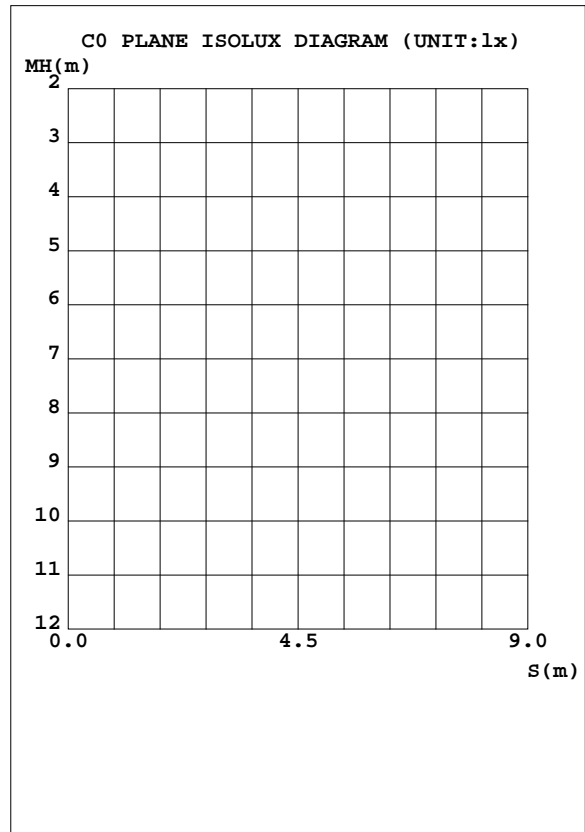
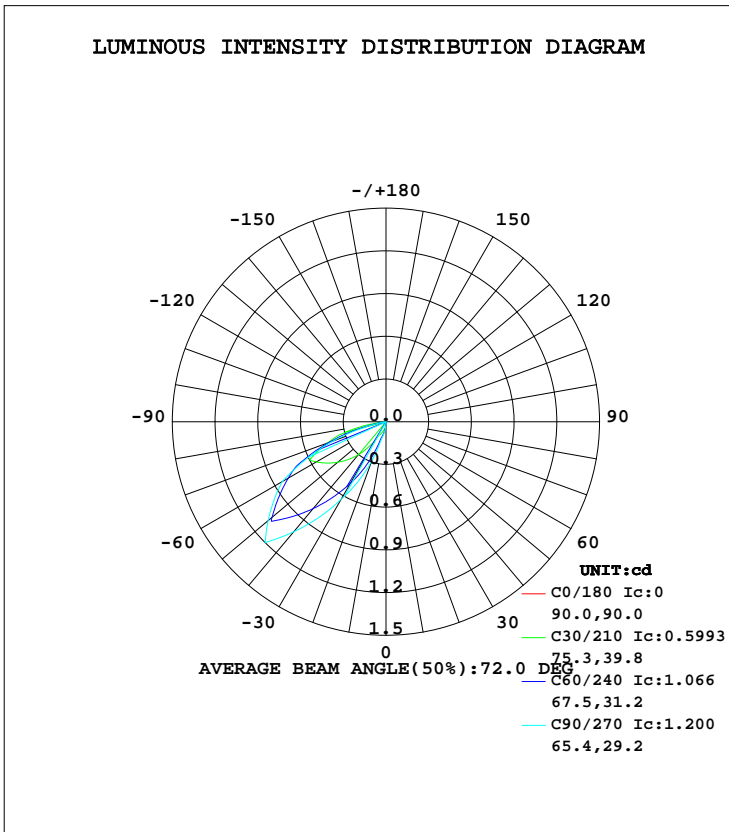


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|-----------------------------------------------------------------|-------------------|-------------------|
| Test:U:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 15.01 lm/W | | | |
|------------------|--------------|----------------------------------|--------|--------------------|---------|
| MODEL | 489932-3000K | Imax(cd) | 1.200 | S/MH(C0/180) | 0.00 |
| NOMINAL POWER(W) | 1 | LOR(%) | 1.1 | S/MH(C90/270) | 0.00 |
| RATED VOLTAGE(V) | 12 | TOTAL FLUX(lm) | 1.1178 | η UP, DN(C0-180) | 0.0,0.0 |
| NOMINAL FLUX(lm) | 100 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 0.0,1.1 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.00 |
| TEST VOLTAGE(V) | 220 | η down(%) | 1.1 | CIBSE SHR MAX | 1.00 |



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: LOW
 Temperature:20DEG
 Operators:G
 Test Date:2023-01-07

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 | 0 | 0 | 0 | 0 | 0 | 0.0293 | 0.0413 | 0.0293 | 0- 5 | 0.0002 | 0.0002 | 0.02,0.00 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0.0587 | 0.0826 | 0.0587 | 5- 10 | 0.0015 | 0.0017 | 0.15,0.00 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0.0887 | 0.1240 | 0.0877 | 10- 15 | 0.0040 | 0.0056 | 0.50,0.01 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0.1168 | 0.2918 | 0.1160 | 15- 20 | 0.0091 | 0.0147 | 1.31,0.01 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0.2203 | 0.4596 | 0.2174 | 20- 25 | 0.0197 | 0.0344 | 3.08,0.03 |
| 30 | 0 | 0 | 0 | 0 | 0 | 0.3397 | 0.6274 | 0.3283 | 25- 30 | 0.0351 | 0.0695 | 6.22,0.07 |
| 35 | 0 | 0 | 0 | 0 | 0 | 0.4543 | 0.8183 | 0.4335 | 30- 35 | 0.0551 | 0.1246 | 11.1,0.12 |
| 40 | 0 | 0 | 0 | 0 | 0 | 0.5665 | 1.009 | 0.5393 | 35- 40 | 0.0797 | 0.2043 | 18.3,0.20 |
| 45 | 0 | 0 | 0 | 0 | 0 | 0.6806 | 1.200 | 0.6735 | 40- 45 | 0.1083 | 0.3126 | 28,0.31 |
| 50 | 0 | 0 | 0 | 0 | 0 | 0.7891 | 1.080 | 0.8080 | 45- 50 | 0.1337 | 0.4462 | 39.9,0.45 |
| 55 | 0 | 0 | 0 | 0 | 0 | 0.8788 | 0.9606 | 0.9268 | 50- 55 | 0.1442 | 0.5905 | 52.8,0.59 |
| 60 | 0 | 0 | 0 | 0 | 0 | 0.7468 | 0.8409 | 0.8016 | 55- 60 | 0.1448 | 0.7353 | 65.8,0.74 |
| 65 | 0 | 0 | 0 | 0 | 0 | 0.6225 | 0.6171 | 0.6842 | 60- 65 | 0.1354 | 0.8707 | 77.9,0.87 |
| 70 | 0 | 0 | 0 | 0 | 0 | 0.4654 | 0.3932 | 0.5325 | 65- 70 | 0.1125 | 0.9833 | 88,0.98 |
| 75 | 0 | 0 | 0 | 0 | 0 | 0.2652 | 0.1694 | 0.3328 | 70- 75 | 0.0800 | 1.063 | 95.1,1.06 |
| 80 | 0 | 0 | 0 | 0 | 0 | 0.0802 | 0 | 0.1338 | 75- 80 | 0.0424 | 1.106 | 98.9,1.11 |
| 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 85 | 0.0114 | 1.117 | 99.9,1.12 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85- 90 | 0.0008 | 1.118 | 100,1.12 |
| 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 | | | |

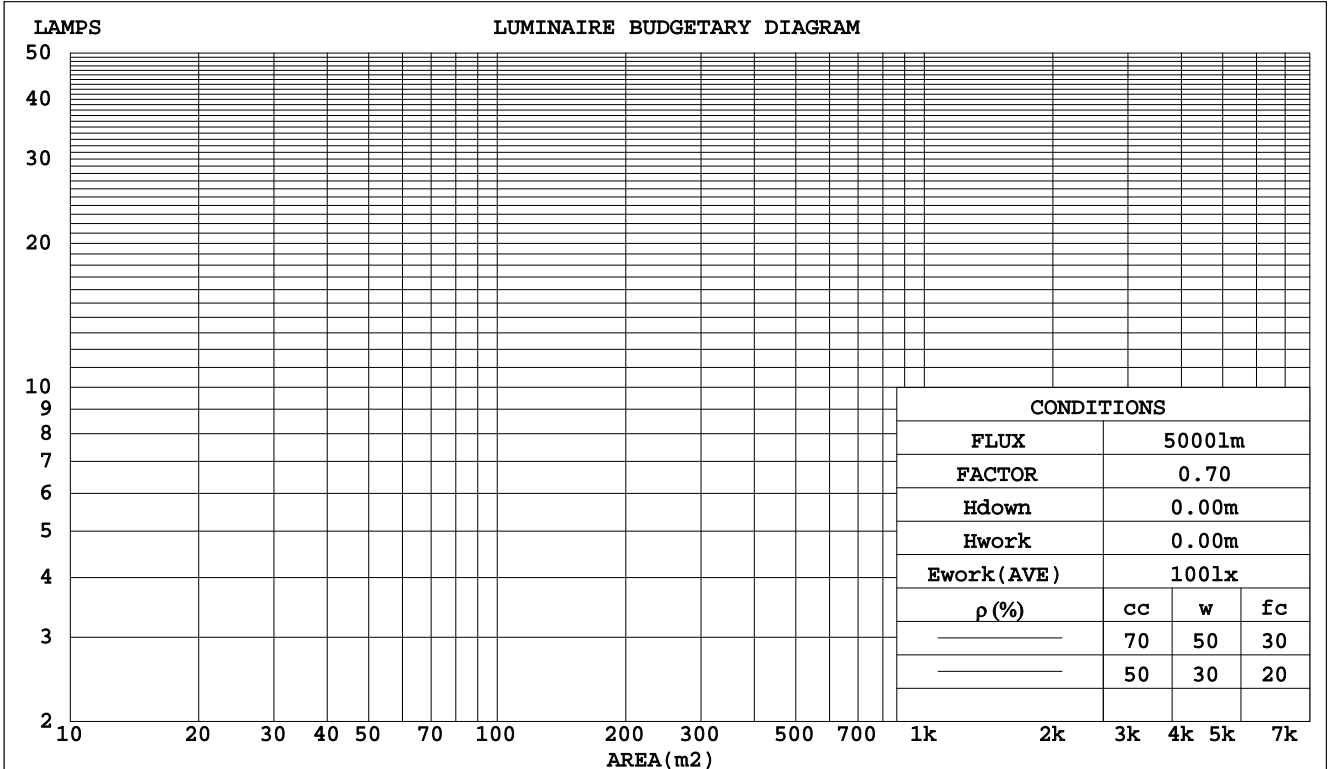
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: LOW
Temperature:20DEG
Operators:G
Test Date:2023-01-07

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:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | 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 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 |
| 1.0 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 |
| 2.0 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 |
| 3.0 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 | .01 |
| 4.0 | .01 | .01 | .00 | .01 | .01 | .00 | .01 | .01 | .00 | .01 | .01 | .00 | .01 | .00 | .00 | .00 |
| 5.0 | .01 | .00 | .00 | .01 | .00 | .00 | .01 | .00 | .00 | .01 | .00 | .00 | .00 | .00 | .00 | .00 |
| 6.0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 7.0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 8.0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 9.0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 10.0 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: LOW
 Temperature:20DEG
 Operators:G
 Test Date:2023-01-07

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:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | 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 | .004 | .002 | .001 | .004 | .002 | .001 | .004 | .002 | .001 | .004 | .002 | .001 | .004 | .002 | .001 | |
| 2.0 | .004 | .002 | .001 | .004 | .002 | .001 | .004 | .002 | .001 | .004 | .002 | .001 | .004 | .002 | .001 | |
| 3.0 | .004 | .002 | .001 | .004 | .002 | .001 | .003 | .002 | .001 | .003 | .002 | .001 | .003 | .002 | .001 | |
| 4.0 | .003 | .002 | .001 | .003 | .002 | .001 | .003 | .002 | .001 | .003 | .002 | .000 | .003 | .002 | .000 | |
| 5.0 | .003 | .002 | .000 | .003 | .002 | .000 | .003 | .002 | .000 | .003 | .001 | .000 | .003 | .001 | .000 | |
| 6.0 | .003 | .001 | .000 | .003 | .001 | .000 | .003 | .001 | .000 | .003 | .001 | .000 | .003 | .001 | .000 | |
| 7.0 | .003 | .001 | .000 | .003 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | |
| 8.0 | .002 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | |
| 9.0 | .002 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | |
| 10.0 | .002 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | .002 | .001 | .000 | |

| 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 | .002 | .002 | .002 | .002 | .002 | .002 | .001 | .001 | .001 | .001 | .001 | .001 | .000 | .000 | .000 | |
| 1.0 | .002 | .002 | .001 | .002 | .001 | .001 | .001 | .001 | .001 | .001 | .001 | .001 | .000 | .000 | .000 | |
| 2.0 | .002 | .001 | .001 | .002 | .001 | .001 | .001 | .001 | .001 | .001 | .001 | .000 | .000 | .000 | .000 | |
| 3.0 | .002 | .001 | .001 | .002 | .001 | .001 | .001 | .001 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | |
| 4.0 | .002 | .001 | .001 | .002 | .001 | .000 | .001 | .001 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | |
| 5.0 | .002 | .001 | .000 | .002 | .001 | .000 | .001 | .001 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | |
| 6.0 | .002 | .001 | .000 | .001 | .001 | .000 | .001 | .001 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | |
| 7.0 | .002 | .001 | .000 | .001 | .001 | .000 | .001 | .001 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | |
| 8.0 | .002 | .001 | .000 | .001 | .001 | .000 | .001 | .000 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | |
| 9.0 | .002 | .001 | .000 | .001 | .001 | .000 | .001 | .000 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | |
| 10.0 | .001 | .001 | .000 | .001 | .001 | .000 | .001 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | |

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: LOW
 Temperature:20DEG
 Operators:G
 Test Date:2023-01-07

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:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | | | | | | | | | |
| NAME: 489932-3000K | | | | | TYPE:489932-3000K | | | 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 | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 3H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 4H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 12H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 4H 2H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 3H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 4H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 12H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H 4H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 12H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 12H 4H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 6H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| 8H | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ | -1.\$ |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.0 / - 0.0 | | | | | + 0.0 / - 0.0 | | | | |
| 1.5H | + 0.0 / - 0.0 | | | | | + 0.0 / - 0.0 | | | | |
| 2.0H | + 0.0 / - 0.0 | | | | | + 0.0 / - 0.0 | | | | |

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:2023-01-07

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:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

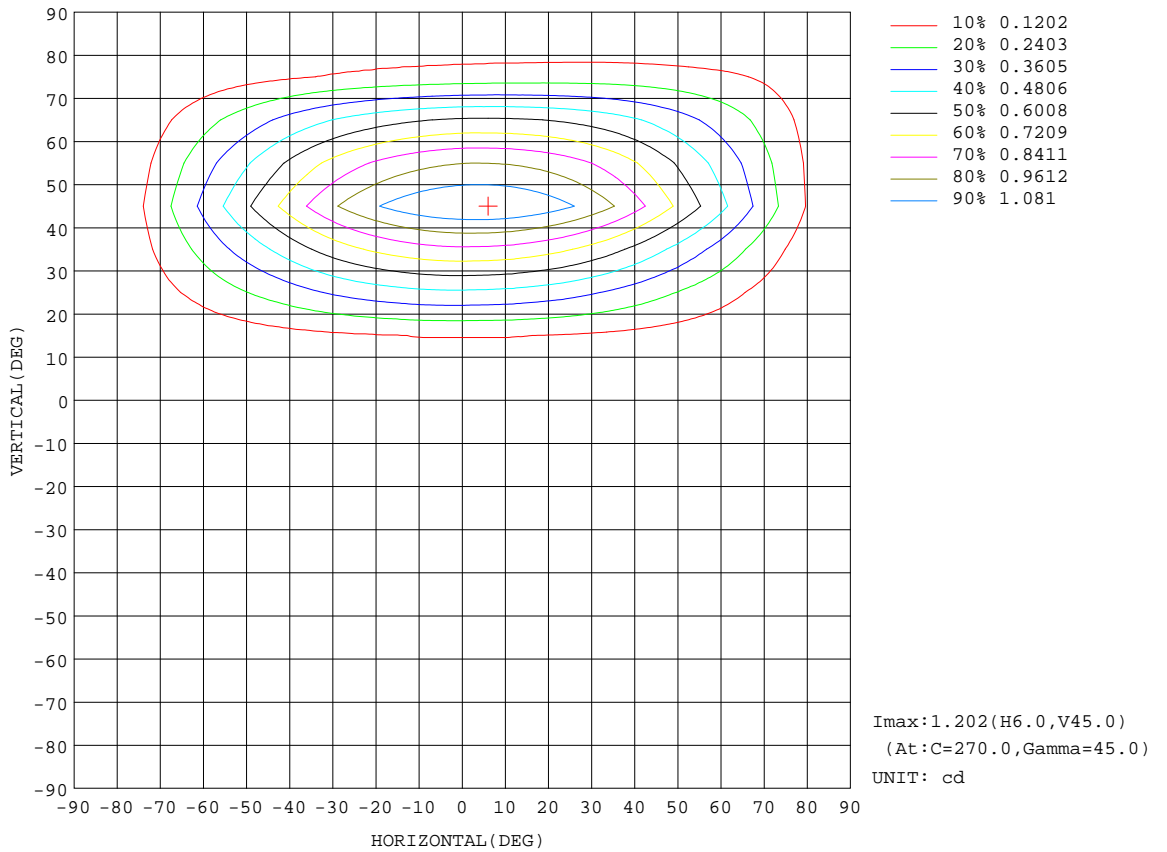
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.80 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1.00 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| 1.25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 1.50 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2.00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2.50 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3.00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4.00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5.00 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 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:2023-01-07

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:

ISOCANDELA DIAGRAM

| | | |
|-----------------------------------------------------------------|-------------------|-------------------|
| Test:U:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

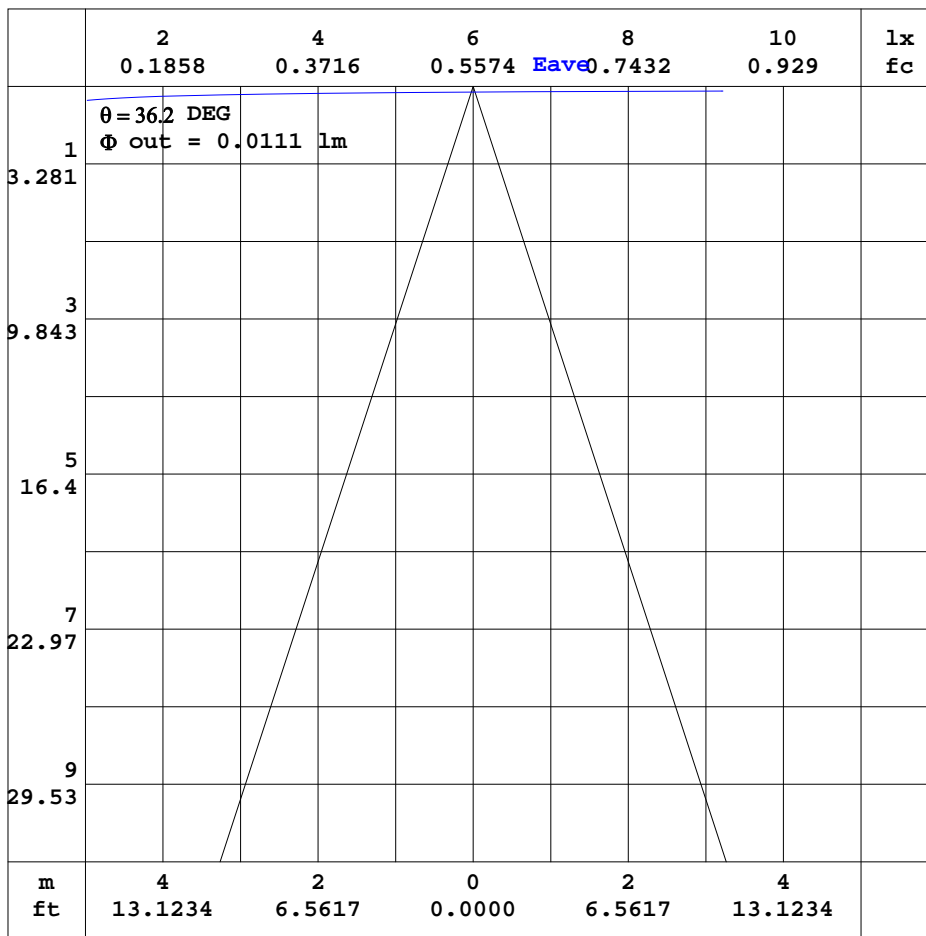


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: LOW
 Temperature: 20DEG
 Operators: G
 Test Date: 2023-01-07

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:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |



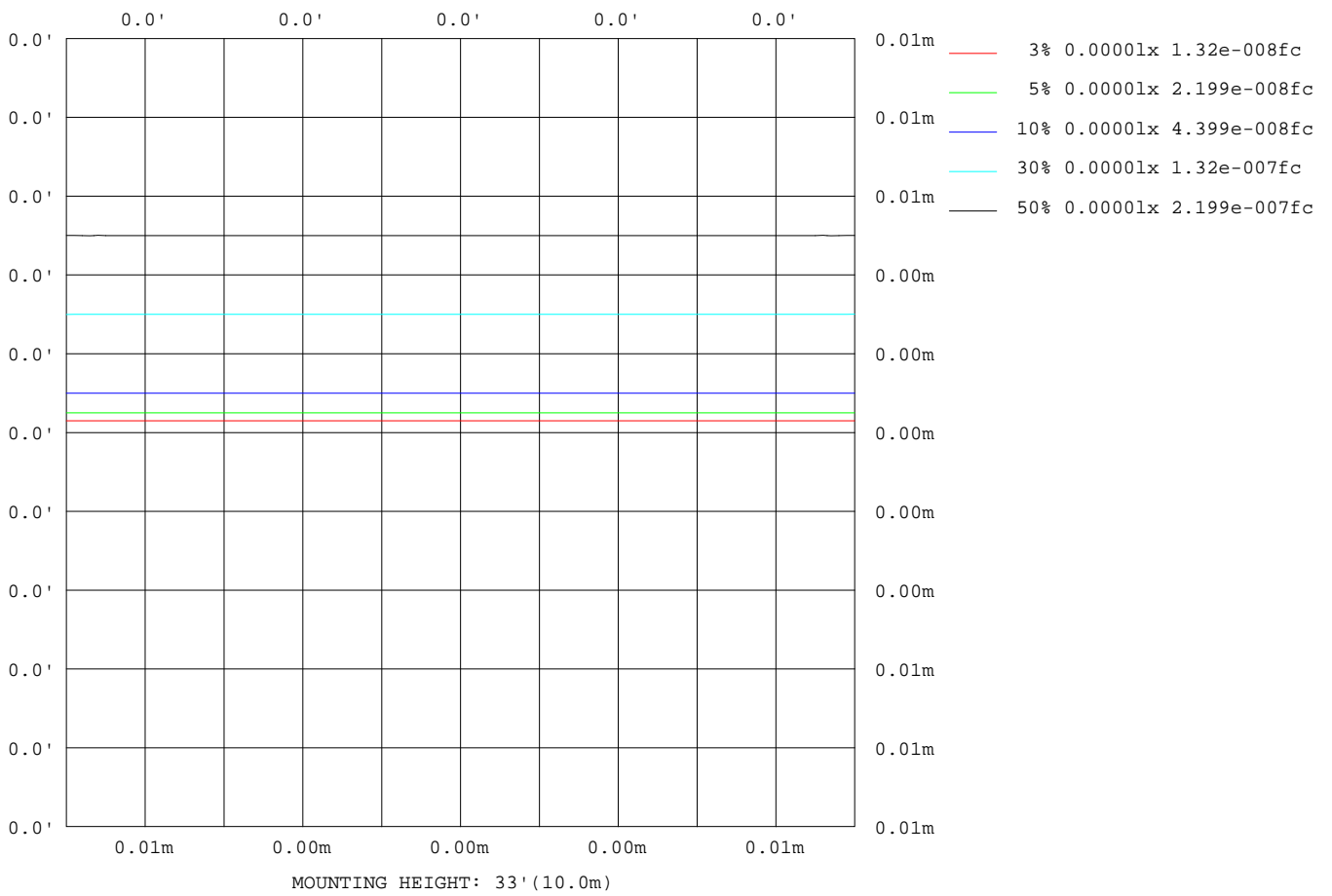
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: LOW
Temperature:20DEG
Operators:G
Test Date:2023-01-07

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:

ISOLUX DIAGRAM

| | | |
|-----------------------------------------------------------------|-------------------|-------------------|
| Test:U:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | 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:2023-01-07

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:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

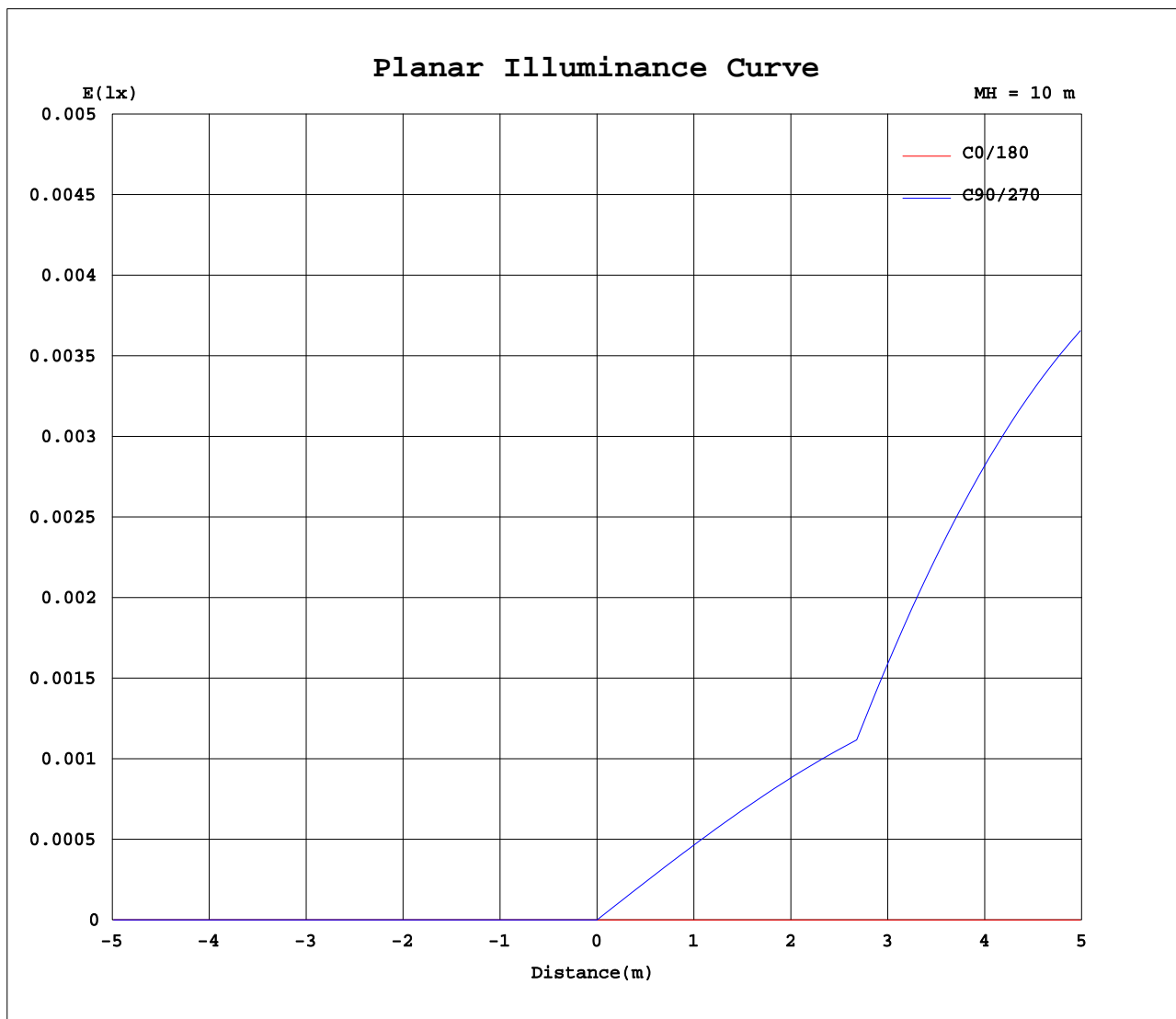
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 0 |
| L_0~180(75)av | 0 |
| L_0~180(85)av | 0 |
| L_90~270(65)av | 4 |
| L_90~270(75)av | 2 |
| L_90~270(85)av | 0 |
| L_45(65)av | 4 |
| L_45(75)av | 3 |
| L_45(85)av | 0 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: LOW
Temperature:20DEG
Operators:G
Test Date:2023-01-07

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: 2023-01-07

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:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 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 |
| 5 | 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 |
| 10 | 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 |
| 15 | 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 |
| 20 | 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 |
| 25 | 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 |
| 30 | 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 |
| 35 | 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 |
| 40 | 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 |
| 45 | 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 |
| 50 | 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 |
| 55 | 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 |
| 60 | 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 |
| 65 | 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 |
| 70 | 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 |
| 75 | 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 |
| 80 | 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 |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 | 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 |
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C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: LOW
 Temperature:20DEG
 Operators:G
 Test Date:2023-01-07

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:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

Table--2

UNIT: cd

| C (DEG) \ γ (DEG) | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 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 |
| 5 | 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 |
| 10 | 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 | 0.01 |
| 15 | 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 | 0.01 |
| 20 | 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 | 0.01 |
| 25 | 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 | 0.02 |
| 30 | 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 | 0.02 |
| 35 | 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 | 0.02 |
| 40 | 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 | 0.02 |
| 45 | 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 | 0.03 |
| 50 | 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 | 0.03 |
| 55 | 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 | 0.03 |
| 60 | 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 | 0.03 |
| 65 | 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 | 0.02 |
| 70 | 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 | 0.02 |
| 75 | 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 | 0.02 |
| 80 | 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 | 0.04 |
| 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 | 0.00 | 0.00 | 0.00 | 0.00 | 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:2023-01-07

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:11.97V I:0.1011A P:0.7447W PF:0.6152 Lamp Flux:1000x1 lm | | |
| NAME: 489932-3000K | TYPE:489932-3000K | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

Table--4

UNIT: cd

| C (DEG) γ (DEG) | 285 | 290 | 295 | 300 | 305 | 310 | 315 | 320 | 325 | 330 | 335 | 340 | 345 | 350 | 355 | | | | |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| 0 | 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 | | | | |
| 5 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.00 | | | | |
| 10 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.06 | 0.06 | 0.05 | 0.05 | 0.04 | 0.04 | 0.03 | 0.02 | 0.01 | 0.01 | | | | |
| 15 | 0.12 | 0.12 | 0.11 | 0.11 | 0.10 | 0.10 | 0.09 | 0.08 | 0.07 | 0.06 | 0.05 | 0.04 | 0.03 | 0.02 | 0.01 | | | | |
| 20 | 0.27 | 0.25 | 0.23 | 0.20 | 0.17 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.07 | 0.06 | 0.04 | 0.03 | 0.01 | | | | |
| 25 | 0.43 | 0.41 | 0.38 | 0.34 | 0.31 | 0.26 | 0.22 | 0.17 | 0.11 | 0.10 | 0.08 | 0.07 | 0.05 | 0.03 | 0.02 | | | | |
| 30 | 0.59 | 0.56 | 0.52 | 0.48 | 0.44 | 0.38 | 0.33 | 0.27 | 0.20 | 0.14 | 0.10 | 0.08 | 0.06 | 0.04 | 0.02 | | | | |
| 35 | 0.77 | 0.73 | 0.68 | 0.63 | 0.56 | 0.50 | 0.43 | 0.36 | 0.29 | 0.21 | 0.14 | 0.09 | 0.07 | 0.04 | 0.02 | | | | |
| 40 | 0.96 | 0.91 | 0.86 | 0.79 | 0.72 | 0.63 | 0.54 | 0.45 | 0.37 | 0.28 | 0.20 | 0.11 | 0.07 | 0.05 | 0.02 | | | | |
| 45 | 1.15 | 1.10 | 1.04 | 0.96 | 0.88 | 0.78 | 0.67 | 0.56 | 0.44 | 0.35 | 0.25 | 0.16 | 0.08 | 0.05 | 0.03 | | | | |
| 50 | 1.09 | 1.08 | 1.08 | 1.08 | 1.04 | 0.93 | 0.81 | 0.68 | 0.55 | 0.41 | 0.30 | 0.20 | 0.11 | 0.05 | 0.03 | | | | |
| 55 | 0.97 | 0.97 | 0.96 | 0.96 | 0.95 | 0.94 | 0.93 | 0.80 | 0.65 | 0.50 | 0.35 | 0.24 | 0.14 | 0.05 | 0.03 | | | | |
| 60 | 0.84 | 0.84 | 0.84 | 0.84 | 0.83 | 0.82 | 0.80 | 0.78 | 0.75 | 0.59 | 0.43 | 0.27 | 0.16 | 0.07 | 0.02 | | | | |
| 65 | 0.64 | 0.66 | 0.67 | 0.69 | 0.71 | 0.70 | 0.68 | 0.66 | 0.64 | 0.62 | 0.51 | 0.34 | 0.18 | 0.08 | 0.02 | | | | |
| 70 | 0.42 | 0.44 | 0.45 | 0.47 | 0.50 | 0.51 | 0.53 | 0.55 | 0.53 | 0.50 | 0.48 | 0.41 | 0.23 | 0.09 | 0.02 | | | | |
| 75 | 0.20 | 0.22 | 0.24 | 0.26 | 0.29 | 0.31 | 0.33 | 0.35 | 0.37 | 0.38 | 0.37 | 0.34 | 0.28 | 0.11 | 0.02 | | | | |
| 80 | 0.01 | 0.02 | 0.04 | 0.05 | 0.08 | 0.10 | 0.13 | 0.17 | 0.19 | 0.21 | 0.23 | 0.23 | 0.20 | 0.15 | 0.02 | | | | |
| 85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.09 | 0.10 | 0.08 | 0.03 | | | | |
| 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 | | | | |

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: LOW
Temperature:20DEG
Operators:G
Test Date:2023-01-07

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: