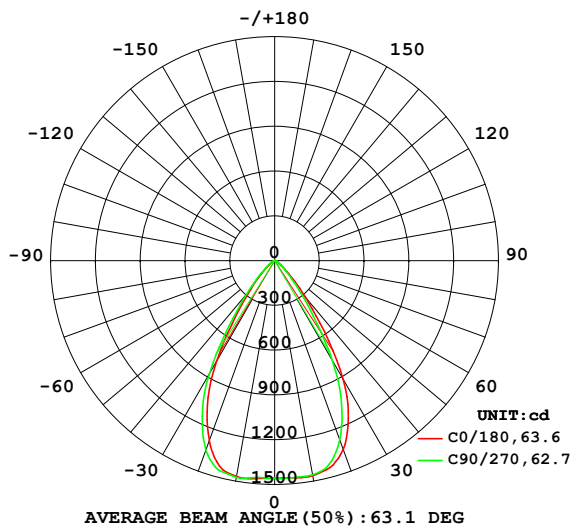


LUMINAIRE PHOTOMETRIC TEST REPORT

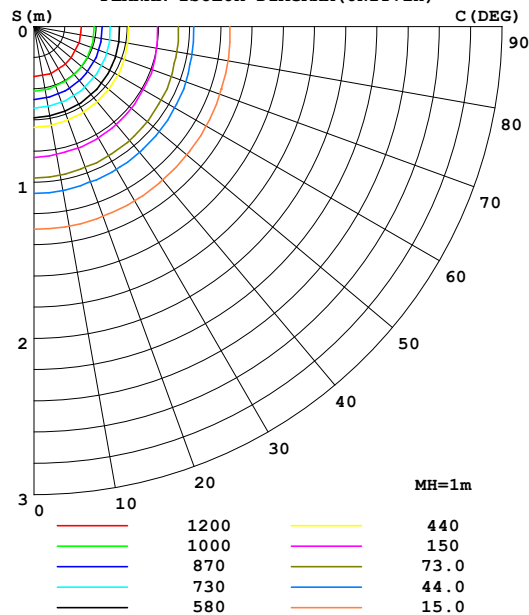
| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0824A P:19.5W PF:0.9832 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:6.71% KDisp:0.9875 Lamp Flux:1540.77x1 lm | | |
| NAME: TR11-20-DW-01+白色防眩环 3000K RA90 60D 20W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA | | | | Eff: 79.10 lm/W |
|------------------|---------|-----------------------|--------|-------------------|--|-----------------|
| MODEL | | I _{max} (cd) | 1482 | S/MH(C0/180) | | 0.90 |
| NOMINAL POWER(W) | 20 | LOR(%) | 100.0 | S/MH(C90/270) | | 0.94 |
| RATED VOLTAGE(V) | 240 | TOTAL FLUX(lm) | 1540.8 | η UP,DN(C0-180) | | 0.0,49.1 |
| NOMINAL FLUX(lm) | 1540.77 | CIE CLASS | DIRECT | η UP,DN(C180-360) | | 0.0,50.9 |
| LAMPS INSIDE | 1 | η up (%) | 0.0 | CIBSE SHR NOM | | 0.75 |
| TEST VOLTAGE(V) | 240.37 | η down (%) | 100.0 | CIBSE SHR MAX | | 0.95 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [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 |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10 | 1463 | 1462 | 1457 | 1448 | 1468 | 1478 | 1475 | 1482 | 0- 10 | 139.8 | 139.8 | 9.07,9.07 |
| 20 | 1346 | 1319 | 1277 | 1222 | 1284 | 1321 | 1348 | 1379 | 10- 20 | 398.8 | 538.6 | 35,35 |
| 30 | 919.4 | 863.3 | 779.7 | 709.0 | 782.3 | 831.4 | 878.0 | 949.8 | 20- 30 | 501.4 | 1040 | 67.5,67.5 |
| 40 | 320.8 | 290.1 | 252.6 | 221.8 | 249.1 | 268.8 | 292.8 | 326.7 | 30- 40 | 324.2 | 1364 | 88.5,88.5 |
| 50 | 90.36 | 83.66 | 73.02 | 62.34 | 70.41 | 78.22 | 84.31 | 93.80 | 40- 50 | 121.4 | 1486 | 96.4,96.4 |
| 60 | 24.52 | 22.77 | 20.67 | 18.70 | 19.34 | 21.43 | 22.46 | 24.62 | 50- 60 | 40.01 | 1526 | 99,99 |
| 70 | 6.705 | 6.305 | 5.736 | 5.424 | 5.372 | 6.183 | 6.175 | 6.585 | 60- 70 | 11.79 | 1537 | 99.8,99.8 |
| 80 | 1.468 | 1.413 | 1.244 | 1.223 | 1.140 | 1.188 | 1.310 | 1.293 | 70- 80 | 2.897 | 1540 | 100,100 |
| 90 | 0.0378 | 0.0248 | 0.0370 | 0.0255 | 0.0272 | 0.0273 | 0.0293 | 0.0245 | 80- 90 | 0.4259 | 1541 | 100,100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

Conical surface Flux(90deg): 1440.9 lm

%lum = 93.5%

%lamp = 93.5%

Conical surface Flux(120deg): 1525.7 lm

%lum = 99.0%

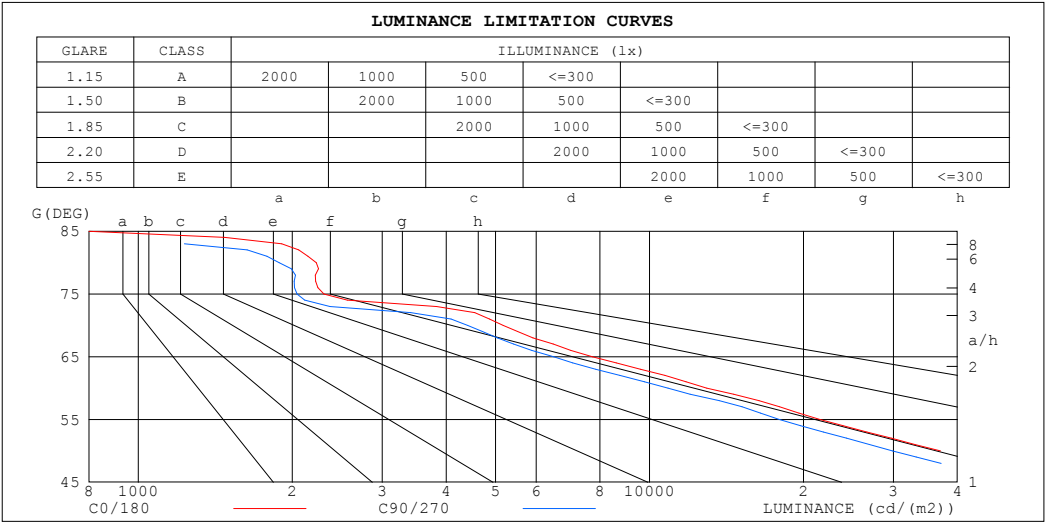
%lamp = 99.0%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0824A P:19.5W PF:0.9832 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:6.71% KDisp:0.9875 Lamp Flux:1540.77x1 lm | | |
| NAME: TR11-20-DW-01+白色防眩环 3000K RA90 60D 20W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G (DEG) | C0/180 | C90/270 |
| 85 | 801 | 356 |
| 80 | 2230 | 1885 |
| 75 | 2307 | 2044 |
| 70 | 5172 | 4411 |
| 65 | 7734 | 6498 |
| 60 | 12937 | 10873 |
| 55 | 21572 | 17952 |
| 50 | 37086 | 29874 |
| 45 | 64231 | 50945 |

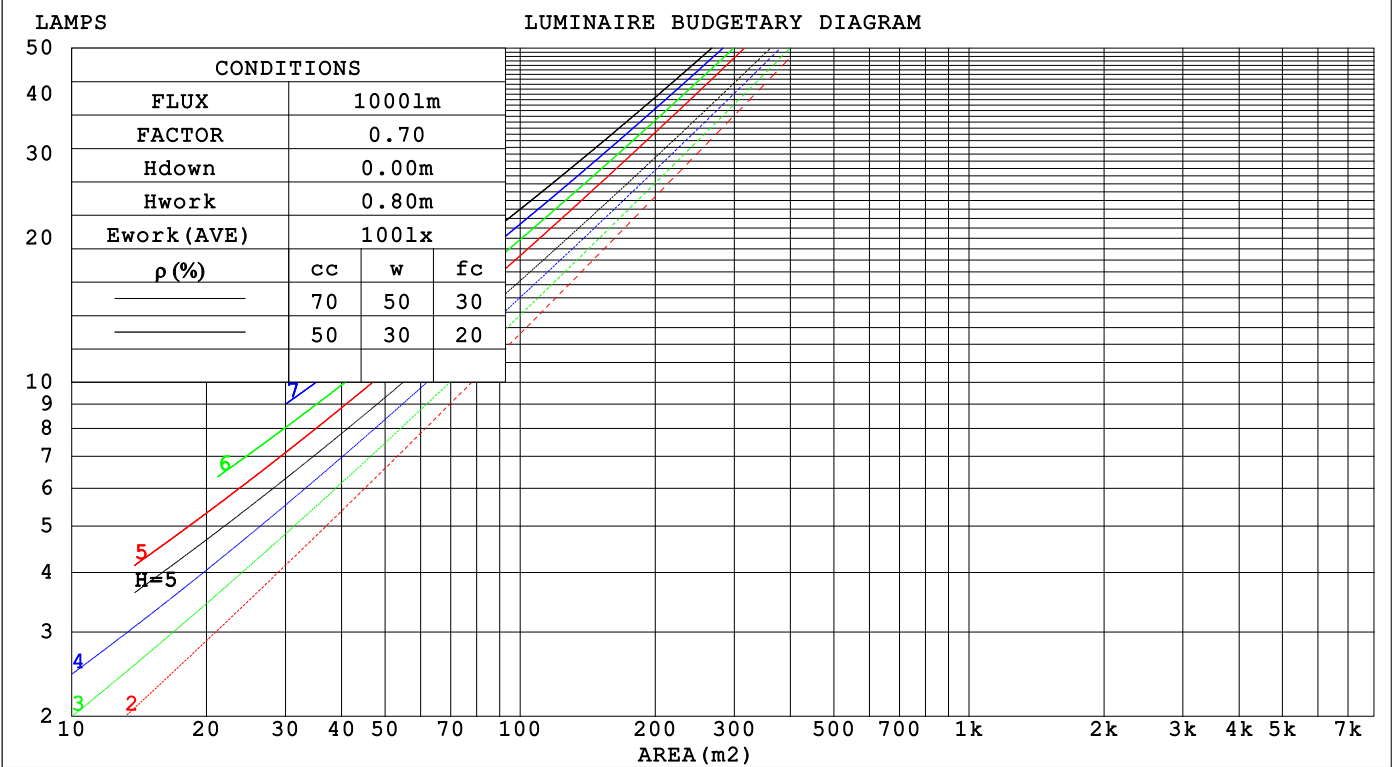
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|------------|------------------|
| Test:U:240.4V I:0.0824A P:19.5W PF:0.9832 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:6.71% KDisp:0.9875 | | |
| Lamp Flux:1540.77x1 lm | | |
| NAME: TR11-20-DW-01+白色防眩环 3000K RA90 60D 20W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |

| pcc | 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 | | | 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 | 1.00 |
| 1.0 | 1.10 | 1.08 | 1.05 | 1.08 | 1.06 | 1.04 | 1.04 | 1.02 | 1.01 | 1.00 | .99 | .98 | .97 | .96 | .95 | .93 |
| 2.0 | 1.02 | .98 | .95 | 1.01 | .97 | .93 | .97 | .94 | .91 | .94 | .92 | .89 | .92 | .89 | .88 | .86 |
| 3.0 | .95 | .90 | .86 | .94 | .89 | .85 | .91 | .87 | .84 | .88 | .85 | .82 | .86 | .83 | .81 | .79 |
| 4.0 | .88 | .83 | .78 | .87 | .82 | .78 | .85 | .80 | .77 | .83 | .79 | .76 | .81 | .78 | .75 | .73 |
| 5.0 | .82 | .76 | .72 | .81 | .76 | .71 | .80 | .75 | .71 | .78 | .74 | .70 | .76 | .73 | .70 | .68 |
| 6.0 | .77 | .71 | .66 | .76 | .70 | .66 | .75 | .69 | .66 | .73 | .69 | .65 | .72 | .68 | .65 | .63 |
| 7.0 | .72 | .66 | .61 | .71 | .65 | .61 | .70 | .65 | .61 | .69 | .64 | .61 | .68 | .64 | .60 | .59 |
| 8.0 | .68 | .61 | .57 | .67 | .61 | .57 | .66 | .61 | .57 | .65 | .60 | .57 | .64 | .60 | .56 | .55 |
| 9.0 | .64 | .58 | .53 | .63 | .57 | .53 | .62 | .57 | .53 | .61 | .56 | .53 | .60 | .56 | .53 | .51 |
| 10.0 | .60 | .54 | .50 | .60 | .54 | .50 | .59 | .54 | .50 | .58 | .53 | .50 | .57 | .53 | .50 | .48 |



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0824A P:19.5W PF:0.9832 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:6.71% KDisp:0.9875 Lamp Flux:1540.77x1 lm | | |
| NAME: TR11-20-DW-01+白色防眩环 3000K RA90 60D 20W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 | | | | | | | | | | | | | | |
|------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 | | | | | | | | | | | | | | |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 | | | | | | | | | | | | | | |
| RCR | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0 | .185 | .105 | .033 | .178 | .102 | .032 | .166 | .095 | .030 | .154 | .089 | .029 | .143 | .083 | .027 | | | | | | | | | | | | | | | |
| 2.0 | .178 | .098 | .030 | .173 | .095 | .029 | .162 | .090 | .028 | .152 | .085 | .027 | .143 | .081 | .025 | | | | | | | | | | | | | | | |
| 3.0 | .170 | .091 | .027 | .165 | .089 | .027 | .156 | .085 | .026 | .148 | .081 | .025 | .140 | .077 | .024 | | | | | | | | | | | | | | | |
| 4.0 | .162 | .084 | .025 | .158 | .083 | .024 | .150 | .080 | .024 | .143 | .077 | .023 | .136 | .074 | .023 | | | | | | | | | | | | | | | |
| 5.0 | .155 | .079 | .023 | .151 | .078 | .023 | .144 | .075 | .022 | .138 | .073 | .022 | .132 | .070 | .021 | | | | | | | | | | | | | | | |
| 6.0 | .148 | .074 | .021 | .144 | .073 | .021 | .138 | .071 | .021 | .133 | .069 | .020 | .127 | .067 | .020 | | | | | | | | | | | | | | | |
| 7.0 | .141 | .070 | .020 | .138 | .069 | .020 | .133 | .067 | .019 | .128 | .065 | .019 | .123 | .064 | .019 | | | | | | | | | | | | | | | |
| 8.0 | .135 | .066 | .019 | .132 | .065 | .018 | .127 | .064 | .018 | .123 | .062 | .018 | .119 | .061 | .018 | | | | | | | | | | | | | | | |
| 9.0 | .129 | .062 | .017 | .127 | .062 | .017 | .122 | .061 | .017 | .118 | .059 | .017 | .114 | .058 | .017 | | | | | | | | | | | | | | | |
| 10.0 | .124 | .059 | .016 | .122 | .059 | .016 | .118 | .058 | .016 | .114 | .057 | .016 | .110 | .056 | .016 | | | | | | | | | | | | | | | |

| pcc | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|-----------------------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|---|
| pw | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| pfc | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| RCR | RCR:Room Cavity Ratio | | | | | | Ceiling Cavity Exitance Coefficients(CCEC) | | | | | | | | | |
| 0.0 | .190 | .190 | .190 | .163 | .163 | .163 | .111 | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 | |
| 1.0 | .172 | .157 | .144 | .147 | .135 | .124 | .100 | .093 | .086 | .058 | .054 | .050 | .019 | .017 | .016 | |
| 2.0 | .157 | .132 | .112 | .135 | .114 | .097 | .092 | .079 | .067 | .053 | .046 | .039 | .017 | .015 | .013 | |
| 3.0 | .145 | .114 | .088 | .125 | .098 | .077 | .086 | .068 | .054 | .049 | .040 | .032 | .016 | .013 | .010 | |
| 4.0 | .135 | .099 | .071 | .116 | .086 | .062 | .080 | .060 | .044 | .046 | .035 | .026 | .015 | .011 | .008 | |
| 5.0 | .127 | .088 | .058 | .109 | .076 | .051 | .075 | .053 | .036 | .044 | .031 | .021 | .014 | .010 | .007 | |
| 6.0 | .120 | .078 | .049 | .103 | .068 | .042 | .071 | .048 | .030 | .041 | .028 | .018 | .013 | .009 | .006 | |
| 7.0 | .114 | .071 | .041 | .098 | .062 | .036 | .068 | .043 | .025 | .039 | .025 | .015 | .013 | .008 | .005 | |
| 8.0 | .108 | .065 | .035 | .093 | .056 | .031 | .064 | .039 | .022 | .037 | .023 | .013 | .012 | .008 | .004 | |
| 9.0 | .103 | .060 | .031 | .089 | .052 | .027 | .061 | .036 | .019 | .036 | .022 | .011 | .012 | .007 | .004 | |
| 10.0 | .098 | .055 | .027 | .085 | .048 | .023 | .059 | .034 | .017 | .034 | .020 | .010 | .011 | .007 | .003 | |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|------|----------------|------|------------------|------|------|
| Test:U:240.4V I:0.0824A P:19.5W PF:0.9832 Freq:49.99Hz | | | | | | | | | | |
| UTHDi:0.17% ITHDi:6.71% KDisp:0.9875Lamp Flux:1540.77x1 lm | | | | | | | | | | |
| NAME: TR11-20-DW-01+白色防眩环 3000K RA90 60D 20W | | | | | | TYPE: | | WEIGHT: | | |
| SPEC.: | | | | | | DIM.: | | SERIAL No.: | | |
| MFR.: Norming lighting | | | | | | SUR.: 70mm | | Shielding Angle: | | |
| | | | | | | | | | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | 22.9 | 23.9 | 23.2 | 24.1 | 24.3 | 22.1 | 23.1 | 22.3 | 23.2 | 23.4 |
| 3H | 22.8 | 23.7 | 23.1 | 23.9 | 24.1 | 21.9 | 22.8 | 22.2 | 23.1 | 23.3 |
| 4H | 22.7 | 23.6 | 23.0 | 23.8 | 24.0 | 21.8 | 22.7 | 22.1 | 22.9 | 23.2 |
| 6H | 22.6 | 23.4 | 22.9 | 23.7 | 23.9 | 21.8 | 22.6 | 22.1 | 22.8 | 23.1 |
| 8H | 22.6 | 23.4 | 22.9 | 23.6 | 23.9 | 21.7 | 22.5 | 22.0 | 22.8 | 23.0 |
| 12H | 22.5 | 23.3 | 22.9 | 23.6 | 23.8 | 21.7 | 22.4 | 22.0 | 22.7 | 23.0 |
| 4H 2H | 22.7 | 23.6 | 23.0 | 23.8 | 24.0 | 21.9 | 22.7 | 22.2 | 23.0 | 23.2 |
| 3H | 22.6 | 23.3 | 22.9 | 23.6 | 23.9 | 21.7 | 22.5 | 22.1 | 22.8 | 23.0 |
| 4H | 22.5 | 23.2 | 22.9 | 23.5 | 23.8 | 21.7 | 22.3 | 22.0 | 22.6 | 22.9 |
| 6H | 22.4 | 23.0 | 22.8 | 23.4 | 23.7 | 21.6 | 22.2 | 21.9 | 22.5 | 22.8 |
| 8H | 22.4 | 22.9 | 22.8 | 23.3 | 23.7 | 21.5 | 22.1 | 21.9 | 22.4 | 22.8 |
| 12H | 22.3 | 22.8 | 22.7 | 23.2 | 23.6 | 21.5 | 22.0 | 21.9 | 22.3 | 22.7 |
| 8H 4H | 22.4 | 22.9 | 22.8 | 23.3 | 23.6 | 21.5 | 22.1 | 21.9 | 22.4 | 22.8 |
| 6H | 22.3 | 22.7 | 22.7 | 23.1 | 23.5 | 21.4 | 21.9 | 21.9 | 22.3 | 22.7 |
| 8H | 22.2 | 22.6 | 22.7 | 23.1 | 23.5 | 21.4 | 21.8 | 21.8 | 22.2 | 22.6 |
| 12H | 22.2 | 22.5 | 22.7 | 23.0 | 23.4 | 21.3 | 21.7 | 21.8 | 22.1 | 22.6 |
| 12H 4H | 22.3 | 22.8 | 22.7 | 23.2 | 23.6 | 21.5 | 22.0 | 21.9 | 22.3 | 22.7 |
| 6H | 22.2 | 22.6 | 22.7 | 23.1 | 23.5 | 21.4 | 21.8 | 21.8 | 22.2 | 22.6 |
| 8H | 22.2 | 22.5 | 22.7 | 23.0 | 23.4 | 21.3 | 21.7 | 21.8 | 22.1 | 22.6 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 2.9 / - 6.7 | | | | | + 2.3 / - 6.6 | | | | |
| 1.5H | + 4.5 / - 5.2 | | | | | + 3.7 / - 4.6 | | | | |
| 2.0H | + 5.2 / - 6.1 | | | | | + 4.6 / - 5.7 | | | | |

CIE Pub.117, 1541 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.5$)
Area: 0.0038 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0824A P:19.5W PF:0.9832 Freq:49.99Hz UTHDi:0.17% ITHDi:6.71% KDisp:0.9875 Lamp Flux:1540.77x1 lm | | |
| NAME: TR11-20-DW-01+白色防眩环 3000K RA90 60D 20W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |

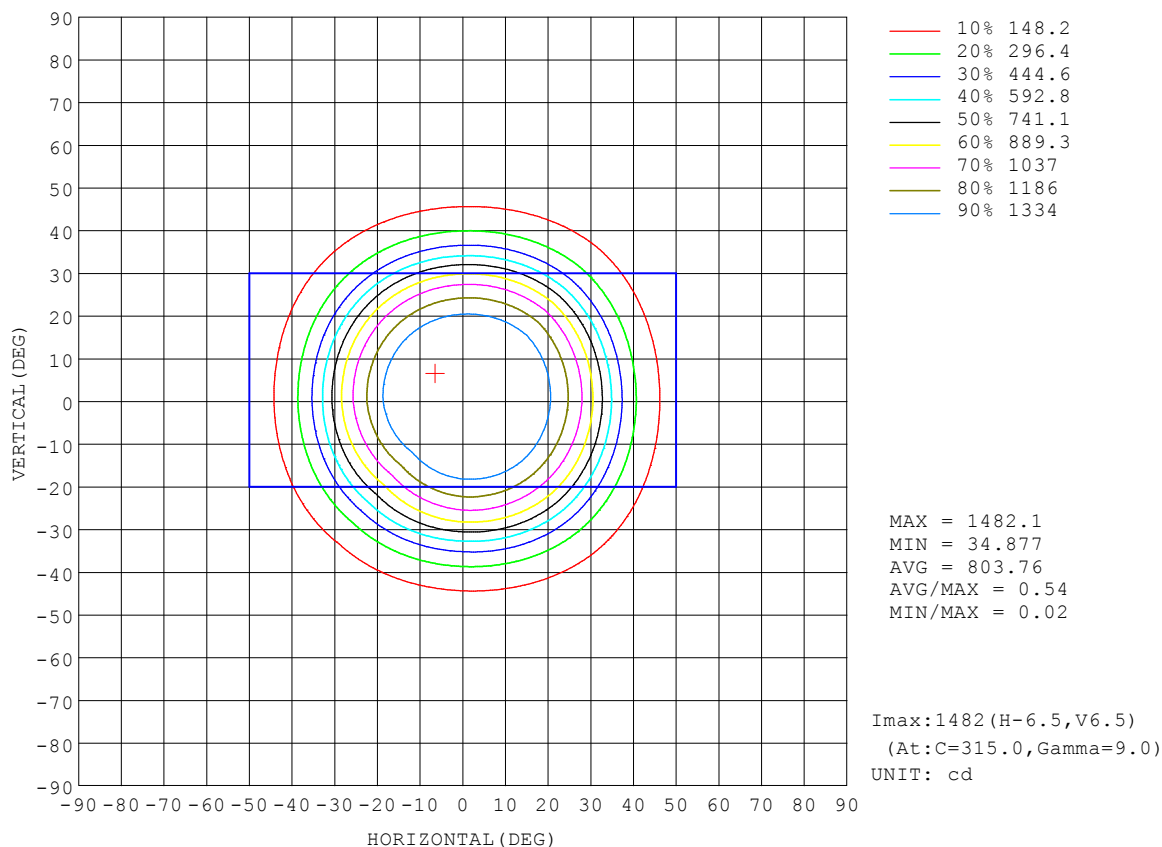
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 84 | 77 | 73 | 84 | 77 | 73 | 83 | 77 | 73 | 69 |
| 0.80 | 92 | 86 | 82 | 92 | 85 | 82 | 90 | 85 | 81 | 77 |
| 1.00 | 97 | 91 | 87 | 96 | 91 | 87 | 95 | 91 | 87 | 82 |
| 1.25 | 102 | 96 | 92 | 101 | 96 | 92 | 99 | 94 | 91 | 87 |
| 1.50 | 105 | 100 | 96 | 103 | 99 | 96 | 101 | 97 | 94 | 90 |
| 2.00 | 108 | 103 | 100 | 106 | 102 | 99 | 104 | 100 | 98 | 92 |
| 2.50 | 110 | 105 | 102 | 108 | 104 | 101 | 105 | 102 | 100 | 93 |
| 3.00 | 111 | 108 | 105 | 109 | 106 | 104 | 106 | 103 | 101 | 95 |
| 4.00 | 113 | 110 | 108 | 111 | 109 | 107 | 108 | 106 | 104 | 97 |
| 5.00 | 115 | 112 | 110 | 112 | 110 | 109 | 108 | 107 | 105 | 98 |
| ROOM INDEX | UF (total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-08-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0824A P:19.5W PF:0.9832 Freq:49.99Hz UTHDi:0.17% ITHDi:6.71% KDisp:0.9875 Lamp Flux:1540.77x1 lm | | |
| NAME: TR11-20-DW-01+白色防眩环 3000K RA90 60D 20W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |

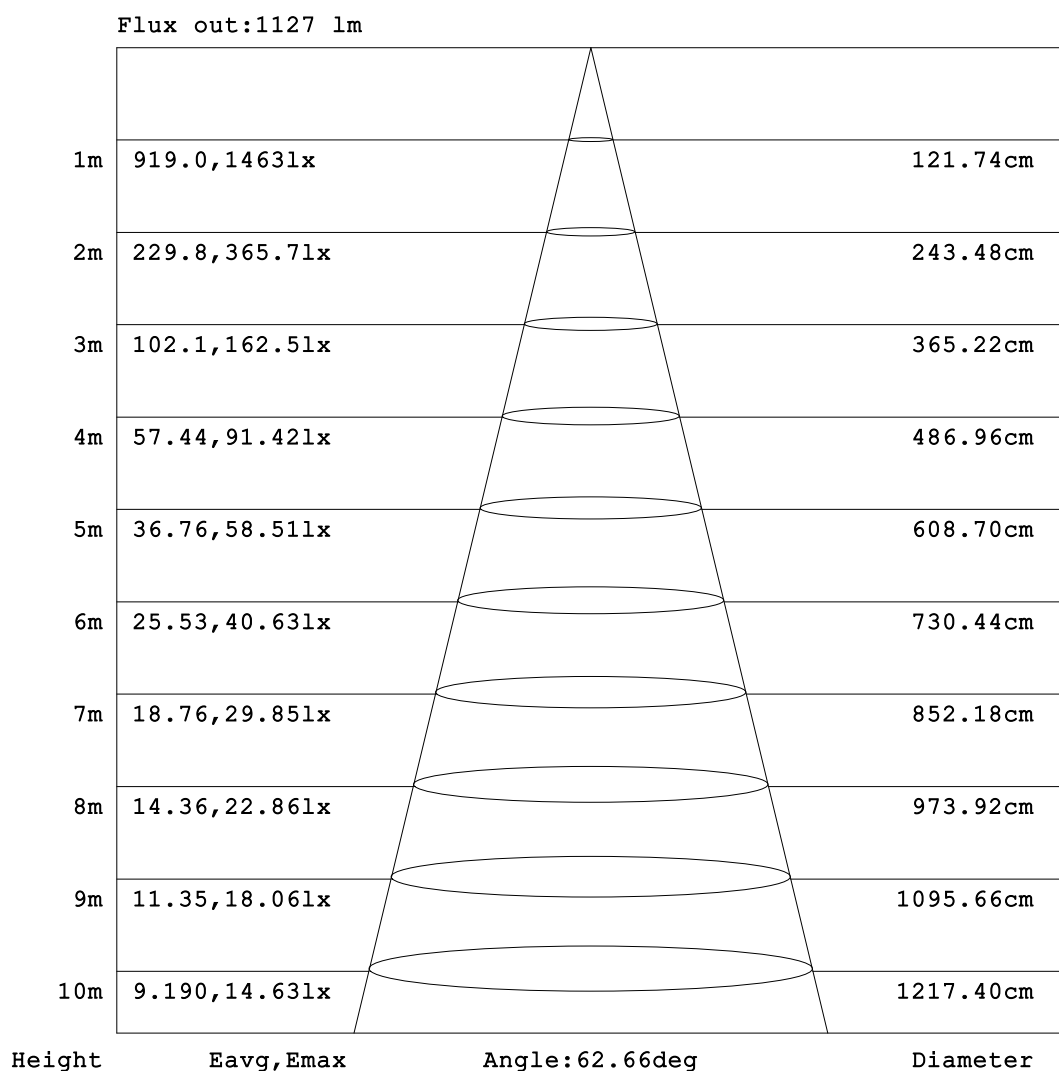


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0824A P:19.5W PF:0.9832 Freq:49.99Hz | | |
| UTHDi:0.17% ITHDi:6.71% KDisp:0.9875 Lamp Flux:1540.77x1 lm | | |
| NAME: TR11-20-DW-01+白色防眩环 3000K RA90 60D 20W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |



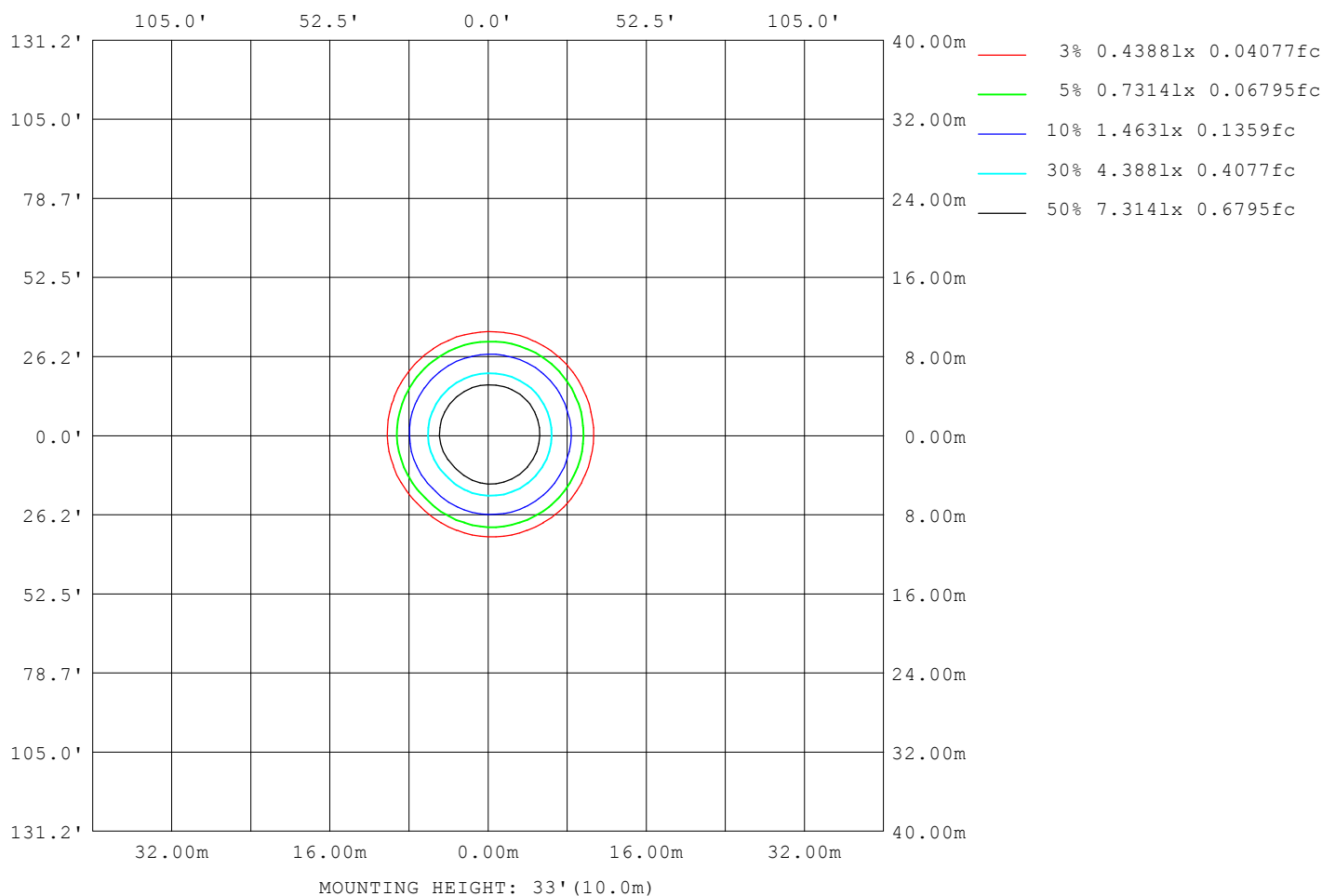
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-08-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0824A P:19.5W PF:0.9832 Freq:49.99Hz UTHDi:0.17% ITHDi:6.71% KDisp:0.9875 Lamp Flux:1540.77x1 lm | | |
| NAME: TR11-20-DW-01+白色防眩环 3000K RA90 60D 20W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-08-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|---|------------|------------------|
| Test:U:240.4V I:0.0824A P:19.5W PF:0.9832 Freq:49.99Hz UTHDi:0.17% ITHDi:6.71% KDisp:0.9875 Lamp Flux:1540.77x1 lm | | |
| NAME: TR11-20-DW-01+白色防眩环 3000K RA90 60D 20W | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: Norming lighting | SUR.: 70mm | Shielding Angle: |

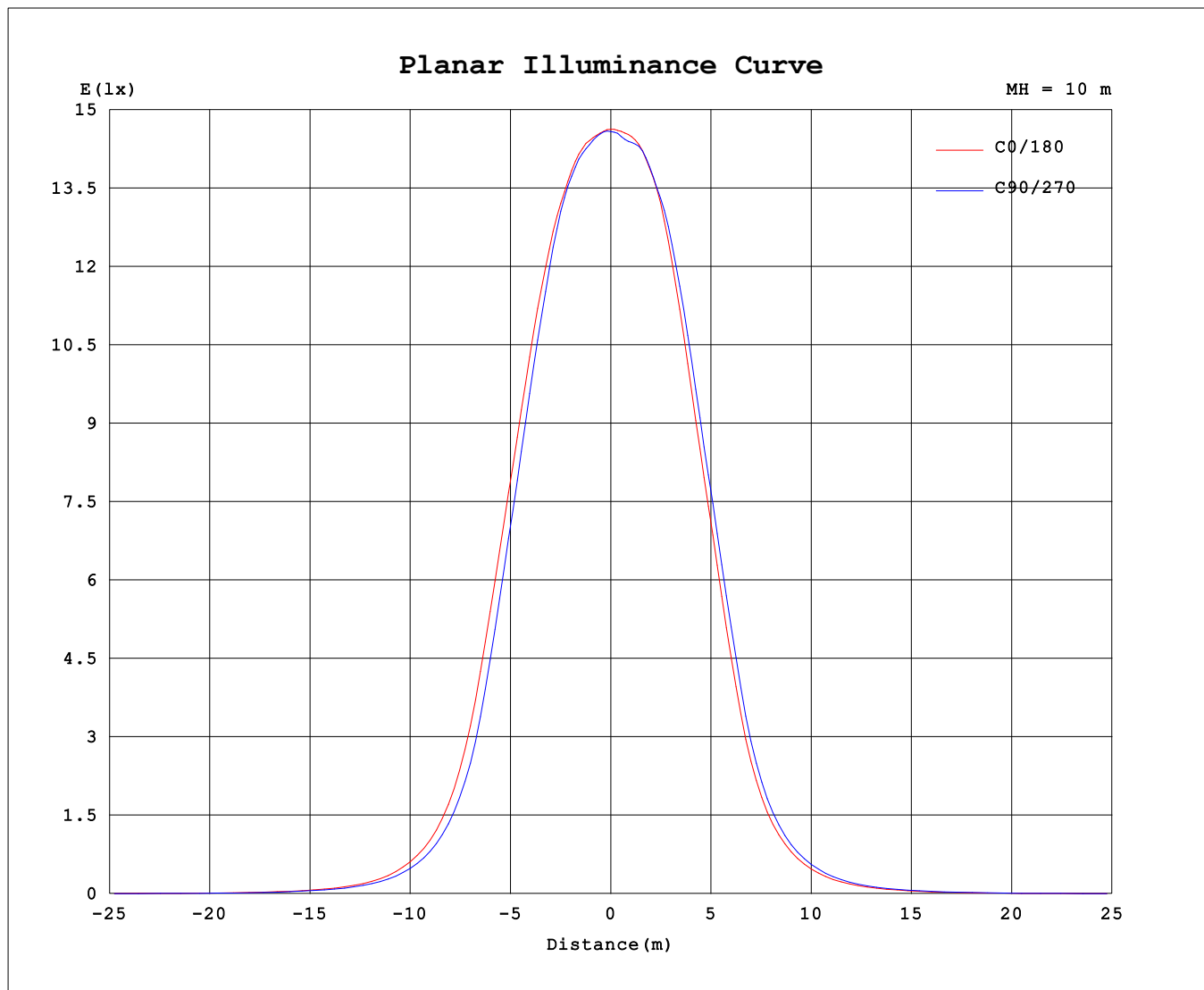
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 6846 |
| L_0~180 (75) av | 2132 |
| L_0~180 (85) av | 541 |
| L_90~270 (65) av | 6737 |
| L_90~270 (75) av | 2110 |
| L_90~270 (85) av | 352 |
| L_45 (65) av | 6819 |
| L_45 (75) av | 2117 |
| L_45 (85) av | 375 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-14

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-08-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity: 65.0%
Test Distance: 3.090m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

| G/C | 0.0 | 45.0 | 90.0 | 135.0 | 180.0 | 225.0 | 270.0 | 315.0 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 1459 | 1459 | 1459 | 1459 | 1459 | 1459 | 1459 | 1459 |
| 3.0 | 1458 | 1458 | 1460 | 1456 | 1461 | 1456 | 1456 | 1457 |
| 6.0 | 1461 | 1460 | 1458 | 1457 | 1469 | 1470 | 1462 | 1466 |
| 9.0 | 1465 | 1463 | 1460 | 1453 | 1472 | 1480 | 1475 | 1482 |
| 12.0 | 1453 | 1454 | 1448 | 1431 | 1459 | 1467 | 1466 | 1476 |
| 15.0 | 1435 | 1433 | 1413 | 1386 | 1425 | 1438 | 1452 | 1464 |
| 18.0 | 1390 | 1374 | 1340 | 1298 | 1350 | 1380 | 1401 | 1419 |
| 21.0 | 1318 | 1284 | 1241 | 1177 | 1244 | 1284 | 1314 | 1352 |
| 24.0 | 1211 | 1163 | 1111 | 1030 | 1113 | 1154 | 1195 | 1244 |
| 27.0 | 1081 | 1021 | 961.2 | 874.4 | 967.6 | 1014 | 1056 | 1116 |
| 30.0 | 919.4 | 863.3 | 779.7 | 709.0 | 782.3 | 831.4 | 878.0 | 949.8 |
| 33.0 | 719.1 | 664.8 | 574.9 | 529.4 | 580.5 | 626.1 | 668.1 | 742.8 |
| 36.0 | 519.9 | 475.9 | 405.4 | 364.4 | 407.6 | 440.6 | 472.1 | 530.1 |
| 39.0 | 363.1 | 329.2 | 284.8 | 249.9 | 281.6 | 304.0 | 330.7 | 368.4 |
| 42.0 | 250.0 | 228.9 | 198.3 | 170.5 | 195.4 | 210.8 | 229.4 | 256.5 |
| 45.0 | 172.2 | 158.6 | 137.0 | 116.6 | 134.1 | 146.2 | 159.2 | 177.4 |
| 48.0 | 116.2 | 108.2 | 94.62 | 79.92 | 91.06 | 100.4 | 108.9 | 120.7 |
| 51.0 | 78.84 | 73.49 | 64.42 | 55.26 | 61.97 | 69.04 | 74.18 | 81.83 |
| 54.0 | 53.20 | 49.80 | 44.05 | 38.84 | 42.74 | 47.56 | 50.28 | 55.29 |
| 57.0 | 37.06 | 34.84 | 31.40 | 28.11 | 29.52 | 32.83 | 35.12 | 38.58 |
| 60.0 | 24.52 | 22.77 | 20.67 | 18.70 | 19.34 | 21.43 | 22.46 | 24.62 |
| 63.0 | 16.53 | 14.98 | 13.54 | 12.16 | 12.53 | 14.33 | 14.70 | 16.05 |
| 66.0 | 10.80 | 9.926 | 9.097 | 8.321 | 8.487 | 9.856 | 9.861 | 10.58 |
| 69.0 | 7.495 | 7.028 | 6.414 | 6.045 | 6.056 | 6.954 | 6.913 | 7.391 |
| 72.0 | 5.326 | 4.792 | 4.010 | 3.420 | 2.948 | 4.065 | 4.649 | 5.071 |
| 75.0 | 2.263 | 2.161 | 2.012 | 2.057 | 1.931 | 2.011 | 2.138 | 2.102 |
| 78.0 | 1.750 | 1.725 | 1.603 | 1.653 | 1.529 | 1.568 | 1.657 | 1.580 |
| 81.0 | 1.272 | 1.211 | 1.062 | 1.016 | 0.9316 | 0.9943 | 1.130 | 1.126 |
| 84.0 | 0.5842 | 0.4310 | 0.2437 | 0.1294 | 0.1239 | 0.1639 | 0.3336 | 0.4613 |
| 87.0 | 0.0941 | 0.0705 | 0.0737 | 0.0518 | 0.0556 | 0.0526 | 0.0738 | 0.0722 |
| 90.0 | 0.0378 | 0.0248 | 0.0370 | 0.0255 | 0.0272 | 0.0273 | 0.0293 | 0.0245 |

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-08-14

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.453
Humidity:65.0%
Test Distance:3.090m [K=1.0000]
Remarks: