



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:

LumCAT: 2-2681-L

Luminaire: 92.70.412.00

Report No: 2024316-B019

Ballast type: AC

Test No: 2024316-C019

Voltage(V): 35.090

LampCAT: Fortimo_SLM_C_1205

Current(A): 0.451

Lamp flux(lm): 2703.0

Power (W): 15.825

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2243.77, Efficiency(%): 83.01% , Luminous Efficacy(lm/W): 141.79

Central intensity(cd): 4066.787, Maximum intensity(cd): 4066.787

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=44.0

[C90/270]Total=44.0

Field angle(10%Imax): [C0/180]Total=68.0

[C90/270]Total=68.0

Maximum s/h(1/2): C0_180=0.71 C90_270=0.71

Maximum s/h(1/4): C0_180=0.69 C90_270=0.69

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.01%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.794%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/16
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 4066.787 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 4061.301 | 3.889 | 3.889 | 0.14% | 0.17% |
| 2.0 | 4044.695 | 11.634 | 15.524 | 0.43% | 0.69% |
| 3.0 | 4018.360 | 19.284 | 34.808 | 0.71% | 1.55% |
| 4.0 | 3978.784 | 26.769 | 61.577 | 0.99% | 2.74% |
| 5.0 | 3931.673 | 34.030 | 95.607 | 1.26% | 4.26% |
| 6.0 | 3874.687 | 41.024 | 136.632 | 1.52% | 6.09% |
| 7.0 | 3810.605 | 47.702 | 184.334 | 1.76% | 8.22% |
| 8.0 | 3736.574 | 54.014 | 238.348 | 2.00% | 10.62% |
| 9.0 | 3654.496 | 59.901 | 298.248 | 2.22% | 13.29% |
| 10.0 | 3567.956 | 65.361 | 363.609 | 2.42% | 16.21% |
| 11.0 | 3472.125 | 70.345 | 433.954 | 2.60% | 19.34% |
| 12.0 | 3372.418 | 74.821 | 508.775 | 2.77% | 22.67% |
| 13.0 | 3256.689 | 78.671 | 587.445 | 2.91% | 26.18% |
| 14.0 | 3148.569 | 81.987 | 669.432 | 3.03% | 29.84% |
| 15.0 | 3037.669 | 84.927 | 754.36 | 3.14% | 33.62% |
| 16.0 | 2906.652 | 87.101 | 841.46 | 3.22% | 37.50% |
| 17.0 | 2772.416 | 88.438 | 929.899 | 3.27% | 41.44% |
| 18.0 | 2635.034 | 89.157 | 1019.056 | 3.30% | 45.42% |
| 19.0 | 2494.946 | 89.251 | 1108.307 | 3.30% | 49.39% |
| 20.0 | 2343.592 | 88.559 | 1196.866 | 3.28% | 53.34% |
| 21.0 | 2181.412 | 86.889 | 1283.755 | 3.21% | 57.21% |
| 22.0 | 2032.838 | 84.687 | 1368.442 | 3.13% | 60.99% |
| 23.0 | 1886.458 | 82.237 | 1450.68 | 3.04% | 64.65% |
| 24.0 | 1751.564 | 79.540 | 1530.22 | 2.94% | 68.20% |
| 25.0 | 1594.797 | 76.089 | 1606.309 | 2.81% | 71.59% |
| 26.0 | 1411.358 | 70.961 | 1677.269 | 2.63% | 74.75% |
| 27.0 | 1282.630 | 65.909 | 1743.178 | 2.44% | 77.69% |
| 28.0 | 1144.554 | 61.451 | 1804.629 | 2.27% | 80.43% |
| 29.0 | 1026.433 | 56.799 | 1861.429 | 2.10% | 82.96% |
| 30.0 | 879.776 | 51.467 | 1912.896 | 1.90% | 85.25% |
| 31.0 | 753.046 | 45.439 | 1958.335 | 1.68% | 87.28% |
| 32.0 | 629.673 | 39.613 | 1997.948 | 1.47% | 89.04% |
| 33.0 | 519.512 | 33.855 | 2031.804 | 1.25% | 90.55% |
| 34.0 | 407.587 | 28.057 | 2059.86 | 1.04% | 91.80% |
| 35.0 | 323.966 | 22.719 | 2082.58 | 0.84% | 92.82% |
| 36.0 | 261.844 | 18.652 | 2101.232 | 0.69% | 93.65% |
| 37.0 | 200.425 | 15.077 | 2116.309 | 0.56% | 94.32% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 130.161 | 11.035 | 2127.343 | 0.41% | 94.81% |
| 39.0 | 79.978 | 7.173 | 2134.516 | 0.27% | 95.13% |
| 40.0 | 61.354 | 4.929 | 2139.445 | 0.18% | 95.35% |
| 41.0 | 51.785 | 4.029 | 2143.474 | 0.15% | 95.53% |
| 42.0 | 46.525 | 3.572 | 2147.046 | 0.13% | 95.69% |
| 43.0 | 42.678 | 3.304 | 2150.35 | 0.12% | 95.84% |
| 44.0 | 39.795 | 3.113 | 2153.463 | 0.12% | 95.98% |
| 45.0 | 37.630 | 2.976 | 2156.438 | 0.11% | 96.11% |
| 46.0 | 35.816 | 2.872 | 2159.311 | 0.11% | 96.24% |
| 47.0 | 34.287 | 2.788 | 2162.099 | 0.10% | 96.36% |
| 48.0 | 32.992 | 2.720 | 2164.818 | 0.10% | 96.48% |
| 49.0 | 31.822 | 2.662 | 2167.48 | 0.10% | 96.60% |
| 50.0 | 30.805 | 2.611 | 2170.091 | 0.10% | 96.72% |
| 51.0 | 29.839 | 2.566 | 2172.657 | 0.09% | 96.83% |
| 52.0 | 29.020 | 2.526 | 2175.183 | 0.09% | 96.94% |
| 53.0 | 28.230 | 2.490 | 2177.673 | 0.09% | 97.05% |
| 54.0 | 27.542 | 2.458 | 2180.131 | 0.09% | 97.16% |
| 55.0 | 26.855 | 2.428 | 2182.559 | 0.09% | 97.27% |
| 56.0 | 26.203 | 2.398 | 2184.957 | 0.09% | 97.38% |
| 57.0 | 25.655 | 2.371 | 2187.328 | 0.09% | 97.48% |
| 58.0 | 25.062 | 2.345 | 2189.673 | 0.09% | 97.59% |
| 59.0 | 24.506 | 2.317 | 2191.991 | 0.09% | 97.69% |
| 60.0 | 23.928 | 2.288 | 2194.279 | 0.08% | 97.79% |
| 61.0 | 23.380 | 2.258 | 2196.537 | 0.08% | 97.89% |
| 62.0 | 22.831 | 2.227 | 2198.763 | 0.08% | 97.99% |
| 63.0 | 22.224 | 2.191 | 2200.954 | 0.08% | 98.09% |
| 64.0 | 21.646 | 2.153 | 2203.107 | 0.08% | 98.19% |
| 65.0 | 21.090 | 2.115 | 2205.222 | 0.08% | 98.28% |
| 66.0 | 20.505 | 2.075 | 2207.297 | 0.08% | 98.37% |
| 67.0 | 19.978 | 2.036 | 2209.333 | 0.08% | 98.47% |
| 68.0 | 19.576 | 2.004 | 2211.337 | 0.07% | 98.55% |
| 69.0 | 19.342 | 1.985 | 2213.322 | 0.07% | 98.64% |
| 70.0 | 19.093 | 1.974 | 2215.296 | 0.07% | 98.73% |
| 71.0 | 18.559 | 1.946 | 2217.242 | 0.07% | 98.82% |
| 72.0 | 17.681 | 1.884 | 2219.126 | 0.07% | 98.90% |
| 73.0 | 16.898 | 1.808 | 2220.935 | 0.07% | 98.98% |
| 74.0 | 16.262 | 1.743 | 2222.678 | 0.06% | 99.06% |
| 75.0 | 15.691 | 1.688 | 2224.366 | 0.06% | 99.14% |

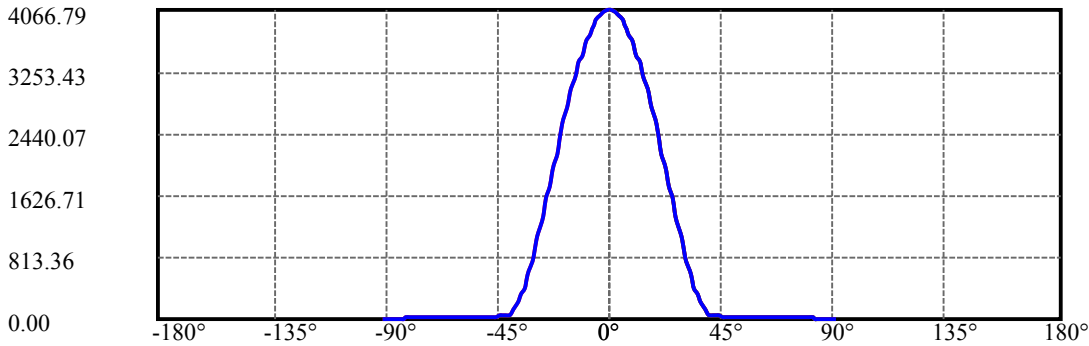
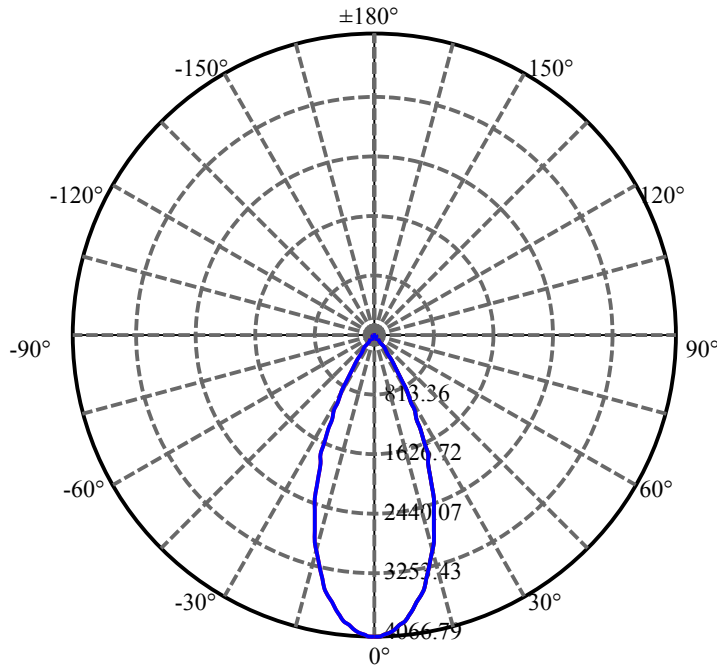
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 14.996 | 1.629 | 2225.995 | 0.06% | 99.21% |
| 77.0 | 14.543 | 1.575 | 2227.57 | 0.06% | 99.28% |
| 78.0 | 14.133 | 1.535 | 2229.105 | 0.06% | 99.35% |
| 79.0 | 13.680 | 1.494 | 2230.6 | 0.06% | 99.41% |
| 80.0 | 13.263 | 1.453 | 2232.052 | 0.05% | 99.48% |
| 81.0 | 12.882 | 1.414 | 2233.466 | 0.05% | 99.54% |
| 82.0 | 12.378 | 1.370 | 2234.836 | 0.05% | 99.60% |
| 83.0 | 11.851 | 1.317 | 2236.153 | 0.05% | 99.66% |
| 84.0 | 11.141 | 1.253 | 2237.406 | 0.05% | 99.72% |
| 85.0 | 10.337 | 1.172 | 2238.578 | 0.04% | 99.77% |
| 86.0 | 9.759 | 1.098 | 2239.676 | 0.04% | 99.82% |
| 87.0 | 9.459 | 1.052 | 2240.728 | 0.04% | 99.86% |
| 88.0 | 9.276 | 1.026 | 2241.754 | 0.04% | 99.91% |
| 89.0 | 9.181 | 1.012 | 2242.766 | 0.04% | 99.96% |
| 90.0 | 9.130 | 1.004 | 2243.77 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1912.90 | 70.77% | 85.25% |
| 0-40 | 2139.44 | 79.15% | 95.35% |
| 0-60 | 2194.28 | 81.18% | 97.79% |
| 0-90 | 2242.77 | 82.97% | 99.96% |
| 0-120 | 2242.77 | 82.97% | 99.96% |
| 0-180 | 2243.77 | 83.01% | 100.00% |
| 60-90 | 48.49 | 1.79% | 2.16% |
| 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% |
| 0-27.84 | 1795.02 | 66.41% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 363.61 |
| 10-20 | 833.26 |
| 20-30 | 716.03 |
| 30-40 | 226.55 |
| 40-50 | 30.65 |
| 50-60 | 24.19 |
| 60-70 | 21.02 |
| 70-80 | 16.76 |
| 80-90 | 10.71 |
| 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: —————

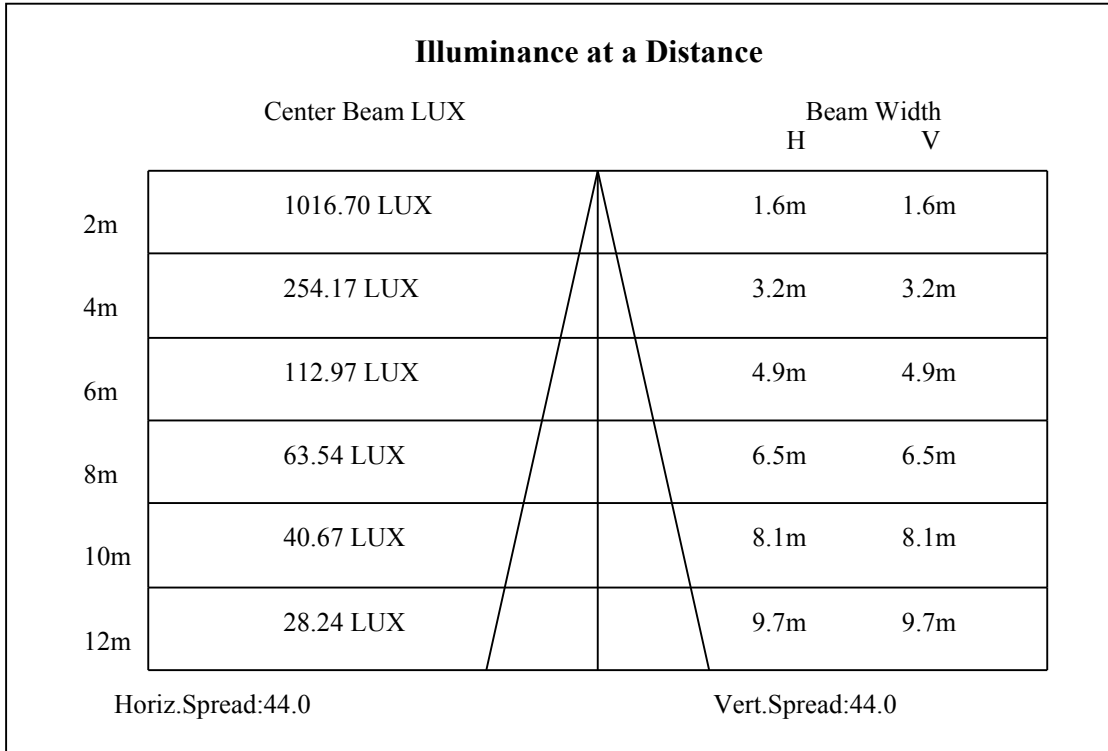
C90/C270: —————

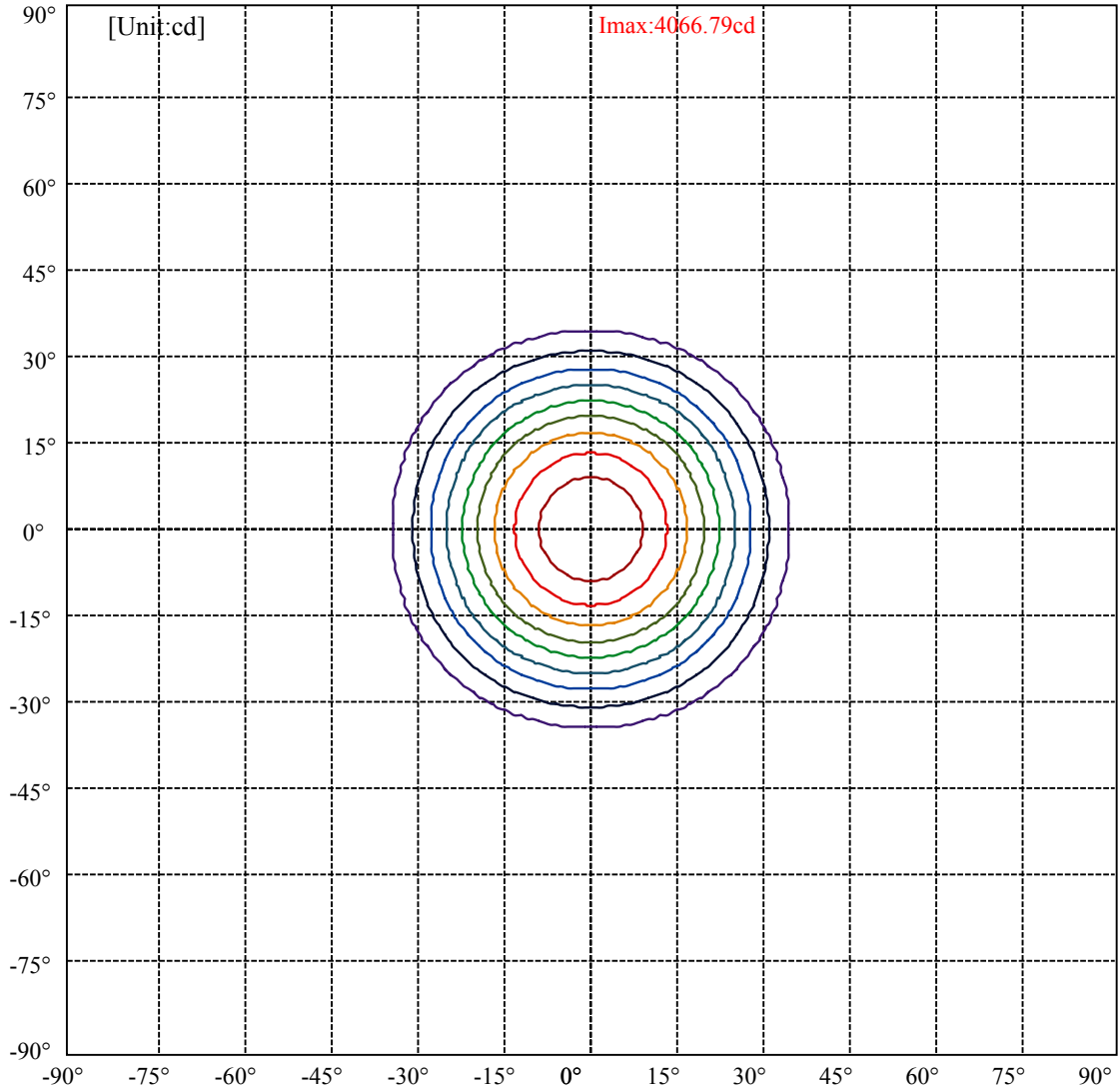
Field angle(10%Imax):C0/180Left:34.0 Right:34.0

:C90/270Left:34.0 Right:34.0

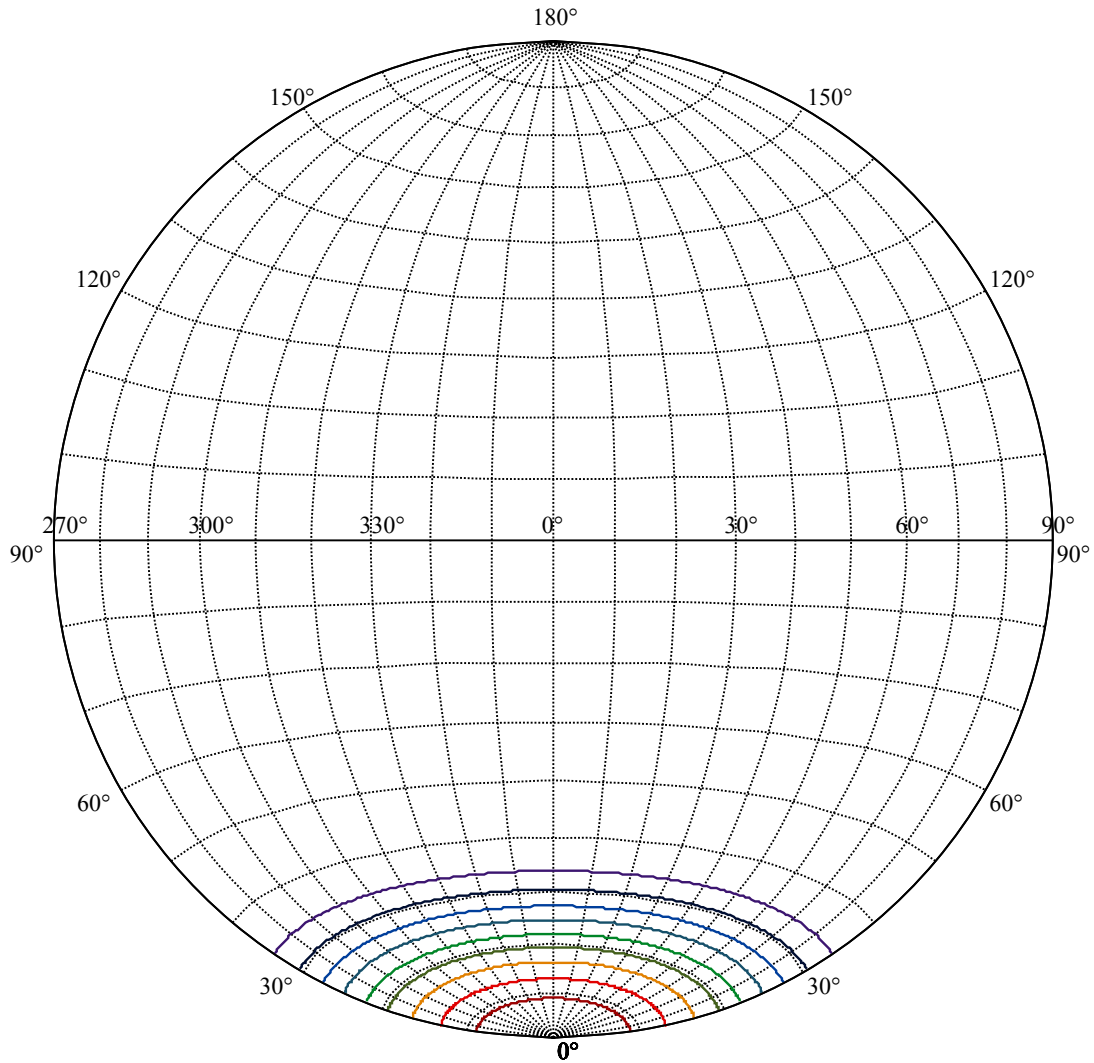
Beam Angle(50%Imax):C0/180Left:22.0 Right:22.0

:C90/270Left:22.0 Right:22.0





| | |
|--------------------------------|---|
| (10%I _{max}) 406.679 | — |
| (20%I _{max}) 813.357 | — |
| (30%I _{max}) 1220.04 | — |
| (40%I _{max}) 1626.71 | — |
| (50%I _{max}) 2033.39 | — |
| (60%I _{max}) 2440.07 | — |
| (70%I _{max}) 2846.75 | — |
| (80%I _{max}) 3253.43 | — |
| (90%I _{max}) 3660.11 | — |



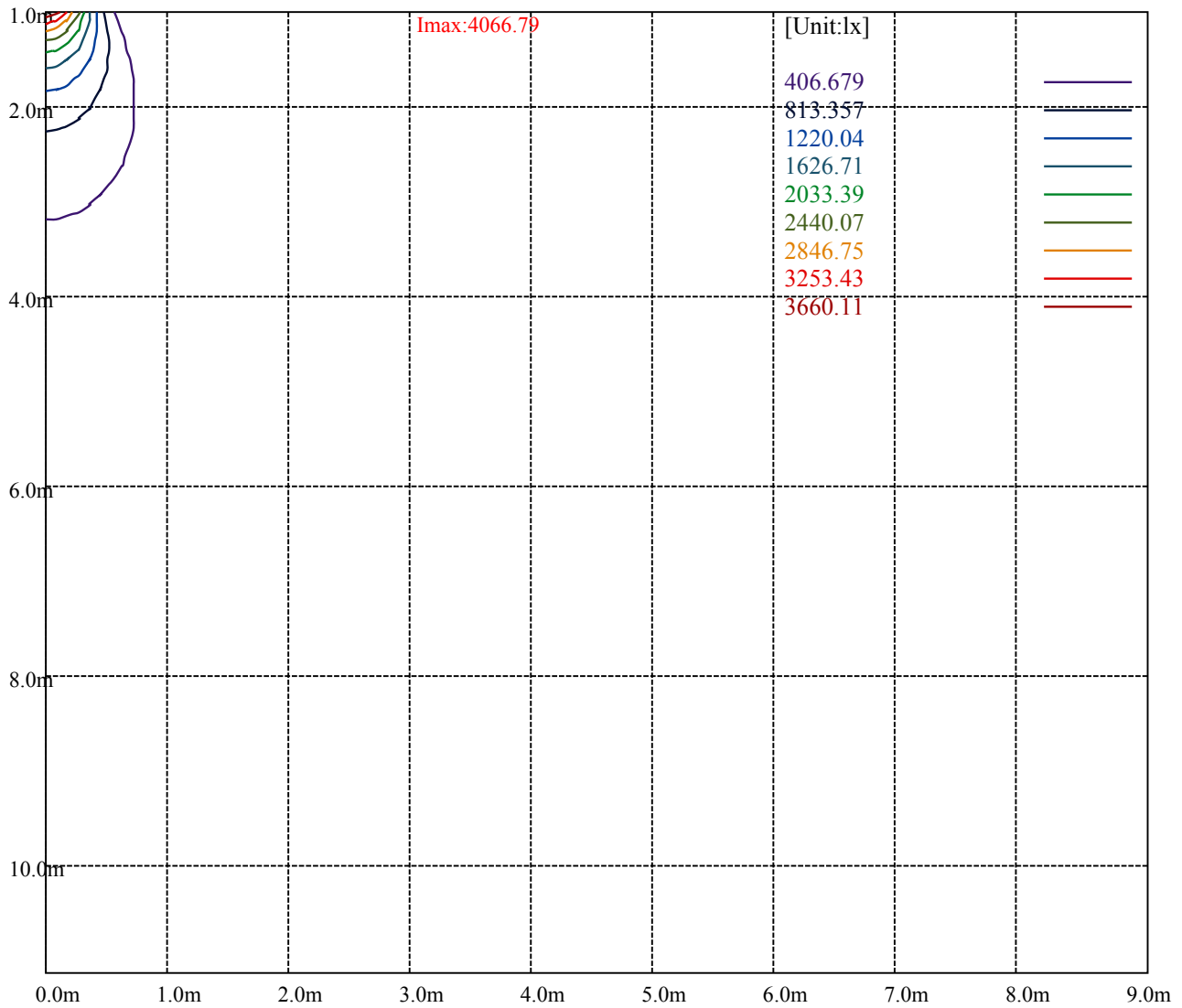
House

[Unit:cd]

Road

Imax:4066.79

| | | |
|-----------|---------|---|
| (10%Imax) | 406.679 | — |
| (20%Imax) | 813.357 | — |
| (30%Imax) | 1220.04 | — |
| (40%Imax) | 1626.71 | — |
| (50%Imax) | 2033.39 | — |
| (60%Imax) | 2440.07 | — |
| (70%Imax) | 2846.75 | — |
| (80%Imax) | 3253.43 | — |
| (90%Imax) | 3660.11 | — |



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

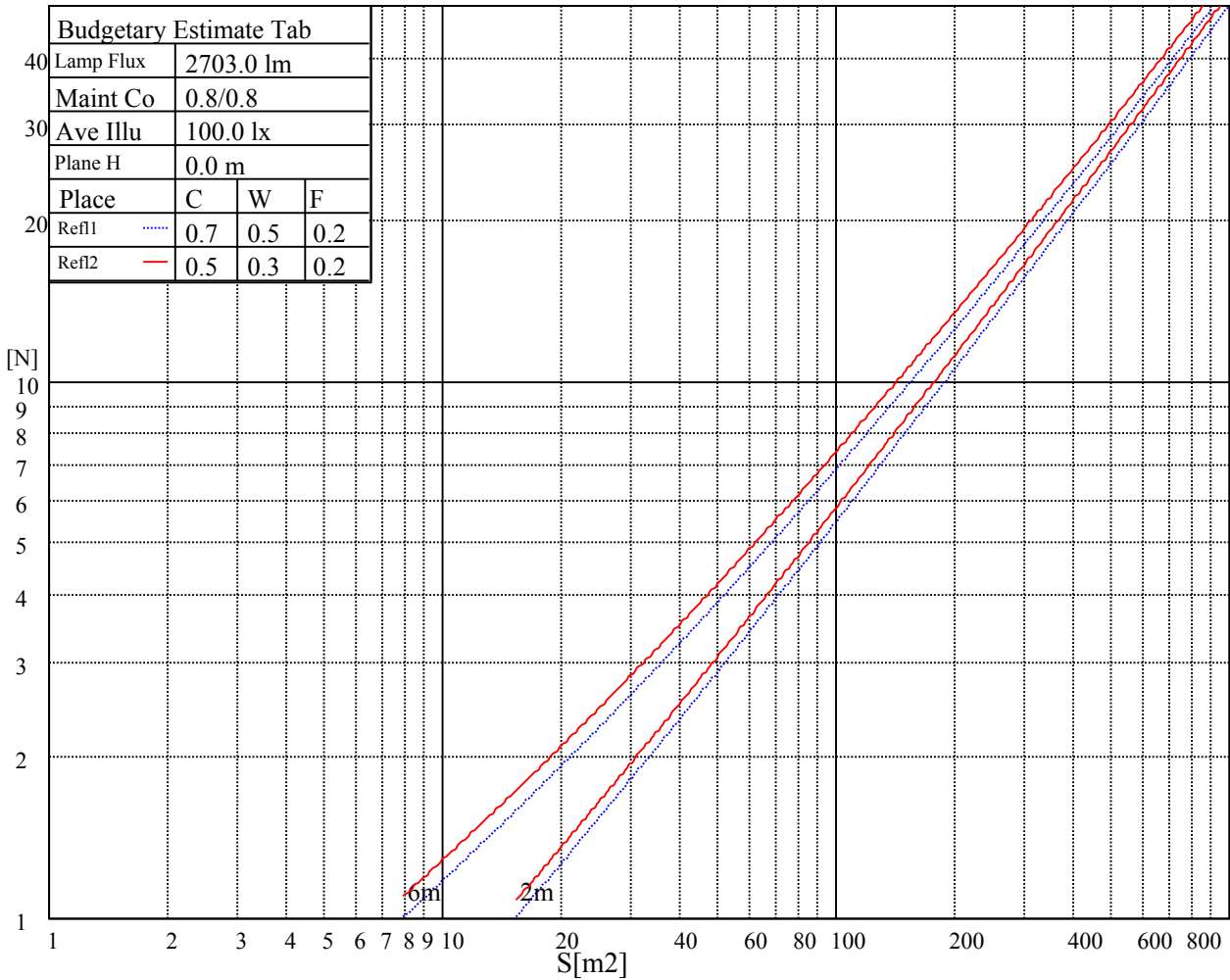
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 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

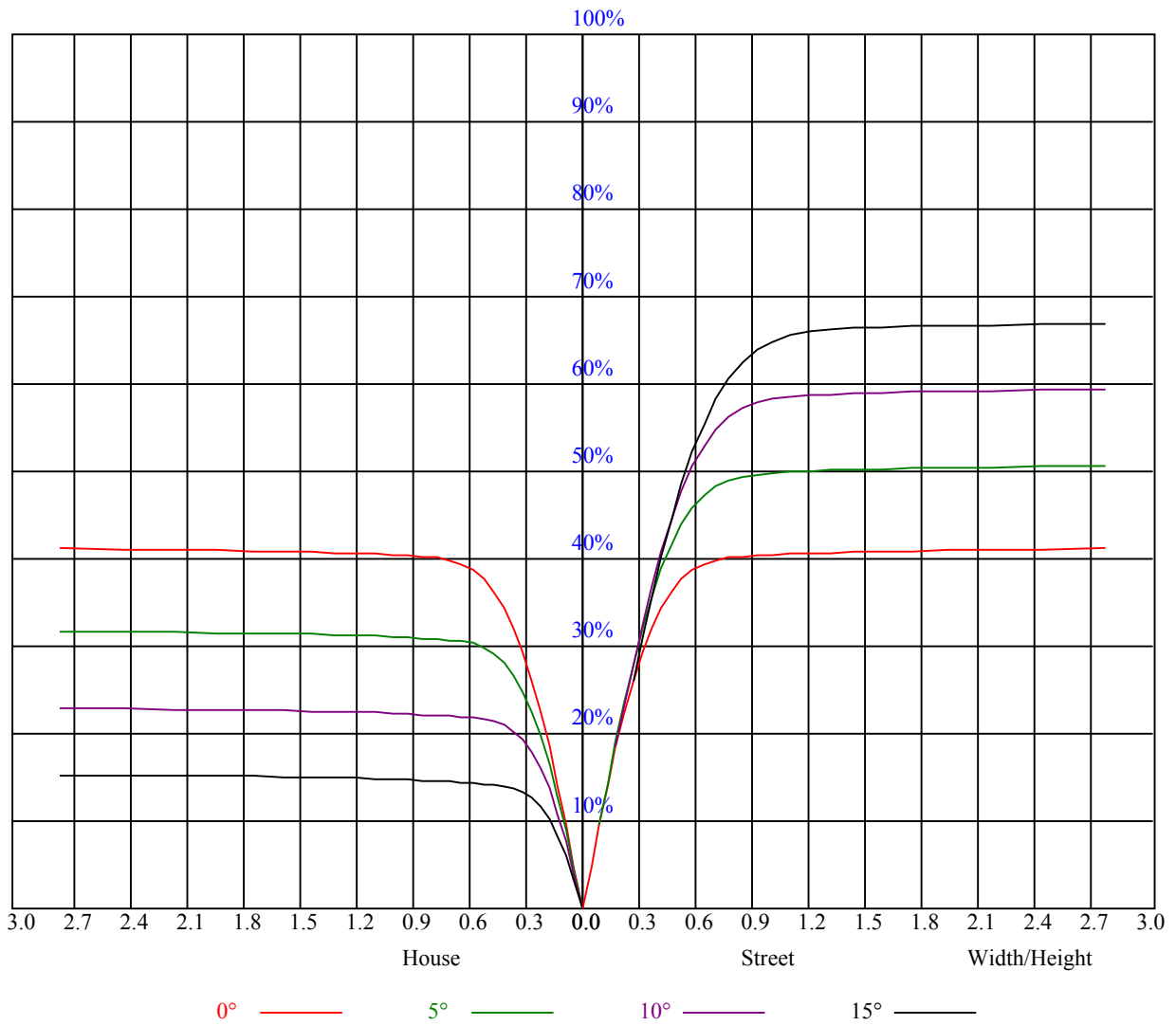


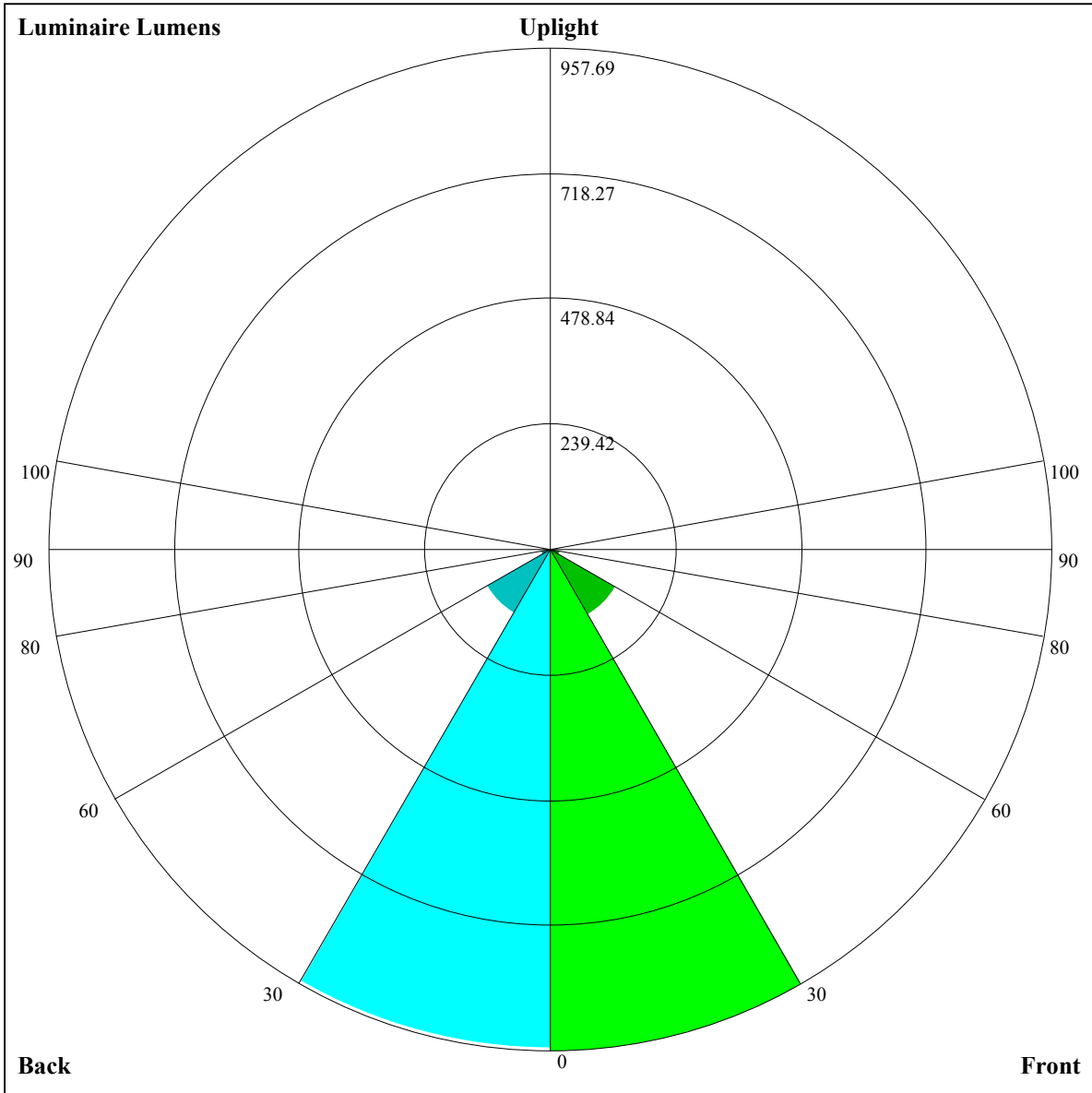
| Illumination assessment according UGR | | | | | | | | | | | |
|---|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|--|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Rf of 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 | |
| | 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 | 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 | |
| 8H | 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 RHOF=20 CU | | | | | | | | | | | | | | | |
| 0 | 0.99 | 0.99 | 0.99 | 0.97 | 0.97 | 0.97 | 0.92 | 0.92 | 0.92 | 0.88 | 0.88 | 0.88 | 0.85 | 0.85 | 0.85 | 0.83 |
| 1 | 0.92 | 0.90 | 0.88 | 0.90 | 0.89 | 0.87 | 0.87 | 0.86 | 0.84 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.78 |
| 2 | 0.86 | 0.83 | 0.81 | 0.85 | 0.82 | 0.80 | 0.82 | 0.80 | 0.78 | 0.80 | 0.78 | 0.76 | 0.78 | 0.76 | 0.75 | 0.73 |
| 3 | 0.81 | 0.78 | 0.75 | 0.80 | 0.77 | 0.74 | 0.78 | 0.75 | 0.73 | 0.76 | 0.74 | 0.72 | 0.74 | 0.72 | 0.71 | 0.69 |
| 4 | 0.77 | 0.73 | 0.70 | 0.76 | 0.72 | 0.69 | 0.74 | 0.71 | 0.68 | 0.73 | 0.70 | 0.68 | 0.71 | 0.69 | 0.67 | 0.66 |
| 5 | 0.73 | 0.68 | 0.65 | 0.72 | 0.68 | 0.65 | 0.71 | 0.67 | 0.64 | 0.69 | 0.66 | 0.64 | 0.68 | 0.65 | 0.63 | 0.62 |
| 6 | 0.69 | 0.65 | 0.62 | 0.69 | 0.64 | 0.61 | 0.67 | 0.64 | 0.61 | 0.66 | 0.63 | 0.61 | 0.65 | 0.62 | 0.60 | 0.59 |
| 7 | 0.66 | 0.61 | 0.58 | 0.65 | 0.61 | 0.58 | 0.64 | 0.61 | 0.58 | 0.63 | 0.60 | 0.58 | 0.62 | 0.59 | 0.57 | 0.56 |
| 8 | 0.63 | 0.58 | 0.55 | 0.62 | 0.58 | 0.55 | 0.61 | 0.58 | 0.55 | 0.61 | 0.57 | 0.55 | 0.60 | 0.57 | 0.55 | 0.54 |
| 9 | 0.60 | 0.56 | 0.53 | 0.60 | 0.55 | 0.53 | 0.59 | 0.55 | 0.52 | 0.58 | 0.55 | 0.52 | 0.57 | 0.54 | 0.52 | 0.51 |
| 10 | 0.57 | 0.53 | 0.50 | 0.57 | 0.53 | 0.50 | 0.56 | 0.53 | 0.50 | 0.56 | 0.52 | 0.50 | 0.55 | 0.52 | 0.50 | 0.49 |





Luminaire Lumens:

FL=957.69,FM=144.64,FH=18.56,FVH=5.86

BL=952.95,BM=141.36,BH=19.06,BVH=5.87

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 | 4071.47 | 4056.25 | 4033.43 | 3990.12 | 3949.16 | 3899.41 | 3825.09 | 3756.62 | 3684.64 |
| 45.0 | 4072.64 | 4069.13 | 4055.08 | 4034.01 | 3991.29 | 3949.74 | 3898.83 | 3826.84 | 3761.88 |
| 90.0 | 4058.01 | 4039.28 | 4000.66 | 3961.45 | 3914.63 | 3857.28 | 3775.93 | 3708.63 | 3631.96 |
| 135.0 | 4065.03 | 4050.40 | 4028.75 | 3995.39 | 3940.38 | 3887.12 | 3826.26 | 3758.96 | 3668.83 |
| 180.0 | 4071.47 | 4074.39 | 4067.96 | 4050.40 | 4023.48 | 3976.08 | 3929.26 | 3874.25 | 3812.21 |
| 225.0 | 4072.64 | 4063.28 | 4043.96 | 4015.87 | 3977.83 | 3918.14 | 3863.13 | 3800.51 | 3712.14 |
| 270.0 | 4058.01 | 4069.71 | 4067.37 | 4056.25 | 4024.65 | 3993.05 | 3951.50 | 3901.75 | 3827.43 |
| 315.0 | 4065.03 | 4067.96 | 4060.35 | 4043.38 | 4008.85 | 3972.57 | 3927.50 | 3857.28 | 3793.49 |
| 360.0 | 4071.47 | 4056.25 | 4033.43 | 3990.12 | 3949.16 | 3899.41 | 3825.09 | 3756.62 | 3684.64 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 3583.39 | 3494.44 | 3398.46 | 3297.22 | 3166.13 | 3055.52 | 2939.64 | 2817.33 | 2659.32 |
| 45.0 | 3670.00 | 3590.41 | 3506.73 | 3391.44 | 3291.36 | 3189.53 | 3079.51 | 2936.13 | 2815.58 |
| 90.0 | 3550.03 | 3437.67 | 3342.86 | 3242.21 | 3109.94 | 2998.75 | 2878.78 | 2723.11 | 2592.02 |
| 135.0 | 3589.24 | 3504.97 | 3389.68 | 3291.36 | 3160.86 | 3050.84 | 2935.55 | 2782.80 | 2655.81 |
| 180.0 | 3723.26 | 3647.77 | 3544.77 | 3454.64 | 3359.84 | 3234.01 | 3128.67 | 3017.48 | 2870.00 |
| 225.0 | 3635.48 | 3552.96 | 3442.94 | 3348.72 | 3222.89 | 3118.14 | 3004.60 | 2889.31 | 2730.72 |
| 270.0 | 3760.71 | 3689.90 | 3610.31 | 3502.63 | 3409.58 | 3312.43 | 3210.60 | 3074.25 | 2961.30 |
| 315.0 | 3723.85 | 3625.53 | 3541.25 | 3451.13 | 3332.91 | 3229.33 | 3123.99 | 3012.80 | 2894.58 |
| 360.0 | 3583.39 | 3494.44 | 3398.46 | 3297.22 | 3166.13 | 3055.52 | 2939.64 | 2817.33 | 2659.32 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 2526.47 | 2387.19 | 2202.85 | 2062.39 | 1892.68 | 1763.93 | 1633.42 | 1497.65 | 1147.74 |
| 45.0 | 2687.41 | 2557.49 | 2419.38 | 2236.20 | 2095.16 | 1923.11 | 1792.60 | 1660.93 | 1487.12 |
| 90.0 | 2456.83 | 2278.34 | 2133.20 | 1995.09 | 1864.00 | 1702.48 | 1570.22 | 1325.01 | 1147.86 |
| 135.0 | 2523.55 | 2385.44 | 2205.77 | 2067.66 | 1934.23 | 1806.06 | 1677.31 | 1505.26 | 1360.71 |
| 180.0 | 2745.35 | 2613.67 | 2472.63 | 2284.19 | 2137.89 | 1998.60 | 1866.93 | 1709.50 | 1583.68 |
| 225.0 | 2596.12 | 2457.42 | 2312.28 | 2164.81 | 1989.82 | 1858.73 | 1731.15 | 1569.05 | 1327.93 |
| 270.0 | 2809.14 | 2679.22 | 2538.76 | 2354.42 | 2208.70 | 2068.24 | 1897.36 | 1772.12 | 1646.30 |
| 315.0 | 2735.40 | 2600.80 | 2463.86 | 2286.53 | 2140.23 | 1970.51 | 1843.52 | 1718.86 | 1589.53 |
| 360.0 | 2526.47 | 2387.19 | 2202.85 | 2062.39 | 1892.68 | 1763.93 | 1633.42 | 1497.65 | 1147.74 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 1147.74 | 1049.02 | 918.80 | 768.11 | 655.10 | 547.19 | 447.81 | 335.33 | 255.86 |
| 45.0 | 1346.08 | 1207.96 | 1041.17 | 914.18 | 790.11 | 675.41 | 541.98 | 445.41 | 352.95 |
| 90.0 | 1113.98 | 984.17 | 858.53 | 708.94 | 598.28 | 467.71 | 373.02 | 287.87 | 197.69 |
| 135.0 | 1217.33 | 1045.27 | 916.52 | 761.44 | 647.32 | 542.56 | 420.84 | 331.88 | 311.40 |
| 180.0 | 1445.56 | 1266.49 | 1135.40 | 970.36 | 839.86 | 710.52 | 604.01 | 476.43 | 376.36 |
| 225.0 | 1155.41 | 1120.94 | 988.97 | 830.20 | 701.10 | 589.85 | 482.05 | 362.31 | 279.39 |
| 270.0 | 1515.21 | 1340.22 | 1209.72 | 1079.21 | 945.78 | 780.16 | 673.07 | 535.54 | 426.69 |
| 315.0 | 1319.74 | 1142.36 | 1142.36 | 1005.77 | 846.82 | 723.98 | 613.32 | 485.91 | 391.40 |
| 360.0 | 1147.74 | 1049.02 | 918.80 | 768.11 | 655.10 | 547.19 | 447.81 | 335.33 | 255.86 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 172.93 | 118.33 | 80.18 | 58.41 | 51.79 | 46.47 | 41.79 | 39.21 | 37.22 |
| 45.0 | 311.98 | 311.98 | 121.79 | 82.87 | 58.99 | 52.09 | 46.76 | 42.02 | 39.44 |
| 90.0 | 139.17 | 93.46 | 67.24 | 54.72 | 48.75 | 44.18 | 41.02 | 38.22 | 36.28 |
| 135.0 | 311.40 | 112.01 | 78.01 | 60.57 | 53.61 | 46.94 | 43.19 | 40.50 | 37.81 |
| 180.0 | 306.13 | 306.13 | 139.40 | 94.40 | 69.35 | 57.64 | 50.39 | 46.00 | 42.90 |
| 225.0 | 208.34 | 148.12 | 103.99 | 70.05 | 58.58 | 50.91 | 46.41 | 43.19 | 40.32 |
| 270.0 | 337.73 | 300.28 | 300.28 | 116.52 | 83.39 | 60.63 | 53.55 | 48.05 | 44.07 |
| 315.0 | 307.07 | 213.08 | 150.40 | 102.30 | 66.36 | 55.42 | 49.10 | 44.24 | 40.32 |
| 360.0 | 172.93 | 118.33 | 80.18 | 58.41 | 51.79 | 46.47 | 41.79 | 39.21 | 37.22 |

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 | 35.46 | 33.71 | 32.54 | 31.49 | 30.49 | 29.67 | 28.73 | 28.15 | 27.33 |
| 45.0 | 37.45 | 35.35 | 33.94 | 32.66 | 31.49 | 30.31 | 29.50 | 28.79 | 28.09 |
| 90.0 | 34.76 | 33.12 | 31.95 | 30.90 | 29.79 | 28.97 | 28.27 | 27.45 | 26.86 |
| 135.0 | 36.05 | 34.53 | 32.89 | 31.72 | 30.43 | 29.50 | 28.68 | 27.97 | 27.27 |
| 180.0 | 40.09 | 38.22 | 36.34 | 34.94 | 33.77 | 32.66 | 31.49 | 30.55 | 29.73 |
| 225.0 | 38.45 | 36.81 | 35.05 | 33.83 | 32.83 | 31.84 | 30.67 | 29.79 | 28.97 |
| 270.0 | 40.73 | 38.62 | 36.93 | 35.41 | 33.88 | 32.66 | 31.72 | 30.55 | 29.67 |
| 315.0 | 38.04 | 36.17 | 34.65 | 33.01 | 31.89 | 30.84 | 29.67 | 28.91 | 27.92 |
| 360.0 | 35.46 | 33.71 | 32.54 | 31.49 | 30.49 | 29.67 | 28.73 | 28.15 | 27.33 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 26.80 | 26.10 | 25.57 | 25.11 | 24.58 | 23.94 | 23.47 | 22.94 | 22.47 |
| 45.0 | 27.33 | 26.74 | 26.04 | 25.57 | 25.05 | 24.46 | 23.99 | 23.47 | 22.94 |
| 90.0 | 26.28 | 25.69 | 25.05 | 24.46 | 23.99 | 23.47 | 22.82 | 22.36 | 21.83 |
| 135.0 | 26.51 | 25.93 | 25.28 | 24.76 | 24.11 | 23.58 | 23.00 | 22.47 | 21.95 |
| 180.0 | 29.03 | 28.15 | 27.51 | 26.92 | 26.22 | 25.63 | 25.11 | 24.40 | 23.94 |
| 225.0 | 28.27 | 27.45 | 26.86 | 26.28 | 25.63 | 25.11 | 24.40 | 23.88 | 23.29 |
| 270.0 | 28.79 | 28.09 | 27.45 | 26.86 | 26.16 | 25.57 | 24.99 | 24.40 | 23.64 |
| 315.0 | 27.33 | 26.69 | 25.87 | 25.28 | 24.76 | 24.29 | 23.64 | 23.12 | 22.59 |
| 360.0 | 26.80 | 26.10 | 25.57 | 25.11 | 24.58 | 23.94 | 23.47 | 22.94 | 22.47 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 21.77 | 21.30 | 20.72 | 19.96 | 19.37 | 18.79 | 18.20 | 17.56 | 17.03 |
| 45.0 | 22.36 | 21.83 | 21.30 | 20.78 | 20.13 | 19.96 | 20.31 | 21.19 | 20.72 |
| 90.0 | 21.19 | 20.66 | 19.96 | 19.43 | 18.84 | 18.14 | 17.62 | 17.09 | 16.56 |
| 135.0 | 21.36 | 20.78 | 20.31 | 19.55 | 19.02 | 18.43 | 17.91 | 17.15 | 16.68 |
| 180.0 | 23.35 | 22.65 | 22.12 | 21.54 | 20.78 | 20.25 | 19.66 | 19.14 | 18.43 |
| 225.0 | 22.59 | 21.95 | 21.48 | 21.07 | 21.24 | 21.89 | 23.00 | 23.99 | 23.47 |
| 270.0 | 23.12 | 22.59 | 21.95 | 21.36 | 20.78 | 20.07 | 19.49 | 18.79 | 18.26 |
| 315.0 | 22.06 | 21.42 | 20.89 | 20.37 | 19.66 | 19.08 | 18.55 | 17.85 | 17.32 |
| 360.0 | 21.77 | 21.30 | 20.72 | 19.96 | 19.37 | 18.79 | 18.20 | 17.56 | 17.03 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 16.33 | 15.74 | 15.22 | 14.75 | 14.22 | 13.87 | 13.52 | 13.23 | 12.82 |
| 45.0 | 19.55 | 17.85 | 16.97 | 16.09 | 14.86 | 14.28 | 13.87 | 13.46 | 13.11 |
| 90.0 | 15.80 | 15.22 | 14.75 | 14.34 | 13.81 | 13.46 | 13.11 | 12.64 | 12.29 |
| 135.0 | 16.09 | 15.51 | 14.75 | 14.40 | 14.05 | 13.64 | 13.28 | 12.76 | 12.41 |
| 180.0 | 17.91 | 17.44 | 16.85 | 16.15 | 15.74 | 15.33 | 14.98 | 14.51 | 14.05 |
| 225.0 | 21.36 | 20.07 | 19.49 | 18.90 | 17.32 | 16.62 | 15.80 | 14.92 | 14.10 |
| 270.0 | 17.73 | 17.21 | 16.50 | 15.92 | 15.45 | 15.04 | 14.63 | 14.34 | 13.99 |
| 315.0 | 16.68 | 16.15 | 15.57 | 14.98 | 14.51 | 14.10 | 13.87 | 13.58 | 13.34 |
| 360.0 | 16.33 | 15.74 | 15.22 | 14.75 | 14.22 | 13.87 | 13.52 | 13.23 | 12.82 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 12.47 | 12.00 | 11.35 | 10.59 | 9.89 | 9.48 | 9.36 | 9.19 | 9.07 |
| 45.0 | 12.82 | 12.35 | 12.06 | 11.29 | 10.48 | 9.89 | 9.48 | 9.31 | 9.19 |
| 90.0 | 12.06 | 11.76 | 11.18 | 10.42 | 9.66 | 9.42 | 9.31 | 9.19 | 9.13 |
| 135.0 | 12.11 | 11.82 | 11.24 | 10.53 | 9.66 | 9.42 | 9.31 | 9.13 | 9.13 |
| 180.0 | 13.75 | 12.93 | 12.47 | 11.88 | 10.94 | 10.01 | 9.54 | 9.31 | 9.19 |
| 225.0 | 13.34 | 12.47 | 11.88 | 10.89 | 10.18 | 9.60 | 9.42 | 9.31 | 9.19 |
| 270.0 | 13.64 | 13.17 | 12.58 | 12.06 | 11.18 | 10.30 | 9.71 | 9.42 | 9.31 |
| 315.0 | 12.87 | 12.52 | 12.06 | 11.47 | 10.71 | 9.95 | 9.54 | 9.36 | 9.25 |
| 360.0 | 12.47 | 12.00 | 11.35 | 10.59 | 9.89 | 9.48 | 9.36 | 9.19 | 9.07 |

Intensity data(cd)

| | |
|----------------|------|
| <i>C/γ</i> (°) | 90.0 |
| 0.0 | 9.07 |
| 45.0 | 9.13 |
| 90.0 | 9.13 |
| 135.0 | 9.13 |
| 180.0 | 9.07 |
| 225.0 | 9.19 |
| 270.0 | 9.19 |
| 315.0 | 9.13 |
| 360.0 | 9.07 |