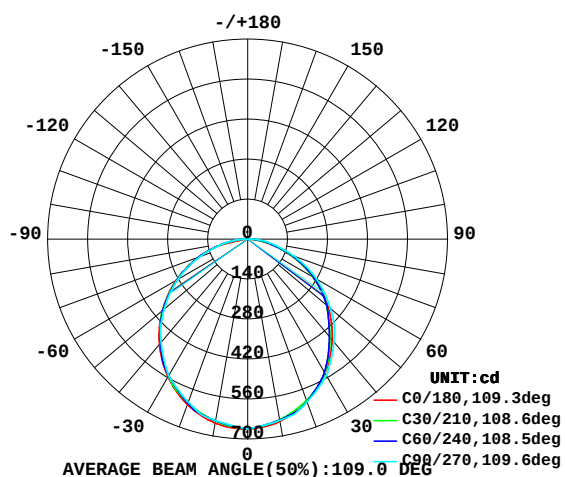


## LUMINAIRE PHOTOMETRIC TEST REPORT

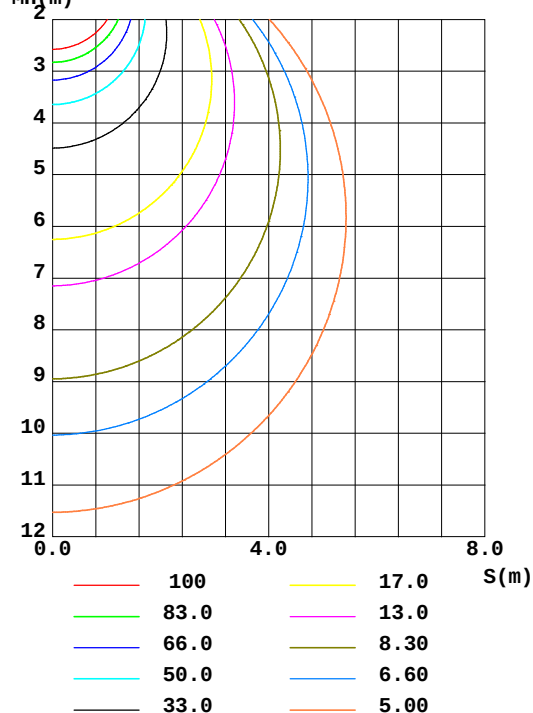
|                                                                   |                 |                   |
|-------------------------------------------------------------------|-----------------|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |                 |                   |
| NAME: EB1                                                         | TYPE:           | WEIGHT:           |
| SPEC.:                                                            | DIM.: 640*33*55 | SERIAL No.:       |
| MFR.: Utopia Lighting                                             | SUR.:640*33     | PROTECTION ANGLE: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA Eff: 92.02 lm/W |        |                    |          |
|------------------|---------|----------------------------------|--------|--------------------|----------|
| EB1 MODEL        |         | I <sub>max</sub> (cd)            | 664.8  | S/MH(C0/180)       | 1.25     |
| NOMINAL POWER(W) | 20      | LOR(%)                           | 100.0  | S/MH(C90/270)      | 1.24     |
| RATED VOLTAGE(V) | 100-277 | TOTAL FLUX(lm)                   | 1810.3 | η UP, DN(C0-180)   | 0.3,48.9 |
| NOMINAL FLUX(lm) | 1810.27 | CIE CLASS                        | DIRECT | η UP, DN(C180-360) | 0.1,50.7 |
| LAMPS INSIDE     | 1       | η up(%)                          | 0.4    | CIBSE SHR NOM      | 1.25     |
| TEST VOLTAGE(V)  | 120     | η down(%)                        | 99.6   | CIBSE SHR MAX      | 1.35     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



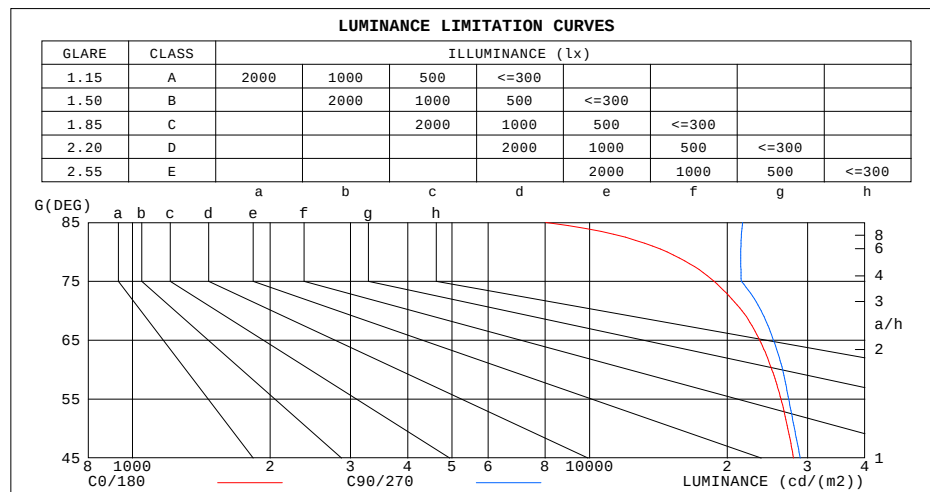
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.190m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

### ZONAL FLUX DIAGRAM:

| $\gamma$ | C0                    | C45   | C90    | C135  | C180   | C225   | C270   | C315   | $\gamma$ | $\phi$ zone | $\phi$ total | %lum, lamp |
|----------|-----------------------|-------|--------|-------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 5        | 659.9                 | 654.9 | 654.7  | 657.0 | 662.8  | 657.1  | 654.9  | 655.0  | 0- 5     | 15.77       | 15.77        | 0.87, 0.87 |
| 10       | 648.2                 | 642.2 | 644.8  | 646.0 | 654.1  | 646.2  | 645.1  | 642.5  | 5- 10    | 46.56       | 62.33        | 3.44, 3.44 |
| 15       | 629.9                 | 626.1 | 634.9  | 631.7 | 638.4  | 632.0  | 635.4  | 626.5  | 10- 15   | 75.69       | 138.0        | 7.62, 7.62 |
| 20       | 605.4                 | 607.3 | 607.2  | 614.4 | 617.0  | 614.9  | 608.0  | 607.9  | 15- 20   | 102.1       | 240.2        | 13.3, 13.3 |
| 25       | 575.7                 | 571.9 | 579.5  | 584.4 | 589.9  | 584.9  | 580.5  | 576.3  | 20- 25   | 124.5       | 364.7        | 20.1, 20.1 |
| 30       | 541.3                 | 530.2 | 551.9  | 550.7 | 557.7  | 551.3  | 553.1  | 540.8  | 25- 30   | 142.5       | 507.2        | 28, 28     |
| 35       | 502.6                 | 489.4 | 511.0  | 515.9 | 521.4  | 516.7  | 512.5  | 504.4  | 30- 35   | 155.6       | 662.7        | 36.6, 36.6 |
| 40       | 460.2                 | 447.9 | 470.2  | 478.6 | 481.2  | 479.6  | 472.0  | 465.7  | 35- 40   | 162.8       | 825.5        | 45.6, 45.6 |
| 45       | 414.9                 | 402.5 | 429.3  | 429.1 | 437.5  | 433.1  | 431.4  | 418.2  | 40- 45   | 164.7       | 990.2        | 54.7, 54.7 |
| 50       | 366.7                 | 360.3 | 378.9  | 377.0 | 390.8  | 386.4  | 382.0  | 371.1  | 45- 50   | 161.2       | 1151         | 63.6, 63.6 |
| 55       | 315.9                 | 317.9 | 328.4  | 319.3 | 341.4  | 339.8  | 332.6  | 324.2  | 50- 55   | 151.9       | 1303         | 72, 72     |
| 60       | 263.1                 | 263.6 | 277.9  | 250.7 | 290.1  | 286.0  | 283.2  | 269.6  | 55- 60   | 137.0       | 1440         | 79.6, 79.6 |
| 65       | 209.1                 | 210.4 | 224.2  | 189.8 | 235.2  | 233.1  | 229.1  | 216.4  | 60- 65   | 117.6       | 1558         | 86.1, 86.1 |
| 70       | 154.9                 | 158.1 | 170.4  | 137.2 | 181.7  | 179.9  | 175.1  | 163.6  | 65- 70   | 95.12       | 1653         | 91.3, 91.3 |
| 75       | 101.8                 | 106.7 | 116.7  | 91.11 | 123.1  | 125.5  | 121.0  | 111.3  | 70- 75   | 70.62       | 1724         | 95.2, 95.2 |
| 80       | 53.93                 | 59.72 | 78.12  | 49.95 | 33.78  | 73.88  | 80.75  | 63.07  | 75- 80   | 46.00       | 1770         | 97.8, 97.8 |
| 85       | 14.67                 | 30.38 | 39.56  | 24.82 | 12.37  | 36.52  | 40.48  | 31.39  | 80- 85   | 25.24       | 1795         | 99.1, 99.1 |
| 90       | 0.3455                | 1.737 | 0.9990 | 1.022 | 0.2123 | 0.1774 | 0.2063 | 0.4015 | 85- 90   | 0.063       | 1803         | 99.6, 99.6 |
| 95       | 0.2894                | 1.662 | 1.120  | 1.192 | 0.1399 | 0.2306 | 0.2620 | 0.3537 | 90- 95   | 0.4494      | 1803         | 99.6, 99.6 |
| 100      | 0.2895                | 1.581 | 1.242  | 1.344 | 0.2192 | 0.2858 | 0.3178 | 0.3059 | 95-100   | 0.4687      | 1804         | 99.6, 99.6 |
| 105      | 0.3736                | 1.610 | 1.363  | 1.480 | 0.2894 | 0.3757 | 0.3735 | 0.4095 | 100-105  | 0.4785      | 1804         | 99.7, 99.7 |
| 110      | 0.4904                | 1.666 | 1.503  | 1.608 | 0.3965 | 0.4718 | 0.4980 | 0.5453 | 105-110  | 0.4949      | 1805         | 99.7, 99.7 |
| 115      | 0.6259                | 1.715 | 1.643  | 1.630 | 0.5134 | 0.5837 | 0.6224 | 0.6703 | 110-115  | 0.5110      | 1805         | 99.7, 99.7 |
| 120      | 0.7892                | 1.751 | 1.783  | 1.599 | 0.6393 | 0.7303 | 0.7469 | 0.7860 | 115-120  | 0.5201      | 1806         | 99.8, 99.8 |
| 125      | 0.9292                | 1.785 | 1.904  | 1.576 | 0.7608 | 0.8677 | 0.8714 | 0.8900 | 120-125  | 0.5238      | 1806         | 99.8, 99.8 |
| 130      | 1.041                 | 1.714 | 2.026  | 1.493 | 0.8916 | 0.9790 | 0.9959 | 1.022  | 125-130  | 0.5247      | 1807         | 99.8, 99.8 |
| 135      | 1.153                 | 1.717 | 2.147  | 1.501 | 1.008  | 1.058  | 1.120  | 1.146  | 130-135  | 0.5239      | 1807         | 99.8, 99.8 |
| 140      | 1.261                 | 1.814 | 2.132  | 1.549 | 1.116  | 1.176  | 1.217  | 1.261  | 135-140  | 0.5157      | 1808         | 99.9, 99.9 |
| 145      | 1.359                 | 1.882 | 2.116  | 1.614 | 1.204  | 1.254  | 1.313  | 1.332  | 140-145  | 0.4947      | 1808         | 99.9, 99.9 |
| 150      | 1.443                 | 1.875 | 2.101  | 1.672 | 1.316  | 1.368  | 1.410  | 1.409  | 145-150  | 0.4580      | 1809         | 99.9, 99.9 |
| 155      | 1.531                 | 1.849 | 2.003  | 1.696 | 1.391  | 1.445  | 1.466  | 1.462  | 150-155  | 0.4041      | 1809         | 99.9, 99.9 |
| 160      | 1.601                 | 1.782 | 1.905  | 1.679 | 1.466  | 1.523  | 1.522  | 1.535  | 155-160  | 0.3402      | 1810         | 100, 100   |
| 165      | 1.615                 | 1.758 | 1.807  | 1.679 | 1.554  | 1.564  | 1.578  | 1.590  | 160-165  | 0.2696      | 1810         | 100, 100   |
| 170      | 1.648                 | 1.723 | 1.751  | 1.665 | 1.569  | 1.588  | 1.600  | 1.608  | 165-170  | 0.1952      | 1810         | 100, 100   |
| 175      | 1.648                 | 1.682 | 1.695  | 1.666 | 1.620  | 1.621  | 1.621  | 1.626  | 170-175  | 0.1178      | 1810         | 100, 100   |
| 180      | 1.639                 | 1.639 | 1.639  | 1.639 | 1.643  | 1.643  | 1.643  | 1.643  | 175-180  | 0.0394      | 1810         | 100, 100   |
| DEG      | LUMINOUS INTENSITY:cd |       |        |       |        |        |        |        |          | UNIT: lm    |              |            |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 8016   | 21614   |
| 80                | 14789  | 21423   |
| 75                | 18734  | 21468   |
| 70                | 21568  | 23730   |
| 65                | 23566  | 25261   |
| 60                | 25056  | 26471   |
| 55                | 26224  | 27265   |
| 50                | 27162  | 28067   |
| 45                | 27939  | 28912   |

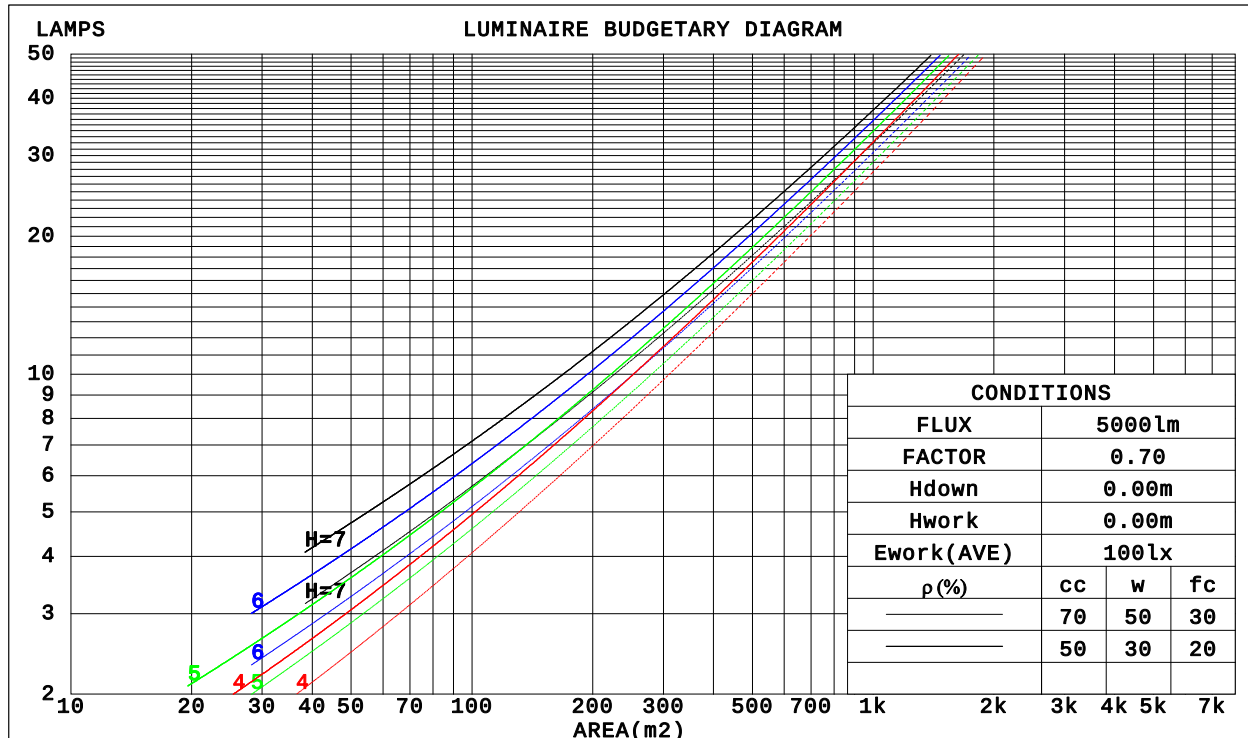
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                   |                 |                   |
|-------------------------------------------------------------------|-----------------|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |                 |                   |
| NAME: EB1                                                         | TYPE:           | WEIGHT:           |
| SPEC.:                                                            | DIM.: 640*33*55 | SERIAL No.:       |
| MFR.: Utopia Lighting                                             | SUR.:640*33     | PROTECTION ANGLE: |

| $\rho_{CC}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0   |  |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|-----|--|
| $\rho_W$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0   |  |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0   |  |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |     |  |
| 0.0         | 1.19                  | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11                            | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |  |
| 1.0         | 1.04                  | .00  | .96  | 1.02 | .98  | .94  | .97                             | .94  | .91  | .93  | .91  | .88  | .90  | .88  | .86  | .84 |  |
| 2.0         | .91                   | .84  | .78  | .89  | .83  | .77  | .85                             | .80  | .76  | .82  | .78  | .74  | .79  | .75  | .72  | .70 |  |
| 3.0         | .80                   | .72  | .65  | .78  | .71  | .65  | .75                             | .69  | .63  | .72  | .67  | .62  | .70  | .65  | .61  | .59 |  |
| 4.0         | .71                   | .62  | .55  | .69  | .61  | .55  | .67                             | .60  | .54  | .65  | .58  | .53  | .62  | .57  | .53  | .50 |  |
| 5.0         | .63                   | .54  | .48  | .62  | .54  | .47  | .60                             | .53  | .47  | .58  | .51  | .46  | .56  | .50  | .46  | .44 |  |
| 6.0         | .57                   | .48  | .42  | .56  | .48  | .42  | .54                             | .47  | .41  | .52  | .46  | .41  | .51  | .45  | .40  | .38 |  |
| 7.0         | .52                   | .43  | .37  | .51  | .43  | .37  | .49                             | .42  | .36  | .48  | .41  | .36  | .46  | .40  | .36  | .34 |  |
| 8.0         | .47                   | .39  | .33  | .47  | .38  | .33  | .45                             | .38  | .33  | .44  | .37  | .32  | .43  | .37  | .32  | .30 |  |
| 9.0         | .43                   | .35  | .30  | .43  | .35  | .30  | .42                             | .34  | .29  | .40  | .34  | .29  | .39  | .33  | .29  | .27 |  |
| 10.0        | .40                   | .32  | .27  | .39  | .32  | .27  | .38                             | .31  | .27  | .37  | .31  | .27  | .37  | .31  | .26  | .25 |  |



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.190m [K=1.0000]  
Remarks:

## WEC AND CCEC

|                                                                   |  |  |                 |  |                   |
|-------------------------------------------------------------------|--|--|-----------------|--|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |  |  |                 |  |                   |
| NAME: EB1                                                         |  |  | TYPE:           |  | WEIGHT:           |
| SPEC.:                                                            |  |  | DIM.: 640*33*55 |  | SERIAL No.:       |
| MFR.: Utopia Lighting                                             |  |  | SUR.:640*33     |  | PROTECTION ANGLE: |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0         | .305                  | .173 | .055 | .297 | .170 | .054 | .284                            | .163 | .052 | .272 | .157 | .050 | .260 | .151 | .049 |   |  |
| 2.0         | .287                  | .157 | .048 | .281 | .155 | .048 | .269                            | .150 | .046 | .258 | .145 | .045 | .248 | .140 | .044 |   |  |
| 3.0         | .266                  | .142 | .042 | .261 | .140 | .042 | .250                            | .136 | .041 | .240 | .132 | .040 | .231 | .128 | .040 |   |  |
| 4.0         | .246                  | .128 | .038 | .241 | .126 | .037 | .232                            | .123 | .037 | .223 | .120 | .036 | .215 | .117 | .036 |   |  |
| 5.0         | .228                  | .116 | .034 | .223 | .115 | .033 | .215                            | .112 | .033 | .207 | .109 | .033 | .200 | .107 | .032 |   |  |
| 6.0         | .212                  | .106 | .030 | .208 | .105 | .030 | .200                            | .103 | .030 | .193 | .100 | .030 | .187 | .098 | .029 |   |  |
| 7.0         | .197                  | .097 | .028 | .194 | .096 | .027 | .187                            | .095 | .027 | .181 | .093 | .027 | .175 | .091 | .027 |   |  |
| 8.0         | .184                  | .090 | .025 | .181 | .089 | .025 | .175                            | .088 | .025 | .170 | .086 | .025 | .164 | .084 | .025 |   |  |
| 9.0         | .173                  | .084 | .023 | .170 | .083 | .023 | .165                            | .081 | .023 | .160 | .080 | .023 | .155 | .079 | .023 |   |  |
| 10.0        | .162                  | .078 | .022 | .160 | .077 | .022 | .155                            | .076 | .021 | .151 | .075 | .021 | .146 | .074 | .021 |   |  |

| 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  | .194                  | .194 | .194 | .165 | .165 | .165 | .113                                       | .113 | .113 | .065 | .065 | .065 | .021 | .021 | .021 |   |  |
| 1.0  | .183                  | .159 | .138 | .157 | .137 | .119 | .107                                       | .094 | .082 | .062 | .054 | .048 | .020 | .018 | .015 |   |  |
| 2.0  | .175                  | .135 | .102 | .150 | .116 | .088 | .103                                       | .080 | .061 | .059 | .047 | .036 | .019 | .015 | .012 |   |  |
| 3.0  | .167                  | .117 | .078 | .143 | .101 | .068 | .098                                       | .070 | .047 | .057 | .041 | .028 | .018 | .013 | .009 |   |  |
| 4.0  | .159                  | .104 | .062 | .137 | .090 | .054 | .094                                       | .063 | .038 | .054 | .037 | .022 | .017 | .012 | .007 |   |  |
| 5.0  | .152                  | .094 | .051 | .130 | .081 | .044 | .090                                       | .057 | .031 | .052 | .033 | .018 | .017 | .011 | .006 |   |  |
| 6.0  | .145                  | .085 | .043 | .124 | .074 | .037 | .086                                       | .052 | .026 | .050 | .030 | .016 | .016 | .010 | .005 |   |  |
| 7.0  | .138                  | .078 | .037 | .119 | .068 | .032 | .082                                       | .048 | .023 | .048 | .028 | .013 | .015 | .009 | .004 |   |  |
| 8.0  | .132                  | .073 | .032 | .113 | .063 | .028 | .078                                       | .044 | .020 | .046 | .026 | .012 | .015 | .009 | .004 |   |  |
| 9.0  | .126                  | .068 | .029 | .108 | .059 | .025 | .075                                       | .041 | .018 | .044 | .024 | .011 | .014 | .008 | .003 |   |  |
| 10.0 | .120                  | .063 | .026 | .103 | .055 | .022 | .072                                       | .039 | .016 | .042 | .023 | .010 | .014 | .008 | .003 |   |  |

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.190m [K=1.0000]  
 Remarks:

## UGR(Unified Glare Rating) Table

|                                                                   |               |                  |      |      |                 |               |                |                   |      |      |      |
|-------------------------------------------------------------------|---------------|------------------|------|------|-----------------|---------------|----------------|-------------------|------|------|------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |               |                  |      |      |                 |               |                |                   |      |      |      |
| NAME: EB1                                                         |               |                  |      |      | TYPE:           |               |                | WEIGHT:           |      |      |      |
| SPEC.:                                                            |               |                  |      |      | DIM.: 640*33*55 |               |                | SERIAL No.:       |      |      |      |
| MFR.: Utopia Lighting                                             |               |                  |      |      | SUR.:640*33     |               |                | PROTECTION 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                                                     | 24.0          | 25.5             | 24.2 | 25.7 | 25.9            | 24.1          | 25.6           | 24.4              | 25.8 | 26.0 |      |
|                                                                   | 3H            | 25.3             | 26.7 | 25.6 | 27.0            | 27.2          | 25.6           | 27.0              | 25.9 | 27.2 | 27.4 |
|                                                                   | 4H            | 25.8             | 27.2 | 26.2 | 27.4            | 27.7          | 26.1           | 27.4              | 26.4 | 27.7 | 28.0 |
|                                                                   | 6H            | 26.1             | 27.4 | 26.5 | 27.7            | 27.9          | 26.6           | 27.8              | 26.9 | 28.1 | 28.4 |
|                                                                   | 8H            | 26.2             | 27.4 | 26.5 | 27.7            | 28.0          | 26.8           | 28.0              | 27.1 | 28.3 | 28.6 |
|                                                                   | 12H           | 26.2             | 27.3 | 26.6 | 27.6            | 28.0          | 26.9           | 28.1              | 27.3 | 28.4 | 28.7 |
| 4H                                                                | 2H            | 24.6             | 25.9 | 24.9 | 26.1            | 26.4          | 24.7           | 26.0              | 25.0 | 26.2 | 26.5 |
|                                                                   | 3H            | 26.1             | 27.3 | 26.5 | 27.6            | 27.9          | 26.3           | 27.5              | 26.7 | 27.8 | 28.1 |
|                                                                   | 4H            | 26.7             | 27.8 | 27.1 | 28.1            | 28.4          | 27.0           | 28.0              | 27.4 | 28.4 | 28.7 |
|                                                                   | 6H            | 27.1             | 28.0 | 27.5 | 28.4            | 28.8          | 27.6           | 28.5              | 28.0 | 28.9 | 29.3 |
|                                                                   | 8H            | 27.2             | 28.1 | 27.6 | 28.5            | 28.8          | 27.8           | 28.7              | 28.3 | 29.1 | 29.5 |
|                                                                   | 12H           | 27.2             | 28.0 | 27.7 | 28.4            | 28.8          | 28.0           | 28.8              | 28.5 | 29.2 | 29.6 |
| 8H                                                                | 4H            | 27.0             | 27.8 | 27.4 | 28.2            | 28.6          | 27.2           | 28.1              | 27.6 | 28.4 | 28.8 |
|                                                                   | 6H            | 27.5             | 28.2 | 27.9 | 28.6            | 29.0          | 27.9           | 28.7              | 28.4 | 29.1 | 29.5 |
|                                                                   | 8H            | 27.6             | 28.3 | 28.1 | 28.7            | 29.2          | 28.3           | 28.9              | 28.8 | 29.4 | 29.8 |
|                                                                   | 12H           | 27.7             | 28.2 | 28.2 | 28.7            | 29.2          | 28.6           | 29.2              | 29.1 | 29.6 | 30.1 |
| 12H                                                               | 4H            | 27.0             | 27.8 | 27.4 | 28.2            | 28.6          | 27.2           | 28.0              | 27.6 | 28.4 | 28.8 |
|                                                                   | 6H            | 27.5             | 28.2 | 28.0 | 28.6            | 29.1          | 28.0           | 28.6              | 28.4 | 29.1 | 29.5 |
|                                                                   | 8H            | 27.7             | 28.3 | 28.2 | 28.7            | 29.2          | 28.4           | 28.9              | 28.9 | 29.4 | 29.9 |
| Variations with the observer position at spacings:                |               |                  |      |      |                 |               |                |                   |      |      |      |
| S = 1.0H                                                          | + 0.1 / - 0.2 |                  |      |      |                 | + 0.1 / - 0.1 |                |                   |      |      |      |
| 1.5H                                                              | + 0.2 / - 0.3 |                  |      |      |                 | + 0.2 / - 0.2 |                |                   |      |      |      |
| 2.0H                                                              | + 0.2 / - 0.2 |                  |      |      |                 | + 0.2 / - 0.2 |                |                   |      |      |      |

CIE Pub.117 Corrected 1810 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.1)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-10

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.190m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

|                                                                   |                 |                   |
|-------------------------------------------------------------------|-----------------|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |                 |                   |
| NAME: EB1                                                         | TYPE:           | WEIGHT:           |
| SPEC.:                                                            | DIM.: 640*33*55 | SERIAL No.:       |
| MFR.: Utopia Lighting                                             | SUR.:640*33     | PROTECTION ANGLE: |

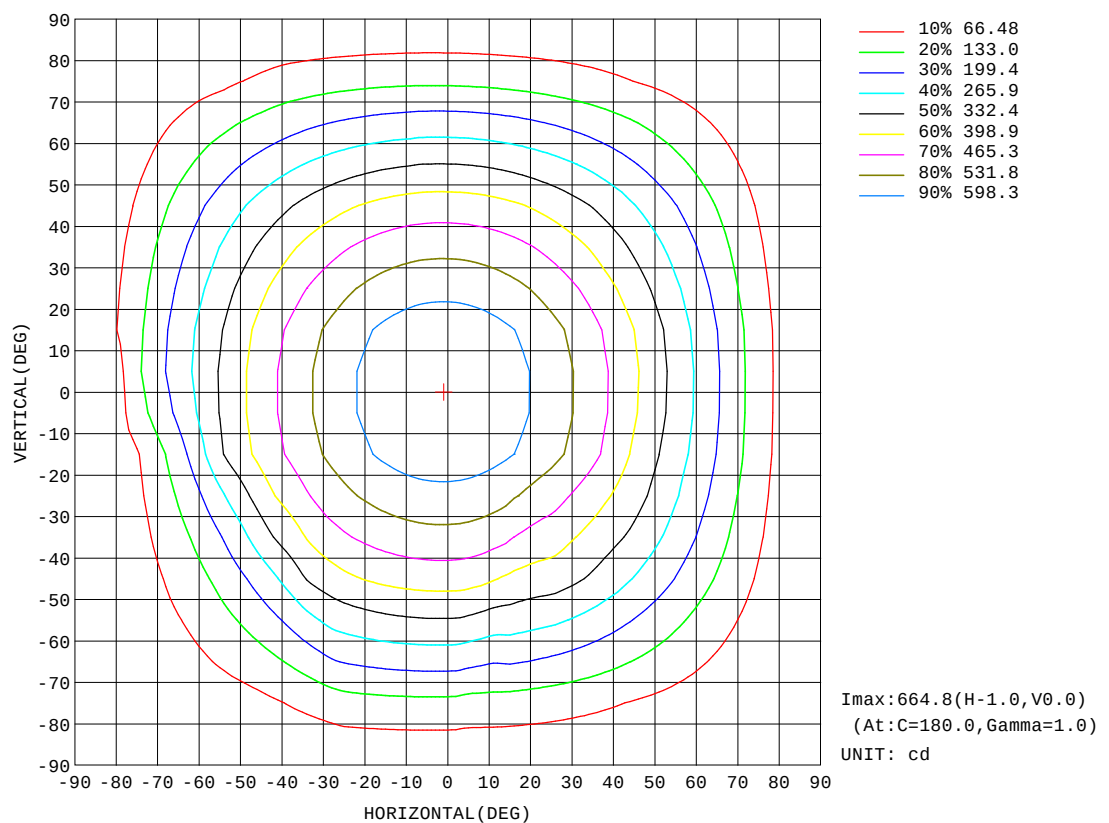
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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                         | 58                                                  | 47  | 40        | 57  | 46  | 39  | 56  | 46            | 39  | 33     |
| 0.80                             | 68                                                  | 57  | 49        | 67  | 56  | 49  | 65  | 55            | 49  | 42     |
| 1.00                             | 77                                                  | 66  | 58        | 75  | 65  | 58  | 73  | 66            | 57  | 50     |
| 1.25                             | 84                                                  | 73  | 66        | 82  | 72  | 66  | 79  | 71            | 65  | 58     |
| 1.50                             | 89                                                  | 79  | 72        | 87  | 78  | 71  | 84  | 76            | 70  | 63     |
| 2.00                             | 95                                                  | 87  | 81        | 93  | 86  | 80  | 90  | 83            | 78  | 70     |
| 2.50                             | 99                                                  | 91  | 86        | 97  | 90  | 85  | 93  | 87            | 83  | 74     |
| 3.00                             | 102                                                 | 96  | 90        | 100 | 94  | 89  | 96  | 91            | 87  | 78     |
| 4.00                             | 106                                                 | 101 | 96        | 104 | 99  | 95  | 100 | 96            | 92  | 83     |
| 5.00                             | 109                                                 | 104 | 100       | 106 | 102 | 98  | 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: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-10

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.190m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

|                                                                   |                 |                   |
|-------------------------------------------------------------------|-----------------|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |                 |                   |
| NAME: EB1                                                         | TYPE:           | WEIGHT:           |
| SPEC.:                                                            | DIM.: 640*33*55 | SERIAL No.:       |
| MFR.: Utopia Lighting                                             | SUR.:640*33     | PROTECTION ANGLE: |



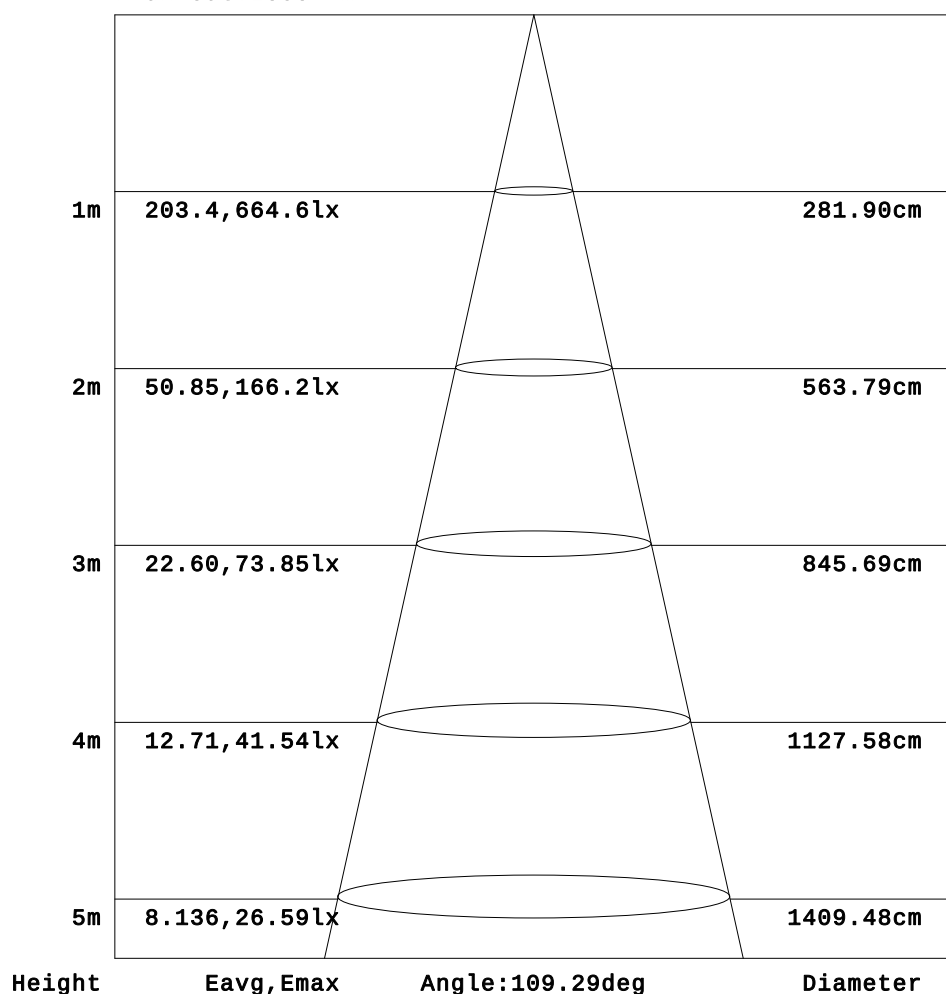
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:

## AAI Figure

|                                                                   |                 |                   |
|-------------------------------------------------------------------|-----------------|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |                 |                   |
| NAME: EB1                                                         | TYPE:           | WEIGHT:           |
| SPEC.:                                                            | DIM.: 640*33*55 | SERIAL No.:       |
| MFR.: Utopia Lighting                                             | SUR.:640*33     | PROTECTION ANGLE: |

Flux out:1303 lm



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

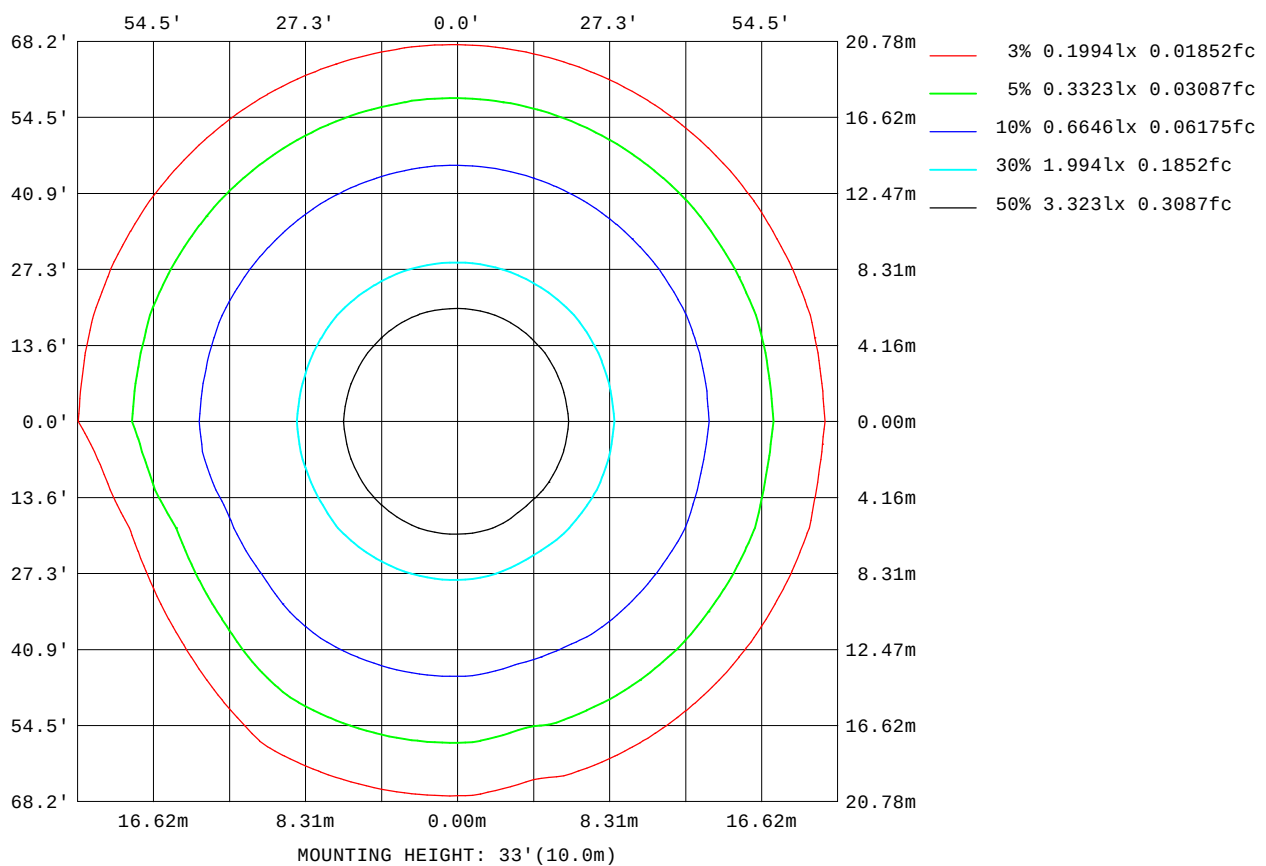
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:



## ISOLUX DIAGRAM

|                                                                   |                 |                   |
|-------------------------------------------------------------------|-----------------|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |                 |                   |
| NAME: EB1                                                         | TYPE:           | WEIGHT:           |
| SPEC.:                                                            | DIM.: 640*33*55 | SERIAL No.:       |
| MFR.: Utopia Lighting                                             | SUR.:640*33     | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-01-10

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 8.190m [K=1.0000]  
 Remarks:

## LED Avg.L Report

|                                                                   |                 |                   |
|-------------------------------------------------------------------|-----------------|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |                 |                   |
| NAME: EB1                                                         | TYPE:           | WEIGHT:           |
| SPEC.:                                                            | DIM.: 640*33*55 | SERIAL No.:       |
| MFR.: Utopia Lighting                                             | SUR.:640*33     | PROTECTION ANGLE: |

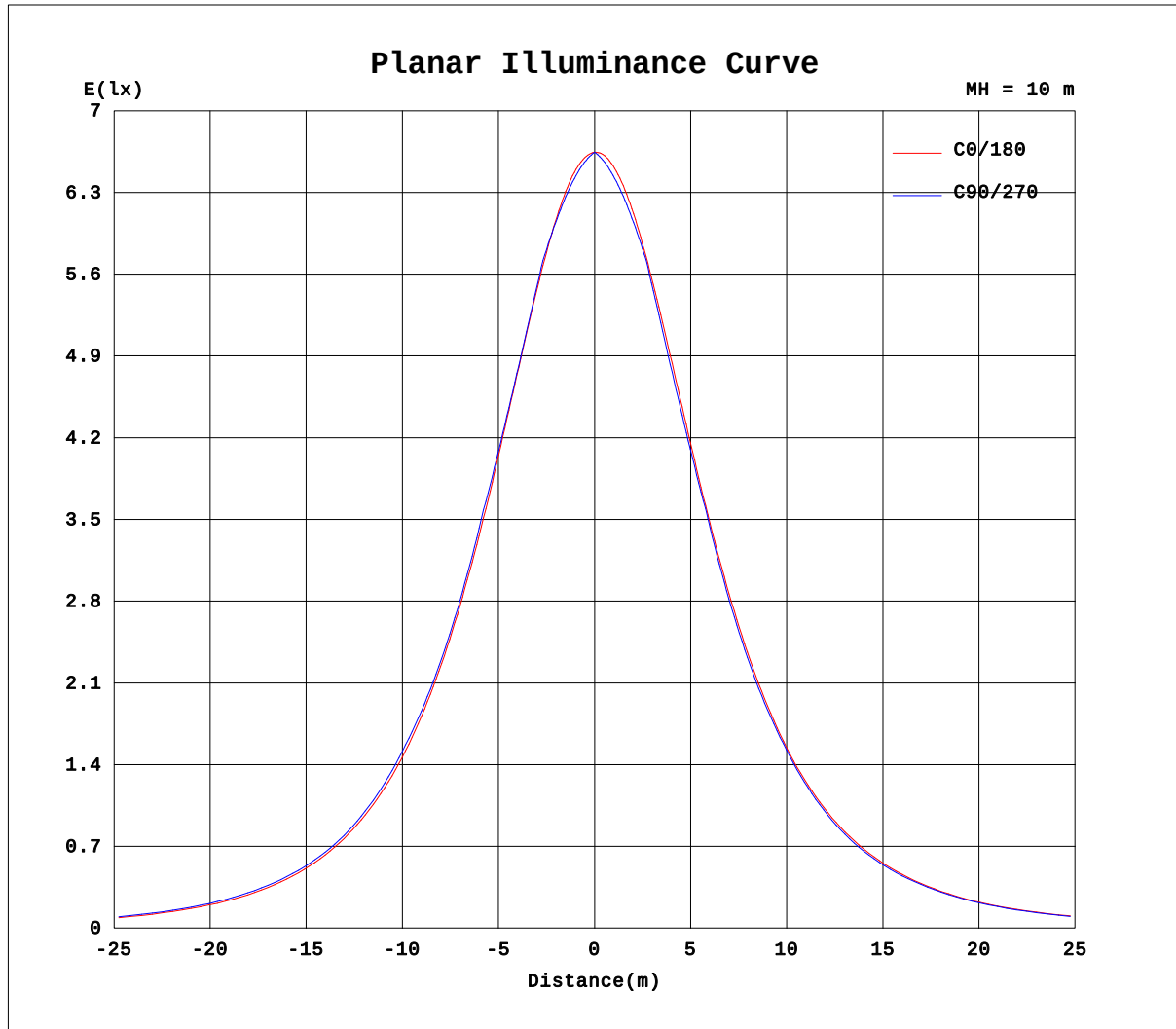
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 25033 |
| L_0~180(75)av  | 20695 |
| L_0~180(85)av  | 7387  |
| L_90~270(65)av | 25540 |
| L_90~270(75)av | 21868 |
| L_90~270(85)av | 21866 |
| L_45(65)av     | 23934 |
| L_45(75)av     | 19989 |
| L_45(85)av     | 16817 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.190m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                   |                 |                   |
|-------------------------------------------------------------------|-----------------|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |                 |                   |
| NAME: EB1                                                         | TYPE:           | WEIGHT:           |
| SPEC.:                                                            | DIM.: 640*33*55 | SERIAL No.:       |
| MFR.: Utopia Lighting                                             | SUR.:640*33     | PROTECTION ANGLE: |

Table--1

UNIT: cd

| C(DEG)<br>γ (DEG) | 0    | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   | 90   |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  |
| 5                 | 660  | 659  | 658  | 658  | 657  | 656  | 656  | 656  | 655  | 655  | 655  | 655  | 654  | 654  | 654  | 654  | 654  | 655  | 655  |
| 10                | 648  | 647  | 645  | 644  | 643  | 643  | 642  | 642  | 642  | 642  | 642  | 643  | 643  | 643  | 644  | 644  | 644  | 644  | 645  |
| 15                | 630  | 628  | 626  | 625  | 624  | 624  | 624  | 624  | 625  | 626  | 627  | 629  | 630  | 631  | 632  | 633  | 634  | 634  | 635  |
| 20                | 605  | 603  | 601  | 600  | 600  | 600  | 601  | 603  | 605  | 607  | 608  | 607  | 606  | 606  | 606  | 606  | 606  | 607  | 607  |
| 25                | 576  | 573  | 571  | 570  | 571  | 572  | 575  | 578  | 574  | 572  | 571  | 573  | 574  | 575  | 576  | 577  | 578  | 579  | 580  |
| 30                | 541  | 538  | 536  | 536  | 538  | 541  | 541  | 536  | 532  | 530  | 530  | 531  | 537  | 542  | 545  | 548  | 550  | 551  | 552  |
| 35                | 503  | 499  | 498  | 499  | 502  | 501  | 496  | 493  | 491  | 489  | 487  | 490  | 492  | 501  | 503  | 506  | 509  | 510  | 511  |
| 40                | 460  | 456  | 454  | 456  | 458  | 453  | 449  | 446  | 445  | 448  | 448  | 444  | 445  | 448  | 455  | 461  | 466  | 469  | 470  |
| 45                | 415  | 408  | 406  | 408  | 407  | 404  | 402  | 401  | 401  | 403  | 406  | 405  | 401  | 402  | 407  | 414  | 423  | 428  | 429  |
| 50                | 367  | 359  | 357  | 357  | 358  | 361  | 360  | 357  | 357  | 360  | 364  | 368  | 361  | 357  | 359  | 362  | 370  | 377  | 379  |
| 55                | 316  | 309  | 309  | 308  | 311  | 315  | 313  | 312  | 314  | 318  | 317  | 317  | 314  | 311  | 311  | 310  | 316  | 325  | 328  |
| 60                | 263  | 258  | 258  | 258  | 263  | 261  | 261  | 263  | 263  | 264  | 264  | 265  | 265  | 265  | 265  | 261  | 262  | 273  | 278  |
| 65                | 209  | 205  | 205  | 208  | 207  | 208  | 209  | 208  | 209  | 210  | 212  | 213  | 214  | 214  | 215  | 212  | 211  | 218  | 224  |
| 70                | 155  | 153  | 153  | 154  | 155  | 154  | 154  | 155  | 157  | 158  | 159  | 160  | 161  | 162  | 163  | 162  | 160  | 164  | 170  |
| 75                | 102  | 101  | 102  | 103  | 102  | 102  | 104  | 105  | 106  | 107  | 107  | 108  | 109  | 110  | 110  | 111  | 111  | 111  | 117  |
| 80                | 53.9 | 53.9 | 55.1 | 54.2 | 54.7 | 56.1 | 56.7 | 57.0 | 56.9 | 59.7 | 62.9 | 65.7 | 68.1 | 70.2 | 71.9 | 73.3 | 73.7 | 73.9 | 78.1 |
| 85                | 14.7 | 16.1 | 15.8 | 16.2 | 16.8 | 20.6 | 23.6 | 26.2 | 28.5 | 30.4 | 32.1 | 33.5 | 34.7 | 35.8 | 36.6 | 37.3 | 37.5 | 37.5 | 39.6 |
| 90                | 0.35 | 1.88 | 1.87 | 1.86 | 1.81 | 1.81 | 1.81 | 1.80 | 1.78 | 1.74 | 1.71 | 1.64 | 1.58 | 1.51 | 1.42 | 1.34 | 1.25 | 1.11 | 1.00 |
| 95                | 0.29 | 1.77 | 1.78 | 1.75 | 1.72 | 1.71 | 1.72 | 1.71 | 1.69 | 1.66 | 1.64 | 1.59 | 1.54 | 1.49 | 1.43 | 1.37 | 1.30 | 1.20 | 1.12 |
| 100               | 0.29 | 1.28 | 1.69 | 1.63 | 1.64 | 1.66 | 1.66 | 1.64 | 1.60 | 1.58 | 1.56 | 1.53 | 1.50 | 1.47 | 1.44 | 1.40 | 1.34 | 1.28 | 1.24 |
| 105               | 0.37 | 0.84 | 1.39 | 1.54 | 1.61 | 1.64 | 1.65 | 1.64 | 1.64 | 1.61 | 1.58 | 1.54 | 1.51 | 1.49 | 1.47 | 1.43 | 1.40 | 1.37 | 1.36 |
| 110               | 0.49 | 0.67 | 1.15 | 1.44 | 1.56 | 1.64 | 1.65 | 1.65 | 1.67 | 1.67 | 1.65 | 1.62 | 1.62 | 1.61 | 1.58 | 1.50 | 1.50 | 1.51 | 1.50 |
| 115               | 0.63 | 0.69 | 0.96 | 1.33 | 1.48 | 1.59 | 1.65 | 1.69 | 1.70 | 1.72 | 1.71 | 1.72 | 1.73 | 1.72 | 1.68 | 1.57 | 1.62 | 1.65 | 1.64 |
| 120               | 0.79 | 0.82 | 0.92 | 1.20 | 1.38 | 1.49 | 1.59 | 1.71 | 1.75 | 1.75 | 1.74 | 1.73 | 1.76 | 1.78 | 1.75 | 1.66 | 1.74 | 1.79 | 1.78 |
| 125               | 0.93 | 0.96 | 1.01 | 1.16 | 1.30 | 1.41 | 1.52 | 1.64 | 1.74 | 1.78 | 1.74 | 1.71 | 1.74 | 1.79 | 1.82 | 1.81 | 1.89 | 1.92 | 1.90 |
| 130               | 1.04 | 1.08 | 1.11 | 1.22 | 1.30 | 1.39 | 1.49 | 1.59 | 1.68 | 1.71 | 1.71 | 1.70 | 1.72 | 1.82 | 1.93 | 1.98 | 2.04 | 2.04 | 2.03 |
| 135               | 1.15 | 1.19 | 1.24 | 1.30 | 1.38 | 1.46 | 1.52 | 1.59 | 1.65 | 1.72 | 1.76 | 1.80 | 1.83 | 1.94 | 2.04 | 2.15 | 2.17 | 2.17 | 2.15 |
| 140               | 1.26 | 1.31 | 1.36 | 1.41 | 1.49 | 1.53 | 1.59 | 1.64 | 1.72 | 1.81 | 1.88 | 1.92 | 1.97 | 2.06 | 2.11 | 2.17 | 2.17 | 2.16 | 2.13 |
| 145               | 1.36 | 1.40 | 1.45 | 1.50 | 1.54 | 1.60 | 1.65 | 1.70 | 1.78 | 1.88 | 1.97 | 2.05 | 2.11 | 2.14 | 2.16 | 2.17 | 2.17 | 2.15 | 2.12 |
| 150               | 1.44 | 1.48 | 1.51 | 1.56 | 1.60 | 1.64 | 1.68 | 1.75 | 1.81 | 1.88 | 1.94 | 2.02 | 2.08 | 2.12 | 2.14 | 2.15 | 2.17 | 2.13 | 2.10 |
| 155               | 1.53 | 1.56 | 1.58 | 1.62 | 1.65 | 1.68 | 1.72 | 1.75 | 1.81 | 1.85 | 1.89 | 1.94 | 1.97 | 2.00 | 2.02 | 2.03 | 2.04 | 2.02 | 2.00 |
| 160               | 1.60 | 1.62 | 1.64 | 1.66 | 1.69 | 1.70 | 1.72 | 1.75 | 1.77 | 1.78 | 1.81 | 1.84 | 1.86 | 1.89 | 1.90 | 1.91 | 1.92 | 1.91 | 1.90 |
| 165               | 1.62 | 1.63 | 1.65 | 1.66 | 1.68 | 1.70 | 1.71 | 1.73 | 1.74 | 1.76 | 1.77 | 1.78 | 1.79 | 1.79 | 1.80 | 1.80 | 1.80 | 1.81 | 1.81 |
| 170               | 1.65 | 1.66 | 1.67 | 1.67 | 1.68 | 1.69 | 1.70 | 1.71 | 1.72 | 1.72 | 1.73 | 1.73 | 1.74 | 1.74 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 |
| 175               | 1.65 | 1.65 | 1.66 | 1.66 | 1.66 | 1.67 | 1.67 | 1.67 | 1.68 | 1.68 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 |
| 180               | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.190m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                   |                 |                   |
|-------------------------------------------------------------------|-----------------|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |                 |                   |
| NAME: EB1                                                         | TYPE:           | WEIGHT:           |
| SPEC.:                                                            | DIM.: 640*33*55 | SERIAL No.:       |
| MFR.: Utopia Lighting                                             | SUR.:640*33     | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C(DEG)<br>γ (DEG) | 95   | 100  | 105  | 110  | 115  | 120  | 125  | 130  | 135  | 140  | 145  | 150  | 155  | 160  | 165  | 170  | 175  | 180  | 185  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  |
| 5                 | 655  | 655  | 655  | 655  | 656  | 656  | 656  | 657  | 657  | 657  | 658  | 658  | 659  | 660  | 660  | 661  | 662  | 663  | 662  |
| 10                | 645  | 645  | 645  | 645  | 645  | 646  | 646  | 646  | 646  | 646  | 647  | 647  | 648  | 649  | 650  | 651  | 652  | 654  | 652  |
| 15                | 635  | 635  | 635  | 635  | 634  | 634  | 633  | 632  | 632  | 631  | 631  | 631  | 631  | 632  | 633  | 634  | 636  | 638  | 636  |
| 20                | 608  | 608  | 609  | 610  | 611  | 612  | 613  | 614  | 614  | 613  | 611  | 610  | 610  | 610  | 610  | 612  | 614  | 617  | 614  |
| 25                | 580  | 581  | 581  | 581  | 581  | 582  | 582  | 583  | 584  | 586  | 588  | 586  | 584  | 583  | 583  | 584  | 586  | 590  | 587  |
| 30                | 552  | 553  | 553  | 552  | 552  | 551  | 551  | 551  | 551  | 551  | 553  | 555  | 555  | 552  | 551  | 552  | 554  | 558  | 554  |
| 35                | 512  | 513  | 514  | 514  | 516  | 517  | 519  | 517  | 516  | 515  | 515  | 516  | 518  | 518  | 516  | 516  | 517  | 521  | 517  |
| 40                | 471  | 472  | 472  | 473  | 473  | 474  | 475  | 476  | 479  | 477  | 473  | 471  | 472  | 478  | 477  | 476  | 477  | 481  | 477  |
| 45                | 430  | 430  | 431  | 431  | 431  | 430  | 430  | 430  | 429  | 427  | 424  | 421  | 423  | 428  | 436  | 433  | 433  | 437  | 433  |
| 50                | 380  | 381  | 382  | 383  | 384  | 386  | 385  | 382  | 377  | 368  | 364  | 370  | 367  | 369  | 381  | 387  | 387  | 391  | 387  |
| 55                | 329  | 330  | 331  | 332  | 333  | 333  | 332  | 328  | 319  | 304  | 298  | 295  | 293  | 296  | 315  | 338  | 335  | 341  | 337  |
| 60                | 279  | 280  | 280  | 281  | 282  | 282  | 275  | 265  | 251  | 238  | 228  | 224  | 221  | 220  | 235  | 255  | 267  | 290  | 286  |
| 65                | 225  | 226  | 227  | 228  | 229  | 229  | 216  | 201  | 190  | 180  | 172  | 165  | 161  | 159  | 162  | 175  | 196  | 235  | 233  |
| 70                | 171  | 172  | 173  | 174  | 175  | 172  | 159  | 147  | 137  | 129  | 123  | 118  | 113  | 110  | 110  | 113  | 126  | 182  | 181  |
| 75                | 118  | 119  | 120  | 121  | 122  | 116  | 107  | 98.9 | 91.1 | 84.9 | 81.3 | 77.6 | 72.5 | 70.1 | 67.0 | 66.0 | 65.9 | 123  | 121  |
| 80                | 78.7 | 79.1 | 79.3 | 79.2 | 78.6 | 71.8 | 64.6 | 58.0 | 49.9 | 44.2 | 43.9 | 42.7 | 40.3 | 38.6 | 37.6 | 35.9 | 34.6 | 33.8 | 68.3 |
| 85                | 39.9 | 40.1 | 40.1 | 40.1 | 39.7 | 36.1 | 32.4 | 29.0 | 24.8 | 21.8 | 20.1 | 18.4 | 16.6 | 15.8 | 17.1 | 18.5 | 17.4 | 12.4 | 25.0 |
| 90                | 1.04 | 1.12 | 1.02 | 1.04 | 1.03 | 1.01 | 1.00 | 1.00 | 1.02 | 1.06 | 1.06 | 1.04 | 1.02 | 1.08 | 0.95 | 0.78 | 0.59 | 0.21 | 0.16 |
| 95                | 1.09 | 1.11 | 1.09 | 1.12 | 1.14 | 1.14 | 1.14 | 1.15 | 1.19 | 1.27 | 1.34 | 1.39 | 1.44 | 1.53 | 1.55 | 1.61 | 1.53 | 0.14 | 0.18 |
| 100               | 1.15 | 1.11 | 1.15 | 1.20 | 1.25 | 1.27 | 1.28 | 1.30 | 1.34 | 1.46 | 1.57 | 1.70 | 1.84 | 2.00 | 2.05 | 2.04 | 0.81 | 0.22 | 0.22 |
| 105               | 1.20 | 1.10 | 1.22 | 1.28 | 1.36 | 1.38 | 1.40 | 1.43 | 1.48 | 1.60 | 1.75 | 1.94 | 2.05 | 2.10 | 2.04 | 1.31 | 0.49 | 0.29 | 0.34 |
| 110               | 1.33 | 1.20 | 1.28 | 1.35 | 1.46 | 1.49 | 1.51 | 1.55 | 1.61 | 1.73 | 1.80 | 1.86 | 1.91 | 1.87 | 1.47 | 0.93 | 0.43 | 0.40 | 0.45 |
| 115               | 1.47 | 1.31 | 1.35 | 1.40 | 1.54 | 1.60 | 1.62 | 1.63 | 1.63 | 1.65 | 1.70 | 1.72 | 1.63 | 1.38 | 1.06 | 0.77 | 0.54 | 0.51 | 0.56 |
| 120               | 1.62 | 1.44 | 1.43 | 1.46 | 1.58 | 1.61 | 1.60 | 1.60 | 1.60 | 1.59 | 1.58 | 1.47 | 1.29 | 1.03 | 0.89 | 0.73 | 0.66 | 0.64 | 0.67 |
| 125               | 1.80 | 1.64 | 1.55 | 1.54 | 1.59 | 1.59 | 1.58 | 1.55 | 1.58 | 1.51 | 1.39 | 1.25 | 1.05 | 0.97 | 0.90 | 0.80 | 0.78 | 0.76 | 0.79 |
| 130               | 1.96 | 1.87 | 1.68 | 1.64 | 1.63 | 1.60 | 1.57 | 1.53 | 1.49 | 1.43 | 1.30 | 1.13 | 1.05 | 1.02 | 0.96 | 0.92 | 0.90 | 0.89 | 0.90 |
| 135               | 2.11 | 2.10 | 1.83 | 1.74 | 1.71 | 1.67 | 1.61 | 1.56 | 1.50 | 1.41 | 1.30 | 1.22 | 1.16 | 1.11 | 1.07 | 1.04 | 1.01 | 1.01 | 1.02 |
| 140               | 2.11 | 2.09 | 1.93 | 1.85 | 1.81 | 1.80 | 1.69 | 1.62 | 1.55 | 1.47 | 1.40 | 1.33 | 1.28 | 1.23 | 1.19 | 1.15 | 1.12 | 1.12 | 1.12 |
| 145               | 2.11 | 2.09 | 2.00 | 1.96 | 1.91 | 1.90 | 1.87 | 1.70 | 1.61 | 1.55 | 1.48 | 1.43 | 1.38 | 1.33 | 1.29 | 1.25 | 1.22 | 1.20 | 1.21 |
| 150               | 2.10 | 2.09 | 2.02 | 1.98 | 1.95 | 1.89 | 1.84 | 1.78 | 1.67 | 1.59 | 1.55 | 1.50 | 1.46 | 1.42 | 1.38 | 1.35 | 1.32 | 1.32 | 1.32 |
| 155               | 2.00 | 1.99 | 1.95 | 1.91 | 1.88 | 1.85 | 1.79 | 1.75 | 1.70 | 1.64 | 1.59 | 1.55 | 1.51 | 1.49 | 1.46 | 1.44 | 1.41 | 1.39 | 1.39 |
| 160               | 1.90 | 1.89 | 1.87 | 1.83 | 1.81 | 1.78 | 1.75 | 1.72 | 1.68 | 1.65 | 1.62 | 1.59 | 1.57 | 1.55 | 1.53 | 1.50 | 1.48 | 1.47 | 1.47 |
| 165               | 1.81 | 1.80 | 1.79 | 1.77 | 1.75 | 1.73 | 1.72 | 1.70 | 1.68 | 1.66 | 1.65 | 1.63 | 1.60 | 1.58 | 1.56 | 1.54 | 1.53 | 1.55 | 1.55 |
| 170               | 1.75 | 1.75 | 1.74 | 1.73 | 1.72 | 1.71 | 1.70 | 1.68 | 1.66 | 1.65 | 1.64 | 1.64 | 1.63 | 1.61 | 1.60 | 1.59 | 1.58 | 1.57 | 1.57 |
| 175               | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.68 | 1.68 | 1.67 | 1.66 | 1.65 | 1.64 | 1.64 | 1.63 | 1.63 | 1.62 | 1.62 | 1.62 | 1.62 |
| 180               | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.190m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                   |                 |                   |
|-------------------------------------------------------------------|-----------------|-------------------|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |                 |                   |
| NAME: EB1                                                         | TYPE:           | WEIGHT:           |
| SPEC.:                                                            | DIM.: 640*33*55 | SERIAL No.:       |
| MFR.: Utopia Lighting                                             | SUR.:640*33     | PROTECTION ANGLE: |

Table--3

UNIT: cd

| C(DEG)<br>γ (DEG) | 190  | 195  | 200  | 205  | 210  | 215  | 220  | 225  | 230  | 235  | 240  | 245  | 250  | 255  | 260  | 265  | 270  | 275  | 280  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0                 | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  |
| 5                 | 661  | 660  | 660  | 659  | 659  | 658  | 658  | 657  | 657  | 656  | 656  | 656  | 656  | 655  | 655  | 655  | 655  | 655  | 655  |
| 10                | 651  | 650  | 649  | 648  | 647  | 647  | 646  | 646  | 646  | 646  | 646  | 646  | 646  | 646  | 645  | 645  | 645  | 645  | 645  |
| 15                | 634  | 633  | 632  | 631  | 631  | 631  | 632  | 632  | 633  | 633  | 634  | 635  | 635  | 636  | 636  | 636  | 635  | 635  | 634  |
| 20                | 612  | 611  | 610  | 610  | 611  | 612  | 613  | 615  | 615  | 613  | 612  | 611  | 610  | 610  | 609  | 608  | 608  | 608  | 607  |
| 25                | 584  | 583  | 583  | 584  | 586  | 589  | 587  | 585  | 584  | 583  | 583  | 582  | 582  | 582  | 582  | 581  | 581  | 580  | 579  |
| 30                | 552  | 552  | 553  | 555  | 555  | 553  | 552  | 551  | 551  | 552  | 552  | 553  | 553  | 554  | 554  | 554  | 553  | 552  | 551  |
| 35                | 516  | 516  | 518  | 519  | 516  | 516  | 516  | 517  | 518  | 520  | 518  | 517  | 516  | 515  | 514  | 513  | 513  | 512  | 511  |
| 40                | 476  | 477  | 479  | 476  | 476  | 477  | 479  | 480  | 478  | 476  | 475  | 475  | 474  | 474  | 473  | 473  | 472  | 471  | 470  |
| 45                | 433  | 436  | 433  | 433  | 434  | 437  | 435  | 433  | 432  | 432  | 432  | 432  | 433  | 433  | 433  | 432  | 431  | 431  | 429  |
| 50                | 387  | 388  | 386  | 388  | 390  | 388  | 386  | 386  | 387  | 388  | 388  | 386  | 385  | 384  | 384  | 383  | 382  | 381  | 380  |
| 55                | 339  | 338  | 338  | 341  | 338  | 338  | 339  | 340  | 338  | 337  | 336  | 335  | 334  | 334  | 334  | 334  | 333  | 332  | 330  |
| 60                | 287  | 286  | 290  | 287  | 287  | 289  | 287  | 286  | 285  | 285  | 285  | 284  | 284  | 283  | 283  | 284  | 283  | 282  | 281  |
| 65                | 233  | 235  | 233  | 234  | 235  | 234  | 233  | 233  | 233  | 233  | 233  | 232  | 231  | 230  | 230  | 230  | 229  | 228  | 227  |
| 70                | 180  | 180  | 181  | 180  | 180  | 180  | 180  | 180  | 180  | 180  | 179  | 178  | 178  | 177  | 176  | 176  | 175  | 174  | 173  |
| 75                | 123  | 123  | 123  | 124  | 126  | 125  | 125  | 126  | 127  | 127  | 126  | 125  | 124  | 124  | 123  | 122  | 121  | 120  | 119  |
| 80                | 67.5 | 67.2 | 68.5 | 69.2 | 69.1 | 67.3 | 69.8 | 73.9 | 78.4 | 79.9 | 80.6 | 81.2 | 81.5 | 81.7 | 81.7 | 81.5 | 80.8 | 80.0 | 78.8 |
| 85                | 25.2 | 24.5 | 23.8 | 26.1 | 28.2 | 29.9 | 34.0 | 36.5 | 39.0 | 39.9 | 40.3 | 40.6 | 40.8 | 40.9 | 41.2 | 41.1 | 40.5 | 40.3 | 39.6 |
| 90                | 0.21 | 0.22 | 0.31 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 | 0.20 | 0.22 | 0.23 | 0.59 | 0.67 | 0.21 | 0.57 | 0.50 |
| 95                | 0.16 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.23 | 0.23 | 0.24 | 0.25 | 0.26 | 0.28 | 0.29 | 0.52 | 0.57 | 0.26 | 0.50 | 0.46 |
| 100               | 0.26 | 0.25 | 0.24 | 0.25 | 0.26 | 0.26 | 0.28 | 0.29 | 0.29 | 0.30 | 0.31 | 0.32 | 0.34 | 0.34 | 0.45 | 0.47 | 0.32 | 0.44 | 0.41 |
| 105               | 0.32 | 0.36 | 0.36 | 0.33 | 0.35 | 0.36 | 0.37 | 0.38 | 0.38 | 0.38 | 0.39 | 0.39 | 0.40 | 0.39 | 0.38 | 0.38 | 0.37 | 0.37 | 0.38 |
| 110               | 0.44 | 0.44 | 0.48 | 0.47 | 0.47 | 0.49 | 0.45 | 0.47 | 0.48 | 0.49 | 0.49 | 0.51 | 0.50 | 0.51 | 0.51 | 0.50 | 0.50 | 0.50 | 0.51 |
| 115               | 0.56 | 0.57 | 0.57 | 0.59 | 0.61 | 0.61 | 0.60 | 0.58 | 0.61 | 0.59 | 0.62 | 0.62 | 0.61 | 0.63 | 0.63 | 0.62 | 0.62 | 0.63 | 0.63 |
| 120               | 0.70 | 0.69 | 0.68 | 0.70 | 0.72 | 0.74 | 0.73 | 0.73 | 0.73 | 0.72 | 0.75 | 0.73 | 0.73 | 0.75 | 0.75 | 0.74 | 0.75 | 0.75 | 0.76 |
| 125               | 0.82 | 0.81 | 0.81 | 0.81 | 0.83 | 0.84 | 0.86 | 0.87 | 0.87 | 0.87 | 0.87 | 0.86 | 0.87 | 0.88 | 0.88 | 0.87 | 0.87 | 0.88 | 0.88 |
| 130               | 0.93 | 0.94 | 0.94 | 0.92 | 0.94 | 0.94 | 0.96 | 0.98 | 0.98 | 1.00 | 1.00 | 1.01 | 1.00 | 1.01 | 1.01 | 1.00 | 1.00 | 1.00 | 1.01 |
| 135               | 1.04 | 1.07 | 1.06 | 1.04 | 1.04 | 1.05 | 1.08 | 1.06 | 1.08 | 1.08 | 1.10 | 1.11 | 1.13 | 1.13 | 1.13 | 1.12 | 1.12 | 1.12 | 1.13 |
| 140               | 1.13 | 1.15 | 1.16 | 1.16 | 1.16 | 1.17 | 1.15 | 1.18 | 1.16 | 1.20 | 1.19 | 1.19 | 1.20 | 1.21 | 1.23 | 1.22 | 1.22 | 1.22 | 1.23 |
| 145               | 1.23 | 1.25 | 1.26 | 1.27 | 1.26 | 1.26 | 1.26 | 1.25 | 1.29 | 1.28 | 1.27 | 1.30 | 1.28 | 1.30 | 1.32 | 1.32 | 1.31 | 1.32 | 1.33 |
| 150               | 1.32 | 1.33 | 1.34 | 1.36 | 1.37 | 1.35 | 1.36 | 1.37 | 1.36 | 1.35 | 1.37 | 1.36 | 1.37 | 1.39 | 1.42 | 1.41 | 1.41 | 1.42 | 1.42 |
| 155               | 1.40 | 1.40 | 1.41 | 1.42 | 1.44 | 1.46 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 |
| 160               | 1.47 | 1.47 | 1.48 | 1.48 | 1.49 | 1.51 | 1.52 | 1.52 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.52 | 1.52 | 1.52 | 1.52 |
| 165               | 1.55 | 1.55 | 1.55 | 1.54 | 1.55 | 1.55 | 1.56 | 1.56 | 1.57 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.57 | 1.57 |
| 170               | 1.57 | 1.57 | 1.58 | 1.58 | 1.58 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 |
| 175               | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.63 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 |
| 180               | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.190m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                   |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |                   |  |  |
|-------------------------------------------------------------------|--|--|--|--|--|--|--|--|-----------------|--|--|--|--|--|-------------------|--|--|
| Test:U:120.3V I:0.1653A P:19.67W PF:0.9896 Lamp Flux:1810.27x1 lm |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |                   |  |  |
| NAME: EB1                                                         |  |  |  |  |  |  |  |  | TYPE:           |  |  |  |  |  | WEIGHT:           |  |  |
| SPEC.:                                                            |  |  |  |  |  |  |  |  | DIM.: 640*33*55 |  |  |  |  |  | SERIAL No.:       |  |  |
| MFR.: Utopia Lighting                                             |  |  |  |  |  |  |  |  | SUR.:640*33     |  |  |  |  |  | PROTECTION ANGLE: |  |  |

Table--4

UNIT: cd

| C(DEG)<br>γ (DEG) | 285  | 290  | 295  | 300  | 305  | 310  | 315  | 320  | 325  | 330  | 335  | 340  | 345  | 350  | 355  |  |  |  |  |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| 0                 | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  | 665  |  |  |  |  |
| 5                 | 655  | 655  | 655  | 655  | 655  | 655  | 655  | 655  | 656  | 656  | 656  | 657  | 658  | 658  | 659  |  |  |  |  |
| 10                | 644  | 644  | 643  | 643  | 643  | 643  | 642  | 642  | 642  | 643  | 643  | 644  | 644  | 645  | 647  |  |  |  |  |
| 15                | 633  | 633  | 631  | 630  | 629  | 628  | 627  | 625  | 625  | 624  | 624  | 624  | 625  | 626  | 628  |  |  |  |  |
| 20                | 607  | 607  | 607  | 607  | 608  | 609  | 608  | 606  | 603  | 602  | 600  | 600  | 600  | 601  | 603  |  |  |  |  |
| 25                | 579  | 578  | 577  | 576  | 576  | 576  | 577  | 579  | 575  | 573  | 571  | 570  | 571  | 571  | 573  |  |  |  |  |
| 30                | 550  | 548  | 547  | 545  | 543  | 542  | 541  | 541  | 541  | 543  | 542  | 539  | 537  | 536  | 538  |  |  |  |  |
| 35                | 511  | 510  | 510  | 510  | 510  | 507  | 504  | 503  | 502  | 502  | 504  | 503  | 500  | 498  | 499  |  |  |  |  |
| 40                | 469  | 468  | 467  | 466  | 465  | 465  | 466  | 464  | 461  | 459  | 460  | 462  | 459  | 457  | 457  |  |  |  |  |
| 45                | 428  | 426  | 424  | 422  | 421  | 419  | 418  | 418  | 419  | 416  | 414  | 414  | 417  | 412  | 412  |  |  |  |  |
| 50                | 379  | 378  | 378  | 377  | 376  | 373  | 371  | 370  | 369  | 370  | 367  | 366  | 367  | 366  | 364  |  |  |  |  |
| 55                | 329  | 328  | 326  | 325  | 324  | 324  | 324  | 321  | 319  | 317  | 318  | 316  | 315  | 317  | 313  |  |  |  |  |
| 60                | 279  | 277  | 275  | 274  | 272  | 271  | 270  | 269  | 268  | 265  | 264  | 265  | 262  | 263  | 260  |  |  |  |  |
| 65                | 225  | 224  | 223  | 221  | 220  | 218  | 216  | 214  | 213  | 213  | 211  | 210  | 210  | 208  | 208  |  |  |  |  |
| 70                | 171  | 170  | 169  | 168  | 166  | 165  | 164  | 162  | 159  | 158  | 158  | 157  | 156  | 155  | 155  |  |  |  |  |
| 75                | 118  | 116  | 115  | 114  | 113  | 112  | 111  | 110  | 108  | 107  | 105  | 104  | 104  | 103  | 102  |  |  |  |  |
| 80                | 77.4 | 75.7 | 73.9 | 71.7 | 69.2 | 66.3 | 63.1 | 60.2 | 59.8 | 59.2 | 58.3 | 56.9 | 55.9 | 55.9 | 54.3 |  |  |  |  |
| 85                | 38.9 | 38.0 | 37.1 | 35.9 | 34.6 | 33.1 | 31.4 | 29.4 | 27.2 | 24.5 | 21.4 | 17.7 | 16.9 | 16.2 | 15.8 |  |  |  |  |
| 90                | 0.49 | 0.47 | 0.46 | 0.45 | 0.43 | 0.42 | 0.40 | 0.38 | 0.35 | 0.34 | 0.32 | 0.30 | 0.28 | 0.26 | 0.24 |  |  |  |  |
| 95                | 0.45 | 0.44 | 0.42 | 0.40 | 0.38 | 0.37 | 0.35 | 0.32 | 0.29 | 0.27 | 0.25 | 0.24 | 0.24 | 0.25 | 0.22 |  |  |  |  |
| 100               | 0.41 | 0.40 | 0.39 | 0.36 | 0.34 | 0.32 | 0.31 | 0.28 | 0.28 | 0.29 | 0.30 | 0.31 | 0.29 | 0.26 | 0.28 |  |  |  |  |
| 105               | 0.39 | 0.40 | 0.40 | 0.39 | 0.39 | 0.39 | 0.41 | 0.41 | 0.41 | 0.42 | 0.41 | 0.40 | 0.38 | 0.40 | 0.36 |  |  |  |  |
| 110               | 0.52 | 0.53 | 0.54 | 0.54 | 0.54 | 0.54 | 0.55 | 0.55 | 0.54 | 0.53 | 0.51 | 0.50 | 0.52 | 0.51 | 0.47 |  |  |  |  |
| 115               | 0.64 | 0.66 | 0.68 | 0.68 | 0.68 | 0.68 | 0.67 | 0.66 | 0.67 | 0.64 | 0.63 | 0.64 | 0.66 | 0.63 | 0.61 |  |  |  |  |
| 120               | 0.77 | 0.78 | 0.80 | 0.79 | 0.80 | 0.78 | 0.79 | 0.78 | 0.77 | 0.80 | 0.78 | 0.79 | 0.77 | 0.74 | 0.75 |  |  |  |  |
| 125               | 0.89 | 0.89 | 0.90 | 0.90 | 0.90 | 0.93 | 0.89 | 0.91 | 0.91 | 0.91 | 0.93 | 0.91 | 0.88 | 0.87 | 0.89 |  |  |  |  |
| 130               | 1.01 | 0.99 | 1.00 | 1.02 | 1.00 | 1.03 | 1.02 | 1.02 | 1.03 | 1.05 | 1.03 | 1.02 | 1.00 | 0.99 | 1.02 |  |  |  |  |
| 135               | 1.13 | 1.11 | 1.11 | 1.12 | 1.12 | 1.13 | 1.15 | 1.15 | 1.16 | 1.14 | 1.13 | 1.11 | 1.12 | 1.12 | 1.13 |  |  |  |  |
| 140               | 1.24 | 1.22 | 1.22 | 1.23 | 1.24 | 1.25 | 1.26 | 1.25 | 1.24 | 1.23 | 1.24 | 1.23 | 1.21 | 1.23 | 1.25 |  |  |  |  |
| 145               | 1.34 | 1.34 | 1.34 | 1.34 | 1.35 | 1.35 | 1.33 | 1.34 | 1.31 | 1.31 | 1.31 | 1.30 | 1.31 | 1.33 | 1.35 |  |  |  |  |
| 150               | 1.43 | 1.43 | 1.43 | 1.42 | 1.41 | 1.41 | 1.41 | 1.39 | 1.39 | 1.40 | 1.41 | 1.39 | 1.40 | 1.41 | 1.43 |  |  |  |  |
| 155               | 1.48 | 1.48 | 1.49 | 1.49 | 1.47 | 1.46 | 1.46 | 1.47 | 1.48 | 1.47 | 1.47 | 1.48 | 1.49 | 1.50 | 1.52 |  |  |  |  |
| 160               | 1.53 | 1.53 | 1.54 | 1.54 | 1.55 | 1.56 | 1.53 | 1.52 | 1.52 | 1.53 | 1.54 | 1.55 | 1.56 | 1.58 | 1.59 |  |  |  |  |
| 165               | 1.57 | 1.57 | 1.58 | 1.58 | 1.58 | 1.59 | 1.59 | 1.59 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.61 | 1.61 |  |  |  |  |
| 170               | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.61 | 1.61 | 1.61 | 1.62 | 1.62 | 1.63 | 1.63 | 1.63 | 1.64 |  |  |  |  |
| 175               | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 | 1.64 | 1.64 | 1.64 |  |  |  |  |
| 180               | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 |  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.190m [K=1.0000]  
Remarks:

## Photometric Data Table [cd]

| G/C   | 0.0    | 5.0    | 10.0   | 15.0  | 20.0  | 25.0  | 30.0  | 35.0  | 40.0  | 45.0  |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0.0   | 664.6  | 664.6  | 664.6  | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 |
| 2.5   | 663.0  | 662.6  | 662.2  | 661.8 | 661.5 | 661.2 | 660.9 | 660.6 | 660.4 | 660.2 |
| 5.0   | 659.9  | 659.0  | 658.3  | 657.6 | 656.9 | 656.4 | 655.9 | 655.5 | 655.2 | 654.9 |
| 7.5   | 655.0  | 653.8  | 652.7  | 651.8 | 651.0 | 650.4 | 649.8 | 649.4 | 649.1 | 648.9 |
| 10.0  | 648.2  | 646.7  | 645.3  | 644.2 | 643.4 | 642.8 | 642.4 | 642.2 | 642.1 | 642.2 |
| 12.5  | 639.8  | 637.9  | 636.4  | 635.2 | 634.4 | 633.9 | 633.7 | 633.7 | 634.0 | 634.6 |
| 15.0  | 629.9  | 627.7  | 626.0  | 624.7 | 624.0 | 623.7 | 623.8 | 624.3 | 625.1 | 626.1 |
| 17.5  | 618.3  | 615.8  | 614.1  | 613.0 | 612.4 | 612.5 | 613.1 | 614.0 | 615.4 | 617.0 |
| 20.0  | 605.4  | 602.6  | 600.8  | 599.7 | 599.5 | 600.1 | 601.3 | 602.9 | 605.0 | 607.3 |
| 22.5  | 591.2  | 588.2  | 586.4  | 585.5 | 585.7 | 586.6 | 588.4 | 590.9 | 593.9 | 591.5 |
| 25.0  | 575.7  | 572.5  | 570.7  | 570.2 | 570.7 | 572.3 | 574.9 | 578.1 | 574.4 | 571.9 |
| 27.5  | 559.0  | 555.7  | 554.0  | 553.7 | 554.9 | 557.2 | 560.5 | 557.3 | 553.6 | 551.3 |
| 30.0  | 541.3  | 537.9  | 536.2  | 536.3 | 538.1 | 541.3 | 541.0 | 536.4 | 532.4 | 530.2 |
| 32.5  | 522.4  | 518.9  | 517.5  | 518.1 | 520.6 | 524.3 | 518.7 | 515.2 | 512.2 | 509.0 |
| 35.0  | 502.6  | 498.8  | 497.6  | 498.8 | 502.1 | 501.1 | 495.6 | 492.5 | 491.4 | 489.4 |
| 37.5  | 481.9  | 477.8  | 476.6  | 478.1 | 482.4 | 477.2 | 472.4 | 469.2 | 468.8 | 469.8 |
| 40.0  | 460.2  | 455.6  | 454.4  | 456.4 | 458.1 | 452.7 | 449.0 | 446.4 | 445.4 | 447.9 |
| 42.5  | 438.1  | 432.3  | 430.5  | 433.0 | 432.4 | 428.3 | 425.4 | 423.7 | 423.1 | 424.7 |
| 45.0  | 414.9  | 408.2  | 405.6  | 407.7 | 406.6 | 404.5 | 402.4 | 401.4 | 401.2 | 402.5 |
| 47.5  | 391.1  | 384.0  | 381.3  | 382.3 | 381.9 | 382.0 | 380.7 | 379.0 | 379.3 | 381.3 |
| 50.0  | 366.7  | 359.4  | 357.1  | 357.4 | 358.1 | 361.2 | 360.2 | 356.8 | 357.5 | 360.3 |
| 52.5  | 341.6  | 334.5  | 332.7  | 332.4 | 334.4 | 339.5 | 337.5 | 334.6 | 335.7 | 339.4 |
| 55.0  | 315.9  | 309.4  | 308.7  | 307.8 | 310.8 | 314.8 | 312.7 | 311.5 | 314.1 | 317.9 |
| 57.5  | 289.8  | 283.2  | 283.3  | 283.2 | 287.5 | 287.5 | 286.6 | 287.4 | 291.6 | 290.6 |
| 60.0  | 263.1  | 257.7  | 257.6  | 257.8 | 262.7 | 260.5 | 260.9 | 263.1 | 263.5 | 263.6 |
| 62.5  | 236.3  | 231.8  | 231.6  | 233.2 | 234.7 | 234.0 | 235.5 | 235.5 | 235.5 | 236.9 |
| 65.0  | 209.1  | 205.5  | 205.4  | 208.5 | 207.2 | 207.9 | 208.6 | 208.3 | 208.8 | 210.4 |
| 67.5  | 182.0  | 179.1  | 179.1  | 181.5 | 180.5 | 182.1 | 181.2 | 181.5 | 182.7 | 184.4 |
| 70.0  | 154.9  | 153.0  | 152.7  | 154.0 | 154.7 | 154.5 | 154.5 | 155.4 | 156.9 | 158.1 |
| 72.5  | 127.6  | 127.0  | 127.3  | 127.6 | 128.4 | 127.9 | 128.5 | 129.8 | 131.1 | 132.2 |
| 75.0  | 101.8  | 100.8  | 101.8  | 102.7 | 102.1 | 102.3 | 103.5 | 104.8 | 105.8 | 106.7 |
| 77.5  | 77.13  | 76.29  | 77.20  | 77.72 | 77.27 | 78.37 | 79.68 | 80.57 | 81.15 | 81.63 |
| 80.0  | 53.93  | 53.90  | 55.15  | 54.22 | 54.72 | 56.07 | 56.73 | 56.96 | 56.94 | 59.72 |
| 82.5  | 32.85  | 33.55  | 33.74  | 33.70 | 34.61 | 34.92 | 35.11 | 38.86 | 42.08 | 44.92 |
| 85.0  | 14.67  | 16.12  | 15.82  | 16.21 | 16.75 | 20.55 | 23.65 | 26.24 | 28.45 | 30.38 |
| 87.5  | 1.758  | 3.160  | 2.947  | 6.411 | 9.028 | 11.01 | 12.62 | 13.94 | 15.06 | 16.02 |
| 90.0  | 0.3455 | 1.877  | 1.872  | 1.858 | 1.811 | 1.811 | 1.811 | 1.802 | 1.783 | 1.737 |
| 92.5  | 0.2941 | 1.806  | 1.809  | 1.795 | 1.764 | 1.760 | 1.764 | 1.756 | 1.740 | 1.700 |
| 95.0  | 0.2894 | 1.768  | 1.778  | 1.747 | 1.718 | 1.709 | 1.716 | 1.709 | 1.695 | 1.662 |
| 97.5  | 0.2801 | 1.551  | 1.714  | 1.691 | 1.671 | 1.675 | 1.666 | 1.662 | 1.647 | 1.622 |
| 100.0 | 0.2895 | 1.283  | 1.689  | 1.634 | 1.641 | 1.662 | 1.656 | 1.639 | 1.603 | 1.581 |
| 102.5 | 0.3316 | 1.025  | 1.519  | 1.586 | 1.635 | 1.649 | 1.651 | 1.639 | 1.620 | 1.585 |
| 105.0 | 0.3736 | 0.8435 | 1.389  | 1.543 | 1.613 | 1.636 | 1.649 | 1.644 | 1.636 | 1.610 |
| 107.5 | 0.4321 | 0.7143 | 1.302  | 1.502 | 1.597 | 1.630 | 1.651 | 1.650 | 1.654 | 1.637 |
| 110.0 | 0.4904 | 0.6682 | 1.154  | 1.438 | 1.565 | 1.635 | 1.649 | 1.652 | 1.673 | 1.666 |
| 112.5 | 0.5651 | 0.6640 | 1.032  | 1.393 | 1.521 | 1.635 | 1.649 | 1.661 | 1.687 | 1.697 |
| 115.0 | 0.6259 | 0.6866 | 0.9610 | 1.330 | 1.480 | 1.592 | 1.649 | 1.686 | 1.699 | 1.715 |
| 117.5 | 0.7122 | 0.7452 | 0.9311 | 1.247 | 1.431 | 1.538 | 1.630 | 1.706 | 1.720 | 1.735 |
| 120.0 | 0.7892 | 0.8171 | 0.9215 | 1.197 | 1.384 | 1.486 | 1.594 | 1.709 | 1.752 | 1.751 |
| 122.5 | 0.8592 | 0.8878 | 0.9599 | 1.174 | 1.334 | 1.444 | 1.564 | 1.664 | 1.782 | 1.767 |
| 125.0 | 0.9292 | 0.9619 | 1.014  | 1.162 | 1.304 | 1.405 | 1.517 | 1.641 | 1.740 | 1.785 |
| 127.5 | 0.9829 | 1.016  | 1.059  | 1.178 | 1.299 | 1.378 | 1.492 | 1.622 | 1.705 | 1.744 |
| 130.0 | 1.041  | 1.077  | 1.115  | 1.216 | 1.298 | 1.389 | 1.485 | 1.594 | 1.683 | 1.714 |
| 132.5 | 1.100  | 1.137  | 1.181  | 1.246 | 1.333 | 1.419 | 1.495 | 1.587 | 1.664 | 1.708 |
| 135.0 | 1.153  | 1.193  | 1.242  | 1.297 | 1.383 | 1.462 | 1.524 | 1.590 | 1.653 | 1.717 |
| 137.5 | 1.214  | 1.252  | 1.303  | 1.378 | 1.433 | 1.492 | 1.556 | 1.609 | 1.682 | 1.751 |
| 140.0 | 1.261  | 1.308  | 1.357  | 1.409 | 1.490 | 1.534 | 1.586 | 1.638 | 1.722 | 1.814 |
| 142.5 | 1.312  | 1.355  | 1.409  | 1.460 | 1.530 | 1.566 | 1.612 | 1.676 | 1.751 | 1.860 |
| 145.0 | 1.359  | 1.402  | 1.451  | 1.500 | 1.544 | 1.596 | 1.647 | 1.703 | 1.779 | 1.882 |
| 147.5 | 1.403  | 1.439  | 1.481  | 1.524 | 1.574 | 1.631 | 1.669 | 1.723 | 1.809 | 1.884 |
| 150.0 | 1.443  | 1.476  | 1.514  | 1.556 | 1.597 | 1.638 | 1.680 | 1.751 | 1.812 | 1.875 |
| 152.5 | 1.480  | 1.510  | 1.542  | 1.578 | 1.615 | 1.660 | 1.702 | 1.752 | 1.808 | 1.873 |
| 155.0 | 1.531  | 1.556  | 1.584  | 1.616 | 1.647 | 1.680 | 1.716 | 1.751 | 1.810 | 1.849 |
| 157.5 | 1.573  | 1.595  | 1.620  | 1.646 | 1.673 | 1.700 | 1.733 | 1.759 | 1.778 | 1.816 |
| 160.0 | 1.601  | 1.620  | 1.640  | 1.662 | 1.685 | 1.705 | 1.723 | 1.746 | 1.766 | 1.782 |
| 162.5 | 1.601  | 1.620  | 1.638  | 1.658 | 1.680 | 1.701 | 1.718 | 1.735 | 1.753 | 1.769 |
| 165.0 | 1.615  | 1.631  | 1.648  | 1.665 | 1.681 | 1.697 | 1.713 | 1.728 | 1.745 | 1.758 |
| 167.5 | 1.632  | 1.644  | 1.657  | 1.669 | 1.684 | 1.700 | 1.713 | 1.722 | 1.731 | 1.740 |
| 170.0 | 1.648  | 1.657  | 1.666  | 1.675 | 1.683 | 1.692 | 1.700 | 1.709 | 1.716 | 1.723 |
| 172.5 | 1.648  | 1.655  | 1.662  | 1.669 | 1.675 | 1.682 | 1.688 | 1.694 | 1.699 | 1.704 |
| 175.0 | 1.648  | 1.652  | 1.657  | 1.661 | 1.665 | 1.668 | 1.672 | 1.675 | 1.678 | 1.682 |
| 177.5 | 1.643  | 1.646  | 1.648  | 1.650 | 1.653 | 1.655 | 1.657 | 1.659 | 1.660 | 1.662 |
| 180.0 | 1.639  | 1.639  | 1.639  | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:



## Photometric Data Table [cd]

| G/C   | 50.0  | 55.0  | 60.0  | 65.0  | 70.0  | 75.0  | 80.0  | 85.0  | 90.0   | 95.0  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0.0   | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6  | 664.6 |
| 2.5   | 660.0 | 659.8 | 659.7 | 659.6 | 659.6 | 659.5 | 659.5 | 659.6 | 659.7  | 659.7 |
| 5.0   | 654.7 | 654.6 | 654.5 | 654.4 | 654.4 | 654.4 | 654.4 | 654.5 | 654.7  | 654.8 |
| 7.5   | 648.9 | 648.8 | 648.8 | 648.9 | 649.0 | 649.2 | 649.3 | 649.5 | 649.7  | 649.9 |
| 10.0  | 642.3 | 642.6 | 642.9 | 643.2 | 643.5 | 643.9 | 644.2 | 644.5 | 644.8  | 644.9 |
| 12.5  | 635.2 | 635.9 | 636.5 | 637.2 | 637.9 | 638.5 | 639.0 | 639.4 | 639.8  | 640.0 |
| 15.0  | 627.3 | 628.5 | 629.8 | 631.0 | 632.1 | 633.0 | 633.8 | 634.4 | 634.9  | 635.0 |
| 17.5  | 618.8 | 620.8 | 621.7 | 621.1 | 620.7 | 620.6 | 620.5 | 620.7 | 621.0  | 621.4 |
| 20.0  | 607.8 | 606.7 | 606.2 | 606.0 | 606.1 | 606.3 | 606.5 | 606.7 | 607.2  | 607.6 |
| 22.5  | 590.5 | 590.2 | 590.2 | 590.6 | 591.2 | 591.8 | 592.4 | 592.8 | 593.4  | 593.9 |
| 25.0  | 570.8 | 572.8 | 573.8 | 574.7 | 576.0 | 577.3 | 578.2 | 578.9 | 579.5  | 580.1 |
| 27.5  | 550.7 | 552.1 | 556.8 | 558.7 | 560.7 | 562.6 | 564.0 | 565.0 | 565.7  | 566.2 |
| 30.0  | 529.8 | 531.5 | 537.5 | 542.4 | 545.1 | 547.7 | 549.8 | 551.0 | 551.9  | 552.4 |
| 32.5  | 508.7 | 510.8 | 515.6 | 525.8 | 526.6 | 528.3 | 529.8 | 530.8 | 531.4  | 532.3 |
| 35.0  | 487.5 | 489.7 | 492.5 | 500.7 | 503.2 | 506.1 | 508.6 | 510.3 | 511.0  | 511.9 |
| 37.5  | 467.1 | 466.4 | 468.3 | 473.5 | 479.5 | 483.7 | 487.2 | 489.8 | 490.6  | 491.4 |
| 40.0  | 447.6 | 444.3 | 445.0 | 448.1 | 455.4 | 460.8 | 465.8 | 469.2 | 470.2  | 471.0 |
| 42.5  | 427.5 | 424.0 | 422.6 | 424.3 | 431.1 | 437.8 | 444.2 | 448.6 | 449.7  | 450.5 |
| 45.0  | 406.1 | 405.0 | 401.4 | 401.6 | 406.8 | 414.4 | 422.7 | 428.0 | 429.3  | 430.0 |
| 47.5  | 384.7 | 386.8 | 381.5 | 379.8 | 382.8 | 388.4 | 396.8 | 402.5 | 404.1  | 405.0 |
| 50.0  | 363.9 | 367.8 | 361.2 | 356.8 | 358.6 | 361.5 | 369.9 | 376.7 | 378.9  | 379.8 |
| 52.5  | 343.8 | 343.1 | 338.1 | 333.8 | 334.7 | 335.2 | 343.0 | 350.8 | 353.6  | 354.6 |
| 55.0  | 317.1 | 316.8 | 314.5 | 310.8 | 311.3 | 309.7 | 316.0 | 324.8 | 328.4  | 329.4 |
| 57.5  | 290.4 | 290.6 | 290.3 | 287.8 | 288.3 | 284.9 | 289.0 | 298.7 | 303.2  | 304.2 |
| 60.0  | 264.0 | 264.7 | 265.3 | 264.6 | 265.5 | 260.8 | 262.0 | 272.7 | 277.9  | 278.9 |
| 62.5  | 237.8 | 238.9 | 240.0 | 241.0 | 241.3 | 236.6 | 236.1 | 245.5 | 251.1  | 252.1 |
| 65.0  | 211.8 | 213.1 | 213.9 | 214.5 | 215.0 | 212.0 | 210.6 | 218.5 | 224.2  | 225.2 |
| 67.5  | 185.5 | 186.5 | 187.4 | 188.1 | 188.7 | 187.1 | 185.3 | 191.4 | 197.3  | 198.4 |
| 70.0  | 159.2 | 160.2 | 161.1 | 161.9 | 162.5 | 161.9 | 160.2 | 164.4 | 170.4  | 171.5 |
| 72.5  | 133.2 | 134.0 | 134.8 | 135.7 | 136.4 | 136.5 | 135.3 | 137.5 | 143.6  | 144.6 |
| 75.0  | 107.5 | 108.2 | 108.8 | 109.6 | 110.3 | 110.9 | 110.5 | 110.6 | 116.7  | 117.7 |
| 77.5  | 82.09 | 82.46 | 84.92 | 87.55 | 89.62 | 91.32 | 91.83 | 92.14 | 97.40  | 98.15 |
| 80.0  | 62.94 | 65.67 | 68.07 | 70.21 | 71.90 | 73.28 | 73.71 | 73.89 | 78.12  | 78.73 |
| 82.5  | 47.40 | 49.51 | 51.34 | 52.96 | 54.24 | 55.27 | 55.59 | 55.67 | 58.84  | 59.31 |
| 85.0  | 32.06 | 33.48 | 34.70 | 35.77 | 36.61 | 37.28 | 37.47 | 37.47 | 39.56  | 39.89 |
| 87.5  | 16.85 | 17.54 | 18.13 | 18.63 | 19.01 | 19.31 | 19.36 | 19.29 | 20.28  | 20.46 |
| 90.0  | 1.713 | 1.643 | 1.582 | 1.508 | 1.424 | 1.340 | 1.246 | 1.111 | 0.9990 | 1.037 |
| 92.5  | 1.676 | 1.615 | 1.561 | 1.500 | 1.429 | 1.355 | 1.271 | 1.154 | 1.060  | 1.064 |
| 95.0  | 1.638 | 1.586 | 1.540 | 1.491 | 1.435 | 1.370 | 1.295 | 1.198 | 1.120  | 1.091 |
| 97.5  | 1.598 | 1.557 | 1.519 | 1.482 | 1.440 | 1.385 | 1.320 | 1.241 | 1.181  | 1.118 |
| 100.0 | 1.556 | 1.528 | 1.499 | 1.473 | 1.445 | 1.399 | 1.345 | 1.285 | 1.242  | 1.145 |
| 102.5 | 1.540 | 1.501 | 1.479 | 1.463 | 1.450 | 1.413 | 1.370 | 1.329 | 1.303  | 1.172 |
| 105.0 | 1.578 | 1.540 | 1.514 | 1.489 | 1.474 | 1.431 | 1.399 | 1.374 | 1.363  | 1.200 |
| 107.5 | 1.613 | 1.582 | 1.564 | 1.548 | 1.530 | 1.467 | 1.450 | 1.444 | 1.433  | 1.264 |
| 110.0 | 1.646 | 1.624 | 1.616 | 1.606 | 1.584 | 1.503 | 1.502 | 1.513 | 1.503  | 1.330 |
| 112.5 | 1.680 | 1.665 | 1.671 | 1.665 | 1.632 | 1.538 | 1.558 | 1.583 | 1.573  | 1.399 |
| 115.0 | 1.708 | 1.720 | 1.727 | 1.723 | 1.676 | 1.574 | 1.615 | 1.653 | 1.643  | 1.470 |
| 117.5 | 1.727 | 1.734 | 1.764 | 1.781 | 1.720 | 1.610 | 1.675 | 1.723 | 1.713  | 1.544 |
| 120.0 | 1.735 | 1.732 | 1.756 | 1.781 | 1.750 | 1.659 | 1.739 | 1.793 | 1.783  | 1.623 |
| 122.5 | 1.741 | 1.724 | 1.746 | 1.781 | 1.781 | 1.733 | 1.818 | 1.857 | 1.844  | 1.712 |
| 125.0 | 1.742 | 1.713 | 1.737 | 1.785 | 1.819 | 1.811 | 1.895 | 1.919 | 1.904  | 1.799 |
| 127.5 | 1.729 | 1.699 | 1.728 | 1.797 | 1.865 | 1.893 | 1.970 | 1.982 | 1.965  | 1.883 |
| 130.0 | 1.713 | 1.698 | 1.720 | 1.818 | 1.926 | 1.984 | 2.043 | 2.044 | 2.026  | 1.964 |
| 132.5 | 1.722 | 1.739 | 1.757 | 1.856 | 1.995 | 2.080 | 2.112 | 2.106 | 2.087  | 2.042 |
| 135.0 | 1.755 | 1.796 | 1.829 | 1.938 | 2.039 | 2.147 | 2.166 | 2.166 | 2.147  | 2.112 |
| 137.5 | 1.810 | 1.855 | 1.903 | 2.006 | 2.079 | 2.166 | 2.168 | 2.164 | 2.140  | 2.111 |
| 140.0 | 1.884 | 1.917 | 1.968 | 2.059 | 2.113 | 2.170 | 2.169 | 2.161 | 2.132  | 2.109 |
| 142.5 | 1.961 | 1.987 | 2.038 | 2.113 | 2.139 | 2.171 | 2.171 | 2.157 | 2.124  | 2.108 |
| 145.0 | 1.967 | 2.047 | 2.109 | 2.143 | 2.162 | 2.173 | 2.173 | 2.151 | 2.116  | 2.106 |
| 147.5 | 1.956 | 2.031 | 2.119 | 2.174 | 2.174 | 2.174 | 2.174 | 2.143 | 2.109  | 2.103 |
| 150.0 | 1.945 | 2.017 | 2.078 | 2.115 | 2.138 | 2.154 | 2.166 | 2.131 | 2.101  | 2.099 |
| 152.5 | 1.927 | 1.983 | 2.026 | 2.057 | 2.078 | 2.094 | 2.102 | 2.072 | 2.052  | 2.049 |
| 155.0 | 1.895 | 1.937 | 1.973 | 1.999 | 2.019 | 2.034 | 2.039 | 2.015 | 2.003  | 2.001 |
| 157.5 | 1.853 | 1.889 | 1.920 | 1.941 | 1.961 | 1.974 | 1.977 | 1.961 | 1.954  | 1.952 |
| 160.0 | 1.809 | 1.840 | 1.864 | 1.886 | 1.902 | 1.914 | 1.916 | 1.908 | 1.905  | 1.903 |
| 162.5 | 1.787 | 1.797 | 1.810 | 1.830 | 1.844 | 1.854 | 1.858 | 1.856 | 1.856  | 1.854 |
| 165.0 | 1.767 | 1.777 | 1.786 | 1.792 | 1.797 | 1.801 | 1.804 | 1.806 | 1.807  | 1.806 |
| 167.5 | 1.750 | 1.757 | 1.763 | 1.768 | 1.772 | 1.775 | 1.777 | 1.778 | 1.779  | 1.778 |
| 170.0 | 1.729 | 1.735 | 1.740 | 1.743 | 1.746 | 1.749 | 1.750 | 1.750 | 1.751  | 1.750 |
| 172.5 | 1.708 | 1.711 | 1.714 | 1.717 | 1.720 | 1.722 | 1.722 | 1.722 | 1.723  | 1.722 |
| 175.0 | 1.685 | 1.688 | 1.690 | 1.693 | 1.693 | 1.694 | 1.694 | 1.694 | 1.695  | 1.694 |
| 177.5 | 1.662 | 1.663 | 1.664 | 1.664 | 1.665 | 1.666 | 1.666 | 1.666 | 1.667  | 1.666 |
| 180.0 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639  | 1.639 |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:

## Photometric Data Table [cd]

| G/C   | 100.0 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 | 135.0 | 140.0 | 145.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0   | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 | 664.6 |
| 2.5   | 659.8 | 659.9 | 660.1 | 660.3 | 660.5 | 660.7 | 660.9 | 661.2 | 661.5 | 661.9 |
| 5.0   | 655.0 | 655.2 | 655.4 | 655.7 | 655.9 | 656.3 | 656.6 | 657.0 | 657.4 | 657.9 |
| 7.5   | 650.1 | 650.3 | 650.5 | 650.7 | 651.0 | 651.2 | 651.5 | 651.9 | 652.3 | 652.9 |
| 10.0  | 645.1 | 645.3 | 645.4 | 645.5 | 645.6 | 645.7 | 645.8 | 646.0 | 646.3 | 646.6 |
| 12.5  | 640.2 | 640.2 | 640.1 | 640.0 | 639.8 | 639.6 | 639.4 | 639.3 | 639.2 | 639.3 |
| 15.0  | 635.1 | 635.0 | 634.7 | 634.2 | 633.7 | 633.0 | 632.3 | 631.7 | 631.2 | 631.0 |
| 17.5  | 622.1 | 622.9 | 623.8 | 624.9 | 626.1 | 625.8 | 624.6 | 623.5 | 622.3 | 621.5 |
| 20.0  | 608.3 | 609.0 | 609.7 | 610.6 | 611.5 | 612.8 | 614.4 | 614.4 | 612.7 | 611.4 |
| 22.5  | 594.4 | 595.0 | 595.5 | 596.1 | 596.8 | 597.7 | 598.8 | 600.6 | 602.6 | 606.3 |
| 25.0  | 580.6 | 580.9 | 581.2 | 581.4 | 581.8 | 582.2 | 583.1 | 584.4 | 586.1 | 588.5 |
| 27.5  | 566.7 | 566.8 | 566.8 | 566.7 | 566.6 | 566.6 | 567.0 | 567.7 | 569.0 | 570.9 |
| 30.0  | 552.8 | 552.7 | 552.3 | 551.8 | 551.2 | 550.9 | 550.5 | 550.7 | 551.3 | 552.7 |
| 32.5  | 533.2 | 534.3 | 535.4 | 536.9 | 535.8 | 534.8 | 533.9 | 533.3 | 533.3 | 534.0 |
| 35.0  | 512.7 | 513.5 | 514.5 | 515.6 | 517.2 | 518.7 | 517.1 | 515.9 | 515.0 | 515.0 |
| 37.5  | 492.1 | 492.8 | 493.5 | 494.4 | 495.5 | 497.0 | 499.1 | 498.2 | 496.5 | 494.8 |
| 40.0  | 471.6 | 472.0 | 472.6 | 473.1 | 473.8 | 474.8 | 476.4 | 478.6 | 477.0 | 472.6 |
| 42.5  | 451.0 | 451.3 | 451.6 | 451.8 | 452.1 | 452.6 | 453.4 | 454.5 | 453.9 | 449.5 |
| 45.0  | 430.5 | 430.6 | 430.6 | 430.5 | 430.4 | 430.4 | 429.9 | 429.1 | 426.9 | 424.1 |
| 47.5  | 406.0 | 407.0 | 408.4 | 409.3 | 408.7 | 408.0 | 406.0 | 403.0 | 398.3 | 394.0 |
| 50.0  | 380.8 | 381.7 | 382.8 | 384.1 | 385.6 | 385.2 | 381.6 | 377.0 | 367.8 | 363.6 |
| 52.5  | 355.5 | 356.4 | 357.3 | 358.3 | 359.5 | 359.3 | 357.2 | 349.7 | 336.0 | 332.1 |
| 55.0  | 330.3 | 331.0 | 331.8 | 332.6 | 333.5 | 332.0 | 327.6 | 319.3 | 303.6 | 298.0 |
| 57.5  | 305.0 | 305.7 | 306.4 | 307.0 | 307.6 | 304.2 | 296.5 | 284.1 | 270.1 | 262.6 |
| 60.0  | 279.8 | 280.4 | 281.0 | 281.5 | 281.8 | 275.5 | 264.7 | 250.7 | 238.1 | 228.2 |
| 62.5  | 253.1 | 254.1 | 255.0 | 256.1 | 256.2 | 246.0 | 232.6 | 219.3 | 208.1 | 199.0 |
| 65.0  | 226.2 | 227.2 | 228.1 | 229.0 | 229.1 | 216.1 | 201.4 | 189.8 | 180.0 | 172.1 |
| 67.5  | 199.4 | 200.3 | 201.2 | 202.1 | 200.6 | 187.2 | 173.1 | 161.9 | 153.8 | 146.8 |
| 70.0  | 172.5 | 173.5 | 174.4 | 175.3 | 172.2 | 159.4 | 147.4 | 137.2 | 129.1 | 123.3 |
| 72.5  | 145.6 | 146.6 | 147.6 | 148.5 | 143.8 | 132.6 | 122.8 | 113.8 | 106.5 | 101.5 |
| 75.0  | 118.8 | 119.8 | 120.8 | 121.8 | 115.8 | 106.7 | 98.92 | 91.11 | 84.88 | 81.27 |
| 77.5  | 98.64 | 98.83 | 98.76 | 98.24 | 90.17 | 81.60 | 75.79 | 69.07 | 64.14 | 62.09 |
| 80.0  | 79.13 | 79.25 | 79.18 | 78.64 | 71.83 | 64.62 | 57.96 | 49.95 | 44.16 | 43.86 |
| 82.5  | 59.63 | 59.68 | 59.63 | 59.15 | 53.82 | 48.40 | 43.28 | 37.14 | 32.47 | 29.93 |
| 85.0  | 40.12 | 40.13 | 40.09 | 39.73 | 36.07 | 32.45 | 28.97 | 24.82 | 21.84 | 20.11 |
| 87.5  | 20.62 | 20.57 | 20.56 | 20.37 | 18.50 | 16.68 | 14.92 | 12.84 | 11.40 | 10.52 |
| 90.0  | 1.116 | 1.018 | 1.041 | 1.032 | 1.008 | 1.004 | 1.004 | 1.022 | 1.055 | 1.055 |
| 92.5  | 1.116 | 1.052 | 1.082 | 1.087 | 1.074 | 1.073 | 1.078 | 1.109 | 1.166 | 1.202 |
| 95.0  | 1.115 | 1.085 | 1.124 | 1.142 | 1.140 | 1.142 | 1.152 | 1.192 | 1.272 | 1.341 |
| 97.5  | 1.113 | 1.118 | 1.164 | 1.197 | 1.204 | 1.211 | 1.225 | 1.271 | 1.373 | 1.468 |
| 100.0 | 1.111 | 1.151 | 1.204 | 1.251 | 1.266 | 1.280 | 1.298 | 1.344 | 1.463 | 1.571 |
| 102.5 | 1.106 | 1.184 | 1.243 | 1.306 | 1.325 | 1.347 | 1.367 | 1.413 | 1.533 | 1.661 |
| 105.0 | 1.104 | 1.216 | 1.281 | 1.358 | 1.378 | 1.404 | 1.429 | 1.480 | 1.600 | 1.750 |
| 107.5 | 1.154 | 1.250 | 1.315 | 1.408 | 1.433 | 1.459 | 1.490 | 1.546 | 1.666 | 1.823 |
| 110.0 | 1.295 | 1.284 | 1.346 | 1.456 | 1.488 | 1.515 | 1.546 | 1.608 | 1.727 | 1.798 |
| 112.5 | 1.257 | 1.318 | 1.375 | 1.503 | 1.542 | 1.569 | 1.603 | 1.653 | 1.691 | 1.748 |
| 115.0 | 1.311 | 1.353 | 1.400 | 1.544 | 1.596 | 1.623 | 1.627 | 1.630 | 1.651 | 1.698 |
| 117.5 | 1.371 | 1.389 | 1.427 | 1.585 | 1.625 | 1.614 | 1.613 | 1.611 | 1.615 | 1.633 |
| 120.0 | 1.439 | 1.433 | 1.460 | 1.582 | 1.612 | 1.599 | 1.598 | 1.599 | 1.592 | 1.583 |
| 122.5 | 1.536 | 1.489 | 1.500 | 1.583 | 1.600 | 1.588 | 1.576 | 1.587 | 1.575 | 1.472 |
| 125.0 | 1.640 | 1.547 | 1.544 | 1.590 | 1.594 | 1.577 | 1.552 | 1.576 | 1.511 | 1.394 |
| 127.5 | 1.752 | 1.610 | 1.589 | 1.602 | 1.590 | 1.572 | 1.537 | 1.530 | 1.458 | 1.334 |
| 130.0 | 1.870 | 1.680 | 1.637 | 1.625 | 1.596 | 1.569 | 1.534 | 1.493 | 1.427 | 1.303 |
| 132.5 | 1.992 | 1.755 | 1.689 | 1.658 | 1.625 | 1.583 | 1.538 | 1.480 | 1.415 | 1.286 |
| 135.0 | 2.099 | 1.828 | 1.738 | 1.711 | 1.667 | 1.606 | 1.556 | 1.501 | 1.413 | 1.305 |
| 137.5 | 2.092 | 1.878 | 1.793 | 1.765 | 1.723 | 1.630 | 1.587 | 1.510 | 1.432 | 1.352 |
| 140.0 | 2.085 | 1.928 | 1.849 | 1.815 | 1.795 | 1.688 | 1.624 | 1.549 | 1.475 | 1.398 |
| 142.5 | 2.082 | 1.968 | 1.907 | 1.868 | 1.849 | 1.760 | 1.650 | 1.593 | 1.507 | 1.451 |
| 145.0 | 2.085 | 2.004 | 1.961 | 1.912 | 1.904 | 1.866 | 1.702 | 1.614 | 1.546 | 1.481 |
| 147.5 | 2.091 | 2.026 | 2.003 | 1.972 | 1.916 | 1.861 | 1.741 | 1.634 | 1.575 | 1.517 |
| 150.0 | 2.092 | 2.015 | 1.984 | 1.952 | 1.888 | 1.837 | 1.778 | 1.672 | 1.594 | 1.546 |
| 152.5 | 2.041 | 1.976 | 1.942 | 1.920 | 1.863 | 1.815 | 1.763 | 1.704 | 1.626 | 1.567 |
| 155.0 | 1.990 | 1.945 | 1.905 | 1.879 | 1.846 | 1.790 | 1.746 | 1.696 | 1.644 | 1.592 |
| 157.5 | 1.941 | 1.912 | 1.865 | 1.842 | 1.812 | 1.775 | 1.730 | 1.687 | 1.637 | 1.610 |
| 160.0 | 1.892 | 1.874 | 1.828 | 1.806 | 1.780 | 1.749 | 1.716 | 1.679 | 1.653 | 1.620 |
| 162.5 | 1.843 | 1.829 | 1.801 | 1.764 | 1.751 | 1.727 | 1.703 | 1.688 | 1.660 | 1.632 |
| 165.0 | 1.799 | 1.788 | 1.772 | 1.748 | 1.726 | 1.717 | 1.700 | 1.679 | 1.663 | 1.650 |
| 167.5 | 1.775 | 1.765 | 1.752 | 1.738 | 1.718 | 1.697 | 1.688 | 1.678 | 1.662 | 1.645 |
| 170.0 | 1.749 | 1.743 | 1.733 | 1.721 | 1.711 | 1.695 | 1.679 | 1.665 | 1.655 | 1.645 |
| 172.5 | 1.721 | 1.720 | 1.715 | 1.708 | 1.696 | 1.686 | 1.678 | 1.668 | 1.656 | 1.645 |
| 175.0 | 1.694 | 1.693 | 1.691 | 1.689 | 1.686 | 1.682 | 1.675 | 1.666 | 1.657 | 1.649 |
| 177.5 | 1.666 | 1.666 | 1.665 | 1.664 | 1.663 | 1.662 | 1.660 | 1.658 | 1.657 | 1.655 |
| 180.0 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 | 1.639 |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:

## Photometric Data Table [cd]

|       |       |       |        |        |        |        |        |        |        |        |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| G/C   | 150.0 | 155.0 | 160.0  | 165.0  | 170.0  | 175.0  | 180.0  | 185.0  | 190.0  | 195.0  |
| 0.0   | 664.6 | 664.6 | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  |
| 2.5   | 662.2 | 662.5 | 662.9  | 663.3  | 663.7  | 664.1  | 664.5  | 664.1  | 663.7  | 663.3  |
| 5.0   | 658.4 | 659.0 | 659.7  | 660.4  | 661.1  | 661.9  | 662.8  | 661.9  | 661.2  | 660.4  |
| 7.5   | 653.5 | 654.2 | 655.0  | 655.9  | 656.9  | 658.0  | 659.2  | 658.0  | 656.9  | 655.9  |
| 10.0  | 647.2 | 647.9 | 648.7  | 649.7  | 651.0  | 652.4  | 654.1  | 652.4  | 651.0  | 649.8  |
| 12.5  | 639.6 | 640.2 | 641.0  | 642.1  | 643.4  | 645.1  | 647.1  | 645.1  | 643.5  | 642.1  |
| 15.0  | 630.9 | 631.1 | 631.8  | 632.8  | 634.2  | 636.1  | 638.4  | 636.1  | 634.3  | 632.9  |
| 17.5  | 621.1 | 621.0 | 621.4  | 622.3  | 623.8  | 625.8  | 628.4  | 625.8  | 623.9  | 622.5  |
| 20.0  | 610.4 | 609.8 | 609.8  | 610.4  | 611.8  | 614.0  | 617.0  | 614.1  | 611.9  | 610.6  |
| 22.5  | 598.6 | 597.5 | 597.0  | 597.4  | 598.6  | 600.9  | 604.1  | 600.9  | 598.7  | 597.5  |
| 25.0  | 586.0 | 584.1 | 583.2  | 583.1  | 584.2  | 586.5  | 589.9  | 586.5  | 584.3  | 583.3  |
| 27.5  | 572.5 | 569.9 | 568.2  | 567.8  | 568.6  | 570.8  | 574.4  | 570.8  | 568.7  | 567.9  |
| 30.0  | 555.0 | 554.8 | 552.5  | 551.4  | 551.9  | 553.9  | 557.7  | 554.0  | 552.0  | 551.6  |
| 32.5  | 535.8 | 538.8 | 535.7  | 534.1  | 534.2  | 536.2  | 540.2  | 536.3  | 534.4  | 534.3  |
| 35.0  | 515.7 | 518.0 | 518.1  | 515.8  | 515.5  | 517.3  | 521.4  | 517.4  | 515.6  | 516.0  |
| 37.5  | 493.9 | 495.8 | 490.1  | 497.0  | 495.9  | 497.5  | 501.7  | 497.5  | 496.0  | 497.1  |
| 40.0  | 470.9 | 472.2 | 477.7  | 477.1  | 475.6  | 476.9  | 481.2  | 477.0  | 475.7  | 477.3  |
| 42.5  | 446.0 | 447.4 | 453.4  | 456.7  | 454.5  | 455.4  | 459.7  | 455.4  | 454.6  | 456.9  |
| 45.0  | 420.5 | 423.3 | 428.4  | 435.7  | 432.7  | 433.2  | 437.5  | 433.2  | 432.8  | 435.9  |
| 47.5  | 396.8 | 397.7 | 400.5  | 410.8  | 410.1  | 410.2  | 414.5  | 410.3  | 410.3  | 412.7  |
| 50.0  | 369.5 | 367.1 | 368.8  | 381.5  | 387.0  | 386.5  | 390.8  | 386.6  | 387.1  | 388.0  |
| 52.5  | 333.4 | 331.8 | 334.0  | 349.2  | 363.2  | 362.1  | 366.3  | 362.3  | 363.4  | 363.1  |
| 55.0  | 295.2 | 293.2 | 295.8  | 314.6  | 337.5  | 335.1  | 341.4  | 337.4  | 339.3  | 337.7  |
| 57.5  | 258.6 | 254.4 | 257.3  | 276.7  | 301.6  | 302.6  | 316.0  | 312.1  | 314.5  | 312.2  |
| 60.0  | 224.1 | 220.5 | 219.5  | 235.4  | 255.2  | 267.3  | 290.1  | 286.3  | 287.5  | 285.7  |
| 62.5  | 192.6 | 189.7 | 188.1  | 196.2  | 212.8  | 231.1  | 261.7  | 259.4  | 260.5  | 260.0  |
| 65.0  | 165.5 | 161.1 | 159.5  | 161.7  | 175.1  | 196.0  | 235.2  | 233.3  | 233.3  | 234.8  |
| 67.5  | 140.9 | 135.3 | 133.6  | 133.7  | 142.1  | 160.9  | 208.6  | 207.1  | 206.4  | 207.7  |
| 70.0  | 118.2 | 113.0 | 110.3  | 109.6  | 113.3  | 126.0  | 181.7  | 180.8  | 180.1  | 179.8  |
| 72.5  | 97.14 | 92.03 | 89.35  | 87.34  | 88.35  | 92.93  | 153.8  | 153.3  | 153.6  | 151.4  |
| 75.0  | 77.63 | 72.50 | 70.12  | 66.98  | 66.04  | 65.89  | 123.1  | 121.2  | 122.7  | 122.6  |
| 77.5  | 59.46 | 55.10 | 52.91  | 50.46  | 48.88  | 47.05  | 82.25  | 92.57  | 93.09  | 93.22  |
| 80.0  | 42.71 | 40.32 | 38.62  | 37.65  | 35.86  | 34.59  | 33.78  | 68.26  | 67.53  | 67.22  |
| 82.5  | 27.40 | 26.75 | 26.46  | 27.33  | 27.30  | 24.12  | 22.32  | 45.37  | 44.72  | 44.53  |
| 85.0  | 18.37 | 16.63 | 15.77  | 17.10  | 18.51  | 17.39  | 12.37  | 25.05  | 25.23  | 24.48  |
| 87.5  | 9.624 | 8.731 | 8.397  | 8.431  | 7.867  | 7.963  | 4.451  | 9.153  | 8.662  | 10.39  |
| 90.0  | 1.036 | 1.018 | 1.078  | 0.9521 | 0.7839 | 0.5877 | 0.2123 | 0.1587 | 0.2098 | 0.2195 |
| 92.5  | 1.212 | 1.232 | 1.301  | 1.237  | 1.151  | 1.124  | 0.1260 | 0.1579 | 0.1706 | 0.1963 |
| 95.0  | 1.385 | 1.444 | 1.525  | 1.550  | 1.607  | 1.535  | 0.1399 | 0.1819 | 0.1609 | 0.1921 |
| 97.5  | 1.555 | 1.646 | 1.778  | 1.875  | 1.886  | 1.107  | 0.1540 | 0.1818 | 0.2023 | 0.2163 |
| 100.0 | 1.699 | 1.839 | 2.004  | 2.049  | 2.038  | 0.8078 | 0.2192 | 0.2234 | 0.2624 | 0.2492 |
| 102.5 | 1.827 | 2.013 | 2.101  | 2.099  | 1.635  | 0.6187 | 0.2357 | 0.2776 | 0.2952 | 0.3028 |
| 105.0 | 1.937 | 2.050 | 2.100  | 2.044  | 1.310  | 0.4880 | 0.2894 | 0.3385 | 0.3233 | 0.3618 |
| 107.5 | 1.936 | 1.991 | 2.032  | 1.735  | 1.071  | 0.4092 | 0.3429 | 0.3993 | 0.3791 | 0.4104 |
| 110.0 | 1.860 | 1.910 | 1.867  | 1.472  | 0.9298 | 0.4336 | 0.3965 | 0.4529 | 0.4414 | 0.4445 |
| 112.5 | 1.781 | 1.834 | 1.619  | 1.229  | 0.8327 | 0.4841 | 0.4575 | 0.5000 | 0.5018 | 0.4966 |
| 115.0 | 1.723 | 1.635 | 1.377  | 1.059  | 0.7676 | 0.5394 | 0.5134 | 0.5574 | 0.5646 | 0.5661 |
| 117.5 | 1.606 | 1.441 | 1.178  | 0.9642 | 0.7341 | 0.5940 | 0.6089 | 0.6231 | 0.6333 | 0.6260 |
| 120.0 | 1.474 | 1.290 | 1.032  | 0.8919 | 0.7302 | 0.6577 | 0.6393 | 0.6673 | 0.6992 | 0.6857 |
| 122.5 | 1.355 | 1.154 | 0.9803 | 0.8854 | 0.7432 | 0.7111 | 0.7023 | 0.7341 | 0.7695 | 0.7454 |
| 125.0 | 1.252 | 1.051 | 0.9699 | 0.8991 | 0.8043 | 0.7754 | 0.7608 | 0.7912 | 0.8229 | 0.8084 |
| 127.5 | 1.164 | 1.050 | 0.9768 | 0.9211 | 0.8636 | 0.8348 | 0.8286 | 0.8393 | 0.8710 | 0.8758 |
| 130.0 | 1.135 | 1.053 | 1.021  | 0.9628 | 0.9201 | 0.9020 | 0.8916 | 0.9023 | 0.9282 | 0.9403 |
| 132.5 | 1.170 | 1.104 | 1.052  | 1.012  | 0.9797 | 0.9676 | 0.9544 | 0.9662 | 0.9849 | 1.006  |
| 135.0 | 1.218 | 1.160 | 1.108  | 1.071  | 1.043  | 1.013  | 1.008  | 1.020  | 1.042  | 1.067  |
| 137.5 | 1.279 | 1.219 | 1.170  | 1.128  | 1.090  | 1.064  | 1.055  | 1.066  | 1.088  | 1.113  |
| 140.0 | 1.334 | 1.280 | 1.234  | 1.190  | 1.147  | 1.124  | 1.116  | 1.122  | 1.132  | 1.153  |
| 142.5 | 1.382 | 1.331 | 1.289  | 1.246  | 1.213  | 1.186  | 1.164  | 1.170  | 1.181  | 1.195  |
| 145.0 | 1.432 | 1.380 | 1.335  | 1.290  | 1.251  | 1.220  | 1.204  | 1.213  | 1.227  | 1.245  |
| 147.5 | 1.469 | 1.422 | 1.380  | 1.336  | 1.303  | 1.275  | 1.258  | 1.260  | 1.265  | 1.283  |
| 150.0 | 1.500 | 1.461 | 1.419  | 1.382  | 1.349  | 1.319  | 1.316  | 1.317  | 1.321  | 1.329  |
| 152.5 | 1.527 | 1.492 | 1.451  | 1.416  | 1.387  | 1.359  | 1.342  | 1.344  | 1.349  | 1.362  |
| 155.0 | 1.550 | 1.513 | 1.485  | 1.462  | 1.435  | 1.411  | 1.391  | 1.392  | 1.397  | 1.404  |
| 157.5 | 1.579 | 1.544 | 1.510  | 1.480  | 1.455  | 1.434  | 1.421  | 1.423  | 1.427  | 1.435  |
| 160.0 | 1.592 | 1.570 | 1.551  | 1.528  | 1.503  | 1.480  | 1.466  | 1.466  | 1.468  | 1.471  |
| 162.5 | 1.609 | 1.584 | 1.561  | 1.540  | 1.523  | 1.507  | 1.491  | 1.492  | 1.495  | 1.499  |
| 165.0 | 1.629 | 1.604 | 1.581  | 1.562  | 1.545  | 1.528  | 1.554  | 1.551  | 1.548  | 1.546  |
| 167.5 | 1.628 | 1.617 | 1.608  | 1.597  | 1.583  | 1.571  | 1.559  | 1.558  | 1.557  | 1.557  |
| 170.0 | 1.635 | 1.625 | 1.612  | 1.600  | 1.589  | 1.578  | 1.569  | 1.569  | 1.571  | 1.573  |
| 172.5 | 1.635 | 1.626 | 1.618  | 1.610  | 1.602  | 1.594  | 1.594  | 1.594  | 1.593  | 1.593  |
| 175.0 | 1.643 | 1.637 | 1.632  | 1.626  | 1.621  | 1.616  | 1.620  | 1.619  | 1.618  | 1.618  |
| 177.5 | 1.652 | 1.650 | 1.648  | 1.646  | 1.643  | 1.641  | 1.641  | 1.640  | 1.640  | 1.639  |
| 180.0 | 1.639 | 1.639 | 1.639  | 1.639  | 1.639  | 1.639  | 1.643  | 1.643  | 1.643  | 1.643  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:

## Photometric Data Table [cd]

| G/C   | 200.0  | 205.0  | 210.0  | 215.0  | 220.0  | 225.0  | 230.0  | 235.0  | 240.0  | 245.0  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0   | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  |
| 2.5   | 662.9  | 662.6  | 662.2  | 661.9  | 661.6  | 661.3  | 661.0  | 660.8  | 660.5  | 660.4  |
| 5.0   | 659.7  | 659.1  | 658.5  | 658.0  | 657.6  | 657.1  | 656.7  | 656.4  | 656.1  | 655.8  |
| 7.5   | 655.0  | 654.3  | 653.6  | 653.0  | 652.5  | 652.1  | 651.8  | 651.5  | 651.2  | 651.0  |
| 10.0  | 648.8  | 648.0  | 647.3  | 646.8  | 646.5  | 646.2  | 646.0  | 645.9  | 646.0  | 645.8  |
| 12.5  | 641.1  | 640.3  | 639.8  | 639.5  | 639.4  | 639.5  | 639.7  | 639.9  | 640.1  | 640.4  |
| 15.0  | 632.0  | 631.4  | 631.2  | 631.2  | 631.5  | 632.0  | 632.6  | 633.3  | 634.0  | 634.6  |
| 17.5  | 621.6  | 621.2  | 621.3  | 621.9  | 622.7  | 623.8  | 625.0  | 626.2  | 626.6  | 625.4  |
| 20.0  | 610.0  | 610.0  | 610.6  | 611.7  | 613.1  | 614.9  | 614.9  | 613.3  | 612.1  | 611.2  |
| 22.5  | 597.2  | 597.7  | 598.9  | 600.7  | 602.9  | 601.0  | 599.5  | 598.3  | 597.5  | 596.8  |
| 25.0  | 583.4  | 584.4  | 586.2  | 588.8  | 586.6  | 584.9  | 583.7  | 583.0  | 582.5  | 582.2  |
| 27.5  | 568.4  | 570.2  | 572.8  | 571.3  | 569.4  | 568.4  | 567.7  | 567.5  | 567.5  | 567.6  |
| 30.0  | 552.6  | 555.0  | 555.4  | 553.2  | 551.9  | 551.3  | 551.4  | 551.7  | 552.3  | 552.9  |
| 32.5  | 536.0  | 539.1  | 536.2  | 534.5  | 534.0  | 534.1  | 534.8  | 535.8  | 537.0  | 538.1  |
| 35.0  | 518.4  | 518.7  | 516.5  | 515.6  | 515.7  | 516.7  | 518.0  | 519.9  | 518.3  | 517.0  |
| 37.5  | 500.3  | 497.7  | 496.3  | 496.3  | 497.3  | 499.0  | 500.1  | 498.2  | 496.8  | 495.9  |
| 40.0  | 479.0  | 476.5  | 475.8  | 476.7  | 478.6  | 479.6  | 477.6  | 476.1  | 475.3  | 474.7  |
| 42.5  | 456.5  | 454.8  | 455.1  | 456.9  | 458.7  | 456.3  | 454.9  | 454.1  | 453.7  | 453.5  |
| 45.0  | 433.5  | 432.7  | 434.1  | 437.0  | 434.6  | 433.1  | 432.2  | 432.1  | 432.0  | 432.3  |
| 47.5  | 410.1  | 410.5  | 413.0  | 412.5  | 410.6  | 409.7  | 409.6  | 410.0  | 410.5  | 411.2  |
| 50.0  | 386.4  | 387.9  | 390.1  | 387.6  | 386.5  | 386.4  | 387.1  | 388.1  | 387.5  | 386.1  |
| 52.5  | 362.5  | 365.3  | 364.1  | 362.6  | 362.5  | 363.3  | 364.7  | 363.0  | 361.7  | 360.5  |
| 55.0  | 338.5  | 340.5  | 338.1  | 337.8  | 338.7  | 339.8  | 338.1  | 336.8  | 335.8  | 335.0  |
| 57.5  | 314.5  | 313.7  | 312.5  | 313.1  | 314.6  | 312.8  | 311.5  | 310.7  | 310.2  | 309.6  |
| 60.0  | 289.7  | 286.9  | 286.0  | 288.7  | 287.2  | 286.0  | 285.2  | 284.8  | 284.6  | 284.2  |
| 62.5  | 260.7  | 260.5  | 261.9  | 261.1  | 259.9  | 259.4  | 259.1  | 259.1  | 259.1  | 258.9  |
| 65.0  | 233.2  | 234.5  | 234.8  | 233.6  | 233.1  | 233.1  | 233.3  | 233.3  | 232.7  | 232.0  |
| 67.5  | 206.7  | 208.5  | 207.1  | 206.6  | 206.8  | 207.1  | 206.8  | 206.3  | 205.8  | 205.2  |
| 70.0  | 180.9  | 180.3  | 180.1  | 180.3  | 180.5  | 179.9  | 180.0  | 179.5  | 179.0  | 178.4  |
| 72.5  | 153.3  | 152.1  | 153.8  | 153.4  | 152.4  | 152.7  | 153.4  | 152.9  | 152.4  | 151.8  |
| 75.0  | 123.5  | 124.3  | 126.3  | 124.6  | 124.5  | 125.5  | 126.9  | 126.5  | 125.9  | 125.2  |
| 77.5  | 94.75  | 96.09  | 97.24  | 95.82  | 96.99  | 98.51  | 100.7  | 100.3  | 100.9  | 101.5  |
| 80.0  | 68.46  | 69.24  | 69.11  | 67.28  | 69.79  | 73.88  | 78.45  | 79.86  | 80.61  | 81.17  |
| 82.5  | 44.72  | 44.04  | 42.60  | 45.17  | 51.30  | 55.02  | 58.61  | 59.83  | 60.44  | 60.88  |
| 85.0  | 23.76  | 26.11  | 28.15  | 29.85  | 34.03  | 36.52  | 39.01  | 39.90  | 40.32  | 40.64  |
| 87.5  | 11.84  | 13.01  | 14.07  | 14.92  | 17.04  | 18.29  | 19.55  | 20.03  | 20.24  | 20.41  |
| 90.0  | 0.3080 | 0.1827 | 0.1774 | 0.1774 | 0.1774 | 0.1774 | 0.1774 | 0.1822 | 0.1868 | 0.1961 |
| 92.5  | 0.2553 | 0.1931 | 0.1932 | 0.1939 | 0.2006 | 0.2039 | 0.2058 | 0.2115 | 0.2181 | 0.2264 |
| 95.0  | 0.2026 | 0.2035 | 0.2106 | 0.2115 | 0.2245 | 0.2306 | 0.2342 | 0.2409 | 0.2493 | 0.2572 |
| 97.5  | 0.2102 | 0.2231 | 0.2310 | 0.2313 | 0.2501 | 0.2578 | 0.2624 | 0.2702 | 0.2801 | 0.2881 |
| 100.0 | 0.2392 | 0.2548 | 0.2642 | 0.2641 | 0.2796 | 0.2858 | 0.2904 | 0.2993 | 0.3103 | 0.3189 |
| 102.5 | 0.2904 | 0.2829 | 0.3057 | 0.3078 | 0.3244 | 0.3261 | 0.3261 | 0.3293 | 0.3397 | 0.3493 |
| 105.0 | 0.3579 | 0.3341 | 0.3532 | 0.3604 | 0.3693 | 0.3757 | 0.3765 | 0.3824 | 0.3851 | 0.3940 |
| 107.5 | 0.4140 | 0.4009 | 0.4044 | 0.4309 | 0.4128 | 0.4245 | 0.4279 | 0.4346 | 0.4383 | 0.4509 |
| 110.0 | 0.4775 | 0.4747 | 0.4661 | 0.4908 | 0.4518 | 0.4718 | 0.4830 | 0.4873 | 0.4930 | 0.5070 |
| 112.5 | 0.5341 | 0.5466 | 0.5357 | 0.5434 | 0.5176 | 0.5205 | 0.5428 | 0.5395 | 0.5526 | 0.5623 |
| 115.0 | 0.5729 | 0.5935 | 0.6087 | 0.6054 | 0.5954 | 0.5837 | 0.6079 | 0.5869 | 0.6158 | 0.6165 |
| 117.5 | 0.6283 | 0.6483 | 0.6696 | 0.6677 | 0.6674 | 0.6596 | 0.6692 | 0.6533 | 0.6775 | 0.6697 |
| 120.0 | 0.6783 | 0.6967 | 0.7220 | 0.7408 | 0.7350 | 0.7303 | 0.7315 | 0.7242 | 0.7453 | 0.7322 |
| 122.5 | 0.7447 | 0.7581 | 0.7672 | 0.7893 | 0.8052 | 0.8049 | 0.7989 | 0.7916 | 0.8124 | 0.7964 |
| 125.0 | 0.8074 | 0.8090 | 0.8301 | 0.8368 | 0.8600 | 0.8677 | 0.8655 | 0.8675 | 0.8725 | 0.8608 |
| 127.5 | 0.8677 | 0.8786 | 0.8718 | 0.8933 | 0.9096 | 0.9177 | 0.9345 | 0.9346 | 0.9355 | 0.9309 |
| 130.0 | 0.9353 | 0.9188 | 0.9371 | 0.9371 | 0.9599 | 0.9790 | 0.9798 | 1.002  | 1.001  | 1.006  |
| 132.5 | 0.9900 | 0.9866 | 0.9816 | 1.009  | 1.003  | 1.022  | 1.034  | 1.043  | 1.057  | 1.076  |
| 135.0 | 1.055  | 1.043  | 1.042  | 1.048  | 1.080  | 1.058  | 1.081  | 1.084  | 1.103  | 1.113  |
| 137.5 | 1.111  | 1.100  | 1.103  | 1.114  | 1.115  | 1.120  | 1.123  | 1.141  | 1.146  | 1.151  |
| 140.0 | 1.165  | 1.159  | 1.160  | 1.168  | 1.152  | 1.176  | 1.164  | 1.201  | 1.190  | 1.192  |
| 142.5 | 1.225  | 1.219  | 1.217  | 1.200  | 1.219  | 1.208  | 1.229  | 1.241  | 1.229  | 1.247  |
| 145.0 | 1.263  | 1.271  | 1.257  | 1.264  | 1.259  | 1.254  | 1.294  | 1.277  | 1.271  | 1.297  |
| 147.5 | 1.303  | 1.319  | 1.315  | 1.311  | 1.301  | 1.325  | 1.324  | 1.309  | 1.318  | 1.331  |
| 150.0 | 1.340  | 1.359  | 1.366  | 1.355  | 1.362  | 1.368  | 1.356  | 1.355  | 1.372  | 1.365  |
| 152.5 | 1.378  | 1.391  | 1.405  | 1.411  | 1.413  | 1.402  | 1.399  | 1.403  | 1.407  | 1.404  |
| 155.0 | 1.409  | 1.421  | 1.442  | 1.459  | 1.450  | 1.445  | 1.445  | 1.448  | 1.446  | 1.448  |
| 157.5 | 1.446  | 1.459  | 1.468  | 1.481  | 1.494  | 1.494  | 1.487  | 1.486  | 1.488  | 1.492  |
| 160.0 | 1.476  | 1.484  | 1.493  | 1.509  | 1.517  | 1.523  | 1.529  | 1.533  | 1.533  | 1.531  |
| 162.5 | 1.508  | 1.518  | 1.528  | 1.532  | 1.536  | 1.547  | 1.558  | 1.569  | 1.574  | 1.566  |
| 165.0 | 1.546  | 1.545  | 1.546  | 1.551  | 1.558  | 1.564  | 1.573  | 1.579  | 1.580  | 1.580  |
| 167.5 | 1.558  | 1.560  | 1.563  | 1.567  | 1.574  | 1.580  | 1.583  | 1.584  | 1.586  | 1.587  |
| 170.0 | 1.576  | 1.580  | 1.583  | 1.585  | 1.587  | 1.588  | 1.591  | 1.594  | 1.596  | 1.599  |
| 172.5 | 1.593  | 1.595  | 1.597  | 1.600  | 1.602  | 1.603  | 1.605  | 1.608  | 1.610  | 1.608  |
| 175.0 | 1.619  | 1.620  | 1.621  | 1.622  | 1.622  | 1.621  | 1.620  | 1.620  | 1.623  | 1.626  |
| 177.5 | 1.639  | 1.639  | 1.640  | 1.641  | 1.640  | 1.639  | 1.637  | 1.636  | 1.635  | 1.634  |
| 180.0 | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:

## Photometric Data Table [cd]

|       |        |        |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| G/C   | 250.0  | 255.0  | 260.0  | 265.0  | 270.0  | 275.0  | 280.0  | 285.0  | 290.0  | 295.0  |
| 0.0   | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  |
| 2.5   | 660.2  | 660.0  | 659.9  | 659.8  | 659.8  | 659.7  | 659.6  | 659.6  | 659.7  | 659.7  |
| 5.0   | 655.6  | 655.3  | 655.1  | 655.0  | 654.9  | 654.7  | 654.6  | 654.6  | 654.6  | 654.6  |
| 7.5   | 650.7  | 650.6  | 650.3  | 650.1  | 650.0  | 649.8  | 649.6  | 649.5  | 649.3  | 649.1  |
| 10.0  | 645.7  | 645.6  | 645.5  | 645.3  | 645.1  | 644.8  | 644.5  | 644.2  | 643.8  | 643.5  |
| 12.5  | 640.6  | 640.6  | 640.6  | 640.5  | 640.3  | 639.9  | 639.4  | 638.9  | 638.2  | 637.6  |
| 15.0  | 635.3  | 635.5  | 635.6  | 635.6  | 635.4  | 634.9  | 634.3  | 633.5  | 632.6  | 631.5  |
| 17.5  | 624.3  | 623.5  | 622.7  | 622.1  | 621.7  | 621.3  | 621.2  | 621.2  | 621.4  | 621.8  |
| 20.0  | 610.4  | 609.8  | 609.0  | 608.4  | 608.0  | 607.5  | 607.2  | 607.1  | 607.1  | 607.1  |
| 22.5  | 596.3  | 595.8  | 595.3  | 594.7  | 594.2  | 593.8  | 593.3  | 592.9  | 592.5  | 592.2  |
| 25.0  | 582.1  | 581.9  | 581.5  | 581.0  | 580.5  | 580.0  | 579.4  | 578.7  | 577.9  | 577.1  |
| 27.5  | 567.8  | 567.9  | 567.8  | 567.3  | 566.8  | 566.2  | 565.4  | 564.4  | 563.2  | 561.9  |
| 30.0  | 553.4  | 553.9  | 554.0  | 553.6  | 553.1  | 552.4  | 551.4  | 550.1  | 548.4  | 546.7  |
| 32.5  | 536.7  | 535.6  | 534.6  | 533.6  | 532.8  | 532.3  | 531.9  | 531.6  | 531.2  | 531.2  |
| 35.0  | 515.8  | 515.0  | 514.2  | 513.3  | 512.5  | 511.9  | 511.4  | 510.8  | 510.2  | 509.8  |
| 37.5  | 495.0  | 494.4  | 493.8  | 493.1  | 492.2  | 491.6  | 490.9  | 490.1  | 489.2  | 488.4  |
| 40.0  | 474.2  | 473.8  | 473.4  | 472.7  | 472.0  | 471.2  | 470.4  | 469.3  | 468.1  | 466.9  |
| 42.5  | 453.4  | 453.2  | 453.0  | 452.5  | 451.7  | 450.9  | 449.9  | 448.6  | 447.0  | 445.5  |
| 45.0  | 432.6  | 432.6  | 432.5  | 432.2  | 431.4  | 430.5  | 429.4  | 427.8  | 426.1  | 424.1  |
| 47.5  | 410.4  | 409.2  | 408.5  | 407.7  | 406.7  | 406.0  | 405.2  | 404.5  | 403.8  | 402.8  |
| 50.0  | 385.0  | 384.0  | 383.6  | 383.0  | 382.0  | 381.2  | 380.3  | 379.3  | 378.4  | 377.6  |
| 52.5  | 359.7  | 358.8  | 358.6  | 358.3  | 357.3  | 356.4  | 355.4  | 354.2  | 353.0  | 351.9  |
| 55.0  | 334.4  | 333.7  | 333.5  | 333.6  | 332.6  | 331.7  | 330.5  | 329.1  | 327.7  | 326.3  |
| 57.5  | 309.1  | 308.5  | 308.4  | 308.9  | 307.9  | 306.9  | 305.5  | 304.0  | 302.4  | 300.8  |
| 60.0  | 283.9  | 283.5  | 283.3  | 284.2  | 283.2  | 282.1  | 280.7  | 279.0  | 277.2  | 275.4  |
| 62.5  | 258.1  | 257.2  | 256.6  | 257.2  | 256.2  | 255.2  | 253.9  | 252.6  | 251.2  | 250.0  |
| 65.0  | 231.2  | 230.5  | 229.7  | 230.2  | 229.1  | 228.1  | 226.8  | 225.4  | 224.1  | 222.8  |
| 67.5  | 204.5  | 203.7  | 203.0  | 203.1  | 202.1  | 201.1  | 199.8  | 198.4  | 197.0  | 195.7  |
| 70.0  | 177.7  | 177.0  | 176.2  | 176.1  | 175.1  | 174.0  | 172.7  | 171.4  | 170.1  | 168.8  |
| 72.5  | 151.0  | 150.3  | 149.5  | 149.0  | 148.1  | 147.0  | 145.7  | 144.4  | 143.2  | 142.0  |
| 75.0  | 124.4  | 123.7  | 122.8  | 122.0  | 121.0  | 120.0  | 118.7  | 117.5  | 116.4  | 115.3  |
| 77.5  | 101.9  | 102.0  | 102.0  | 101.6  | 100.9  | 99.93  | 98.46  | 96.69  | 94.68  | 92.38  |
| 80.0  | 81.49  | 81.66  | 81.72  | 81.46  | 80.75  | 80.04  | 78.84  | 77.40  | 75.75  | 73.85  |
| 82.5  | 61.15  | 61.30  | 61.44  | 61.26  | 60.62  | 60.17  | 59.24  | 58.14  | 56.87  | 55.42  |
| 85.0  | 40.83  | 40.94  | 41.15  | 41.06  | 40.48  | 40.30  | 39.65  | 38.90  | 38.05  | 37.06  |
| 87.5  | 20.52  | 20.58  | 20.87  | 20.87  | 20.34  | 20.43  | 20.07  | 19.69  | 19.25  | 18.75  |
| 90.0  | 0.2194 | 0.2335 | 0.5922 | 0.6675 | 0.2063 | 0.5651 | 0.4996 | 0.4856 | 0.4716 | 0.4575 |
| 92.5  | 0.2485 | 0.2593 | 0.5562 | 0.6192 | 0.2342 | 0.5331 | 0.4783 | 0.4663 | 0.4541 | 0.4403 |
| 95.0  | 0.2779 | 0.2853 | 0.5205 | 0.5710 | 0.2620 | 0.5013 | 0.4571 | 0.4472 | 0.4367 | 0.4232 |
| 97.5  | 0.3070 | 0.3113 | 0.4848 | 0.5229 | 0.2899 | 0.4694 | 0.4360 | 0.4282 | 0.4194 | 0.4061 |
| 100.0 | 0.3354 | 0.3371 | 0.4488 | 0.4746 | 0.3178 | 0.4374 | 0.4147 | 0.4089 | 0.4020 | 0.3890 |
| 102.5 | 0.3627 | 0.3626 | 0.4122 | 0.4260 | 0.3456 | 0.4053 | 0.3933 | 0.3894 | 0.3847 | 0.3720 |
| 105.0 | 0.3977 | 0.3939 | 0.3835 | 0.3795 | 0.3735 | 0.3748 | 0.3790 | 0.3862 | 0.3966 | 0.4082 |
| 107.5 | 0.4499 | 0.4512 | 0.4450 | 0.4403 | 0.4357 | 0.4381 | 0.4429 | 0.4511 | 0.4630 | 0.4691 |
| 110.0 | 0.5035 | 0.5090 | 0.5064 | 0.5012 | 0.4980 | 0.5013 | 0.5067 | 0.5158 | 0.5291 | 0.5389 |
| 112.5 | 0.5575 | 0.5672 | 0.5678 | 0.5621 | 0.5602 | 0.5645 | 0.5704 | 0.5805 | 0.5950 | 0.6086 |
| 115.0 | 0.6119 | 0.6255 | 0.6291 | 0.6229 | 0.6224 | 0.6277 | 0.6341 | 0.6449 | 0.6607 | 0.6759 |
| 117.5 | 0.6655 | 0.6843 | 0.6903 | 0.6837 | 0.6847 | 0.6908 | 0.6977 | 0.7093 | 0.7260 | 0.7437 |
| 120.0 | 0.7267 | 0.7460 | 0.7520 | 0.7447 | 0.7469 | 0.7539 | 0.7610 | 0.7705 | 0.7835 | 0.7984 |
| 122.5 | 0.7957 | 0.8144 | 0.8162 | 0.8080 | 0.8092 | 0.8155 | 0.8229 | 0.8270 | 0.8365 | 0.8505 |
| 125.0 | 0.8663 | 0.8814 | 0.8804 | 0.8710 | 0.8714 | 0.8771 | 0.8847 | 0.8851 | 0.8890 | 0.9017 |
| 127.5 | 0.9354 | 0.9463 | 0.9445 | 0.9340 | 0.9337 | 0.9386 | 0.9464 | 0.9450 | 0.9413 | 0.9516 |
| 130.0 | 1.004  | 1.011  | 1.009  | 0.9971 | 0.9959 | 1.000  | 1.008  | 1.007  | 0.9932 | 1.003  |
| 132.5 | 1.073  | 1.078  | 1.072  | 1.060  | 1.058  | 1.062  | 1.070  | 1.071  | 1.050  | 1.056  |
| 135.0 | 1.125  | 1.131  | 1.133  | 1.123  | 1.120  | 1.123  | 1.129  | 1.130  | 1.111  | 1.113  |
| 137.5 | 1.164  | 1.169  | 1.178  | 1.171  | 1.169  | 1.173  | 1.179  | 1.185  | 1.166  | 1.168  |
| 140.0 | 1.203  | 1.211  | 1.225  | 1.219  | 1.217  | 1.222  | 1.229  | 1.237  | 1.223  | 1.222  |
| 142.5 | 1.242  | 1.253  | 1.275  | 1.267  | 1.265  | 1.272  | 1.278  | 1.288  | 1.284  | 1.279  |
| 145.0 | 1.284  | 1.296  | 1.324  | 1.315  | 1.313  | 1.321  | 1.328  | 1.340  | 1.340  | 1.336  |
| 147.5 | 1.325  | 1.342  | 1.372  | 1.364  | 1.362  | 1.370  | 1.377  | 1.391  | 1.394  | 1.391  |
| 150.0 | 1.369  | 1.392  | 1.418  | 1.411  | 1.410  | 1.418  | 1.423  | 1.430  | 1.431  | 1.428  |
| 152.5 | 1.412  | 1.434  | 1.444  | 1.439  | 1.438  | 1.443  | 1.449  | 1.452  | 1.458  | 1.459  |
| 155.0 | 1.454  | 1.471  | 1.470  | 1.467  | 1.466  | 1.469  | 1.475  | 1.476  | 1.484  | 1.487  |
| 157.5 | 1.495  | 1.502  | 1.497  | 1.495  | 1.494  | 1.495  | 1.499  | 1.501  | 1.507  | 1.513  |
| 160.0 | 1.531  | 1.530  | 1.525  | 1.523  | 1.522  | 1.521  | 1.524  | 1.525  | 1.530  | 1.537  |
| 162.5 | 1.561  | 1.556  | 1.553  | 1.551  | 1.550  | 1.547  | 1.550  | 1.550  | 1.554  | 1.559  |
| 165.0 | 1.580  | 1.580  | 1.579  | 1.578  | 1.578  | 1.573  | 1.574  | 1.572  | 1.573  | 1.575  |
| 167.5 | 1.589  | 1.589  | 1.590  | 1.589  | 1.589  | 1.585  | 1.586  | 1.586  | 1.585  | 1.587  |
| 170.0 | 1.599  | 1.600  | 1.601  | 1.600  | 1.600  | 1.597  | 1.597  | 1.598  | 1.598  | 1.598  |
| 172.5 | 1.611  | 1.614  | 1.612  | 1.611  | 1.611  | 1.609  | 1.609  | 1.609  | 1.610  | 1.611  |
| 175.0 | 1.625  | 1.623  | 1.622  | 1.622  | 1.621  | 1.621  | 1.620  | 1.621  | 1.621  | 1.622  |
| 177.5 | 1.633  | 1.633  | 1.633  | 1.632  | 1.632  | 1.632  | 1.632  | 1.632  | 1.632  | 1.633  |
| 180.0 | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:

## Photometric Data Table [cd]

| G/C   | 300.0  | 305.0  | 310.0  | 315.0  | 320.0  | 325.0  | 330.0  | 335.0  | 340.0  | 345.0  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0   | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  | 664.6  |
| 2.5   | 659.8  | 659.9  | 660.0  | 660.2  | 660.4  | 660.7  | 660.9  | 661.2  | 661.5  | 661.8  |
| 5.0   | 654.6  | 654.7  | 654.8  | 655.0  | 655.3  | 655.6  | 656.0  | 656.5  | 657.0  | 657.6  |
| 7.5   | 649.0  | 649.0  | 649.0  | 649.1  | 649.3  | 649.6  | 649.9  | 650.5  | 651.1  | 651.9  |
| 10.0  | 643.2  | 642.9  | 642.6  | 642.5  | 642.4  | 642.4  | 642.6  | 643.0  | 643.5  | 644.3  |
| 12.5  | 636.9  | 636.2  | 635.5  | 634.9  | 634.4  | 634.0  | 633.9  | 634.1  | 634.5  | 635.3  |
| 15.0  | 630.3  | 629.0  | 627.7  | 626.5  | 625.5  | 624.7  | 624.2  | 624.0  | 624.2  | 624.9  |
| 17.5  | 622.3  | 621.4  | 619.4  | 617.5  | 615.8  | 614.4  | 613.5  | 612.8  | 612.7  | 613.2  |
| 20.0  | 607.3  | 607.7  | 608.6  | 607.9  | 605.6  | 603.4  | 601.7  | 600.5  | 599.8  | 600.0  |
| 22.5  | 591.9  | 592.0  | 592.4  | 593.4  | 594.5  | 591.5  | 588.9  | 587.1  | 586.0  | 585.8  |
| 25.0  | 576.4  | 575.9  | 575.9  | 576.3  | 577.1  | 578.9  | 575.4  | 572.8  | 571.1  | 570.5  |
| 27.5  | 560.6  | 559.7  | 559.0  | 558.6  | 559.1  | 560.3  | 561.1  | 557.8  | 555.3  | 554.1  |
| 30.0  | 544.8  | 543.2  | 541.7  | 540.8  | 540.5  | 541.2  | 542.9  | 541.8  | 538.6  | 536.7  |
| 32.5  | 528.8  | 526.5  | 524.3  | 522.7  | 521.7  | 521.6  | 522.6  | 524.9  | 521.1  | 518.5  |
| 35.0  | 509.7  | 509.7  | 506.8  | 504.4  | 502.6  | 501.6  | 501.9  | 503.7  | 502.9  | 499.6  |
| 37.5  | 487.8  | 487.6  | 488.2  | 485.9  | 483.1  | 481.3  | 480.8  | 481.9  | 484.0  | 479.8  |
| 40.0  | 465.8  | 465.2  | 465.1  | 465.7  | 463.5  | 460.8  | 459.4  | 459.6  | 461.7  | 459.3  |
| 42.5  | 444.0  | 442.9  | 442.1  | 441.9  | 442.8  | 440.1  | 437.7  | 436.8  | 438.3  | 438.3  |
| 45.0  | 422.2  | 420.6  | 419.1  | 418.2  | 418.4  | 419.3  | 415.6  | 413.9  | 414.4  | 410.6  |
| 47.5  | 400.5  | 398.2  | 396.1  | 394.6  | 393.9  | 394.3  | 393.7  | 390.7  | 390.1  | 392.7  |
| 50.0  | 377.2  | 376.2  | 373.3  | 371.1  | 369.5  | 369.1  | 370.1  | 367.3  | 365.6  | 367.2  |
| 52.5  | 351.2  | 350.8  | 350.7  | 347.9  | 345.2  | 343.8  | 343.4  | 343.9  | 340.8  | 341.3  |
| 55.0  | 325.2  | 324.4  | 323.8  | 324.2  | 321.4  | 318.8  | 317.0  | 318.4  | 315.9  | 315.2  |
| 57.5  | 299.3  | 298.0  | 297.1  | 296.7  | 297.1  | 292.8  | 290.8  | 291.0  | 291.1  | 289.0  |
| 60.0  | 273.6  | 272.0  | 270.6  | 269.6  | 269.4  | 267.9  | 265.0  | 263.8  | 265.4  | 262.4  |
| 62.5  | 248.0  | 246.1  | 244.4  | 242.9  | 241.5  | 240.3  | 239.6  | 237.3  | 237.3  | 236.0  |
| 65.0  | 221.4  | 220.2  | 218.3  | 216.4  | 214.3  | 213.0  | 212.5  | 211.2  | 209.7  | 210.5  |
| 67.5  | 194.4  | 193.1  | 191.8  | 190.3  | 188.1  | 185.9  | 184.9  | 185.3  | 183.0  | 183.2  |
| 70.0  | 167.6  | 166.2  | 165.0  | 163.6  | 162.4  | 159.3  | 158.0  | 157.6  | 157.2  | 155.6  |
| 72.5  | 140.8  | 139.6  | 138.5  | 137.2  | 135.8  | 133.5  | 132.0  | 130.9  | 130.8  | 129.2  |
| 75.0  | 114.3  | 113.3  | 112.3  | 111.3  | 110.1  | 108.2  | 106.8  | 105.2  | 104.5  | 104.3  |
| 77.5  | 89.72  | 87.15  | 86.42  | 85.69  | 84.87  | 83.70  | 82.55  | 81.10  | 79.73  | 79.34  |
| 80.0  | 71.67  | 69.21  | 66.34  | 63.07  | 60.20  | 59.82  | 59.23  | 58.33  | 56.93  | 55.88  |
| 82.5  | 53.75  | 51.85  | 49.63  | 47.10  | 44.22  | 40.97  | 37.17  | 36.69  | 36.20  | 35.07  |
| 85.0  | 35.93  | 34.63  | 33.11  | 31.39  | 29.40  | 27.15  | 24.52  | 21.42  | 17.66  | 16.93  |
| 87.5  | 18.17  | 17.51  | 16.73  | 15.85  | 14.83  | 13.67  | 12.31  | 10.70  | 8.728  | 6.140  |
| 90.0  | 0.4482 | 0.4295 | 0.4202 | 0.4015 | 0.3782 | 0.3549 | 0.3408 | 0.3221 | 0.3034 | 0.2755 |
| 92.5  | 0.4257 | 0.4058 | 0.3938 | 0.3775 | 0.3506 | 0.3216 | 0.3054 | 0.2872 | 0.2691 | 0.2493 |
| 95.0  | 0.4035 | 0.3826 | 0.3674 | 0.3537 | 0.3232 | 0.2894 | 0.2703 | 0.2530 | 0.2363 | 0.2426 |
| 97.5  | 0.3817 | 0.3604 | 0.3412 | 0.3299 | 0.2959 | 0.2579 | 0.2353 | 0.2542 | 0.2679 | 0.2714 |
| 100.0 | 0.3604 | 0.3395 | 0.3153 | 0.3059 | 0.2766 | 0.2754 | 0.2898 | 0.3025 | 0.3091 | 0.2926 |
| 102.5 | 0.3399 | 0.3248 | 0.3237 | 0.3443 | 0.3435 | 0.3399 | 0.3522 | 0.3541 | 0.3509 | 0.3380 |
| 105.0 | 0.3921 | 0.3935 | 0.3937 | 0.4095 | 0.4133 | 0.4076 | 0.4192 | 0.4141 | 0.3995 | 0.3768 |
| 107.5 | 0.4655 | 0.4639 | 0.4649 | 0.4764 | 0.4806 | 0.4771 | 0.4759 | 0.4570 | 0.4398 | 0.4432 |
| 110.0 | 0.5367 | 0.5381 | 0.5361 | 0.5453 | 0.5511 | 0.5397 | 0.5288 | 0.5066 | 0.5033 | 0.5233 |
| 112.5 | 0.6071 | 0.6111 | 0.6088 | 0.6152 | 0.6101 | 0.6094 | 0.5834 | 0.5785 | 0.5746 | 0.5913 |
| 115.0 | 0.6783 | 0.6811 | 0.6753 | 0.6793 | 0.6646 | 0.6721 | 0.6448 | 0.6309 | 0.6412 | 0.6584 |
| 117.5 | 0.7429 | 0.7420 | 0.7300 | 0.7298 | 0.7267 | 0.7185 | 0.7012 | 0.7071 | 0.7197 | 0.7080 |
| 120.0 | 0.7930 | 0.7999 | 0.7837 | 0.7860 | 0.7782 | 0.7704 | 0.8040 | 0.7814 | 0.7933 | 0.7692 |
| 122.5 | 0.8413 | 0.8542 | 0.8477 | 0.8399 | 0.8261 | 0.8448 | 0.8471 | 0.8513 | 0.8506 | 0.8236 |
| 125.0 | 0.8978 | 0.9028 | 0.9277 | 0.8900 | 0.9068 | 0.9068 | 0.9110 | 0.9257 | 0.9074 | 0.8793 |
| 127.5 | 0.9587 | 0.9518 | 0.9857 | 0.9500 | 0.9649 | 0.9652 | 0.9812 | 0.9825 | 0.9570 | 0.9484 |
| 130.0 | 1.021  | 1.003  | 1.029  | 1.022  | 1.021  | 1.033  | 1.046  | 1.034  | 1.017  | 1.004  |
| 132.5 | 1.075  | 1.059  | 1.076  | 1.095  | 1.081  | 1.098  | 1.099  | 1.078  | 1.068  | 1.052  |
| 135.0 | 1.124  | 1.124  | 1.130  | 1.146  | 1.149  | 1.158  | 1.140  | 1.131  | 1.111  | 1.121  |
| 137.5 | 1.177  | 1.188  | 1.192  | 1.199  | 1.211  | 1.198  | 1.195  | 1.172  | 1.168  | 1.160  |
| 140.0 | 1.232  | 1.245  | 1.247  | 1.261  | 1.250  | 1.235  | 1.226  | 1.238  | 1.234  | 1.211  |
| 142.5 | 1.286  | 1.302  | 1.308  | 1.307  | 1.288  | 1.275  | 1.267  | 1.261  | 1.276  | 1.293  |
| 145.0 | 1.341  | 1.354  | 1.345  | 1.332  | 1.337  | 1.313  | 1.305  | 1.306  | 1.304  | 1.312  |
| 147.5 | 1.386  | 1.379  | 1.382  | 1.367  | 1.360  | 1.369  | 1.354  | 1.342  | 1.349  | 1.359  |
| 150.0 | 1.415  | 1.407  | 1.408  | 1.409  | 1.394  | 1.392  | 1.401  | 1.412  | 1.392  | 1.399  |
| 152.5 | 1.451  | 1.437  | 1.433  | 1.439  | 1.440  | 1.427  | 1.427  | 1.434  | 1.446  | 1.454  |
| 155.0 | 1.490  | 1.474  | 1.464  | 1.462  | 1.470  | 1.476  | 1.472  | 1.472  | 1.481  | 1.493  |
| 157.5 | 1.518  | 1.520  | 1.501  | 1.493  | 1.494  | 1.498  | 1.510  | 1.520  | 1.527  | 1.534  |
| 160.0 | 1.543  | 1.551  | 1.555  | 1.535  | 1.521  | 1.525  | 1.528  | 1.535  | 1.548  | 1.563  |
| 162.5 | 1.566  | 1.571  | 1.576  | 1.578  | 1.571  | 1.559  | 1.554  | 1.560  | 1.567  | 1.575  |
| 165.0 | 1.578  | 1.582  | 1.585  | 1.590  | 1.595  | 1.598  | 1.601  | 1.597  | 1.597  | 1.601  |
| 167.5 | 1.589  | 1.592  | 1.595  | 1.599  | 1.603  | 1.607  | 1.612  | 1.617  | 1.622  | 1.627  |
| 170.0 | 1.600  | 1.602  | 1.605  | 1.608  | 1.611  | 1.614  | 1.618  | 1.622  | 1.626  | 1.630  |
| 172.5 | 1.611  | 1.613  | 1.615  | 1.617  | 1.619  | 1.622  | 1.624  | 1.627  | 1.630  | 1.634  |
| 175.0 | 1.623  | 1.624  | 1.625  | 1.626  | 1.627  | 1.629  | 1.631  | 1.633  | 1.635  | 1.637  |
| 177.5 | 1.633  | 1.634  | 1.634  | 1.635  | 1.636  | 1.637  | 1.637  | 1.638  | 1.639  | 1.640  |
| 180.0 | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  | 1.643  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks:

## Photometric Data Table [cd]

|       |        |        |
|-------|--------|--------|
| G/C   | 350.0  | 355.0  |
| 0.0   | 664.6  | 664.6  |
| 2.5   | 662.2  | 662.6  |
| 5.0   | 658.3  | 659.0  |
| 7.5   | 652.8  | 653.8  |
| 10.0  | 645.4  | 646.7  |
| 12.5  | 636.4  | 637.9  |
| 15.0  | 626.1  | 627.7  |
| 17.5  | 614.2  | 615.9  |
| 20.0  | 600.9  | 602.7  |
| 22.5  | 586.5  | 588.3  |
| 25.0  | 570.9  | 572.7  |
| 27.5  | 554.2  | 555.8  |
| 30.0  | 536.4  | 538.0  |
| 32.5  | 517.8  | 519.1  |
| 35.0  | 498.2  | 499.2  |
| 37.5  | 477.8  | 478.5  |
| 40.0  | 456.7  | 456.9  |
| 42.5  | 434.9  | 434.7  |
| 45.0  | 412.3  | 411.6  |
| 47.5  | 389.2  | 387.9  |
| 50.0  | 365.5  | 363.6  |
| 52.5  | 341.4  | 338.8  |
| 55.0  | 317.2  | 313.4  |
| 57.5  | 291.7  | 287.1  |
| 60.0  | 262.6  | 260.4  |
| 62.5  | 235.3  | 234.1  |
| 65.0  | 208.1  | 207.5  |
| 67.5  | 181.1  | 181.1  |
| 70.0  | 154.6  | 155.0  |
| 72.5  | 128.4  | 129.0  |
| 75.0  | 102.6  | 102.5  |
| 77.5  | 77.98  | 77.38  |
| 80.0  | 55.87  | 54.25  |
| 82.5  | 34.33  | 33.35  |
| 85.0  | 16.15  | 15.83  |
| 87.5  | 2.477  | 2.271  |
| 90.0  | 0.2568 | 0.2381 |
| 92.5  | 0.2348 | 0.2248 |
| 95.0  | 0.2452 | 0.2242 |
| 97.5  | 0.2476 | 0.2529 |
| 100.0 | 0.2634 | 0.2849 |
| 102.5 | 0.3307 | 0.3145 |
| 105.0 | 0.3985 | 0.3638 |
| 107.5 | 0.4666 | 0.4075 |
| 110.0 | 0.5074 | 0.4713 |
| 112.5 | 0.5697 | 0.5352 |
| 115.0 | 0.6291 | 0.6128 |
| 117.5 | 0.6827 | 0.6797 |
| 120.0 | 0.7359 | 0.7507 |
| 122.5 | 0.8091 | 0.8258 |
| 125.0 | 0.8746 | 0.8888 |
| 127.5 | 0.9348 | 0.9520 |
| 130.0 | 0.9898 | 1.016  |
| 132.5 | 1.075  | 1.084  |
| 135.0 | 1.120  | 1.133  |
| 137.5 | 1.170  | 1.192  |
| 140.0 | 1.228  | 1.247  |
| 142.5 | 1.292  | 1.296  |
| 145.0 | 1.328  | 1.347  |
| 147.5 | 1.370  | 1.386  |
| 150.0 | 1.413  | 1.430  |
| 152.5 | 1.459  | 1.469  |
| 155.0 | 1.503  | 1.515  |
| 157.5 | 1.546  | 1.562  |
| 160.0 | 1.578  | 1.594  |
| 162.5 | 1.585  | 1.596  |
| 165.0 | 1.607  | 1.615  |
| 167.5 | 1.632  | 1.637  |
| 170.0 | 1.635  | 1.639  |
| 172.5 | 1.637  | 1.640  |
| 175.0 | 1.639  | 1.641  |
| 177.5 | 1.641  | 1.642  |
| 180.0 | 1.643  | 1.643  |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-01-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE G0-2000B\_V1 SYSTEM V2.0.291  
Humidity: 65.0%  
Test Distance: 8.190m [K=1.0000]  
Remarks: