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Nata

Client:

LumCAT: 2-2755-L

Luminaire: 92.70.411.00

Report No: 2024827-B018

Ballast type: AC

Test No: 2024827-C018

Voltage(V): 35.290

LampCAT: Fortimo_SLM_C_1205

Current(A): 0.403

Lamp flux(lm): 2294.0

Power (W): 14.220

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2141.55, Efficiency(%): 93.35% , Luminous Efficacy(lm/W): 150.60

Central intensity(cd): 8785.217, Maximum intensity(cd): 8785.217

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=23.0

[C90/270]Total=23.0

Field angle(10%Imax): [C0/180]Total=52.6

[C90/270]Total=52.6

Maximum s/h(1/2): C0_180=0.39 C90_270=0.39

Maximum s/h(1/4): C0_180=0.40 C90_270=0.40

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.35%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.062%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/27
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 8785.217 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 8729.777 | 8.381 | 8.381 | 0.37% | 0.39% |
| 2.0 | 8565.414 | 24.824 | 33.204 | 1.08% | 1.55% |
| 3.0 | 8333.778 | 40.417 | 73.622 | 1.76% | 3.44% |
| 4.0 | 7997.877 | 54.667 | 128.289 | 2.38% | 5.99% |
| 5.0 | 7622.909 | 67.200 | 195.489 | 2.93% | 9.13% |
| 6.0 | 7138.323 | 77.574 | 273.063 | 3.38% | 12.75% |
| 7.0 | 6685.621 | 85.805 | 358.868 | 3.74% | 16.76% |
| 8.0 | 6201.935 | 92.234 | 451.102 | 4.02% | 21.06% |
| 9.0 | 5665.600 | 96.180 | 547.282 | 4.19% | 25.56% |
| 10.0 | 5125.842 | 97.659 | 644.94 | 4.26% | 30.12% |
| 11.0 | 4656.932 | 97.750 | 742.69 | 4.26% | 34.68% |
| 12.0 | 4124.908 | 95.998 | 838.688 | 4.18% | 39.16% |
| 13.0 | 3664.684 | 92.443 | 931.131 | 4.03% | 43.48% |
| 14.0 | 3214.565 | 88.054 | 1019.185 | 3.84% | 47.59% |
| 15.0 | 2826.640 | 82.936 | 1102.121 | 3.62% | 51.46% |
| 16.0 | 2437.671 | 77.137 | 1179.258 | 3.36% | 55.07% |
| 17.0 | 2131.994 | 71.162 | 1250.42 | 3.10% | 58.39% |
| 18.0 | 1875.706 | 66.078 | 1316.498 | 2.88% | 61.47% |
| 19.0 | 1651.586 | 61.368 | 1377.866 | 2.68% | 64.34% |
| 20.0 | 1479.976 | 57.316 | 1435.182 | 2.50% | 67.02% |
| 21.0 | 1309.286 | 53.559 | 1488.742 | 2.33% | 69.52% |
| 22.0 | 1208.484 | 50.596 | 1539.337 | 2.21% | 71.88% |
| 23.0 | 1125.054 | 48.964 | 1588.301 | 2.13% | 74.17% |
| 24.0 | 1050.757 | 47.571 | 1635.872 | 2.07% | 76.39% |
| 25.0 | 969.732 | 45.942 | 1681.814 | 2.00% | 78.53% |
| 26.0 | 899.180 | 44.116 | 1725.93 | 1.92% | 80.59% |
| 27.0 | 817.091 | 41.989 | 1767.919 | 1.83% | 82.55% |
| 28.0 | 746.256 | 39.581 | 1807.499 | 1.73% | 84.40% |
| 29.0 | 666.368 | 36.958 | 1844.458 | 1.61% | 86.13% |
| 30.0 | 582.524 | 33.720 | 1878.177 | 1.47% | 87.70% |
| 31.0 | 505.526 | 30.279 | 1908.456 | 1.32% | 89.12% |
| 32.0 | 434.698 | 26.936 | 1935.393 | 1.17% | 90.37% |
| 33.0 | 364.363 | 23.541 | 1958.933 | 1.03% | 91.47% |
| 34.0 | 306.255 | 20.295 | 1979.228 | 0.88% | 92.42% |
| 35.0 | 269.823 | 17.891 | 1997.119 | 0.78% | 93.26% |
| 36.0 | 234.685 | 16.064 | 2013.183 | 0.70% | 94.01% |
| 37.0 | 204.015 | 14.308 | 2027.491 | 0.62% | 94.67% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 157.550 | 12.069 | 2039.559 | 0.53% | 95.24% |
| 39.0 | 134.212 | 9.959 | 2049.518 | 0.43% | 95.70% |
| 40.0 | 111.117 | 8.556 | 2058.074 | 0.37% | 96.10% |
| 41.0 | 93.614 | 7.290 | 2065.364 | 0.32% | 96.44% |
| 42.0 | 78.252 | 6.244 | 2071.609 | 0.27% | 96.73% |
| 43.0 | 66.728 | 5.370 | 2076.979 | 0.23% | 96.98% |
| 44.0 | 56.347 | 4.645 | 2081.624 | 0.20% | 97.20% |
| 45.0 | 48.679 | 4.036 | 2085.661 | 0.18% | 97.39% |
| 46.0 | 43.062 | 3.588 | 2089.248 | 0.16% | 97.56% |
| 47.0 | 39.001 | 3.264 | 2092.512 | 0.14% | 97.71% |
| 48.0 | 35.414 | 3.008 | 2095.52 | 0.13% | 97.85% |
| 49.0 | 32.661 | 2.796 | 2098.316 | 0.12% | 97.98% |
| 50.0 | 30.493 | 2.633 | 2100.949 | 0.11% | 98.10% |
| 51.0 | 28.509 | 2.496 | 2103.445 | 0.11% | 98.22% |
| 52.0 | 26.754 | 2.371 | 2105.817 | 0.10% | 98.33% |
| 53.0 | 25.250 | 2.262 | 2108.079 | 0.10% | 98.44% |
| 54.0 | 23.949 | 2.168 | 2110.247 | 0.09% | 98.54% |
| 55.0 | 22.582 | 2.077 | 2112.324 | 0.09% | 98.64% |
| 56.0 | 21.439 | 1.989 | 2114.314 | 0.09% | 98.73% |
| 57.0 | 20.250 | 1.906 | 2116.22 | 0.08% | 98.82% |
| 58.0 | 19.113 | 1.820 | 2118.04 | 0.08% | 98.90% |
| 59.0 | 18.167 | 1.743 | 2119.783 | 0.08% | 98.98% |
| 60.0 | 17.168 | 1.669 | 2121.452 | 0.07% | 99.06% |
| 61.0 | 15.966 | 1.581 | 2123.033 | 0.07% | 99.14% |
| 62.0 | 14.882 | 1.486 | 2124.52 | 0.06% | 99.20% |
| 63.0 | 13.909 | 1.400 | 2125.92 | 0.06% | 99.27% |
| 64.0 | 13.081 | 1.324 | 2127.245 | 0.06% | 99.33% |
| 65.0 | 12.214 | 1.252 | 2128.496 | 0.05% | 99.39% |
| 66.0 | 11.275 | 1.172 | 2129.668 | 0.05% | 99.45% |
| 67.0 | 10.440 | 1.092 | 2130.76 | 0.05% | 99.50% |
| 68.0 | 9.724 | 1.021 | 2131.782 | 0.04% | 99.54% |
| 69.0 | 9.028 | 0.957 | 2132.738 | 0.04% | 99.59% |
| 70.0 | 8.252 | 0.887 | 2133.626 | 0.04% | 99.63% |
| 71.0 | 7.510 | 0.815 | 2134.44 | 0.04% | 99.67% |
| 72.0 | 6.859 | 0.747 | 2135.188 | 0.03% | 99.70% |
| 73.0 | 6.314 | 0.689 | 2135.876 | 0.03% | 99.74% |
| 74.0 | 5.808 | 0.637 | 2136.514 | 0.03% | 99.76% |
| 75.0 | 5.355 | 0.590 | 2137.104 | 0.03% | 99.79% |

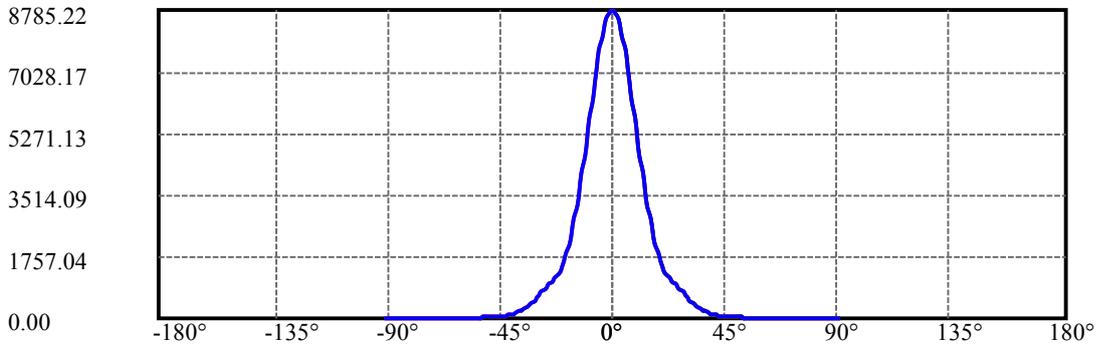
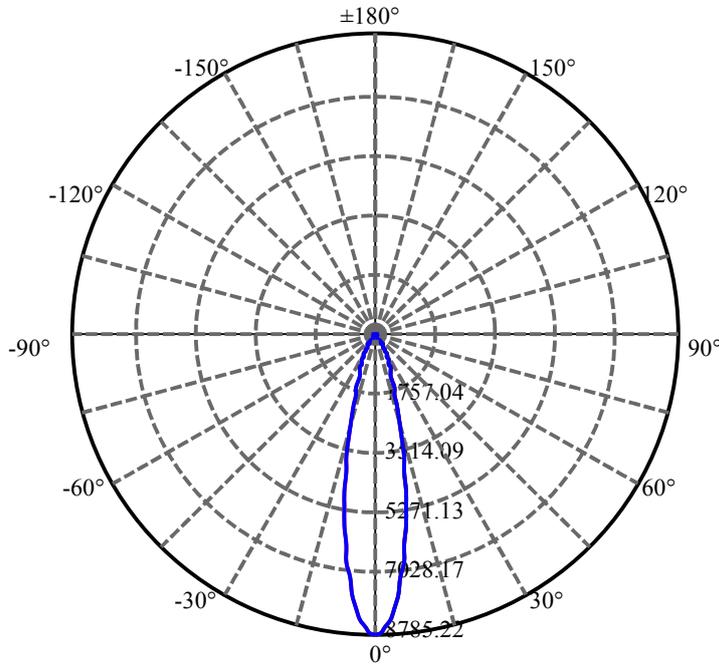
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 4.849 | 0.542 | 2137.645 | 0.02% | 99.82% |
| 77.0 | 4.481 | 0.497 | 2138.143 | 0.02% | 99.84% |
| 78.0 | 4.093 | 0.459 | 2138.602 | 0.02% | 99.86% |
| 79.0 | 3.693 | 0.418 | 2139.02 | 0.02% | 99.88% |
| 80.0 | 3.397 | 0.382 | 2139.402 | 0.02% | 99.90% |
| 81.0 | 3.062 | 0.349 | 2139.751 | 0.02% | 99.92% |
| 82.0 | 2.746 | 0.315 | 2140.066 | 0.01% | 99.93% |
| 83.0 | 2.418 | 0.281 | 2140.347 | 0.01% | 99.94% |
| 84.0 | 2.122 | 0.247 | 2140.594 | 0.01% | 99.96% |
| 85.0 | 1.866 | 0.218 | 2140.812 | 0.01% | 99.97% |
| 86.0 | 1.669 | 0.193 | 2141.005 | 0.01% | 99.97% |
| 87.0 | 1.445 | 0.170 | 2141.176 | 0.01% | 99.98% |
| 88.0 | 1.202 | 0.145 | 2141.321 | 0.01% | 99.99% |
| 89.0 | 1.012 | 0.121 | 2141.442 | 0.01% | 100.00% |
| 90.0 | 0.926 | 0.106 | 2141.549 | 0.00% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1878.18 | 81.87% | 87.70% |
| 0-40 | 2058.07 | 89.72% | 96.10% |
| 0-60 | 2121.45 | 92.48% | 99.06% |
| 0-90 | 2141.44 | 93.35% | 100.00% |
| 0-120 | 2141.44 | 93.35% | 100.00% |
| 0-180 | 2141.55 | 93.35% | 100.00% |
| 60-90 | 19.99 | 0.87% | 0.93% |
| 90-120 | 0.00 | 0.00% | 0.00% |
| 90-130 | 0.00 | 0.00% | 0.00% |
| 90-150 | 0.00 | 0.00% | 0.00% |
| 90-180 | 0.00 | 0.00% | 0.00% |
| 0-25.71 | 1713.24 | 74.68% | 80.00% |

ZONAL LUMEN SUMMARY

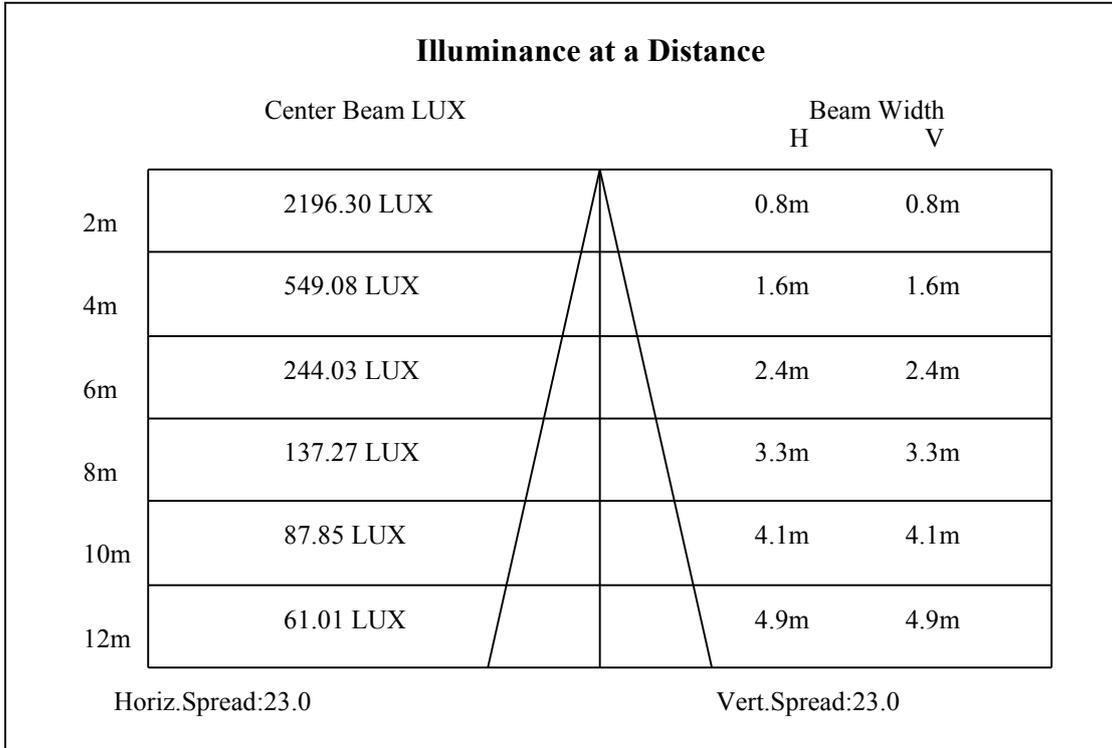
| | |
|---------|--------|
| 0-10 | 644.94 |
| 10-20 | 790.24 |
| 20-30 | 443.00 |
| 30-40 | 179.90 |
| 40-50 | 42.88 |
| 50-60 | 20.50 |
| 60-70 | 12.17 |
| 70-80 | 5.78 |
| 80-90 | 2.04 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

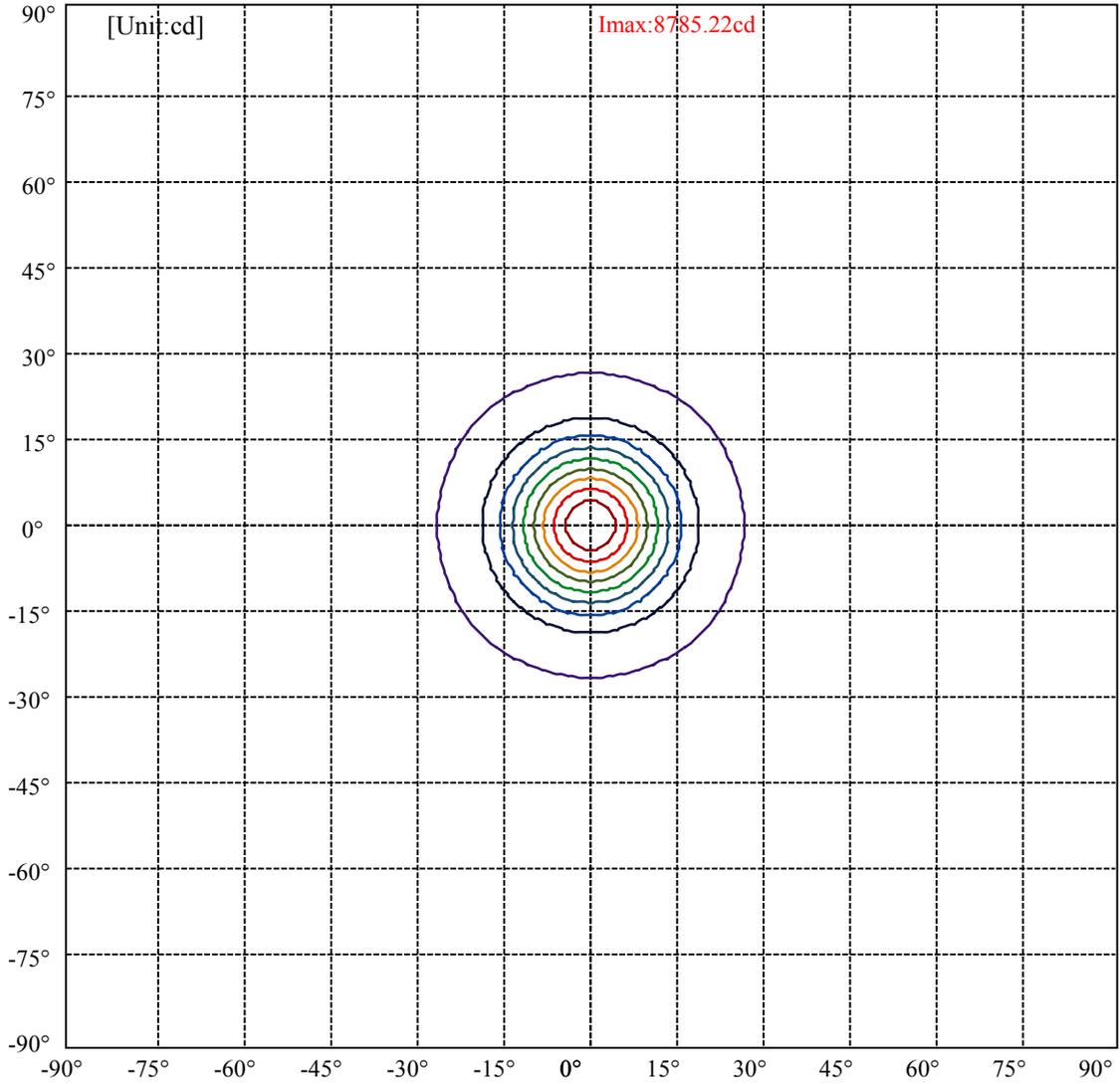


C0(Max): —————
C0/C180: —————
C90/C270: —————

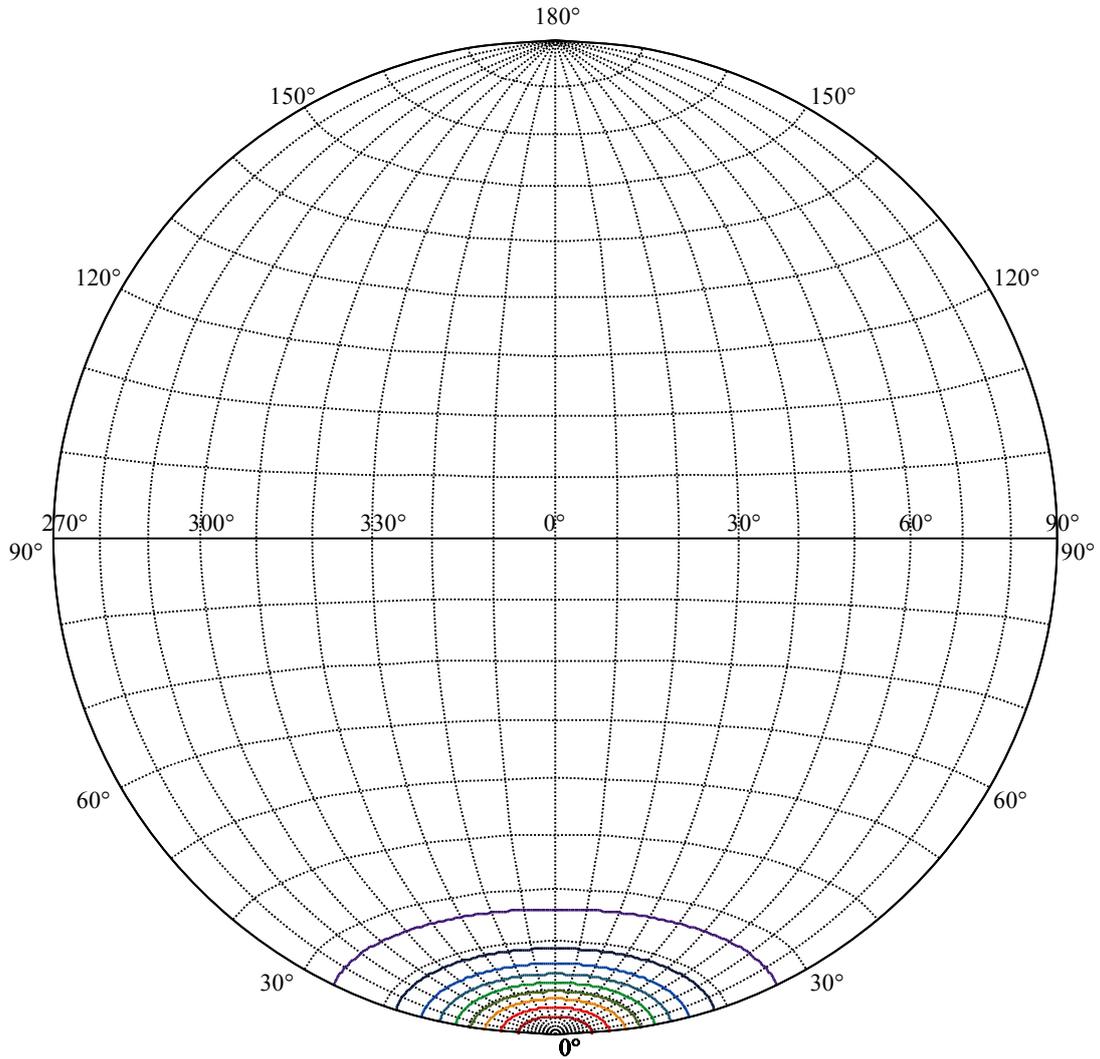
Field angle(10%Imax):C0/180Left:26.3 Right:26.3
:C90/270Left:26.3 Right:26.3

Beam Angle(50%Imax):C0/180Left:11.5 Right:11.5
:C90/270Left:11.5 Right:11.5





| | |
|-------------------|---|
| (10%Imax) 878.522 | — |
| (20%Imax) 1757.04 | — |
| (30%Imax) 2635.56 | — |
| (40%Imax) 3514.09 | — |
| (50%Imax) 4392.61 | — |
| (60%Imax) 5271.13 | — |
| (70%Imax) 6149.65 | — |
| (80%Imax) 7028.17 | — |
| (90%Imax) 7906.7 | — |



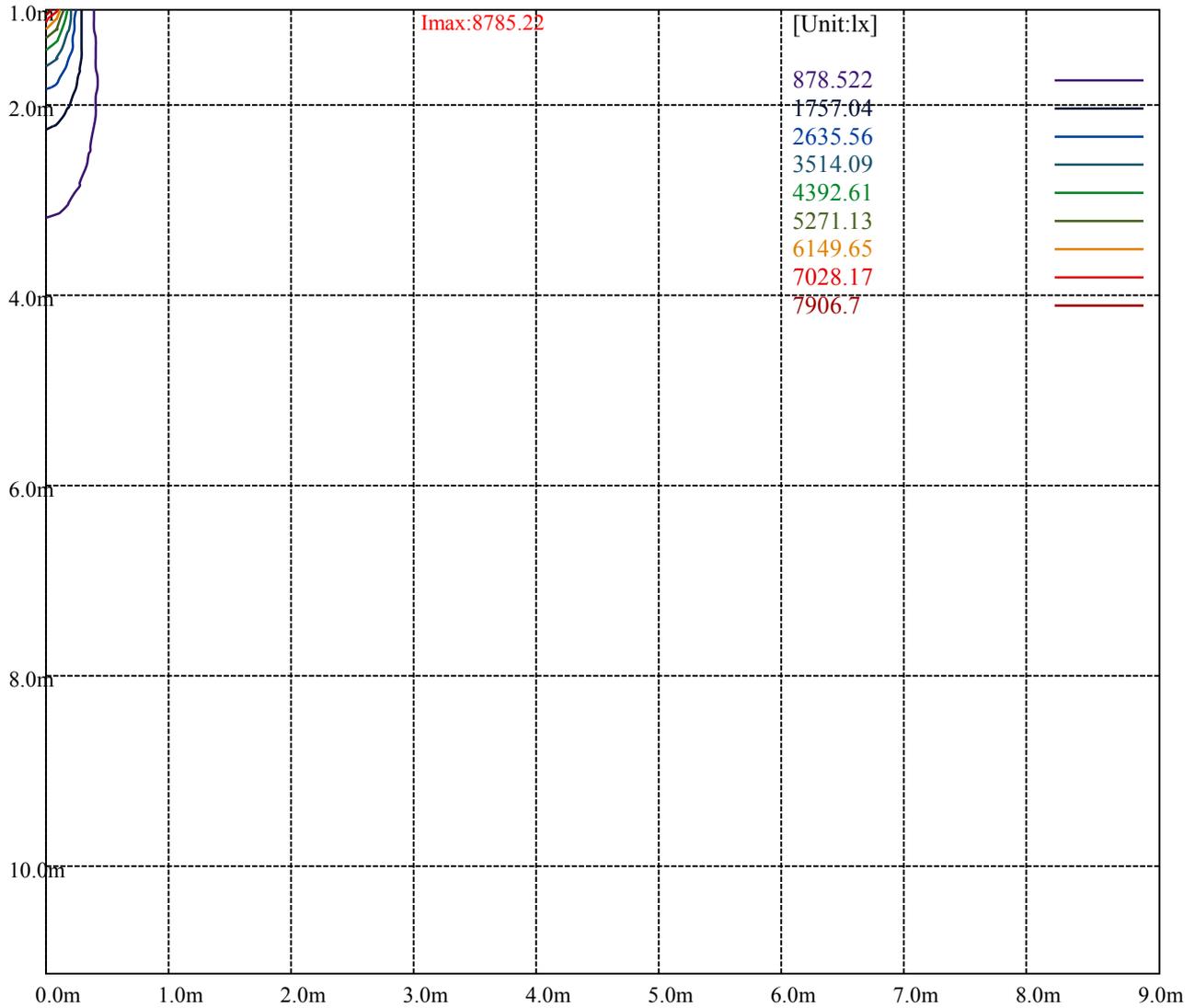
House

[Unit:cd]

Road

I_{max}:8785.22

| | |
|--------------------------------|---|
| (10%I _{max}) 878.522 | — |
| (20%I _{max}) 1757.04 | — |
| (30%I _{max}) 2635.56 | — |
| (40%I _{max}) 3514.09 | — |
| (50%I _{max}) 4392.61 | — |
| (60%I _{max}) 5271.13 | — |
| (70%I _{max}) 6149.65 | — |
| (80%I _{max}) 7028.17 | — |
| (90%I _{max}) 7906.7 | — |



Luminance Table

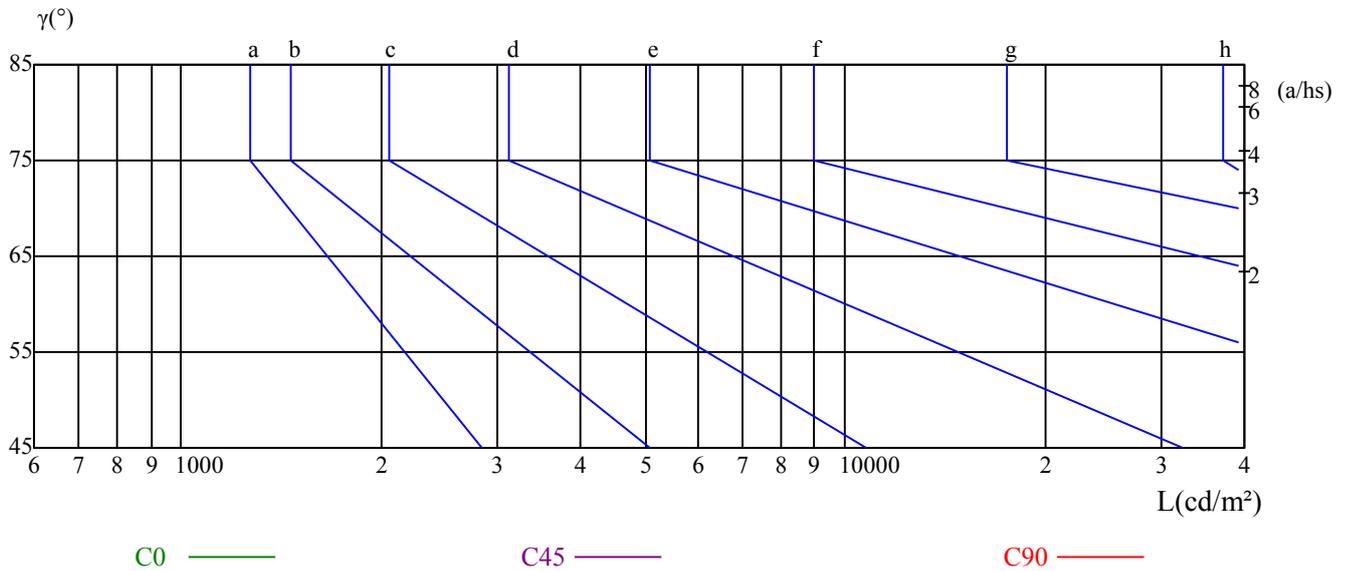
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|----|----|----|----|----|----|----|----|
| C0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Glare Table

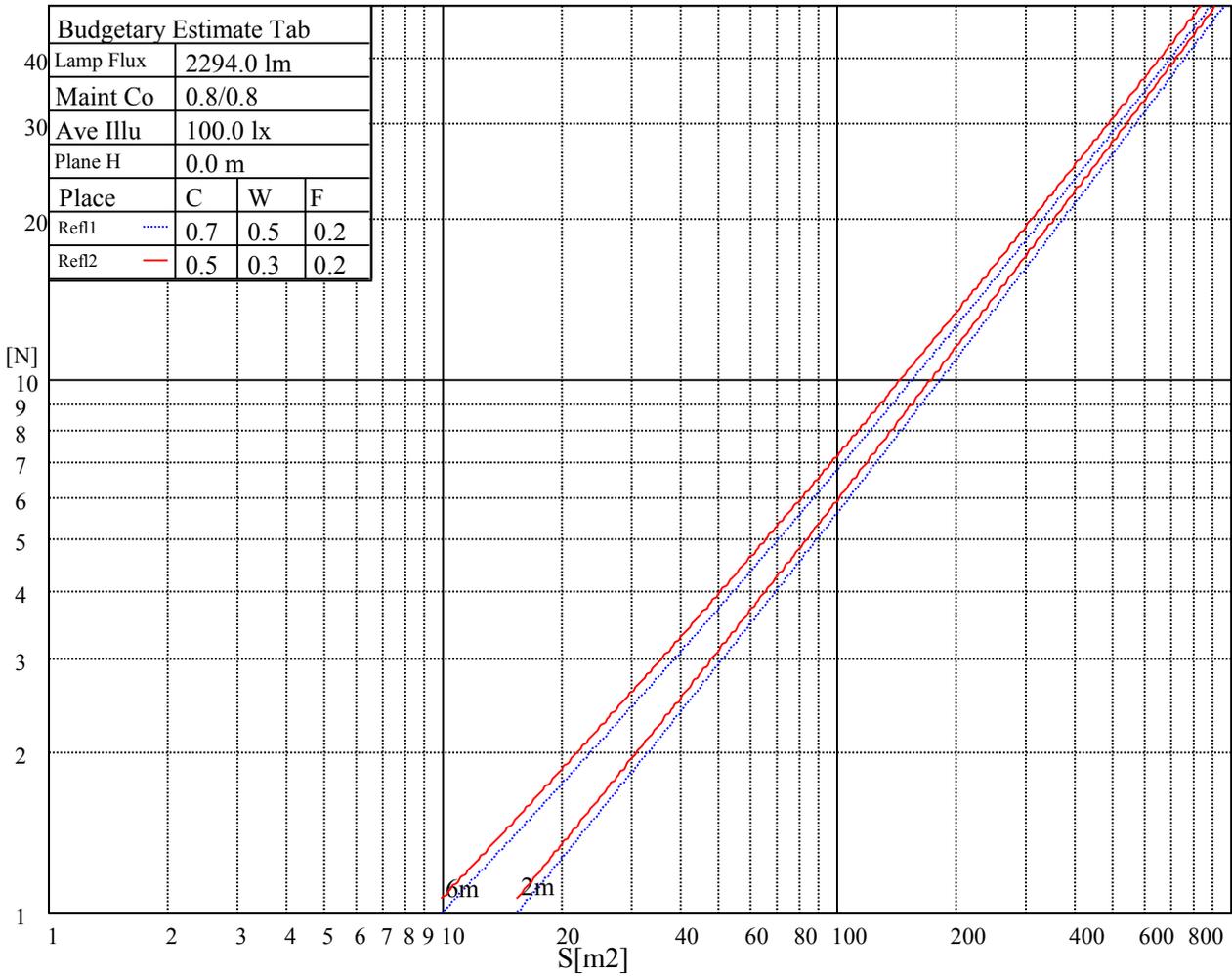
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.2 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |
| | | a | b | c | d | e | f | g | h |

Luminance Limiting Curve

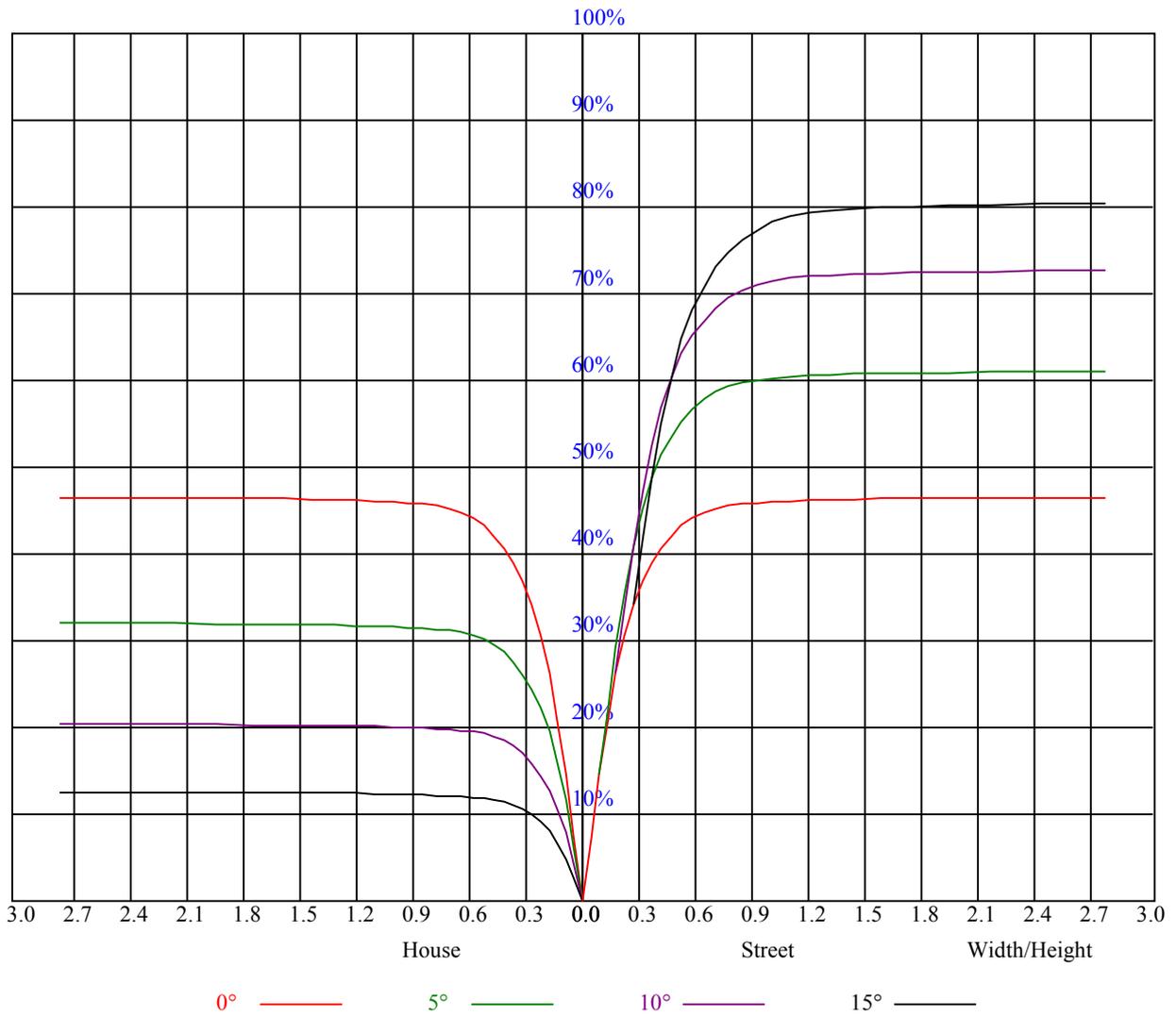


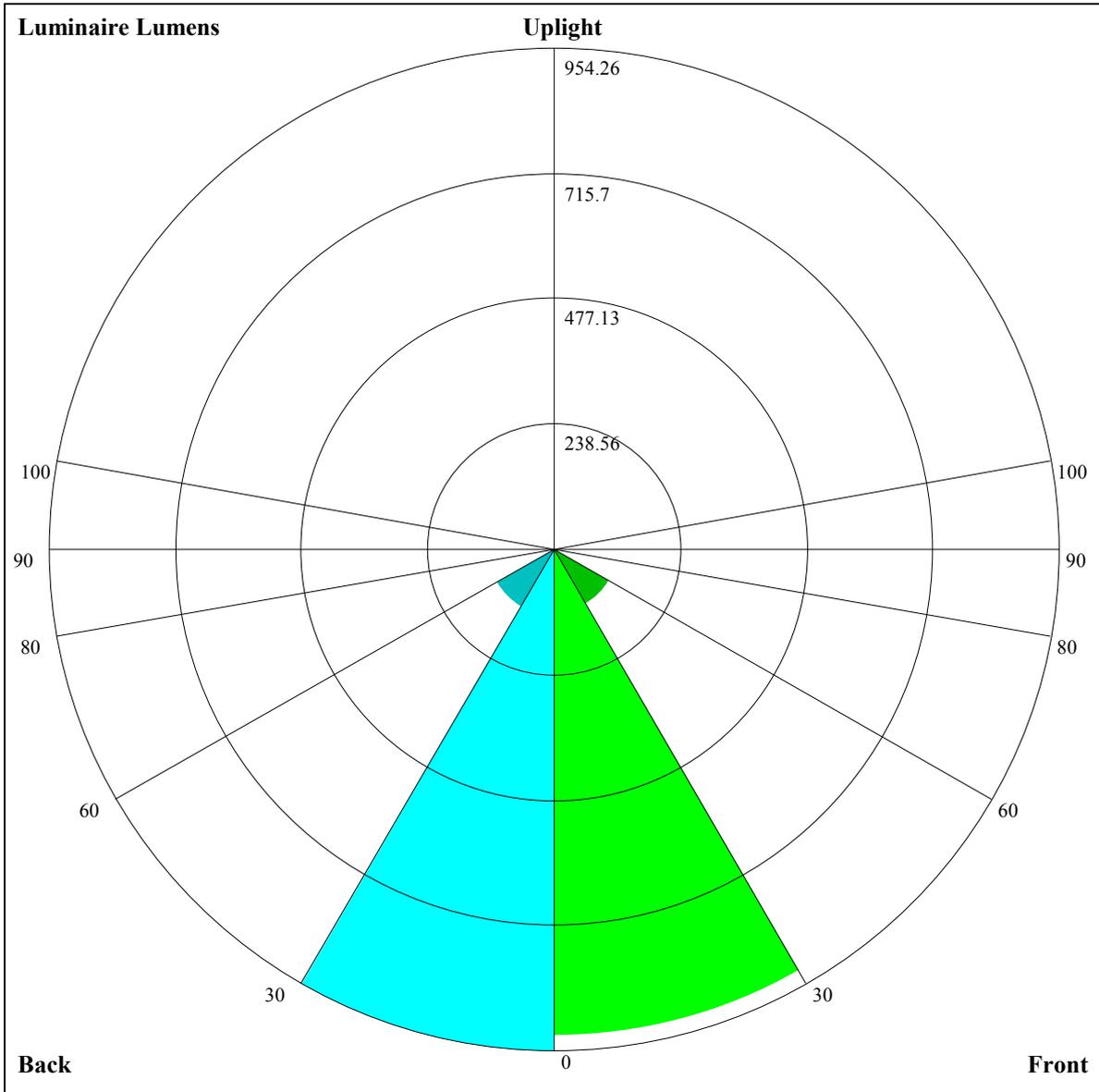
| Illumination assessment according UGR | | | | | | | | | | | |
|---|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|--|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Rf of Floor | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X | Y | | | | | | | | | | |
| 2H | 2H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 3H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| 4H | 12H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 2H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 3H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| 8H | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 12H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| 12H | 12H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 4H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 6H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| | 8H | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | 非数字 | |
| Variation with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | | 非数字/非数字 | | | | | 非数字/非数字 | | | | |
| S = 1.5H | | 非数字/非数字 | | | | | 非数字/非数字 | | | | |
| S = 2.0H | | 非数字/非数字 | | | | | 非数字/非数字 | | | | |
| Standard tables: | | BK0 | | | | | BK0 | | | | |
| Uncorrected UGR | | 负无穷大 | | | | | 负无穷大 | | | | |

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



| RHOCC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 |
|-------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RHOW | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | COEFFICIENTS OF UTILIZATION RHOFC=20 CU | | | | | | | | | | | | | | | |
| 0 | 1.11 | 1.11 | 1.11 | 1.09 | 1.09 | 1.09 | 1.04 | 1.04 | 1.04 | 0.99 | 0.99 | 0.99 | 0.95 | 0.95 | 0.95 | 0.93 |
| 1 | 1.05 | 1.03 | 1.01 | 1.03 | 1.01 | 0.99 | 0.99 | 0.98 | 0.96 | 0.96 | 0.94 | 0.93 | 0.92 | 0.92 | 0.91 | 0.89 |
| 2 | 0.99 | 0.96 | 0.93 | 0.97 | 0.95 | 0.92 | 0.95 | 0.92 | 0.90 | 0.92 | 0.90 | 0.88 | 0.89 | 0.88 | 0.87 | 0.85 |
| 3 | 0.94 | 0.90 | 0.87 | 0.93 | 0.89 | 0.87 | 0.91 | 0.88 | 0.85 | 0.88 | 0.86 | 0.84 | 0.86 | 0.84 | 0.83 | 0.81 |
| 4 | 0.90 | 0.86 | 0.82 | 0.89 | 0.85 | 0.82 | 0.87 | 0.84 | 0.81 | 0.85 | 0.82 | 0.80 | 0.83 | 0.81 | 0.79 | 0.78 |
| 5 | 0.86 | 0.82 | 0.78 | 0.85 | 0.81 | 0.78 | 0.83 | 0.80 | 0.77 | 0.82 | 0.79 | 0.77 | 0.81 | 0.78 | 0.76 | 0.75 |
| 6 | 0.82 | 0.78 | 0.75 | 0.82 | 0.78 | 0.75 | 0.80 | 0.77 | 0.74 | 0.79 | 0.76 | 0.74 | 0.78 | 0.75 | 0.73 | 0.72 |
| 7 | 0.79 | 0.75 | 0.72 | 0.79 | 0.74 | 0.71 | 0.77 | 0.74 | 0.71 | 0.76 | 0.73 | 0.71 | 0.76 | 0.73 | 0.70 | 0.69 |
| 8 | 0.76 | 0.72 | 0.69 | 0.76 | 0.72 | 0.69 | 0.75 | 0.71 | 0.68 | 0.74 | 0.71 | 0.68 | 0.73 | 0.70 | 0.68 | 0.67 |
| 9 | 0.74 | 0.69 | 0.66 | 0.73 | 0.69 | 0.66 | 0.72 | 0.69 | 0.66 | 0.72 | 0.68 | 0.66 | 0.71 | 0.68 | 0.66 | 0.65 |
| 10 | 0.71 | 0.67 | 0.64 | 0.71 | 0.67 | 0.64 | 0.70 | 0.66 | 0.64 | 0.69 | 0.66 | 0.64 | 0.69 | 0.66 | 0.64 | 0.63 |





Luminaire Lumens:

FL=926.42,FM=119.67,FH=8.77,FVH=1.07

BL=954.26,BM=126.45,BH=9.06,BVH=1.08

UL=0,UH=0

BUG Rating:B2-U0-G0

Intensity data(cd)

| | | | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| C/γ(°) | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 |
| 0.0 | 8773.36 | 8647.48 | 8276.39 | 8059.09 | 7650.16 | 7191.60 | 6691.84 | 6188.13 | 5666.66 |
| 45.0 | 8806.27 | 8742.72 | 8578.36 | 8307.61 | 7937.62 | 7709.18 | 7095.20 | 6810.47 | 6307.39 |
| 90.0 | 8726.01 | 8526.58 | 8216.78 | 7848.47 | 7449.58 | 6998.28 | 6519.12 | 5993.70 | 5435.44 |
| 135.0 | 8835.23 | 8757.75 | 8602.90 | 8329.32 | 7943.77 | 7521.43 | 7070.13 | 6605.48 | 6130.73 |
| 180.0 | 8773.36 | 8796.23 | 8748.29 | 8608.48 | 8358.28 | 7997.23 | 7576.62 | 7127.53 | 6667.87 |
| 225.0 | 8806.27 | 8752.76 | 8611.79 | 8381.14 | 8040.70 | 7623.40 | 7160.96 | 6652.84 | 6135.20 |
| 270.0 | 8726.01 | 8810.68 | 8807.37 | 8707.61 | 8510.97 | 8272.50 | 7801.69 | 7441.22 | 6921.90 |
| 315.0 | 8835.23 | 8804.01 | 8681.43 | 8428.50 | 8091.94 | 7669.66 | 7191.02 | 6665.61 | 6350.29 |
| 360.0 | 8773.36 | 8647.48 | 8276.39 | 8059.09 | 7650.16 | 7191.60 | 6691.84 | 6188.13 | 5666.66 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 5121.74 | 4618.04 | 4121.64 | 3642.48 | 3191.17 | 2771.04 | 2406.10 | 2099.66 | 1833.91 |
| 45.0 | 5778.09 | 5251.57 | 4728.94 | 4195.75 | 3686.47 | 3218.45 | 2797.80 | 2432.33 | 2120.32 |
| 90.0 | 4904.45 | 4375.14 | 3865.34 | 3388.97 | 2949.91 | 2564.37 | 2352.07 | 1943.66 | 1713.01 |
| 135.0 | 5805.37 | 5064.92 | 4754.02 | 4257.56 | 3765.05 | 3299.82 | 2864.13 | 2482.47 | 2158.74 |
| 180.0 | 6187.03 | 5671.07 | 5131.20 | 4606.37 | 4101.03 | 3616.30 | 3152.17 | 2741.55 | 2385.50 |
| 225.0 | 5620.40 | 5089.99 | 4555.12 | 4038.06 | 3558.32 | 3115.38 | 2789.44 | 2359.32 | 2112.49 |
| 270.0 | 6286.21 | 5861.09 | 5332.36 | 4811.41 | 4291.57 | 3809.05 | 3349.97 | 2918.69 | 2532.04 |
| 315.0 | 5621.51 | 5074.91 | 4766.84 | 4058.67 | 3773.93 | 3322.11 | 2901.45 | 2523.68 | 2199.95 |
| 360.0 | 5121.74 | 4618.04 | 4121.64 | 3642.48 | 3191.17 | 2771.04 | 2406.10 | 2099.66 | 1833.91 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 1623.87 | 1459.50 | 1323.00 | 1097.56 | 1062.81 | 1062.81 | 982.71 | 907.18 | 832.43 |
| 45.0 | 1855.09 | 1630.02 | 1459.50 | 1328.57 | 1216.56 | 1117.95 | 1032.17 | 950.80 | 904.55 |
| 90.0 | 1589.86 | 1436.11 | 1309.65 | 1079.95 | 1079.95 | 1033.01 | 954.80 | 875.22 | 800.16 |
| 135.0 | 1880.74 | 1656.72 | 1477.32 | 1339.13 | 1230.49 | 1136.93 | 1050.57 | 968.62 | 887.31 |
| 180.0 | 2082.42 | 1826.13 | 1614.93 | 1447.26 | 1343.60 | 1216.03 | 1142.50 | 1060.55 | 984.81 |
| 225.0 | 1844.52 | 1583.18 | 1443.89 | 1295.72 | 1084.57 | 1084.57 | 993.90 | 912.75 | 831.33 |
| 270.0 | 2206.10 | 1923.05 | 1696.30 | 1514.64 | 1383.71 | 1272.28 | 1172.56 | 1086.78 | 1034.96 |
| 315.0 | 1923.05 | 1697.98 | 1515.22 | 1371.46 | 1266.18 | 1076.85 | 1076.85 | 995.95 | 917.90 |
| 360.0 | 1623.87 | 1459.50 | 1323.00 | 1097.56 | 1062.81 | 1062.81 | 982.71 | 907.18 | 832.43 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 757.22 | 678.74 | 595.85 | 510.80 | 430.54 | 362.37 | 306.91 | 261.29 | 221.03 |
| 45.0 | 828.81 | 753.59 | 677.79 | 599.79 | 516.79 | 438.21 | 365.78 | 306.75 | 287.25 |
| 90.0 | 723.42 | 639.63 | 552.22 | 463.76 | 386.39 | 335.77 | 283.47 | 232.27 | 202.63 |
| 135.0 | 803.73 | 719.58 | 637.69 | 570.25 | 488.94 | 412.62 | 348.54 | 295.61 | 286.10 |
| 180.0 | 911.28 | 837.16 | 759.16 | 678.90 | 595.32 | 511.75 | 431.54 | 363.57 | 307.86 |
| 225.0 | 753.06 | 673.12 | 596.27 | 516.69 | 441.42 | 401.37 | 322.63 | 275.64 | 250.93 |
| 270.0 | 922.42 | 878.37 | 804.26 | 696.77 | 647.73 | 563.05 | 477.21 | 396.43 | 330.67 |
| 315.0 | 836.80 | 789.86 | 707.70 | 623.23 | 537.08 | 452.46 | 378.82 | 318.48 | 272.12 |
| 360.0 | 757.22 | 678.74 | 595.85 | 510.80 | 430.54 | 362.37 | 306.91 | 261.29 | 221.03 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 185.97 | 156.22 | 129.51 | 115.74 | 89.67 | 74.85 | 67.54 | 56.87 | 48.78 |
| 45.0 | 237.85 | 176.77 | 147.65 | 122.47 | 101.50 | 90.62 | 69.96 | 62.65 | 52.35 |
| 90.0 | 171.25 | 143.55 | 120.00 | 99.66 | 83.05 | 69.38 | 58.13 | 49.46 | 43.05 |
| 135.0 | 239.26 | 180.08 | 150.91 | 125.83 | 105.13 | 87.67 | 73.43 | 61.45 | 52.30 |
| 180.0 | 298.40 | 298.40 | 187.91 | 169.25 | 141.08 | 117.63 | 98.29 | 82.47 | 69.75 |
| 225.0 | 215.19 | 184.18 | 157.37 | 133.67 | 113.48 | 96.82 | 82.73 | 70.75 | 60.92 |
| 270.0 | 298.92 | 298.92 | 203.57 | 171.51 | 142.97 | 118.32 | 97.98 | 84.78 | 68.33 |
| 315.0 | 230.64 | 194.01 | 163.47 | 135.56 | 112.06 | 93.61 | 77.95 | 65.39 | 55.30 |
| 360.0 | 185.97 | 156.22 | 129.51 | 115.74 | 89.67 | 74.85 | 67.54 | 56.87 | 48.78 |

Intensity data(cd)

| | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C/γ(°) | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 | 50.0 | 51.0 | 52.0 | 53.0 |
| 0.0 | 43.05 | 38.63 | 35.32 | 32.75 | 30.75 | 28.91 | 27.17 | 25.60 | 24.44 |
| 45.0 | 42.63 | 39.53 | 35.74 | 33.01 | 30.91 | 29.17 | 27.54 | 25.91 | 24.44 |
| 90.0 | 38.27 | 34.59 | 31.43 | 29.01 | 26.96 | 25.12 | 23.50 | 22.13 | 21.18 |
| 135.0 | 48.04 | 40.74 | 38.27 | 34.95 | 31.22 | 30.01 | 28.02 | 26.28 | 24.65 |
| 180.0 | 59.29 | 51.35 | 45.68 | 41.37 | 37.95 | 35.01 | 32.80 | 30.75 | 28.70 |
| 225.0 | 53.14 | 46.94 | 42.21 | 38.74 | 35.64 | 32.96 | 30.49 | 28.54 | 27.33 |
| 270.0 | 57.19 | 50.41 | 43.78 | 38.84 | 34.90 | 31.85 | 29.65 | 27.70 | 25.86 |
| 315.0 | 47.83 | 42.31 | 39.58 | 34.64 | 32.96 | 30.91 | 28.91 | 27.12 | 25.39 |
| 360.0 | 43.05 | 38.63 | 35.32 | 32.75 | 30.75 | 28.91 | 27.17 | 25.60 | 24.44 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 23.34 | 21.92 | 20.55 | 19.50 | 18.50 | 17.35 | 16.71 | 14.88 | 14.03 |
| 45.0 | 23.23 | 22.18 | 20.97 | 19.71 | 18.55 | 18.08 | 16.71 | 15.51 | 14.82 |
| 90.0 | 20.55 | 18.92 | 18.24 | 17.35 | 16.35 | 15.77 | 14.51 | 13.46 | 12.62 |
| 135.0 | 23.34 | 22.18 | 20.87 | 19.71 | 18.71 | 17.87 | 16.93 | 15.87 | 14.72 |
| 180.0 | 27.02 | 25.65 | 24.44 | 23.07 | 21.76 | 20.34 | 19.45 | 18.50 | 16.87 |
| 225.0 | 25.76 | 23.97 | 22.71 | 21.29 | 20.08 | 19.03 | 17.82 | 16.35 | 15.14 |
| 270.0 | 24.28 | 22.92 | 21.92 | 20.81 | 19.61 | 18.45 | 17.61 | 16.71 | 15.72 |
| 315.0 | 24.07 | 22.92 | 21.81 | 20.55 | 19.34 | 18.45 | 17.61 | 16.45 | 15.14 |
| 360.0 | 23.34 | 21.92 | 20.55 | 19.50 | 18.50 | 17.35 | 16.71 | 14.88 | 14.03 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 13.56 | 12.67 | 11.62 | 10.67 | 9.93 | 9.30 | 8.52 | 7.52 | 6.89 |
| 45.0 | 13.40 | 12.62 | 12.09 | 10.99 | 10.14 | 9.51 | 8.83 | 8.04 | 7.25 |
| 90.0 | 11.93 | 11.09 | 10.09 | 9.41 | 8.83 | 8.25 | 7.46 | 6.73 | 6.15 |
| 135.0 | 13.77 | 13.04 | 12.30 | 11.35 | 10.46 | 9.83 | 9.36 | 8.52 | 7.78 |
| 180.0 | 15.82 | 14.77 | 13.98 | 12.98 | 11.72 | 10.72 | 10.04 | 9.41 | 8.57 |
| 225.0 | 14.14 | 13.19 | 12.30 | 11.20 | 10.30 | 9.57 | 8.83 | 7.99 | 7.15 |
| 270.0 | 14.40 | 13.82 | 12.62 | 11.83 | 11.30 | 10.25 | 9.62 | 8.88 | 8.25 |
| 315.0 | 14.24 | 13.46 | 12.72 | 11.77 | 10.83 | 10.35 | 9.57 | 8.94 | 8.04 |
| 360.0 | 13.56 | 12.67 | 11.62 | 10.67 | 9.93 | 9.30 | 8.52 | 7.52 | 6.89 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 6.41 | 5.83 | 5.26 | 4.84 | 4.47 | 4.05 | 3.68 | 3.26 | 3.00 |
| 45.0 | 6.68 | 6.10 | 5.62 | 5.10 | 4.73 | 4.36 | 3.99 | 3.68 | 3.31 |
| 90.0 | 5.73 | 5.26 | 4.84 | 4.63 | 3.99 | 3.84 | 3.42 | 3.00 | 2.84 |
| 135.0 | 7.15 | 6.62 | 6.10 | 5.62 | 5.15 | 4.73 | 4.31 | 3.99 | 3.63 |
| 180.0 | 7.57 | 6.94 | 6.47 | 5.83 | 5.20 | 4.73 | 4.31 | 3.94 | 3.57 |
| 225.0 | 6.62 | 6.10 | 5.57 | 5.26 | 4.63 | 4.31 | 3.99 | 3.42 | 3.26 |
| 270.0 | 7.41 | 6.83 | 6.25 | 5.73 | 5.31 | 4.89 | 4.47 | 4.10 | 3.78 |
| 315.0 | 7.31 | 6.83 | 6.36 | 5.83 | 5.31 | 4.94 | 4.57 | 4.15 | 3.78 |
| 360.0 | 6.41 | 5.83 | 5.26 | 4.84 | 4.47 | 4.05 | 3.68 | 3.26 | 3.00 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 2.68 | 2.37 | 2.05 | 1.84 | 1.58 | 1.42 | 1.21 | 1.10 | 0.95 |
| 45.0 | 3.00 | 2.68 | 2.31 | 2.00 | 1.79 | 1.52 | 1.37 | 1.10 | 0.95 |
| 90.0 | 2.52 | 2.21 | 2.00 | 1.79 | 1.47 | 1.37 | 1.16 | 0.95 | 0.79 |
| 135.0 | 3.21 | 2.94 | 2.68 | 2.26 | 2.05 | 1.94 | 1.73 | 1.26 | 1.00 |
| 180.0 | 3.31 | 2.89 | 2.47 | 2.26 | 1.94 | 1.73 | 1.42 | 1.26 | 1.10 |
| 225.0 | 2.94 | 2.63 | 2.26 | 2.05 | 1.79 | 1.52 | 1.26 | 1.10 | 0.89 |
| 270.0 | 3.42 | 3.10 | 2.79 | 2.37 | 2.10 | 1.89 | 1.68 | 1.37 | 1.21 |
| 315.0 | 3.42 | 3.15 | 2.79 | 2.42 | 2.21 | 1.94 | 1.73 | 1.47 | 1.21 |
| 360.0 | 2.68 | 2.37 | 2.05 | 1.84 | 1.58 | 1.42 | 1.21 | 1.10 | 0.95 |

Intensity data(cd)

| | |
|-----------------|------|
| C/ γ (°) | 90.0 |
| 0.0 | 0.89 |
| 45.0 | 0.89 |
| 90.0 | 0.79 |
| 135.0 | 0.84 |
| 180.0 | 0.89 |
| 225.0 | 0.89 |
| 270.0 | 1.05 |
| 315.0 | 1.16 |
| 360.0 | 0.89 |