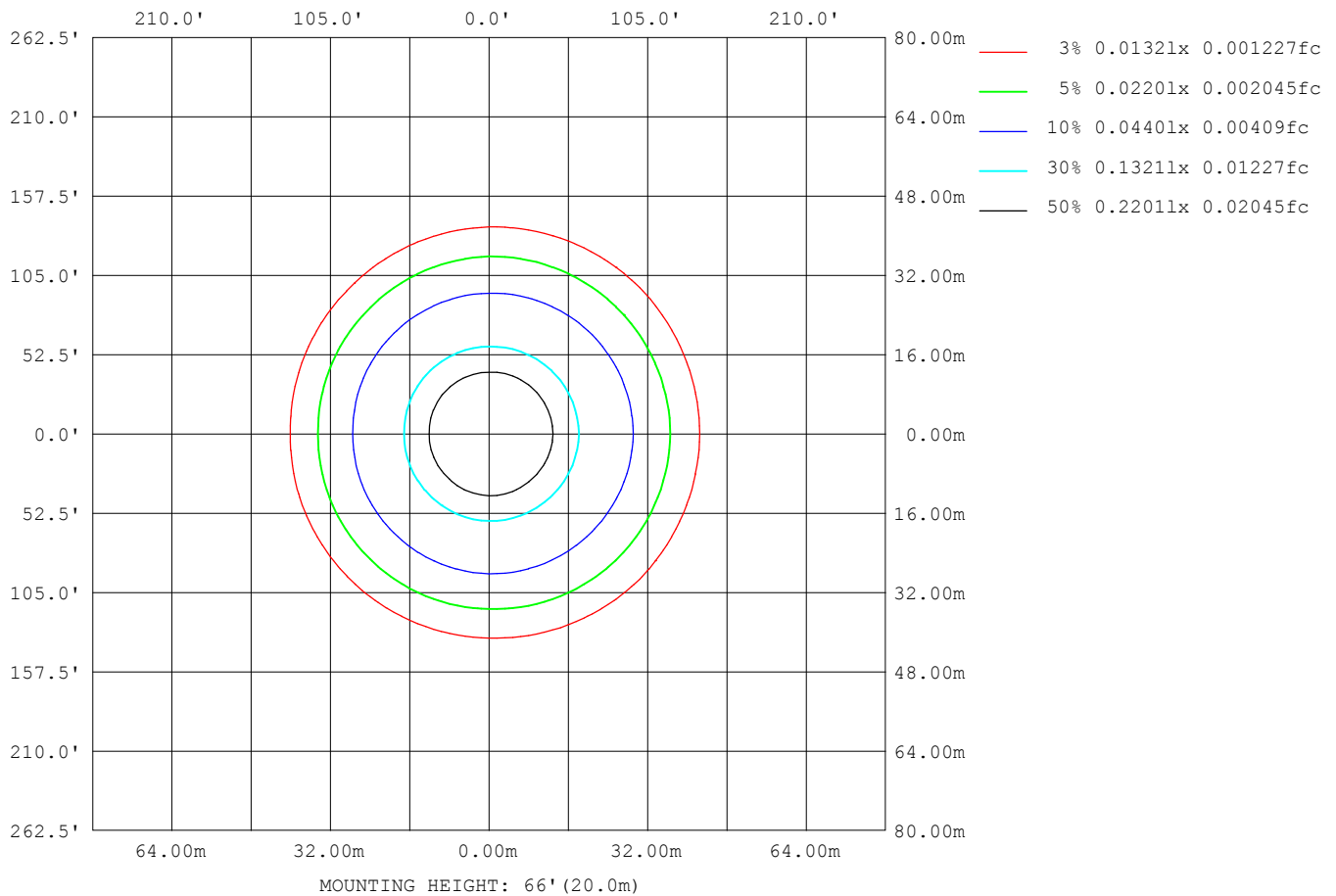
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-09-24

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:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |            |                  |
| NAME: ASD-JBR-3D6BK                                                              | TYPE:      | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:      | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.135 | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-09-24

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:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |            |                  |
| NAME: ASD-JBR-3D6BK                                                              | TYPE:      | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:      | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.135 | Shielding Angle: |

| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 10332 |
| L_0~180 (75) av  | 7765  |
| L_0~180 (85) av  | 1132  |
| L_90~270 (65) av | 10534 |
| L_90~270 (75) av | 8770  |
| L_90~270 (85) av | 996   |
| L_45 (65) av     | 10529 |
| L_45 (75) av     | 8671  |
| L_45 (85) av     | 2761  |

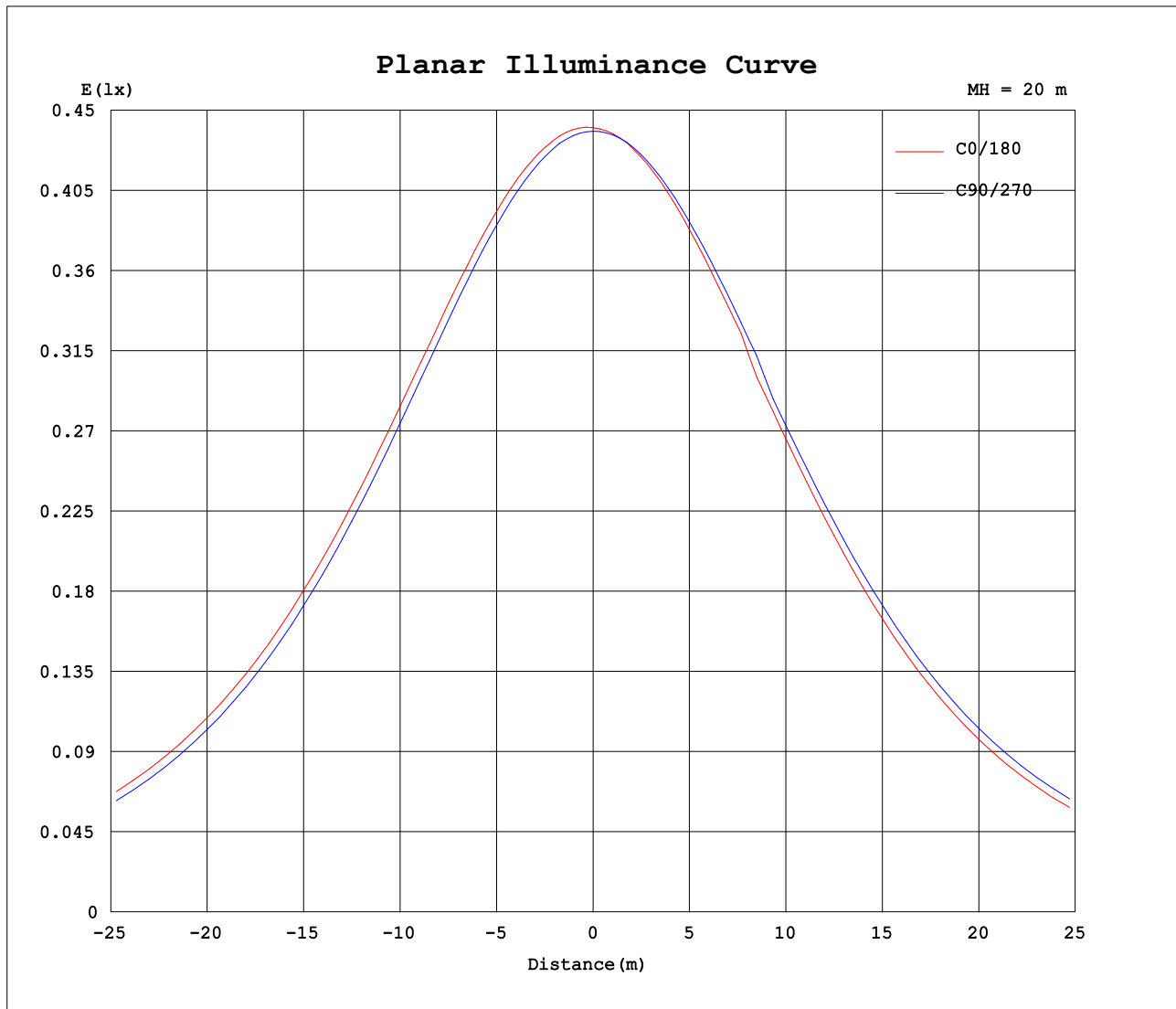
Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-09-24

$\gamma$  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

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2024-09-24

$\gamma$  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:120.00V I:0.0550A P:6.0400W PF:0.9100 Freq:60.00Hz Lamp Flux:499.354x1 lm |            |                  |
| NAME: ASD-JBR-3D6BK                                                              | TYPE:      | WEIGHT:          |
| SPEC.:5000K                                                                      | DIM.:      | SERIAL No.:      |
| MFR.: ASD Lighting Corp                                                          | SUR.:0.135 | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 45   | 90   | 135  | 180  | 225  | 270  | 315  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| 0                  | 176  | 176  | 176  | 176  | 176  | 176  | 176  | 176  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 176  | 175  | 175  | 174  | 174  | 174  | 175  | 175  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 174  | 173  | 172  | 172  | 171  | 172  | 173  | 174  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 171  | 170  | 168  | 167  | 166  | 167  | 169  | 170  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 166  | 165  | 163  | 161  | 160  | 162  | 164  | 165  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 160  | 158  | 156  | 152  | 151  | 154  | 155  | 159  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 153  | 149  | 148  | 144  | 142  | 146  | 147  | 152  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 144  | 140  | 138  | 134  | 132  | 136  | 138  | 143  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 134  | 130  | 128  | 123  | 121  | 125  | 128  | 132  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 123  | 119  | 116  | 112  | 109  | 114  | 117  | 121  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 111  | 107  | 103  | 99.0 | 96.6 | 101  | 105  | 109  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 97.9 | 93.9 | 89.9 | 85.7 | 83.3 | 87.5 | 91.7 | 96.1 |  |  |  |  |  |  |  |  |  |  |
| 60                 | 84.2 | 80.3 | 75.1 | 71.8 | 69.2 | 72.5 | 78.0 | 81.8 |  |  |  |  |  |  |  |  |  |  |
| 65                 | 67.3 | 66.2 | 60.7 | 57.6 | 54.9 | 58.3 | 63.9 | 67.2 |  |  |  |  |  |  |  |  |  |  |
| 70                 | 49.8 | 51.5 | 46.7 | 42.2 | 40.8 | 44.1 | 49.7 | 51.6 |  |  |  |  |  |  |  |  |  |  |
| 75                 | 30.9 | 35.5 | 29.6 | 26.8 | 25.4 | 30.4 | 34.0 | 33.0 |  |  |  |  |  |  |  |  |  |  |
| 80                 | 11.8 | 18.3 | 9.91 | 9.82 | 8.53 | 14.9 | 16.5 | 14.5 |  |  |  |  |  |  |  |  |  |  |
| 85                 | 1.24 | 6.62 | 1.35 | 2.60 | 1.52 | 2.96 | 1.09 | 1.30 |  |  |  |  |  |  |  |  |  |  |
| 90                 | 1.04 | 1.48 | 1.03 | 1.10 | 0.67 | 0.79 | 0.78 | 0.65 |  |  |  |  |  |  |  |  |  |  |
| 95                 | 1.06 | 1.06 | 1.08 | 1.10 | 0.75 | 0.71 | 0.71 | 0.66 |  |  |  |  |  |  |  |  |  |  |
| 100                | 1.10 | 1.12 | 1.14 | 1.17 | 0.85 | 0.81 | 0.79 | 0.76 |  |  |  |  |  |  |  |  |  |  |
| 105                | 1.17 | 1.19 | 1.20 | 1.24 | 0.95 | 0.90 | 0.88 | 0.85 |  |  |  |  |  |  |  |  |  |  |
| 110                | 1.25 | 1.25 | 1.26 | 1.31 | 1.06 | 1.01 | 0.98 | 0.96 |  |  |  |  |  |  |  |  |  |  |
| 115                | 1.31 | 1.32 | 1.33 | 1.39 | 1.17 | 1.10 | 1.09 | 1.08 |  |  |  |  |  |  |  |  |  |  |
| 120                | 1.35 | 1.38 | 1.38 | 1.49 | 1.27 | 1.23 | 1.19 | 1.23 |  |  |  |  |  |  |  |  |  |  |
| 125                | 1.40 | 1.44 | 1.43 | 1.60 | 1.37 | 1.35 | 1.29 | 1.37 |  |  |  |  |  |  |  |  |  |  |
| 130                | 1.46 | 1.49 | 1.48 | 1.66 | 1.47 | 1.42 | 1.38 | 1.47 |  |  |  |  |  |  |  |  |  |  |
| 135                | 1.51 | 1.55 | 1.54 | 1.70 | 1.56 | 1.51 | 1.48 | 1.57 |  |  |  |  |  |  |  |  |  |  |
| 140                | 1.58 | 1.61 | 1.61 | 1.74 | 1.66 | 1.61 | 1.58 | 1.56 |  |  |  |  |  |  |  |  |  |  |
| 145                | 1.65 | 1.69 | 1.71 | 1.81 | 1.76 | 1.70 | 1.69 | 1.65 |  |  |  |  |  |  |  |  |  |  |
| 150                | 1.74 | 1.78 | 1.78 | 1.90 | 1.86 | 1.79 | 1.78 | 1.75 |  |  |  |  |  |  |  |  |  |  |
| 155                | 1.83 | 1.85 | 1.86 | 1.89 | 1.94 | 1.94 | 1.88 | 1.84 |  |  |  |  |  |  |  |  |  |  |
| 160                | 1.92 | 1.93 | 1.94 | 1.97 | 2.02 | 1.96 | 1.96 | 1.93 |  |  |  |  |  |  |  |  |  |  |
| 165                | 2.00 | 2.00 | 2.01 | 2.04 | 2.08 | 2.02 | 2.04 | 2.00 |  |  |  |  |  |  |  |  |  |  |
| 170                | 2.06 | 2.07 | 2.07 | 2.09 | 2.13 | 2.08 | 2.10 | 2.07 |  |  |  |  |  |  |  |  |  |  |
| 175                | 2.12 | 2.11 | 2.11 | 2.13 | 2.16 | 2.11 | 2.14 | 2.11 |  |  |  |  |  |  |  |  |  |  |
| 180                | 2.17 | 2.14 | 2.14 | 2.15 | 2.17 | 2.14 | 2.15 | 2.14 |  |  |  |  |  |  |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2024-09-24

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: