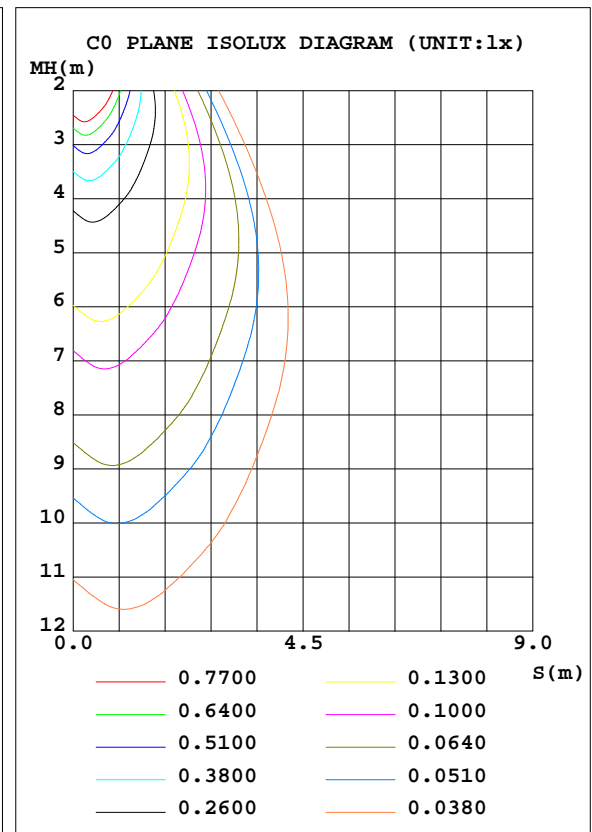
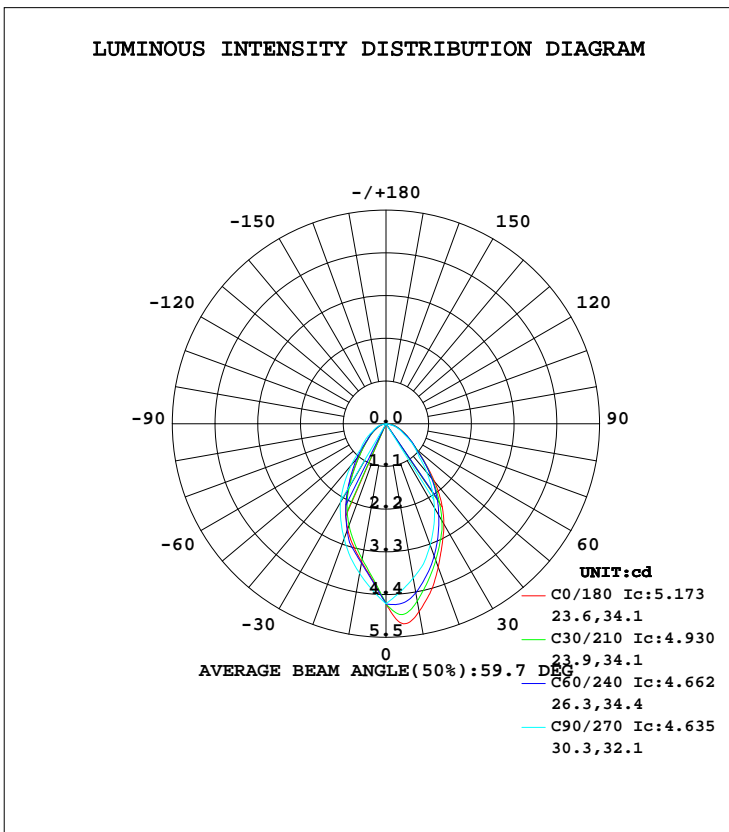


**LUMINAIRE PHOTOMETRIC TEST REPORT**

|   |                   |                   |
|---|-------------------|-------------------|
| Test:U:11.96V I:0.1346A P:0.8899W PF:0.5528 Lamp Flux:1000x1 lm |                   |                   |
| NAME: 489872-3000K  | TYPE:489872-3000K | WEIGHT:           |
| SPEC.:  | DIM.:             | SERIAL No.:       |
| MFR.:   | SUR.:             | PROTECTION ANGLE: |

| DATA OF LAMP     |              | PHOTOMETRIC DATA Eff: 66.82 lm/W |        |                    |         |
|------------------|--------------|----------------------------------|--------|--------------------|---------|
| MODEL            | 489872-3000K | Imax(cd)                         | 5.173  | S/MH(C0/180)       | 0.76    |
| NOMINAL POWER(W) | 1            | LOR(%)                           | 5.9    | S/MH(C90/270)      | 0.83    |
| RATED VOLTAGE(V) | 12           | TOTAL FLUX(lm)                   | 5.9464 | η UP, DN(C0-180)   | 0.0,3.1 |
| NOMINAL FLUX(lm) | 100          | CIE CLASS                        | DIRECT | η UP, DN(C180-360) | 0.0,2.8 |
| LAMPS INSIDE     | 1            | η up(%)                          | 0.0    | CIBSE SHR NOM      | 0.75    |
| TEST VOLTAGE(V)  | 220          | η down(%)                        | 5.9    | CIBSE SHR MAX      | 0.95    |



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: LOW  
 Temperature:20DEG  
 Operators:G  
 Test Date:2023-01-10

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

| γ   | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | γ       | Φ zone | Φ total | lum, lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|-----------|
| 5   | 5.170                 | 4.797  | 4.336  | 4.037  | 4.032  | 4.003  | 4.274  | 4.748  | 0- 5    | 0.1074 | 0.1074  | 1.81,0.11 |
| 10  | 4.911                 | 4.540  | 4.037  | 3.626  | 3.616  | 3.572  | 3.913  | 4.438  | 5- 10   | 0.3025 | 0.4100  | 6.89,0.41 |
| 15  | 4.465                 | 4.123  | 3.738  | 3.299  | 3.254  | 3.219  | 3.552  | 3.975  | 10- 15  | 0.4580 | 0.8680  | 14.6,0.87 |
| 20  | 3.936                 | 3.724  | 3.326  | 3.005  | 2.887  | 2.885  | 3.152  | 3.549  | 15- 20  | 0.5726 | 1.441   | 24.2,1.44 |
| 25  | 3.426                 | 3.260  | 2.914  | 2.585  | 2.455  | 2.405  | 2.751  | 3.123  | 20- 25  | 0.6410 | 2.082   | 35,2.08   |
| 30  | 2.981                 | 2.788  | 2.502  | 2.132  | 1.949  | 1.909  | 2.351  | 2.670  | 25- 30  | 0.6629 | 2.745   | 46.2,2.74 |
| 35  | 2.493                 | 2.324  | 2.070  | 1.676  | 1.448  | 1.447  | 1.874  | 2.185  | 30- 35  | 0.6375 | 3.382   | 56.9,3.38 |
| 40  | 1.946                 | 1.863  | 1.638  | 1.266  | 1.055  | 1.064  | 1.396  | 1.687  | 35- 40  | 0.5693 | 3.951   | 66.4,3.95 |
| 45  | 1.426                 | 1.438  | 1.207  | 0.9694 | 0.7863 | 0.8110 | 0.9190 | 1.259  | 40- 45  | 0.4761 | 4.427   | 74.5,4.43 |
| 50  | 1.044                 | 1.079  | 0.9828 | 0.7371 | 0.5981 | 0.6136 | 0.7468 | 0.9112 | 45- 50  | 0.3837 | 4.811   | 80.9,4.81 |
| 55  | 0.7955                | 0.7910 | 0.7589 | 0.5535 | 0.4566 | 0.4577 | 0.5746 | 0.6419 | 50- 55  | 0.3145 | 5.126   | 86.2,5.13 |
| 60  | 0.6232                | 0.6191 | 0.5349 | 0.4223 | 0.3428 | 0.3574 | 0.4024 | 0.5057 | 55- 60  | 0.2544 | 5.380   | 90.5,5.38 |
| 65  | 0.4832                | 0.4647 | 0.4206 | 0.3082 | 0.2515 | 0.2679 | 0.3204 | 0.3853 | 60- 65  | 0.2005 | 5.580   | 93.8,5.58 |
| 70  | 0.3615                | 0.3420 | 0.3062 | 0.2176 | 0.1784 | 0.1932 | 0.2383 | 0.2829 | 65- 70  | 0.1569 | 5.737   | 96.5,5.74 |
| 75  | 0.2600                | 0.2475 | 0.1919 | 0.1447 | 0.1173 | 0.1310 | 0.1562 | 0.2093 | 70- 75  | 0.1161 | 5.853   | 98.4,5.85 |
| 80  | 0.1756                | 0.1367 | 0      | 0.0695 | 0.0587 | 0.0642 | 0      | 0.1178 | 75- 80  | 0.0696 | 5.923   | 99.6,5.92 |
| 85  | 0.1084                | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 80- 85  | 0.0209 | 5.944   | 100,5.94  |
| 90  | 0                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 85- 90  | 0.0025 | 5.946   | 100,5.95  |
| 95  |                       |        |        |        |        |        |        |        | 90- 95  |        |         |           |
| 100 |                       |        |        |        |        |        |        |        | 95-100  |        |         |           |
| 105 |                       |        |        |        |        |        |        |        | 100-105 |        |         |           |
| 110 |                       |        |        |        |        |        |        |        | 105-110 |        |         |           |
| 115 |                       |        |        |        |        |        |        |        | 110-115 |        |         |           |
| 120 |                       |        |        |        |        |        |        |        | 115-120 |        |         |           |
| 125 |                       |        |        |        |        |        |        |        | 120-125 |        |         |           |
| 130 |                       |        |        |        |        |        |        |        | 125-130 |        |         |           |
| 135 |                       |        |        |        |        |        |        |        | 130-135 |        |         |           |
| 140 |                       |        |        |        |        |        |        |        | 135-140 |        |         |           |
| 145 |                       |        |        |        |        |        |        |        | 140-145 |        |         |           |
| 150 |                       |        |        |        |        |        |        |        | 145-150 |        |         |           |
| 155 |                       |        |        |        |        |        |        |        | 150-155 |        |         |           |
| 160 |                       |        |        |        |        |        |        |        | 155-160 |        |         |           |
| 165 |                       |        |        |        |        |        |        |        | 160-165 |        |         |           |
| 170 |                       |        |        |        |        |        |        |        | 165-170 |        |         |           |
| 175 |                       |        |        |        |        |        |        |        | 170-175 |        |         |           |
| 180 |                       |        |        |        |        |        |        |        | 175-180 |        |         |           |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        | UNIT:lm |        |         |           |

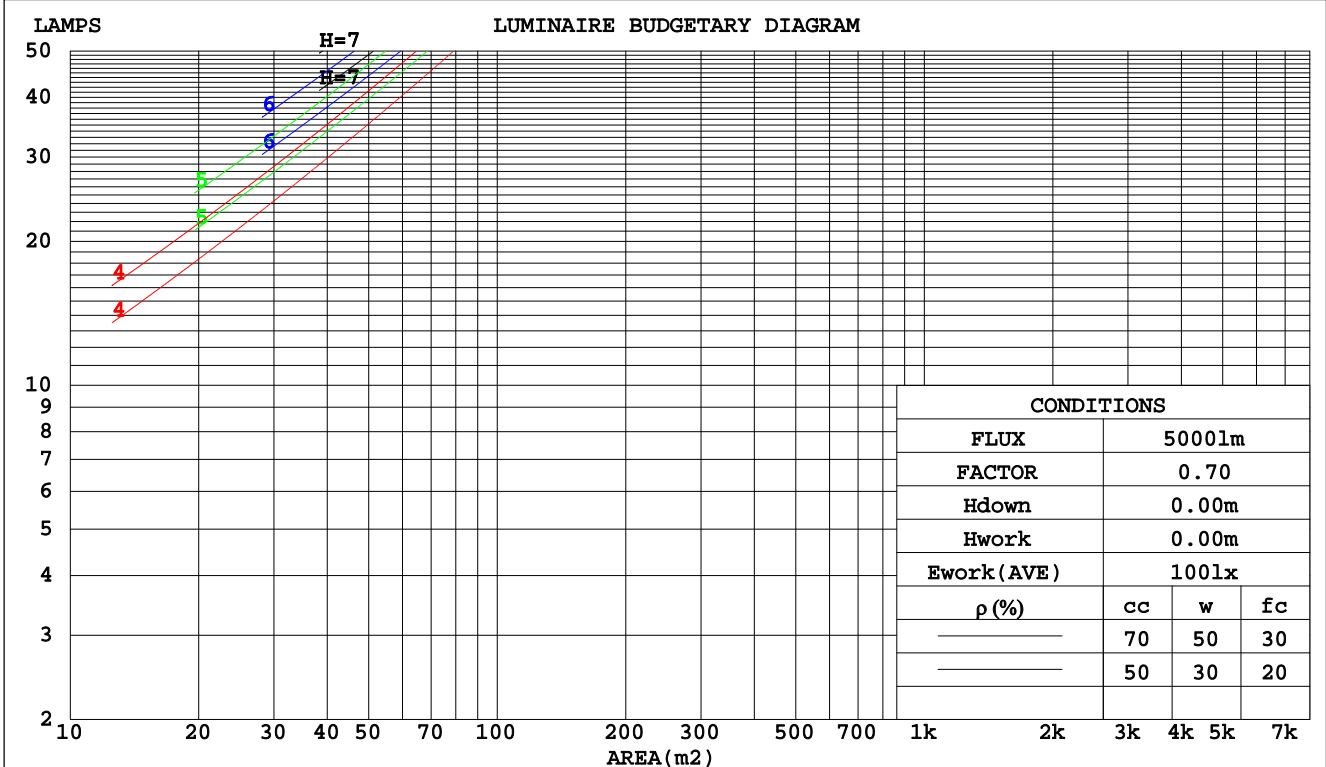
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: LOW  
Temperature:20DEG  
Operators:G  
Test Date:2023-01-10

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

|   |                   |                   |
|---|-------------------|-------------------|
| Test:U:11.96V I:0.1346A P:0.8899W PF:0.5528 Lamp Flux:1000x1 lm |                   |                   |
| NAME: 489872-3000K  | TYPE:489872-3000K | WEIGHT:           |
| SPEC.:  | DIM.:             | SERIAL No.:       |
| MFR.:   | SUR.:             | PROTECTION ANGLE: |

| pcc  | 80%                             |     |     | 70% |     |     | 50% |     |     | 30% |     |     | 10% |     |     | 0   |
|------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| pw   | 50%                             | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| pfc  | 20%                             |     |     | 20% |     |     | 20% |     |     | 20% |     |     | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|      | Coefficients of Utilization(CU) |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0.0  | .07                             | .07 | .07 | .07 | .07 | .07 | .07 | .07 | .07 | .06 | .06 | .06 | .06 | .06 | .06 | .06 |
| 1.0  | .06                             | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .05 | .05 | .05 |
| 2.0  | .06                             | .05 | .05 | .06 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 |
| 3.0  | .05                             | .05 | .05 | .05 | .05 | .04 | .05 | .05 | .04 | .05 | .05 | .04 | .05 | .04 | .04 | .04 |
| 4.0  | .05                             | .04 | .04 | .05 | .04 | .04 | .05 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 |
| 5.0  | .04                             | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .04 | .03 | .04 | .04 | .03 | .03 |
| 6.0  | .04                             | .04 | .03 | .04 | .04 | .03 | .04 | .03 | .03 | .04 | .03 | .03 | .04 | .03 | .03 | .03 |
| 7.0  | .04                             | .03 | .03 | .04 | .03 | .03 | .04 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 |
| 8.0  | .03                             | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 |
| 9.0  | .03                             | .03 | .02 | .03 | .03 | .02 | .03 | .03 | .02 | .03 | .03 | .02 | .03 | .03 | .02 | .02 |
| 10.0 | .03                             | .03 | .02 | .03 | .03 | .02 | .03 | .03 | .02 | .03 | .03 | .02 | .03 | .02 | .02 | .02 |



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: LOW  
 Temperature:20DEG  
 Operators:G  
 Test Date:2023-01-10

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

|   |                   |                   |
|---|-------------------|-------------------|
| Test:U:11.96V I:0.1346A P:0.8899W PF:0.5528 Lamp Flux:1000x1 lm |                   |                   |
| NAME: 489872-3000K  | TYPE:489872-3000K | WEIGHT:           |
| SPEC.:  | DIM.:             | SERIAL No.:       |
| MFR.:   | SUR.:             | PROTECTION ANGLE: |

| ρcc  | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |
|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| ρw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| ρfc  | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |
| 0.0  |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |
| 1.0  | .014                  | .008 | .003 | .014 | .008 | .002 | .013                            | .007 | .002 | .012 | .007 | .002 | .012 | .007 | .002 |   |
| 2.0  | .014                  | .007 | .002 | .013 | .007 | .002 | .013                            | .007 | .002 | .012 | .007 | .002 | .011 | .006 | .002 |   |
| 3.0  | .013                  | .007 | .002 | .013 | .007 | .002 | .012                            | .007 | .002 | .011 | .006 | .002 | .011 | .006 | .002 |   |
| 4.0  | .012                  | .006 | .002 | .012 | .006 | .002 | .011                            | .006 | .002 | .011 | .006 | .002 | .010 | .006 | .002 |   |
| 5.0  | .011                  | .006 | .002 | .011 | .006 | .002 | .011                            | .006 | .002 | .010 | .005 | .002 | .010 | .005 | .002 |   |
| 6.0  | .011                  | .005 | .002 | .010 | .005 | .002 | .010                            | .005 | .002 | .010 | .005 | .001 | .009 | .005 | .001 |   |
| 7.0  | .010                  | .005 | .001 | .010 | .005 | .001 | .010                            | .005 | .001 | .009 | .005 | .001 | .009 | .005 | .001 |   |
| 8.0  | .009                  | .005 | .001 | .009 | .005 | .001 | .009                            | .005 | .001 | .009 | .004 | .001 | .008 | .004 | .001 |   |
| 9.0  | .009                  | .004 | .001 | .009 | .004 | .001 | .009                            | .004 | .001 | .008 | .004 | .001 | .008 | .004 | .001 |   |
| 10.0 | .009                  | .004 | .001 | .008 | .004 | .001 | .008                            | .004 | .001 | .008 | .004 | .001 | .008 | .004 | .001 |   |

| 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  | .011                  | .011 | .011 | .010 | .010 | .010 | .007                                       | .007 | .007 | .004 | .004 | .004 | .001 | .001 | .001 |   |
| 1.0  | .010                  | .009 | .008 | .009 | .008 | .007 | .006                                       | .006 | .005 | .004 | .003 | .003 | .001 | .001 | .001 |   |
| 2.0  | .010                  | .008 | .006 | .008 | .007 | .005 | .006                                       | .005 | .004 | .003 | .003 | .002 | .001 | .001 | .001 |   |
| 3.0  | .009                  | .007 | .005 | .008 | .006 | .004 | .005                                       | .004 | .003 | .003 | .002 | .002 | .001 | .001 | .001 |   |
| 4.0  | .009                  | .006 | .004 | .007 | .005 | .003 | .005                                       | .004 | .002 | .003 | .002 | .001 | .001 | .001 | .000 |   |
| 5.0  | .008                  | .005 | .003 | .007 | .005 | .003 | .005                                       | .003 | .002 | .003 | .002 | .001 | .001 | .001 | .000 |   |
| 6.0  | .008                  | .005 | .003 | .007 | .004 | .002 | .005                                       | .003 | .002 | .003 | .002 | .001 | .001 | .001 | .000 |   |
| 7.0  | .007                  | .004 | .002 | .006 | .004 | .002 | .004                                       | .003 | .001 | .003 | .002 | .001 | .001 | .001 | .000 |   |
| 8.0  | .007                  | .004 | .002 | .006 | .003 | .002 | .004                                       | .002 | .001 | .002 | .001 | .001 | .001 | .000 | .000 |   |
| 9.0  | .007                  | .004 | .002 | .006 | .003 | .001 | .004                                       | .002 | .001 | .002 | .001 | .001 | .001 | .000 | .000 |   |
| 10.0 | .006                  | .003 | .001 | .006 | .003 | .001 | .004                                       | .002 | .001 | .002 | .001 | .001 | .001 | .000 | .000 |   |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: LOW  
Temperature:20DEG  
Operators:G  
Test Date:2023-01-10

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

|   |                  |      |      |      |                   |                |      |                   |      |      |
|---|------------------|------|------|------|-------------------|----------------|------|-------------------|------|------|
| Test:U:11.96V I:0.1346A P:0.8899W PF:0.5528 Lamp Flux:1000x1 lm |                  |      |      |      |                   |                |      |                   |      |      |
| NAME: 489872-3000K  |                  |      |      |      | TYPE:489872-3000K |                |      | WEIGHT:           |      |      |
| SPEC.:  |                  |      |      |      | DIM.:             |                |      | SERIAL No.:       |      |      |
| MFR.:   |                  |      |      |      | SUR.:             |                |      | 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   | -4.7             | -3.5 | -4.5 | -3.3 | -3.1              | -5.0           | -3.8 | -4.8              | -3.6 | -3.4 |
| 3H  | -3.7             | -2.6 | -3.5 | -2.4 | -2.2              | -4.2           | -3.0 | -3.9              | -2.8 | -2.6 |
| 4H  | -3.3             | -2.2 | -3.0 | -2.0 | -1.7              | -3.9           | -2.8 | -3.6              | -2.6 | -2.3 |
| 6H  | -2.9             | -1.9 | -2.6 | -1.6 | -1.4              | -3.9           | -2.9 | -3.6              | -2.6 | -2.3 |
| 8H  | -2.7             | -1.7 | -2.4 | -1.5 | -1.2              | -3.9           | -3.0 | -3.6              | -2.7 | -2.4 |
| 12H   | -2.5             | -1.6 | -2.2 | -1.3 | -1.0              | -4.0           | -3.0 | -3.6              | -2.8 | -2.5 |
| 4H 2H   | -4.4             | -3.3 | -4.1 | -3.1 | -2.8              | -4.6           | -3.5 | -4.3              | -3.3 | -3.1 |
| 3H  | -3.2             | -2.3 | -2.9 | -2.0 | -1.7              | -3.6           | -2.6 | -3.2              | -2.4 | -2.1 |
| 4H  | -2.6             | -1.8 | -2.3 | -1.5 | -1.1              | -3.2           | -2.3 | -2.8              | -2.0 | -1.7 |
| 6H  | -2.1             | -1.3 | -1.7 | -1.0 | -0.6              | -3.1           | -2.4 | -2.7              | -2.0 | -1.7 |
| 8H  | -1.8             | -1.1 | -1.4 | -0.8 | -0.4              | -3.2           | -2.5 | -2.8              | -2.1 | -1.7 |
| 12H   | -1.6             | -0.9 | -1.2 | -0.5 | -0.1              | -3.2           | -2.6 | -2.8              | -2.2 | -1.8 |
| 8H 4H   | -2.4             | -1.7 | -2.0 | -1.4 | -1.0              | -2.9           | -2.2 | -2.5              | -1.9 | -1.5 |
| 6H  | -1.7             | -1.2 | -1.3 | -0.8 | -0.3              | -2.9           | -2.3 | -2.4              | -1.9 | -1.5 |
| 8H  | -1.4             | -0.9 | -0.9 | -0.4 | -0.0              | -2.9           | -2.4 | -2.4              | -2.0 | -1.5 |
| 12H   | -1.0             | -0.6 | -0.5 | -0.1 | 0.4               | -2.9           | -2.5 | -2.5              | -2.1 | -1.6 |
| 12H 4H  | -2.5             | -1.8 | -2.1 | -1.5 | -1.1              | -2.9           | -2.3 | -2.5              | -1.9 | -1.5 |
| 6H  | -1.8             | -1.2 | -1.3 | -0.8 | -0.4              | -2.8           | -2.3 | -2.4              | -1.9 | -1.4 |
| 8H  | -1.4             | -0.9 | -0.9 | -0.5 | -0.0              | -2.9           | -2.4 | -2.4              | -2.0 | -1.5 |
| Variations with the observer position at spacings:              |                  |      |      |      |                   |                |      |                   |      |      |
| S = 1.0H  | + 0.4 / - 0.5    |      |      |      |                   | + 0.5 / - 0.6  |      |                   |      |      |
| 1.5H  | + 0.3 / - 0.3    |      |      |      |                   | + 0.4 / - 0.5  |      |                   |      |      |
| 2.0H  | + 0.7 / - 0.5    |      |      |      |                   | + 0.7 / - 0.9  |      |                   |      |      |

CIE Pub.117 Corrected 100.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -8.0)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: LOW  
Temperature:20DEG  
Operators:G  
Test Date:2023-01-10

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

**UTILIZATION FACTORS TABLE**

|   |                   |                   |
|---|-------------------|-------------------|
| Test:U:11.96V I:0.1346A P:0.8899W PF:0.5528 Lamp Flux:1000x1 lm |                   |                   |
| NAME: 489872-3000K  | TYPE:489872-3000K | WEIGHT:           |
| SPEC.:  | DIM.:             | SERIAL No.:       |
| MFR.:   | SUR.:             | PROTECTION ANGLE: |

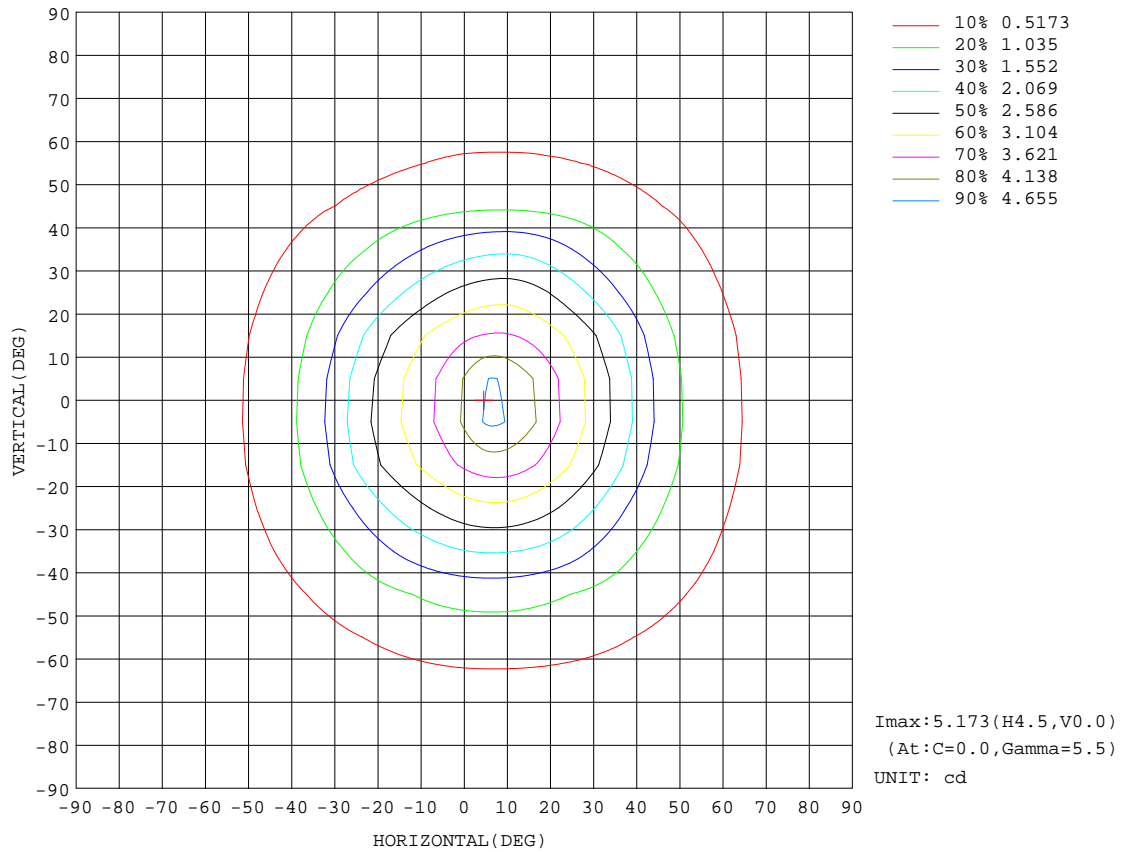
| REFLECTANCE                      |   |     |           |     |     |     |               |     |     |        |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling                          | 0.8   | 0.8 | 0.8       | 0.7 | 0.7 | 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                         | 4   | 4   | 3         | 4   | 4   | 3   | 4             | 4   | 3   | 3      |
| 0.80                             | 5   | 4   | 4         | 5   | 4   | 4   | 5             | 4   | 4   | 4      |
| 1.00                             | 5   | 5   | 4         | 5   | 5   | 4   | 5             | 5   | 4   | 4      |
| 1.25                             | 6   | 5   | 5         | 5   | 5   | 5   | 5             | 5   | 5   | 4      |
| 1.50                             | 6   | 5   | 5         | 6   | 5   | 5   | 6             | 5   | 5   | 5      |
| 2.00                             | 6   | 6   | 5         | 6   | 6   | 5   | 6             | 5   | 5   | 5      |
| 2.50                             | 6   | 6   | 6         | 6   | 6   | 6   | 6             | 6   | 5   | 5      |
| 3.00                             | 6   | 6   | 6         | 6   | 6   | 6   | 6             | 6   | 6   | 5      |
| 4.00                             | 7   | 6   | 6         | 6   | 6   | 6   | 6             | 6   | 6   | 5      |
| 5.00                             | 7   | 6   | 6         | 7   | 6   | 6   | 6             | 6   | 6   | 5      |
| 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: LOW  
Temperature:20DEG  
Operators:G  
Test Date:2023-01-10

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

|   |                   |                   |
|---|-------------------|-------------------|
| Test:U:11.96V I:0.1346A P:0.8899W PF:0.5528 Lamp Flux:1000x1 lm |                   |                   |
| NAME: 489872-3000K  | TYPE:489872-3000K | WEIGHT:           |
| SPEC.:  | DIM.:             | SERIAL No.:       |
| MFR.:   | SUR.:             | PROTECTION ANGLE: |

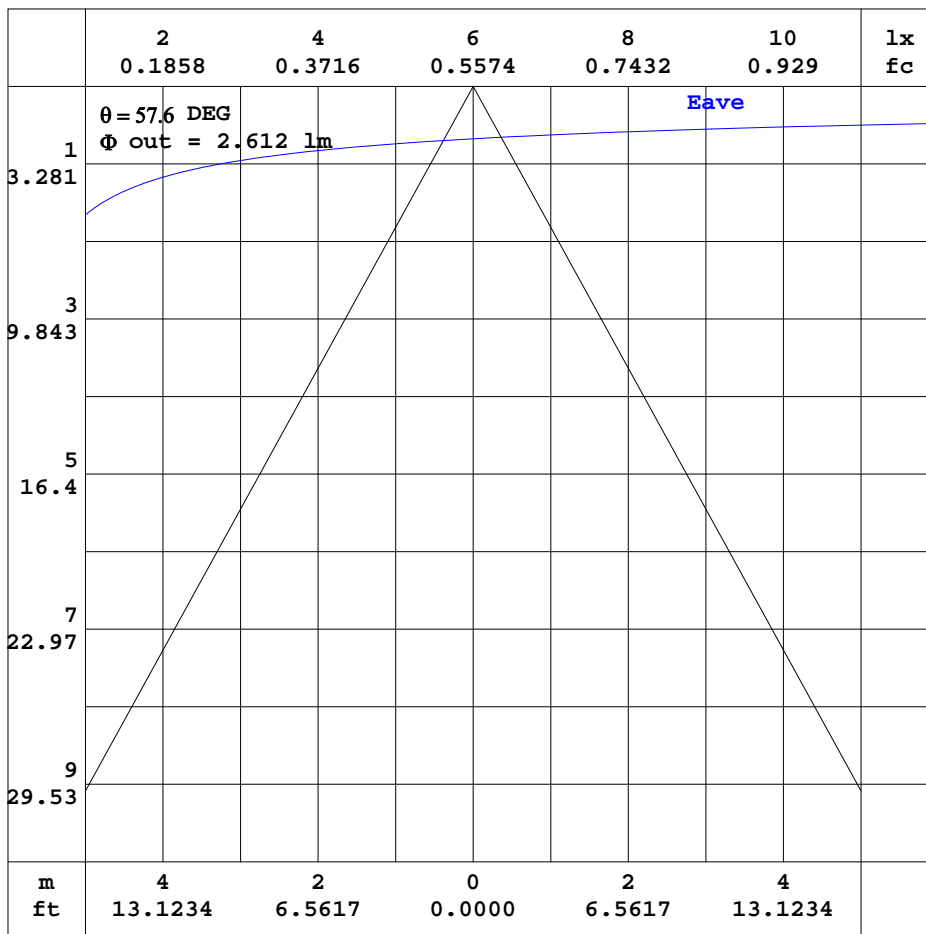


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: LOW  
 Temperature: 20DEG  
 Operators: G  
 Test Date: 2023-01-10

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 8.750m [K=1.0000]  
 Remarks:

**AAI CURVES**

|   |                   |                   |
|---|-------------------|-------------------|
| Test:U:11.96V I:0.1346A P:0.8899W PF:0.5528 Lamp Flux:1000x1 lm |                   |                   |
| NAME: 489872-3000K  | TYPE:489872-3000K | WEIGHT:           |
| SPEC.:  | DIM.:             | SERIAL No.:       |
| MFR.:   | SUR.:             | PROTECTION ANGLE: |



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

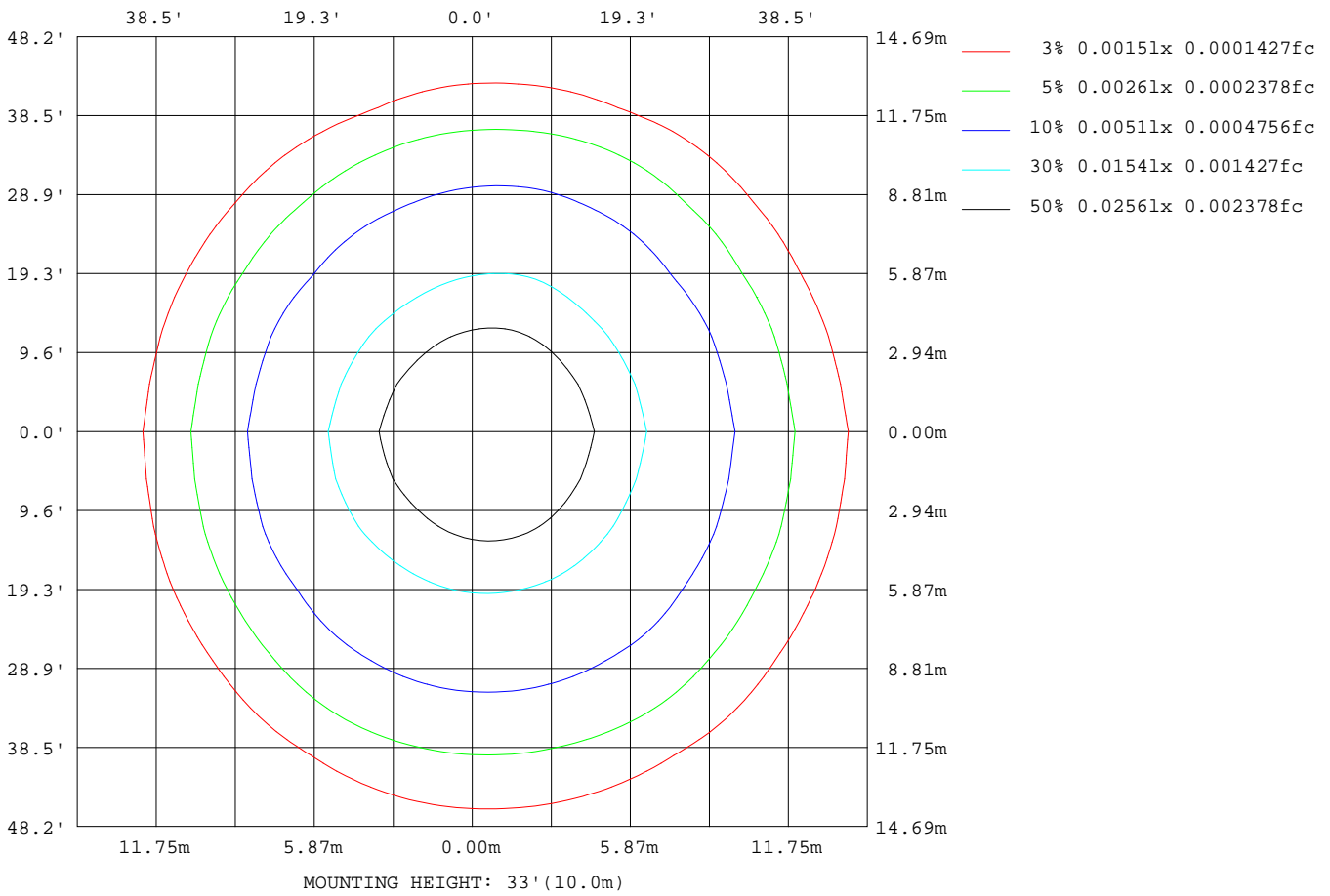
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: LOW  
 Temperature:20DEG  
 Operators:G  
 Test Date:2023-01-10

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:



**ISOLUX DIAGRAM**

|   |                   |                   |
|---|-------------------|-------------------|
| Test:U:11.96V I:0.1346A P:0.8899W PF:0.5528 Lamp Flux:1000x1 lm |                   |                   |
| NAME: 489872-3000K  | TYPE:489872-3000K | WEIGHT:           |
| SPEC.:  | DIM.:             | SERIAL No.:       |
| MFR.:   | SUR.:             | PROTECTION ANGLE: |



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: LOW  
Temperature:20DEG  
Operators:G  
Test Date:2023-01-10

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

**LED Avg.L Report**

|   |                   |                   |
|---|-------------------|-------------------|
| Test:U:11.96V I:0.1346A P:0.8899W PF:0.5528 Lamp Flux:1000x1 lm |                   |                   |
| NAME: 489872-3000K  | TYPE:489872-3000K | WEIGHT:           |
| SPEC.:  | DIM.:             | SERIAL No.:       |
| MFR.:   | SUR.:             | PROTECTION ANGLE: |

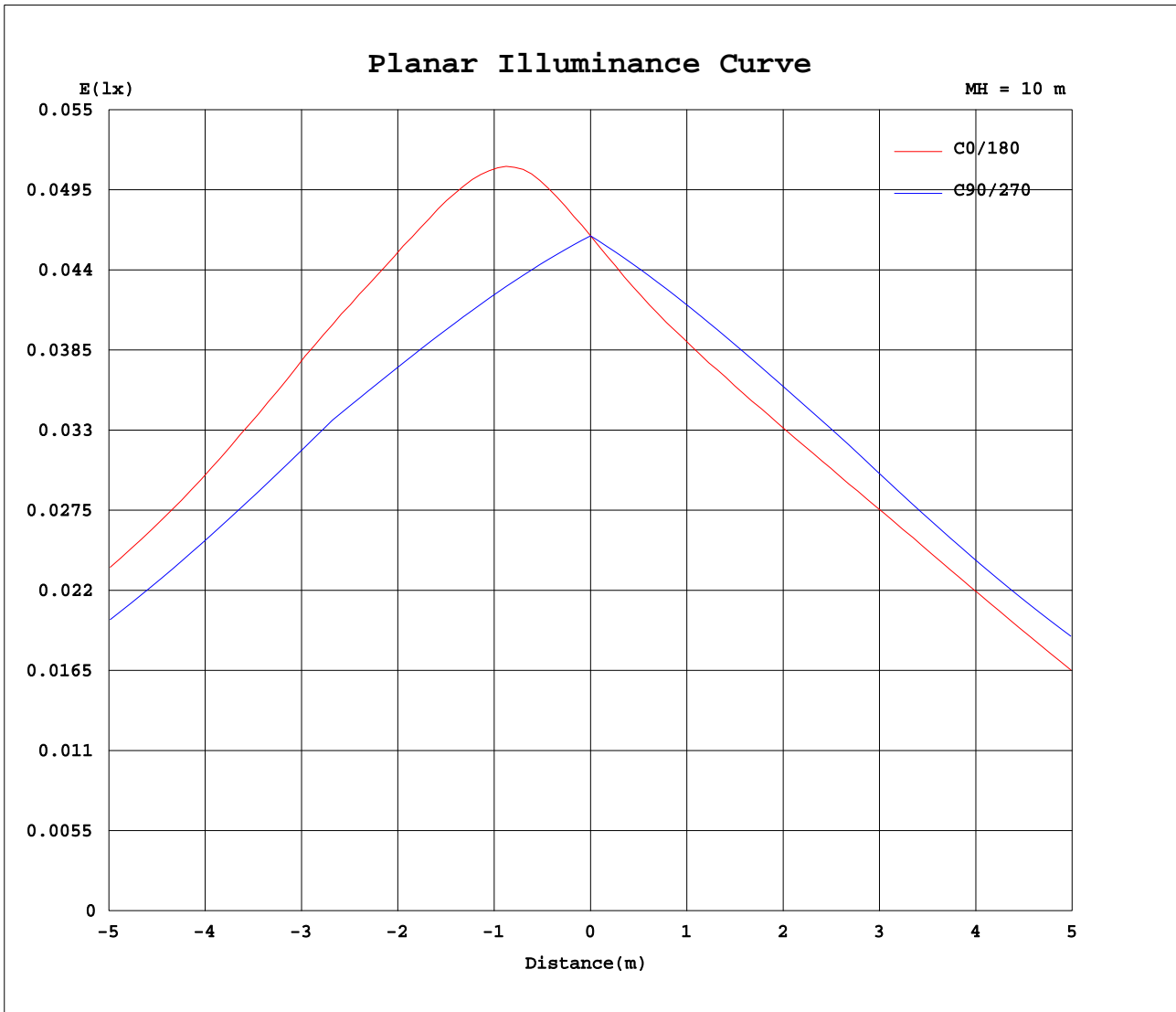
| AvgL           | cd/m2 |
|----------------|-------|
| L_0~180(65)av  | 4     |
| L_0~180(75)av  | 4     |
| L_0~180(85)av  | 3     |
| L_90~270(65)av | 4     |
| L_90~270(75)av | 3     |
| L_90~270(85)av | 0     |
| L_45(65)av     | 4     |
| L_45(75)av     | 4     |
| L_45(85)av     | 0     |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: LOW  
Temperature:20DEG  
Operators:G  
Test Date:2023-01-10

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: LOW  
 Temperature: 20DEG  
 Operators: G  
 Test Date: 2023-01-10

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
 Humidity: 65.0%  
 Test Distance: 8.750m [K=1.0000]  
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

|   |                   |                   |
|---|-------------------|-------------------|
| Test:U:11.96V I:0.1346A P:0.8899W PF:0.5528 Lamp Flux:1000x1 lm |                   |                   |
| NAME: 489872-3000K  | TYPE:489872-3000K | WEIGHT:           |
| SPEC.:  | DIM.:             | SERIAL No.:       |
| MFR.:   | SUR.:             | 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                  | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 |
| 5                  | 4.29 | 4.25 | 4.21 | 4.17 | 4.14 | 4.10 | 4.08 | 4.06 | 4.04 | 4.02 | 4.01 | 4.00 | 4.00 | 4.00 | 4.00 | 4.01 | 4.02 | 4.03 | 4.01 |
| 10                 | 3.98 | 3.92 | 3.86 | 3.81 | 3.76 | 3.72 | 3.69 | 3.65 | 3.63 | 3.61 | 3.59 | 3.57 | 3.57 | 3.56 | 3.57 | 3.58 | 3.59 | 3.62 | 3.59 |
| 15                 | 3.69 | 3.63 | 3.58 | 3.52 | 3.47 | 3.42 | 3.37 | 3.33 | 3.30 | 3.27 | 3.24 | 3.22 | 3.21 | 3.20 | 3.20 | 3.21 | 3.23 | 3.25 | 3.22 |
| 20                 | 3.27 | 3.22 | 3.16 | 3.12 | 3.09 | 3.06 | 3.04 | 3.03 | 3.01 | 2.96 | 2.92 | 2.89 | 2.87 | 2.85 | 2.84 | 2.84 | 2.86 | 2.89 | 2.84 |
| 25                 | 2.86 | 2.81 | 2.76 | 2.71 | 2.67 | 2.64 | 2.61 | 2.59 | 2.58 | 2.59 | 2.60 | 2.54 | 2.49 | 2.45 | 2.43 | 2.42 | 2.43 | 2.46 | 2.40 |
| 30                 | 2.46 | 2.41 | 2.36 | 2.31 | 2.27 | 2.23 | 2.19 | 2.16 | 2.13 | 2.12 | 2.11 | 2.10 | 2.06 | 1.99 | 1.95 | 1.92 | 1.92 | 1.95 | 1.89 |
| 35                 | 2.03 | 1.99 | 1.95 | 1.91 | 1.87 | 1.82 | 1.77 | 1.71 | 1.68 | 1.64 | 1.62 | 1.59 | 1.57 | 1.52 | 1.47 | 1.44 | 1.43 | 1.45 | 1.40 |
| 40                 | 1.61 | 1.58 | 1.55 | 1.52 | 1.48 | 1.44 | 1.38 | 1.32 | 1.27 | 1.23 | 1.20 | 1.17 | 1.15 | 1.13 | 1.09 | 1.05 | 1.04 | 1.06 | 1.02 |
| 45                 | 1.19 | 1.17 | 1.16 | 1.14 | 1.12 | 1.09 | 1.05 | 1.01 | 0.97 | 0.93 | 0.90 | 0.88 | 0.85 | 0.83 | 0.82 | 0.79 | 0.78 | 0.79 | 0.76 |
| 50                 | 0.96 | 0.94 | 0.91 | 0.88 | 0.84 | 0.81 | 0.78 | 0.76 | 0.74 | 0.71 | 0.69 | 0.67 | 0.65 | 0.63 | 0.62 | 0.60 | 0.59 | 0.60 | 0.58 |
| 55                 | 0.74 | 0.73 | 0.71 | 0.68 | 0.66 | 0.63 | 0.60 | 0.58 | 0.55 | 0.54 | 0.52 | 0.51 | 0.50 | 0.48 | 0.47 | 0.46 | 0.45 | 0.46 | 0.45 |
| 60                 | 0.53 | 0.52 | 0.51 | 0.49 | 0.48 | 0.47 | 0.46 | 0.44 | 0.42 | 0.40 | 0.39 | 0.38 | 0.37 | 0.36 | 0.35 | 0.35 | 0.34 | 0.34 | 0.34 |
| 65                 | 0.41 | 0.40 | 0.38 | 0.37 | 0.35 | 0.34 | 0.32 | 0.32 | 0.31 | 0.30 | 0.29 | 0.28 | 0.27 | 0.26 | 0.26 | 0.25 | 0.25 | 0.25 | 0.25 |
| 70                 | 0.30 | 0.29 | 0.28 | 0.27 | 0.26 | 0.25 | 0.24 | 0.23 | 0.22 | 0.21 | 0.20 | 0.20 | 0.19 | 0.19 | 0.18 | 0.18 | 0.18 | 0.18 | 0.17 |
| 75                 | 0.19 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.11 |
| 80                 | 0.00 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| 85                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 |
| 90                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: LOW  
Temperature:20DEG  
Operators:G  
Test Date:2023-01-10

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.291  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:



