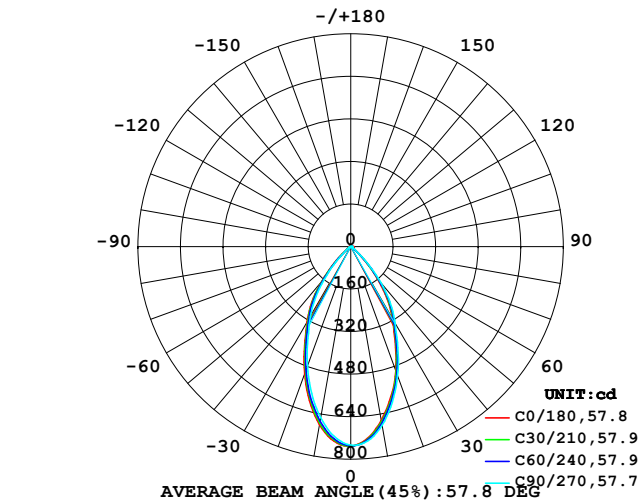


LUMINAIRE PHOTOMETRIC TEST REPORT

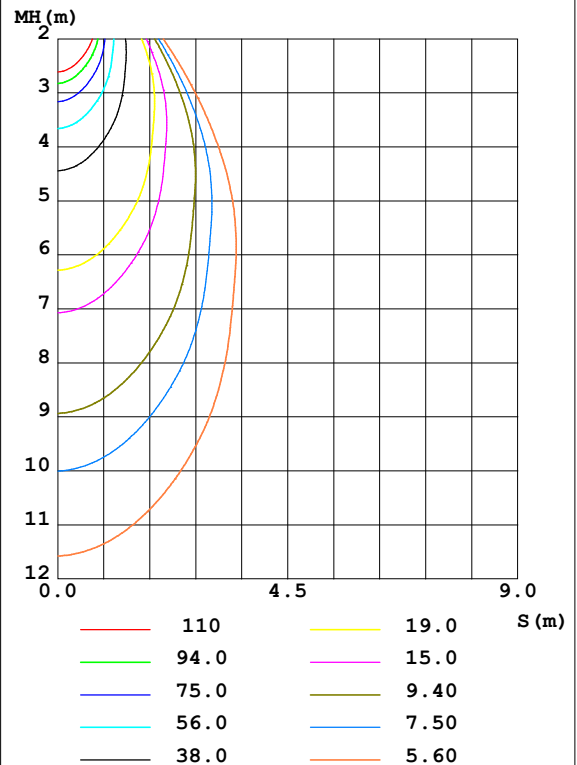
| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | Shielding Angle: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 81.08 lm/W | | | |
|------------------|---------|----------------------------------|--------|-------------------|----------|
| MODEL | | I _{max} (cd) | 751.3 | S/MH(C0/180) | 0.81 |
| NOMINAL POWER(W) | | LOR(%) | 100.0 | S/MH(C90/270) | 0.77 |
| RATED VOLTAGE(V) | 24 | TOTAL FLUX(lm) | 663.54 | η UP,DN(C0-180) | 0.1,53.1 |
| NOMINAL FLUX(lm) | 663.543 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.1,46.8 |
| LAMPS INSIDE | 1 | η up(%) | 0.2 | CIBSE SHR NOM | 0.75 |
| TEST VOLTAGE(V) | 24 | η down(%) | 99.8 | CIBSE SHR MAX | 0.90 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENPU
Test Date:2025-12-29

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

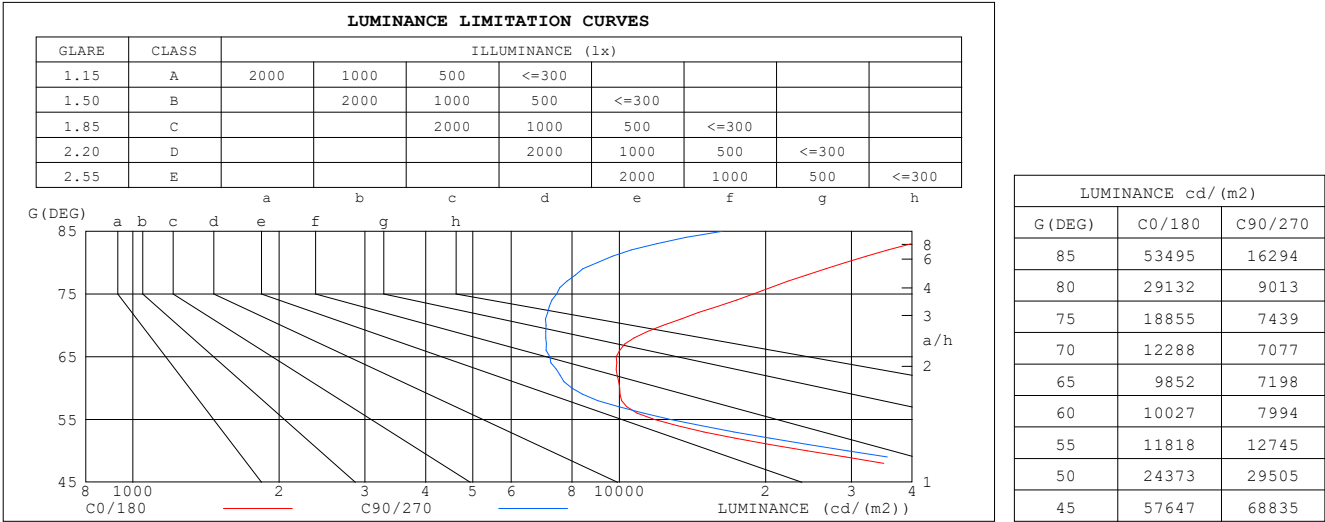
| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum,lamp |
|----------|-----------------------|--------|--------|--------|-------|--------|--------|--------|----------|-------------|--------------|-----------|
| 10 | 663.4 | 674.8 | 682.4 | 704.9 | 679.7 | 666.9 | 653.4 | 630.9 | 0- 10 | 67.50 | 67.50 | 10.2,10.2 |
| 20 | 496.4 | 509.0 | 516.9 | 548.4 | 507.3 | 492.7 | 476.5 | 452.2 | 10- 20 | 164.3 | 231.8 | 34.9,34.9 |
| 30 | 314.9 | 326.9 | 334.9 | 358.0 | 329.8 | 318.1 | 303.9 | 282.7 | 20- 30 | 185.3 | 417.1 | 62.9,62.9 |
| 40 | 153.2 | 169.5 | 176.5 | 203.7 | 168.4 | 154.8 | 141.9 | 119.9 | 30- 40 | 151.5 | 568.6 | 85.7,85.7 |
| 50 | 29.77 | 32.31 | 36.03 | 52.47 | 35.75 | 28.38 | 25.48 | 19.46 | 40- 50 | 66.46 | 635.1 | 95.7,95.7 |
| 60 | 9.525 | 7.175 | 7.594 | 8.450 | 9.065 | 6.624 | 6.749 | 6.277 | 50- 60 | 13.75 | 648.8 | 97.8,97.8 |
| 70 | 7.985 | 4.356 | 4.599 | 4.613 | 6.648 | 3.490 | 3.805 | 3.765 | 60- 70 | 5.987 | 654.8 | 98.7,98.7 |
| 80 | 9.611 | 2.821 | 2.974 | 3.007 | 7.790 | 1.670 | 2.102 | 2.415 | 70- 80 | 4.385 | 659.2 | 99.3,99.3 |
| 90 | 4.420 | 0.2929 | 1.144 | 3.061 | 3.856 | 0.1612 | 0.0089 | 0.1952 | 80- 90 | 3.246 | 662.4 | 99.8,99.8 |
| 100 | 3.568 | 0.3106 | 0.1331 | 0.2751 | 3.000 | 0.1420 | 0.0178 | 0.1775 | 90-100 | 1.069 | 663.5 | 100,100 |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100-110 | 0.0483 | 663.5 | 100,100 |
| 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110-120 | 0 | 663.5 | 100,100 |
| 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120-130 | 0 | 663.5 | 100,100 |
| 140 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130-140 | 0 | 663.5 | 100,100 |
| 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140-150 | 0 | 663.5 | 100,100 |
| 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150-160 | 0 | 663.5 | 100,100 |
| 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160-170 | 0 | 663.5 | 100,100 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170-180 | 0 | 663.5 | 100,100 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:SENPU
 Test Date:2025-12-29

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
 Humidity:61%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | Shielding Angle: |



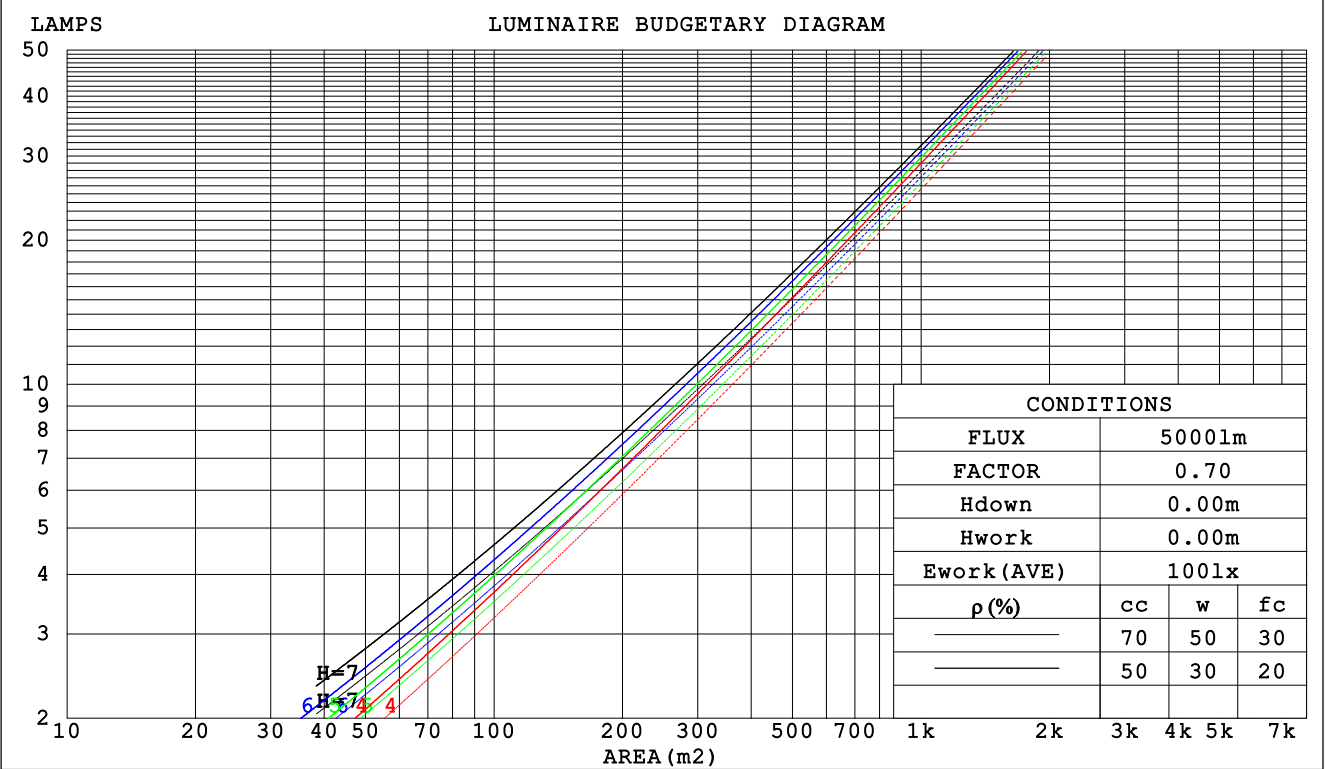
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENPU
Test Date:2025-12-29

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz | | |
| Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | 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 | | | | | | Coefficients of Utilization(CU) | | | | | | | | | |
| 0.0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0 | 1.10 | 1.07 | 1.05 | 1.08 | 1.05 | 1.03 | 1.04 | 1.02 | .00 | .00 | .98 | .97 | .96 | .95 | .94 | .92 |
| 2.0 | 1.02 | .97 | .94 | .00 | .96 | .92 | .96 | .93 | .90 | .93 | .91 | .88 | .91 | .88 | .87 | .85 |
| 3.0 | .94 | .89 | .84 | .93 | .88 | .84 | .90 | .86 | .82 | .87 | .84 | .81 | .85 | .82 | .80 | .78 |
| 4.0 | .87 | .81 | .77 | .86 | .81 | .76 | .84 | .79 | .76 | .82 | .78 | .75 | .80 | .77 | .74 | .72 |
| 5.0 | .81 | .75 | .71 | .80 | .75 | .70 | .79 | .74 | .70 | .77 | .72 | .69 | .75 | .71 | .68 | .67 |
| 6.0 | .76 | .70 | .65 | .75 | .69 | .65 | .74 | .68 | .64 | .72 | .68 | .64 | .71 | .67 | .63 | .62 |
| 7.0 | .71 | .65 | .60 | .70 | .64 | .60 | .69 | .64 | .60 | .68 | .63 | .59 | .67 | .62 | .59 | .58 |
| 8.0 | .67 | .60 | .56 | .66 | .60 | .56 | .65 | .60 | .56 | .64 | .59 | .55 | .63 | .59 | .55 | .54 |
| 9.0 | .63 | .57 | .52 | .62 | .56 | .52 | .61 | .56 | .52 | .60 | .55 | .52 | .60 | .55 | .52 | .50 |
| 10.0 | .59 | .53 | .49 | .59 | .53 | .49 | .58 | .53 | .49 | .57 | .52 | .49 | .56 | .52 | .49 | .47 |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENPU
Test Date:2025-12-29

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

WEC AND CCEC

| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | 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 | .194 | .110 | .035 | .187 | .107 | .034 | .174 | .100 | .032 | .163 | .094 | .030 | .152 | .088 | .028 | | |
| 2.0 | .185 | .101 | .031 | .179 | .099 | .030 | .168 | .094 | .029 | .158 | .089 | .028 | .149 | .084 | .027 | | |
| 3.0 | .175 | .093 | .028 | .170 | .091 | .027 | .161 | .087 | .027 | .153 | .084 | .026 | .145 | .080 | .025 | | |
| 4.0 | .166 | .087 | .025 | .162 | .085 | .025 | .154 | .082 | .024 | .147 | .079 | .024 | .140 | .076 | .023 | | |
| 5.0 | .158 | .081 | .023 | .154 | .079 | .023 | .147 | .077 | .023 | .141 | .074 | .022 | .135 | .072 | .022 | | |
| 6.0 | .151 | .075 | .022 | .147 | .074 | .021 | .141 | .072 | .021 | .135 | .070 | .021 | .130 | .068 | .020 | | |
| 7.0 | .143 | .071 | .020 | .141 | .070 | .020 | .135 | .068 | .020 | .130 | .067 | .019 | .125 | .065 | .019 | | |
| 8.0 | .137 | .067 | .019 | .134 | .066 | .019 | .129 | .065 | .018 | .125 | .063 | .018 | .120 | .062 | .018 | | |
| 9.0 | .131 | .063 | .018 | .129 | .063 | .018 | .124 | .061 | .017 | .120 | .060 | .017 | .116 | .059 | .017 | | |
| 10.0 | .125 | .060 | .017 | .123 | .059 | .017 | .119 | .058 | .016 | .115 | .057 | .016 | .112 | .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 | .192 | .192 | .192 | .164 | .164 | .164 | .112 | .112 | .112 | .064 | .064 | .064 | .021 | .021 | .021 | |
| 1.0 | .174 | .158 | .145 | .149 | .136 | .125 | .102 | .094 | .086 | .058 | .054 | .050 | .019 | .017 | .016 | |
| 2.0 | .159 | .134 | .112 | .136 | .115 | .097 | .093 | .080 | .068 | .054 | .046 | .040 | .017 | .015 | .013 | |
| 3.0 | .148 | .115 | .089 | .127 | .099 | .077 | .087 | .069 | .054 | .050 | .040 | .032 | .016 | .013 | .010 | |
| 4.0 | .138 | .100 | .072 | .118 | .087 | .063 | .081 | .060 | .044 | .047 | .035 | .026 | .015 | .012 | .009 | |
| 5.0 | .129 | .089 | .059 | .111 | .077 | .052 | .077 | .054 | .036 | .044 | .032 | .022 | .014 | .010 | .007 | |
| 6.0 | .122 | .080 | .050 | .105 | .069 | .043 | .072 | .048 | .031 | .042 | .028 | .018 | .014 | .009 | .006 | |
| 7.0 | .116 | .072 | .042 | .100 | .063 | .037 | .069 | .044 | .026 | .040 | .026 | .015 | .013 | .008 | .005 | |
| 8.0 | .110 | .066 | .036 | .095 | .058 | .032 | .066 | .040 | .022 | .038 | .024 | .013 | .012 | .008 | .004 | |
| 9.0 | .105 | .061 | .032 | .091 | .053 | .028 | .063 | .037 | .020 | .037 | .022 | .012 | .012 | .007 | .004 | |
| 10.0 | .100 | .057 | .028 | .087 | .049 | .024 | .060 | .035 | .017 | .035 | .021 | .010 | .011 | .007 | .003 | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENPU
Test Date:2025-12-29

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|--|------------------|------|------|------|-------|----------------|------|------------------------|------|------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | | | | | | | | | |
| NAME: 22408-4000R | | | | | TYPE: | | | WEIGHT: | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: 2025122904 | | |
| MFR.: | | | | | SUR.: | | | 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 | 22.5 | 23.6 | 22.8 | 23.7 | 23.9 | 22.9 | 23.9 | 23.1 | 24.1 | 24.2 |
| 3H | 22.5 | 23.5 | 22.8 | 23.7 | 23.9 | 22.7 | 23.7 | 23.0 | 23.9 | 24.1 |
| 4H | 22.7 | 23.6 | 23.0 | 23.9 | 24.1 | 22.7 | 23.6 | 23.0 | 23.8 | 24.0 |
| 6H | 23.1 | 23.9 | 23.4 | 24.2 | 24.4 | 22.7 | 23.5 | 23.0 | 23.8 | 24.0 |
| 8H | 23.4 | 24.2 | 23.7 | 24.4 | 24.7 | 22.7 | 23.5 | 23.0 | 23.7 | 24.0 |
| 12H | 23.9 | 24.7 | 24.2 | 24.9 | 25.2 | 22.7 | 23.5 | 23.0 | 23.7 | 24.0 |
| 4H 2H | 22.3 | 23.2 | 22.6 | 23.4 | 23.6 | 22.6 | 23.5 | 22.9 | 23.7 | 24.0 |
| 3H | 22.4 | 23.1 | 22.7 | 23.4 | 23.7 | 22.5 | 23.3 | 22.9 | 23.6 | 23.9 |
| 4H | 22.7 | 23.3 | 23.0 | 23.6 | 24.0 | 22.5 | 23.2 | 22.9 | 23.5 | 23.8 |
| 6H | 23.1 | 23.7 | 23.4 | 24.0 | 24.4 | 22.5 | 23.2 | 22.9 | 23.5 | 23.8 |
| 8H | 23.5 | 24.0 | 23.8 | 24.4 | 24.7 | 22.6 | 23.1 | 23.0 | 23.5 | 23.9 |
| 12H | 24.3 | 24.8 | 24.7 | 25.2 | 25.6 | 22.7 | 23.2 | 23.1 | 23.6 | 23.9 |
| 8H 4H | 22.6 | 23.1 | 23.0 | 23.5 | 23.8 | 22.4 | 23.0 | 22.8 | 23.4 | 23.7 |
| 6H | 23.0 | 23.5 | 23.4 | 23.9 | 24.3 | 22.5 | 23.0 | 22.9 | 23.4 | 23.8 |
| 8H | 23.5 | 23.9 | 23.9 | 24.3 | 24.7 | 22.6 | 23.0 | 23.0 | 23.4 | 23.9 |
| 12H | 24.7 | 25.0 | 25.1 | 25.5 | 25.9 | 22.7 | 23.1 | 23.2 | 23.5 | 24.0 |
| 12H 4H | 22.5 | 23.0 | 22.9 | 23.4 | 23.8 | 22.4 | 22.9 | 22.8 | 23.3 | 23.7 |
| 6H | 23.0 | 23.4 | 23.4 | 23.8 | 24.3 | 22.5 | 22.9 | 22.9 | 23.3 | 23.8 |
| 8H | 23.4 | 23.8 | 23.9 | 24.2 | 24.7 | 22.6 | 22.9 | 23.1 | 23.4 | 23.9 |
| Variations with the observer position at spacings(CIE Pub.117): | | | | | | | | | | |
| S = 1.0H | + 1.8 / - 3.0 | | | | | + 2.4 / - 5.9 | | | | |
| 1.5H | + 3.3 / - 3.2 | | | | | + 4.2 / - 6.2 | | | | |
| 2.0H | + 3.4 / - 1.4 | | | | | + 5.8 / - 3.1 | | | | |

CIE Pub.117, 663.5 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -1.4$)
Area: 0.0019 m²

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENPU
Test Date:2025-12-29

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | Shielding Angle: |

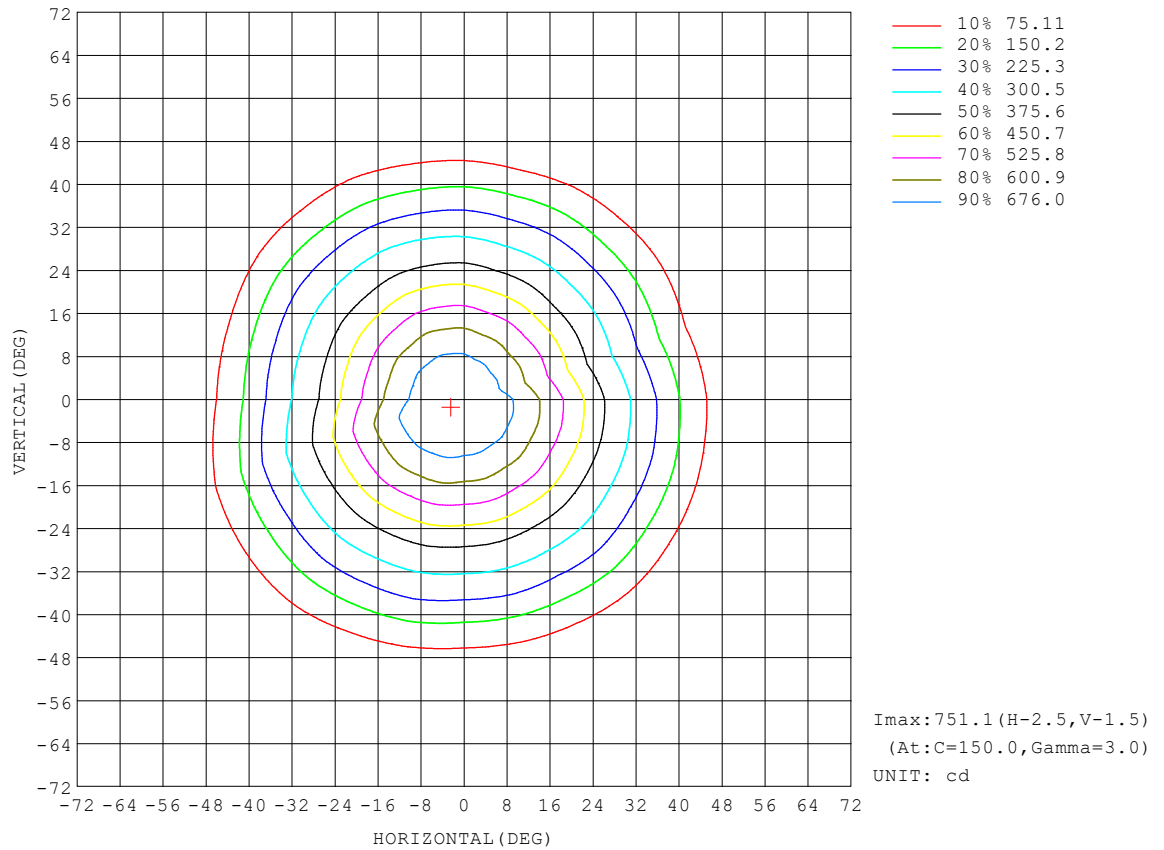
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|--|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 83 | 75 | 71 | 82 | 75 | 71 | 81 | 75 | 71 | 67 |
| 0.80 | 91 | 84 | 80 | 90 | 84 | 80 | 89 | 83 | 79 | 75 |
| 1.00 | 96 | 90 | 86 | 95 | 89 | 85 | 93 | 89 | 85 | 80 |
| 1.25 | 101 | 95 | 91 | 99 | 94 | 90 | 97 | 93 | 90 | 85 |
| 1.50 | 104 | 98 | 94 | 102 | 97 | 94 | 100 | 96 | 93 | 88 |
| 2.00 | 107 | 102 | 99 | 105 | 101 | 98 | 103 | 99 | 96 | 91 |
| 2.50 | 109 | 104 | 101 | 107 | 103 | 100 | 104 | 101 | 98 | 92 |
| 3.00 | 110 | 107 | 104 | 109 | 105 | 102 | 105 | 103 | 100 | 94 |
| 4.00 | 113 | 110 | 107 | 111 | 108 | 106 | 107 | 105 | 103 | 96 |
| 5.00 | 114 | 111 | 109 | 112 | 110 | 108 | 108 | 106 | 104 | 97 |
| ROOM INDEX | UF (total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators: SENPU
 Test Date: 2025-12-29

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
 Humidity: 61%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | Shielding Angle: |

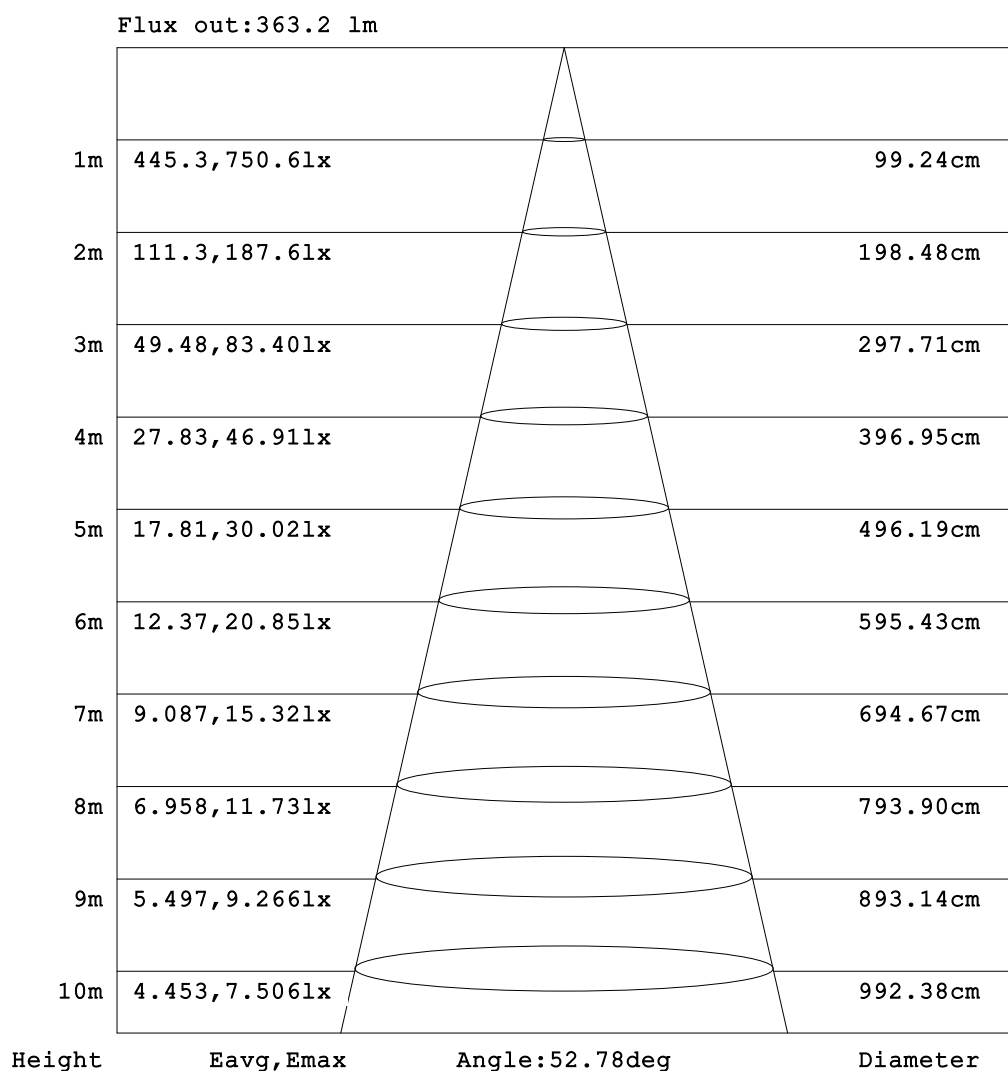


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENPU
Test Date:2025-12-29

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

AAI Figure

| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | Shielding Angle: |



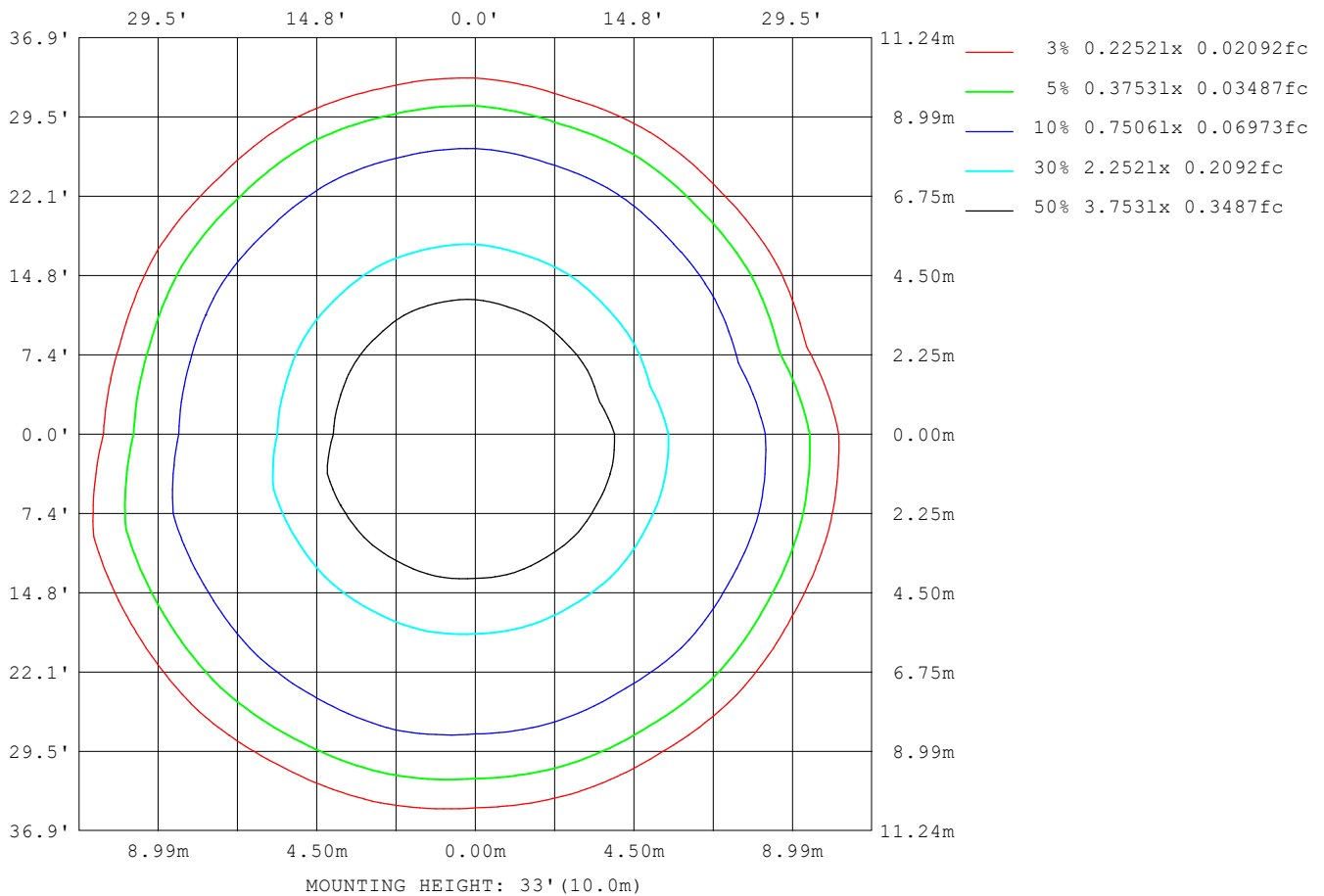
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: SENPU
Test Date: 2025-12-29

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity: 61%
Test Distance: 8.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: SENPU
Test Date: 2025-12-29

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity: 61%
Test Distance: 8.000m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | Shielding Angle: |

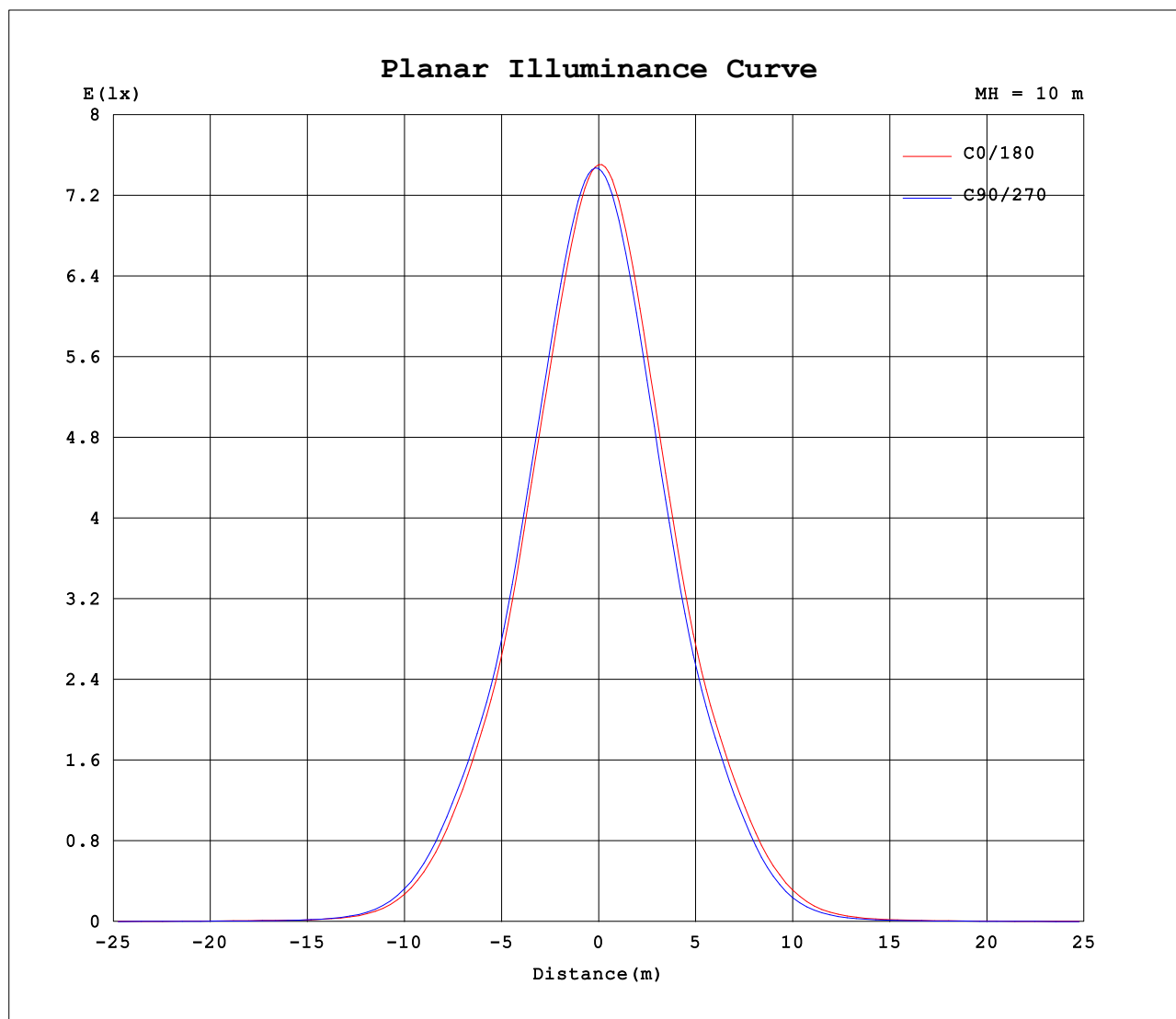
| AvgL | cd/m2 |
|------------------|-------|
| L_0~180 (65) av | 9229 |
| L_0~180 (75) av | 17225 |
| L_0~180 (85) av | 47241 |
| L_90~270 (65) av | 6747 |
| L_90~270 (75) av | 6587 |
| L_90~270 (85) av | 13397 |
| L_45 (65) av | 6529 |
| L_45 (75) av | 6398 |
| L_45 (85) av | 13172 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENPU
Test Date:2025-12-29

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators: SENPU
Test Date: 2025-12-29

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity: 61%
Test Distance: 8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG) γ (DEG) | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 751 | 750 | 750 | 750 | 749 | 748 | 747 | 745 | 745 | 743 | 745 | 743 | 751 | 750 | 750 | 750 | 749 | 748 | 747 |
| 5 | 724 | 728 | 728 | 731 | 730 | 734 | 734 | 739 | 742 | 745 | 747 | 748 | 734 | 731 | 731 | 726 | 726 | 720 | 717 |
| 10 | 663 | 669 | 669 | 675 | 675 | 680 | 682 | 692 | 697 | 705 | 706 | 709 | 680 | 673 | 674 | 667 | 666 | 658 | 653 |
| 15 | 585 | 592 | 591 | 598 | 597 | 605 | 606 | 619 | 624 | 635 | 636 | 640 | 600 | 590 | 593 | 584 | 586 | 574 | 571 |
| 20 | 496 | 503 | 501 | 509 | 509 | 515 | 517 | 530 | 536 | 548 | 549 | 555 | 507 | 500 | 499 | 493 | 493 | 483 | 476 |
| 25 | 397 | 404 | 403 | 411 | 410 | 417 | 420 | 432 | 438 | 450 | 452 | 457 | 411 | 404 | 405 | 397 | 397 | 387 | 382 |
| 30 | 315 | 320 | 321 | 327 | 326 | 332 | 335 | 345 | 349 | 358 | 360 | 364 | 330 | 324 | 325 | 318 | 317 | 309 | 304 |
| 35 | 239 | 248 | 247 | 256 | 254 | 262 | 262 | 273 | 276 | 286 | 286 | 292 | 256 | 249 | 251 | 243 | 243 | 233 | 228 |
| 40 | 153 | 163 | 162 | 170 | 165 | 174 | 177 | 192 | 195 | 204 | 201 | 208 | 168 | 163 | 164 | 155 | 154 | 145 | 142 |
| 45 | 77.4 | 81.2 | 80.6 | 86.1 | 85.2 | 90.6 | 92.5 | 103 | 108 | 118 | 118 | 122 | 88.5 | 81.1 | 82.1 | 76.1 | 77.4 | 70.3 | 67.4 |
| 50 | 29.8 | 31.9 | 31.0 | 32.3 | 31.2 | 34.2 | 36.0 | 42.6 | 46.0 | 52.5 | 53.8 | 56.1 | 35.8 | 32.7 | 32.9 | 28.4 | 28.5 | 25.4 | 25.5 |
| 55 | 12.9 | 13.8 | 13.6 | 12.4 | 11.9 | 12.9 | 13.9 | 16.1 | 17.1 | 18.9 | 19.2 | 20.4 | 14.4 | 14.2 | 13.9 | 11.4 | 11.2 | 10.7 | 10.8 |
| 60 | 9.53 | 10.0 | 9.11 | 7.18 | 7.18 | 7.40 | 7.59 | 8.02 | 8.09 | 8.45 | 8.76 | 9.49 | 9.07 | 9.45 | 7.76 | 6.62 | 6.84 | 6.79 | 6.75 |
| 65 | 7.91 | 8.30 | 6.00 | 5.48 | 5.51 | 5.61 | 5.78 | 5.78 | 5.80 | 5.86 | 6.19 | 7.03 | 6.91 | 7.09 | 5.17 | 4.79 | 4.98 | 5.09 | 5.06 |
| 70 | 7.99 | 8.07 | 4.41 | 4.36 | 4.39 | 4.41 | 4.60 | 4.62 | 4.64 | 4.61 | 4.73 | 6.08 | 6.65 | 6.90 | 3.59 | 3.49 | 3.66 | 3.85 | 3.81 |
| 75 | 9.27 | 8.87 | 3.48 | 3.44 | 3.51 | 3.50 | 3.66 | 3.66 | 3.70 | 3.70 | 3.75 | 6.47 | 7.67 | 6.65 | 2.50 | 2.47 | 2.60 | 2.81 | 2.82 |
| 80 | 9.61 | 4.33 | 3.02 | 2.82 | 2.79 | 2.81 | 2.97 | 2.93 | 2.97 | 3.01 | 3.09 | 3.31 | 7.79 | 2.18 | 1.68 | 1.67 | 1.69 | 1.98 | 2.10 |
| 85 | 8.86 | 8.72 | 2.96 | 2.64 | 2.52 | 2.57 | 2.70 | 2.66 | 2.66 | 2.74 | 2.80 | 3.83 | 6.79 | 6.31 | 1.21 | 1.18 | 1.19 | 1.51 | 1.74 |
| 90 | 4.42 | 4.50 | 0.39 | 0.29 | 0.21 | 0.27 | 1.14 | 2.58 | 2.78 | 3.06 | 3.00 | 6.80 | 3.86 | 4.09 | 0.19 | 0.16 | 0.03 | 0.04 | 0.01 |
| 95 | 3.67 | 3.88 | 0.35 | 0.31 | 0.17 | 0.16 | 0.13 | 0.14 | 0.15 | 0.28 | 0.43 | 2.66 | 2.96 | 3.34 | 0.18 | 0.15 | 0.03 | 0.03 | 0.01 |
| 100 | 3.57 | 3.97 | 0.35 | 0.31 | 0.17 | 0.17 | 0.13 | 0.13 | 0.15 | 0.28 | 0.43 | 2.11 | 3.00 | 3.40 | 0.18 | 0.14 | 0.03 | 0.02 | 0.02 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 130 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 155 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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: 15.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:SENPU
Test Date:2025-12-29

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:61%
Test Distance:8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|--|-------|------------------------|
| Test:U:24.00V I:0.341A P:8.18W PF:1.000 Freq:0Hz Lamp Flux:663.543x1 lm | | |
| NAME: 22408-4000R | TYPE: | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: 2025122904 |
| MFR.: | SUR.: | Shielding Angle: |

Table--2

UNIT: cd

| C (DEG) γ (DEG) | 285 | 300 | 315 | 330 | 345 | | | | | | | | | | | | | | |
|--------------------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 745 | 745 | 743 | 745 | 743 | | | | | | | | | | | | | | |
| 5 | 709 | 707 | 701 | 702 | 699 | | | | | | | | | | | | | | |
| 10 | 642 | 640 | 631 | 633 | 628 | | | | | | | | | | | | | | |
| 15 | 556 | 556 | 546 | 551 | 545 | | | | | | | | | | | | | | |
| 20 | 463 | 461 | 452 | 454 | 450 | | | | | | | | | | | | | | |
| 25 | 367 | 365 | 356 | 358 | 354 | | | | | | | | | | | | | | |
| 30 | 292 | 290 | 283 | 285 | 280 | | | | | | | | | | | | | | |
| 35 | 216 | 212 | 203 | 202 | 197 | | | | | | | | | | | | | | |
| 40 | 130 | 127 | 120 | 120 | 115 | | | | | | | | | | | | | | |
| 45 | 59.0 | 58.8 | 54.5 | 56.0 | 51.7 | | | | | | | | | | | | | | |
| 50 | 22.3 | 22.3 | 19.5 | 19.8 | 18.3 | | | | | | | | | | | | | | |
| 55 | 10.1 | 9.87 | 8.91 | 9.35 | 9.26 | | | | | | | | | | | | | | |
| 60 | 6.59 | 6.49 | 6.28 | 6.75 | 7.29 | | | | | | | | | | | | | | |
| 65 | 5.03 | 4.97 | 4.84 | 5.17 | 6.79 | | | | | | | | | | | | | | |
| 70 | 3.87 | 3.80 | 3.76 | 3.79 | 7.59 | | | | | | | | | | | | | | |
| 75 | 2.96 | 2.90 | 2.97 | 2.99 | 7.14 | | | | | | | | | | | | | | |
| 80 | 2.28 | 2.21 | 2.41 | 2.60 | 3.45 | | | | | | | | | | | | | | |
| 85 | 1.95 | 1.87 | 2.16 | 2.41 | 7.84 | | | | | | | | | | | | | | |
| 90 | 0.04 | 0.04 | 0.20 | 0.28 | 2.77 | | | | | | | | | | | | | | |
| 95 | 0.02 | 0.04 | 0.20 | 0.28 | 2.09 | | | | | | | | | | | | | | |
| 100 | 0.04 | 0.06 | 0.18 | 0.28 | 2.41 | | | | | | | | | | | | | | |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 110 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 115 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 125 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 130 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 140 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 145 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 155 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 160 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | |

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:SENPU
 Test Date:2025-12-29

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
 Humidity:61%
 Test Distance:8.000m [K=1.0000]
 Remarks: