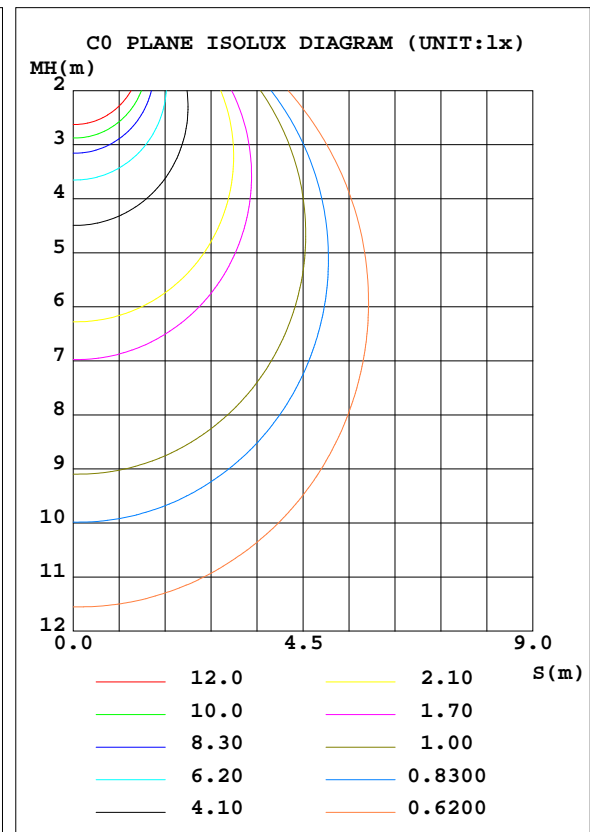
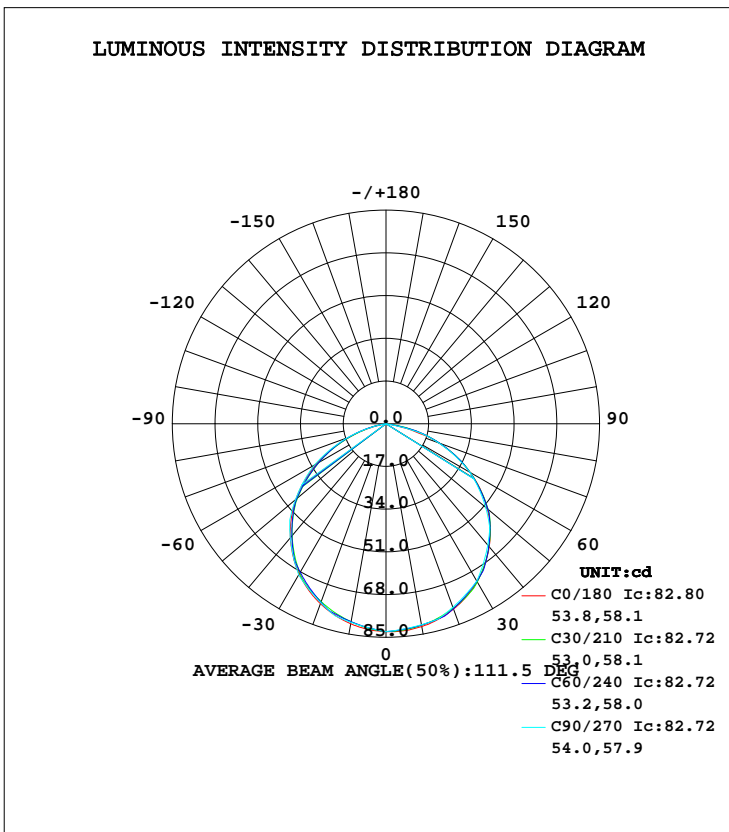


LUMINAIRE PHOTOMETRIC TEST REPORT

| | | |
|---|---------------------------|-------------------|
| Test:U:11.91V I:0.2858A P:2.139W PF:0.6283 Lamp Flux:180x1 lm | | |
| NAME: 489162-2700K QUATTRO | TYPE:489162-2700K QUATTRO | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 104.80 lm/W | | | |
|------------------|----------------------|-----------------------------------|--------|--------------------|----------|
| MODEL | 489162-2700K QUATTRO | I _{max} (cd) | 82.80 | S/MH(C0/180) | 1.24 |
| NOMINAL POWER(W) | 2 | LOR(%) | 124.5 | S/MH(C90/270) | 1.24 |
| RATED VOLTAGE(V) | 12 | TOTAL FLUX(lm) | 224.18 | η UP, DN(C0-180) | 0.0,64.5 |
| NOMINAL FLUX(lm) | 180 | CIE CLASS | DIRECT | η UP, DN(C180-360) | 0.0,60.1 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE(V) | 12 | η down(%) | 124.5 | CIBSE SHR MAX | 1.35 |



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:Y
Test Date:2026-05-11

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 | 82.68 | 82.21 | 81.97 | 81.86 | 82.14 | 81.53 | 81.49 | 81.88 | 0- 5 | 1.966 | 1.966 | 0.88,1.09 |
| 10 | 81.96 | 81.37 | 81.22 | 80.61 | 80.83 | 79.92 | 80.25 | 80.73 | 5- 10 | 5.819 | 7.785 | 3.47,4.32 |
| 15 | 80.54 | 80.19 | 80.47 | 79.04 | 78.83 | 78.03 | 79.01 | 79.20 | 10- 15 | 9.495 | 17.28 | 7.71,9.6 |
| 20 | 78.49 | 78.72 | 77.74 | 77.19 | 76.23 | 75.87 | 75.83 | 77.40 | 15- 20 | 12.88 | 30.16 | 13.5,16.8 |
| 25 | 75.87 | 75.67 | 75.01 | 73.80 | 72.98 | 72.17 | 72.65 | 74.06 | 20- 25 | 15.81 | 45.97 | 20.5,25.5 |
| 30 | 72.51 | 72.23 | 72.28 | 69.92 | 69.07 | 68.01 | 69.47 | 70.27 | 25- 30 | 18.26 | 64.23 | 28.7,35.7 |
| 35 | 68.50 | 68.52 | 67.65 | 65.77 | 64.46 | 63.54 | 64.36 | 66.23 | 30- 35 | 20.11 | 84.34 | 37.6,46.9 |
| 40 | 63.91 | 64.35 | 63.01 | 61.23 | 59.20 | 58.65 | 59.25 | 61.75 | 35- 40 | 21.22 | 105.6 | 47.1,58.6 |
| 45 | 58.58 | 58.58 | 58.38 | 55.12 | 53.35 | 52.18 | 54.14 | 55.64 | 40- 45 | 21.62 | 127.2 | 56.7,70.7 |
| 50 | 52.67 | 52.56 | 51.76 | 48.91 | 46.82 | 45.58 | 47.04 | 49.34 | 45- 50 | 21.23 | 148.4 | 66.2,82.5 |
| 55 | 45.99 | 46.35 | 45.14 | 42.54 | 39.64 | 38.86 | 39.94 | 42.90 | 50- 55 | 19.91 | 168.3 | 75.1,93.5 |
| 60 | 38.62 | 38.58 | 38.52 | 34.61 | 31.92 | 30.72 | 32.84 | 34.96 | 55- 60 | 17.81 | 186.1 | 83,103 |
| 65 | 30.72 | 30.91 | 30.38 | 26.86 | 23.79 | 22.74 | 24.54 | 27.16 | 60- 65 | 14.99 | 201.1 | 89.7,112 |
| 70 | 22.38 | 23.14 | 22.24 | 19.15 | 15.31 | 15.20 | 16.25 | 19.26 | 65- 70 | 11.57 | 212.7 | 94.9,118 |
| 75 | 11.69 | 14.59 | 14.10 | 11.59 | 6.521 | 8.221 | 7.948 | 11.29 | 70- 75 | 7.709 | 220.4 | 98.3,122 |
| 80 | 3.740 | 5.631 | 0 | 4.201 | 1.026 | 2.046 | 0 | 3.676 | 75- 80 | 3.407 | 223.8 | 99.8,124 |
| 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80- 85 | 0.3666 | 224.2 | 100,125 |
| 90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 85- 90 | 0.0008 | 224.2 | 100,125 |
| 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 | | | |

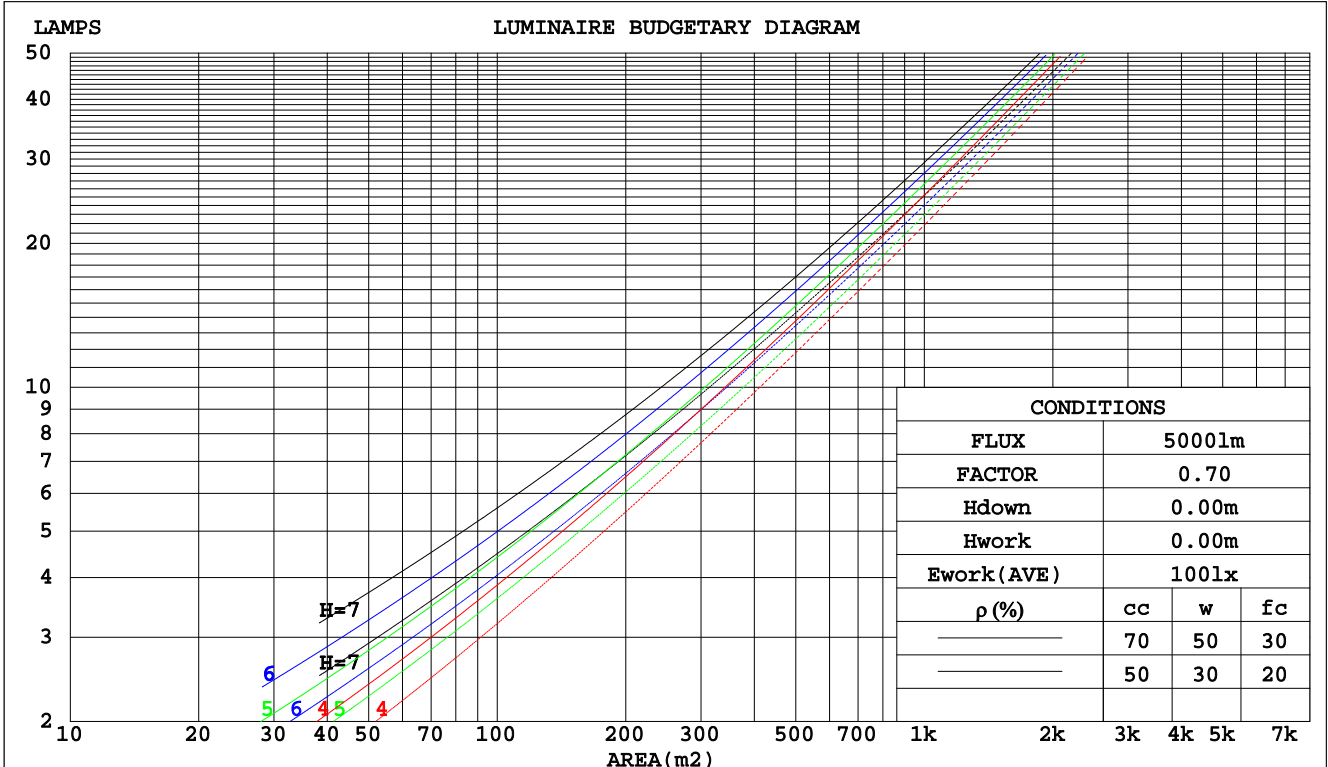
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:Y
 Test Date:2026-05-11

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:11.91V I:0.2858A P:2.139W PF:0.6283 Lamp Flux:180x1 lm | | |
| NAME: 489162-2700K QUATTRO | TYPE:489162-2700K QUATTRO | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pw | | | | | | | | | | | | | | | | |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |
| | Coefficients of Utilization(CU) | | | | | | | | | | | | | | | |
| 0.0 | 1.48 | 1.48 | 1.48 | 1.45 | 1.45 | 1.45 | 1.38 | 1.38 | 1.38 | 1.32 | 1.32 | 1.32 | 1.27 | 1.27 | 1.27 | 1.25 |
| 1.0 | 1.31 | 1.26 | 1.22 | 1.28 | 1.24 | 1.20 | 1.23 | 1.20 | 1.16 | 1.18 | 1.15 | 1.13 | 1.14 | 1.12 | 1.09 | 1.07 |
| 2.0 | 1.15 | 1.07 | 1.00 | 1.13 | 1.05 | .99 | 1.08 | 1.02 | .97 | 1.04 | .99 | .95 | 1.01 | .96 | .92 | .90 |
| 3.0 | 1.01 | .92 | .84 | .99 | .90 | .83 | .96 | .88 | .82 | .92 | .86 | .80 | .89 | .84 | .79 | .76 |
| 4.0 | .90 | .79 | .71 | .88 | .78 | .71 | .85 | .76 | .70 | .82 | .75 | .69 | .80 | .73 | .68 | .65 |
| 5.0 | .80 | .69 | .61 | .79 | .69 | .61 | .76 | .67 | .60 | .74 | .66 | .60 | .72 | .65 | .59 | .56 |
| 6.0 | .72 | .61 | .53 | .71 | .61 | .53 | .69 | .60 | .53 | .67 | .59 | .52 | .65 | .58 | .52 | .49 |
| 7.0 | .66 | .55 | .47 | .65 | .54 | .47 | .63 | .53 | .47 | .61 | .53 | .46 | .59 | .52 | .46 | .44 |
| 8.0 | .60 | .49 | .42 | .59 | .49 | .42 | .57 | .48 | .42 | .56 | .47 | .41 | .54 | .47 | .41 | .39 |
| 9.0 | .55 | .45 | .38 | .54 | .44 | .38 | .53 | .44 | .38 | .51 | .43 | .37 | .50 | .43 | .37 | .35 |
| 10.0 | .51 | .41 | .34 | .50 | .41 | .34 | .49 | .40 | .34 | .48 | .40 | .34 | .46 | .39 | .34 | .32 |



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:Y
 Test Date:2026-05-11

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:11.91V I:0.2858A P:2.139W PF:0.6283 Lamp Flux:180x1 lm | | |
| NAME: 489162-2700K QUATTRO | TYPE:489162-2700K QUATTRO | 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 | .350 | .199 | .063 | .341 | .195 | .062 | .325 | .186 | .059 | .310 | .179 | .057 | .296 | .171 | .055 | |
| 2.0 | .340 | .187 | .057 | .333 | .183 | .056 | .318 | .177 | .055 | .305 | .171 | .054 | .293 | .166 | .052 | |
| 3.0 | .321 | .171 | .051 | .314 | .168 | .051 | .301 | .163 | .050 | .289 | .159 | .049 | .278 | .154 | .048 | |
| 4.0 | .299 | .155 | .046 | .293 | .153 | .045 | .282 | .149 | .045 | .271 | .146 | .044 | .262 | .142 | .043 | |
| 5.0 | .279 | .142 | .041 | .273 | .140 | .041 | .263 | .137 | .040 | .254 | .134 | .040 | .245 | .131 | .039 | |
| 6.0 | .260 | .130 | .037 | .255 | .129 | .037 | .246 | .126 | .037 | .238 | .124 | .036 | .230 | .121 | .036 | |
| 7.0 | .243 | .120 | .034 | .238 | .119 | .034 | .231 | .117 | .034 | .223 | .114 | .033 | .216 | .112 | .033 | |
| 8.0 | .227 | .111 | .031 | .224 | .110 | .031 | .216 | .108 | .031 | .210 | .106 | .031 | .203 | .104 | .030 | |
| 9.0 | .214 | .103 | .029 | .210 | .102 | .029 | .204 | .101 | .029 | .198 | .099 | .028 | .192 | .098 | .028 | |
| 10.0 | .201 | .096 | .027 | .198 | .096 | .027 | .192 | .094 | .027 | .187 | .093 | .026 | .182 | .091 | .026 | |

| 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 | .237 | .237 | .237 | .203 | .203 | .203 | .138 | .138 | .138 | .079 | .079 | .079 | .025 | .025 | .025 | |
| 1.0 | .222 | .195 | .170 | .190 | .167 | .146 | .130 | .115 | .101 | .075 | .067 | .059 | .024 | .021 | .019 | |
| 2.0 | .211 | .164 | .125 | .181 | .142 | .108 | .124 | .098 | .075 | .072 | .057 | .044 | .023 | .018 | .014 | |
| 3.0 | .202 | .142 | .095 | .173 | .123 | .082 | .119 | .085 | .058 | .069 | .050 | .034 | .022 | .016 | .011 | |
| 4.0 | .193 | .126 | .074 | .165 | .108 | .065 | .114 | .076 | .045 | .066 | .044 | .027 | .021 | .014 | .009 | |
| 5.0 | .184 | .112 | .060 | .158 | .097 | .052 | .109 | .068 | .037 | .063 | .040 | .022 | .020 | .013 | .007 | |
| 6.0 | .175 | .102 | .050 | .150 | .088 | .043 | .104 | .062 | .031 | .060 | .036 | .018 | .019 | .012 | .006 | |
| 7.0 | .167 | .093 | .042 | .143 | .081 | .037 | .099 | .057 | .026 | .058 | .033 | .015 | .019 | .011 | .005 | |
| 8.0 | .159 | .086 | .036 | .137 | .075 | .032 | .095 | .053 | .022 | .055 | .031 | .013 | .018 | .010 | .004 | |
| 9.0 | .152 | .080 | .032 | .131 | .069 | .028 | .090 | .049 | .020 | .053 | .029 | .012 | .017 | .009 | .004 | |
| 10.0 | .145 | .075 | .028 | .125 | .065 | .025 | .087 | .046 | .017 | .050 | .027 | .010 | .016 | .009 | .003 | |

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:Y
 Test Date:2026-05-11

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:11.91V I:0.2858A P:2.139W PF:0.6283 Lamp Flux:180x1 lm | | | | | | | | | | |
| NAME: 489162-2700K QUATTRO | | | | | TYPE:489162-2700K QUATTRO | | | 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 | 10.1 | 11.6 | 10.3 | 11.8 | 12.0 | 10.1 | 11.5 | 10.3 | 11.7 | 11.9 |
| 3H | 11.5 | 12.8 | 11.8 | 13.1 | 13.3 | 11.5 | 12.8 | 11.7 | 13.0 | 13.3 |
| 4H | 11.8 | 13.1 | 12.1 | 13.4 | 13.6 | 11.9 | 13.2 | 12.2 | 13.5 | 13.7 |
| 6H | 11.9 | 13.1 | 12.2 | 13.4 | 13.6 | 11.9 | 13.1 | 12.3 | 13.4 | 13.7 |
| 8H | 11.8 | 13.0 | 12.2 | 13.3 | 13.6 | 11.9 | 13.1 | 12.2 | 13.3 | 13.6 |
| 12H | 11.8 | 12.9 | 12.1 | 13.2 | 13.5 | 11.8 | 13.0 | 12.2 | 13.2 | 13.5 |
| 4H 2H | 10.7 | 12.0 | 11.0 | 12.2 | 12.5 | 10.7 | 12.0 | 11.0 | 12.2 | 12.5 |
| 3H | 12.2 | 13.4 | 12.6 | 13.7 | 14.0 | 12.2 | 13.4 | 12.6 | 13.6 | 13.9 |
| 4H | 12.7 | 13.7 | 13.1 | 14.0 | 14.4 | 12.8 | 13.8 | 13.2 | 14.1 | 14.5 |
| 6H | 12.8 | 13.7 | 13.2 | 14.0 | 14.4 | 12.8 | 13.7 | 13.2 | 14.1 | 14.5 |
| 8H | 12.8 | 13.6 | 13.2 | 14.0 | 14.4 | 12.8 | 13.6 | 13.2 | 14.0 | 14.4 |
| 12H | 12.7 | 13.5 | 13.1 | 13.9 | 14.3 | 12.8 | 13.5 | 13.2 | 13.9 | 14.3 |
| 8H 4H | 12.9 | 13.7 | 13.3 | 14.1 | 14.5 | 13.0 | 13.8 | 13.4 | 14.2 | 14.6 |
| 6H | 13.1 | 13.7 | 13.5 | 14.1 | 14.6 | 13.1 | 13.8 | 13.5 | 14.2 | 14.6 |
| 8H | 13.0 | 13.7 | 13.5 | 14.1 | 14.5 | 13.0 | 13.6 | 13.5 | 14.1 | 14.5 |
| 12H | 13.0 | 13.5 | 13.5 | 14.0 | 14.5 | 13.0 | 13.5 | 13.5 | 14.0 | 14.4 |
| 12H 4H | 12.9 | 13.6 | 13.3 | 14.0 | 14.4 | 13.0 | 13.7 | 13.4 | 14.1 | 14.5 |
| 6H | 13.0 | 13.6 | 13.5 | 14.1 | 14.5 | 13.1 | 13.7 | 13.5 | 14.1 | 14.5 |
| 8H | 13.0 | 13.6 | 13.5 | 14.0 | 14.5 | 13.0 | 13.5 | 13.5 | 14.0 | 14.5 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.2 / - 0.3 | | | | | + 0.2 / - 0.3 | | | | |
| 1.5H | + 0.3 / - 0.4 | | | | | + 0.2 / - 0.4 | | | | |
| 2.0H | + 0.3 / - 0.3 | | | | | + 0.2 / - 0.4 | | | | |

CIE Pub.117 Corrected 180.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -6.0)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:Y
Test Date:2026-05-11

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:11.91V I:0.2858A P:2.139W PF:0.6283 Lamp Flux:180x1 lm | | |
| NAME: 489162-2700K QUATTRO | TYPE:489162-2700K QUATTRO | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

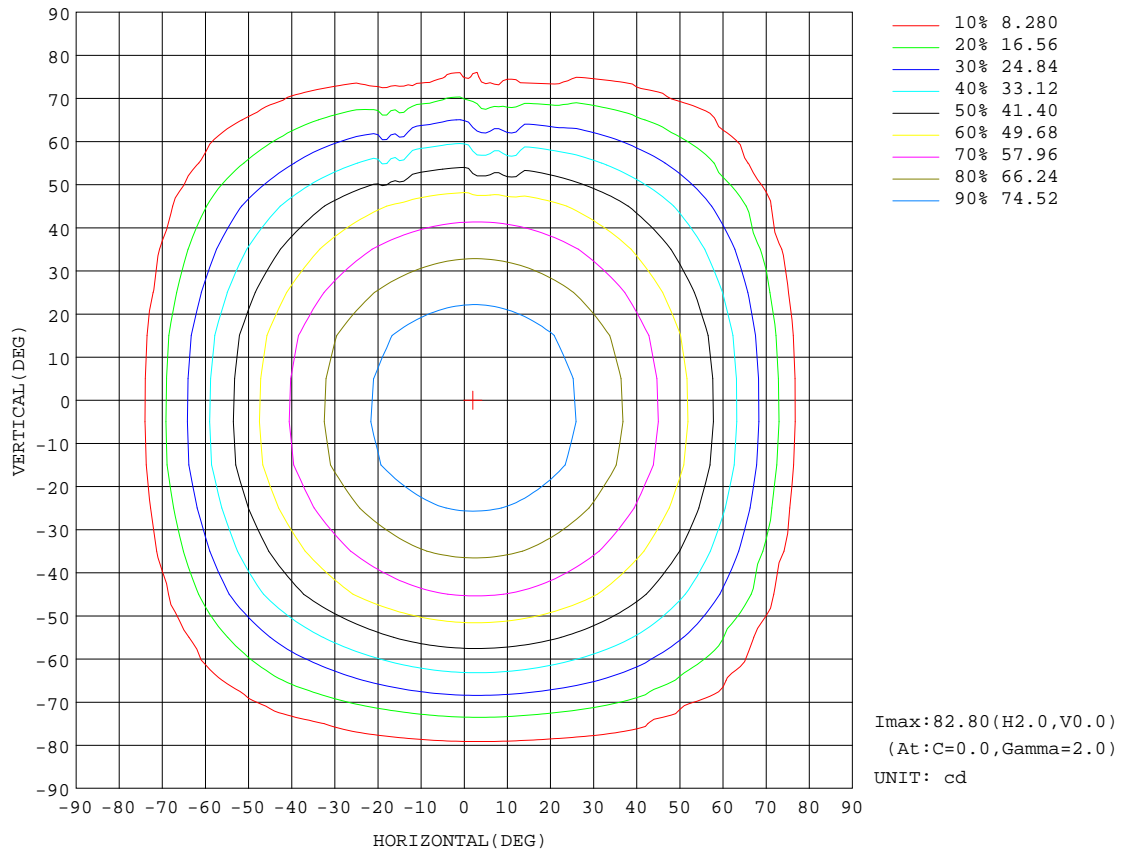
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|---------------|-----|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 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 | 73 | 59 | 50 | 72 | 59 | 50 | 71 | 58 | 50 | 42 |
| 0.80 | 86 | 72 | 63 | 85 | 71 | 63 | 83 | 70 | 62 | 54 |
| 1.00 | 97 | 83 | 75 | 95 | 83 | 74 | 93 | 84 | 74 | 65 |
| 1.25 | 106 | 93 | 85 | 104 | 92 | 84 | 101 | 91 | 83 | 74 |
| 1.50 | 112 | 100 | 92 | 110 | 99 | 91 | 106 | 97 | 90 | 81 |
| 2.00 | 120 | 110 | 103 | 118 | 109 | 102 | 114 | 106 | 100 | 91 |
| 2.50 | 125 | 116 | 109 | 123 | 114 | 108 | 118 | 111 | 106 | 96 |
| 3.00 | 129 | 121 | 115 | 127 | 119 | 114 | 122 | 116 | 111 | 101 |
| 4.00 | 134 | 127 | 122 | 131 | 125 | 120 | 126 | 121 | 117 | 106 |
| 5.00 | 137 | 131 | 127 | 134 | 129 | 125 | 128 | 124 | 121 | 110 |
| 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:20DEG
 Operators:Y
 Test Date:2026-05-11

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:11.91V I:0.2858A P:2.139W PF:0.6283 Lamp Flux:180x1 lm | | |
| NAME: 489162-2700K QUATTRO | TYPE:489162-2700K QUATTRO | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

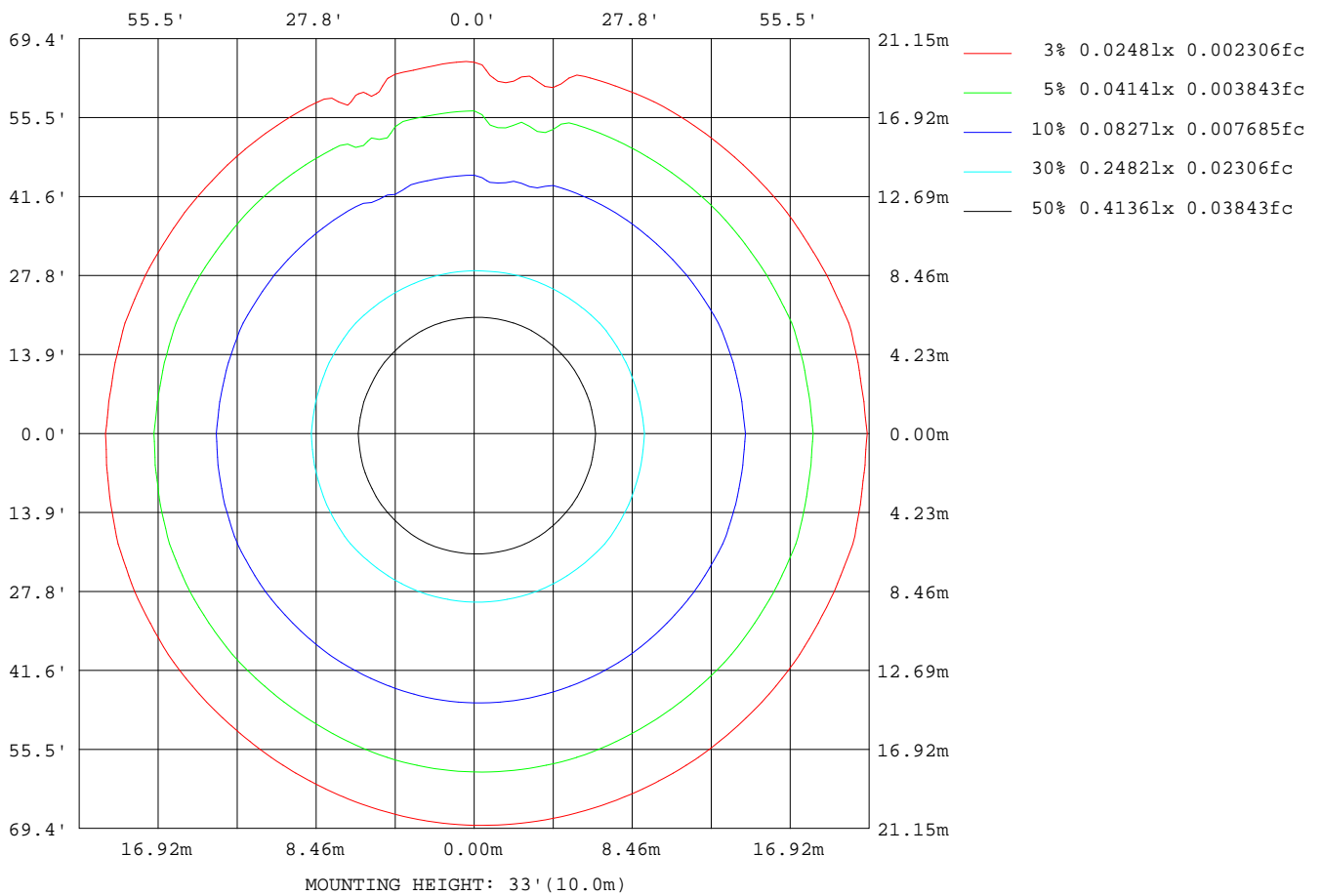


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: Y
 Test Date: 2026-05-11

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:11.91V I:0.2858A P:2.139W PF:0.6283 Lamp Flux:180x1 lm | | |
| NAME: 489162-2700K QUATTRO | TYPE:489162-2700K QUATTRO | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:Y
 Test Date:2026-05-11

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:11.91V I:0.2858A P:2.139W PF:0.6283 Lamp Flux:180x1 lm | | |
| NAME: 489162-2700K QUATTRO | TYPE:489162-2700K QUATTRO | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.: | PROTECTION ANGLE: |

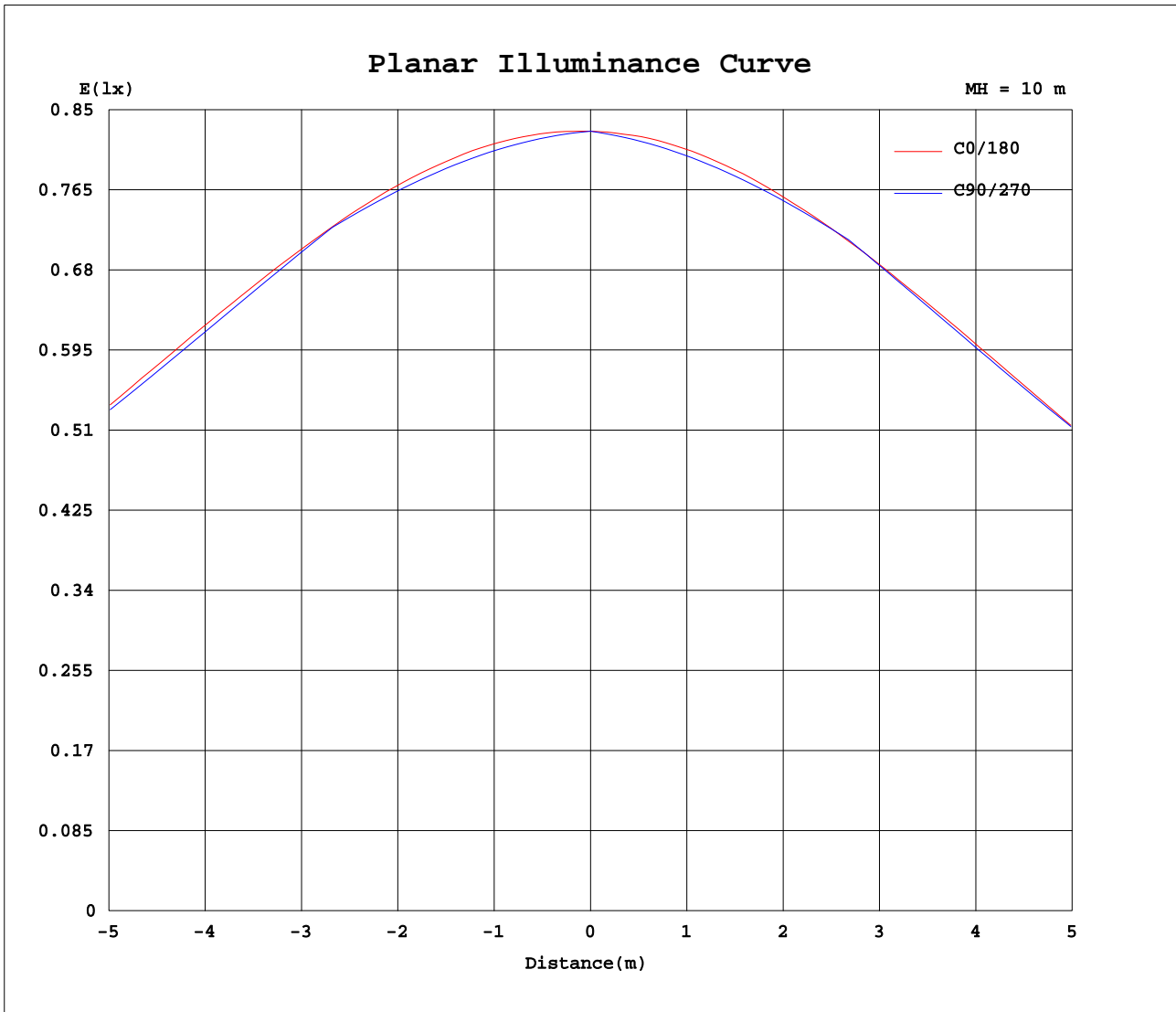
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 322 |
| L_0~180(75)av | 176 |
| L_0~180(85)av | 0 |
| L_90~270(65)av | 325 |
| L_90~270(75)av | 213 |
| L_90~270(85)av | 0 |
| L_45(65)av | 318 |
| L_45(75)av | 221 |
| L_45(85)av | 0 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:Y
Test Date:2026-05-11

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: HIGH
 Temperature: 20DEG
 Operators: Y
 Test Date: 2026-05-11

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:

