



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: 2-2683-L

Luminaire: 92.70.411.00

Report No: 2024402-B013

Ballast type: AC

Test No: 2024402-C013

Voltage(V): 35.170

LampCAT: LUMILEDS LUXEON 1205

Current(A): 0.485

Lamp flux(lm): 2202.0

Power (W): 17.057

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1898.68, Efficiency(%): 86.23% , Luminous Efficacy(lm/W): 111.31

Central intensity(cd): 6889.767, Maximum intensity(cd): 6889.767

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=23.8

[C90/270]Total=23.8

Field angle(10%Imax): [C0/180]Total=56.4

[C90/270]Total=56.4

Maximum s/h(1/2): C0_180=0.40 C90_270=0.40

Maximum s/h(1/4): C0_180=0.43 C90_270=0.43

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.23%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.011%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/02
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 | 6889.766 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 6864.601 | 6.581 | 6.581 | 0.30% | 0.35% |
| 2.0 | 6784.352 | 19.590 | 26.171 | 0.89% | 1.38% |
| 3.0 | 6637.827 | 32.101 | 58.273 | 1.46% | 3.07% |
| 4.0 | 6449.311 | 43.807 | 102.08 | 1.99% | 5.38% |
| 5.0 | 6185.375 | 54.354 | 156.434 | 2.47% | 8.24% |
| 6.0 | 5848.505 | 63.241 | 219.675 | 2.87% | 11.57% |
| 7.0 | 5501.466 | 70.449 | 290.124 | 3.20% | 15.28% |
| 8.0 | 5085.883 | 75.772 | 365.895 | 3.44% | 19.27% |
| 9.0 | 4682.005 | 79.163 | 445.059 | 3.60% | 23.44% |
| 10.0 | 4251.645 | 80.846 | 525.905 | 3.67% | 27.70% |
| 11.0 | 3836.647 | 80.819 | 606.724 | 3.67% | 31.95% |
| 12.0 | 3416.895 | 79.292 | 686.015 | 3.60% | 36.13% |
| 13.0 | 3063.492 | 76.906 | 762.921 | 3.49% | 40.18% |
| 14.0 | 2717.843 | 74.001 | 836.922 | 3.36% | 44.08% |
| 15.0 | 2420.330 | 70.539 | 907.461 | 3.20% | 47.79% |
| 16.0 | 2134.447 | 66.740 | 974.201 | 3.03% | 51.31% |
| 17.0 | 1908.697 | 62.963 | 1037.164 | 2.86% | 54.63% |
| 18.0 | 1710.159 | 59.667 | 1096.831 | 2.71% | 57.77% |
| 19.0 | 1542.419 | 56.588 | 1153.419 | 2.57% | 60.75% |
| 20.0 | 1373.830 | 53.375 | 1206.795 | 2.42% | 63.56% |
| 21.0 | 1251.299 | 50.408 | 1257.202 | 2.29% | 66.21% |
| 22.0 | 1181.445 | 48.887 | 1306.089 | 2.22% | 68.79% |
| 23.0 | 1093.149 | 47.727 | 1353.817 | 2.17% | 71.30% |
| 24.0 | 1013.888 | 46.067 | 1399.884 | 2.09% | 73.73% |
| 25.0 | 936.931 | 44.357 | 1444.241 | 2.01% | 76.07% |
| 26.0 | 857.442 | 42.356 | 1486.598 | 1.92% | 78.30% |
| 27.0 | 784.421 | 40.169 | 1526.766 | 1.82% | 80.41% |
| 28.0 | 704.260 | 37.690 | 1564.456 | 1.71% | 82.40% |
| 29.0 | 622.782 | 34.719 | 1599.176 | 1.58% | 84.23% |
| 30.0 | 541.077 | 31.424 | 1630.6 | 1.43% | 85.88% |
| 31.0 | 459.460 | 27.844 | 1658.443 | 1.26% | 87.35% |
| 32.0 | 389.028 | 24.308 | 1682.751 | 1.10% | 88.63% |
| 33.0 | 322.064 | 20.949 | 1703.7 | 0.95% | 89.73% |
| 34.0 | 283.256 | 18.319 | 1722.019 | 0.83% | 90.70% |
| 35.0 | 249.723 | 16.552 | 1738.571 | 0.75% | 91.57% |
| 36.0 | 213.702 | 14.756 | 1753.327 | 0.67% | 92.34% |
| 37.0 | 166.636 | 12.404 | 1765.731 | 0.56% | 93.00% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 142.605 | 10.322 | 1776.054 | 0.47% | 93.54% |
| 39.0 | 120.381 | 8.976 | 1785.03 | 0.41% | 94.01% |
| 40.0 | 102.700 | 7.780 | 1792.81 | 0.35% | 94.42% |
| 41.0 | 87.557 | 6.775 | 1799.585 | 0.31% | 94.78% |
| 42.0 | 74.982 | 5.905 | 1805.49 | 0.27% | 95.09% |
| 43.0 | 64.155 | 5.154 | 1810.644 | 0.23% | 95.36% |
| 44.0 | 55.589 | 4.519 | 1815.164 | 0.21% | 95.60% |
| 45.0 | 48.413 | 3.997 | 1819.161 | 0.18% | 95.81% |
| 46.0 | 43.658 | 3.601 | 1822.762 | 0.16% | 96.00% |
| 47.0 | 40.249 | 3.337 | 1826.099 | 0.15% | 96.18% |
| 48.0 | 37.754 | 3.153 | 1829.252 | 0.14% | 96.34% |
| 49.0 | 35.867 | 3.023 | 1832.275 | 0.14% | 96.50% |
| 50.0 | 34.536 | 2.935 | 1835.211 | 0.13% | 96.66% |
| 51.0 | 33.621 | 2.884 | 1838.094 | 0.13% | 96.81% |
| 52.0 | 32.524 | 2.838 | 1840.933 | 0.13% | 96.96% |
| 53.0 | 31.463 | 2.783 | 1843.716 | 0.13% | 97.10% |
| 54.0 | 30.315 | 2.723 | 1846.439 | 0.12% | 97.25% |
| 55.0 | 29.210 | 2.657 | 1849.096 | 0.12% | 97.39% |
| 56.0 | 27.740 | 2.573 | 1851.669 | 0.12% | 97.52% |
| 57.0 | 26.408 | 2.476 | 1854.145 | 0.11% | 97.65% |
| 58.0 | 24.843 | 2.370 | 1856.515 | 0.11% | 97.78% |
| 59.0 | 23.387 | 2.255 | 1858.77 | 0.10% | 97.90% |
| 60.0 | 21.953 | 2.142 | 1860.912 | 0.10% | 98.01% |
| 61.0 | 20.688 | 2.035 | 1862.947 | 0.09% | 98.12% |
| 62.0 | 19.422 | 1.933 | 1864.88 | 0.09% | 98.22% |
| 63.0 | 18.405 | 1.840 | 1866.719 | 0.08% | 98.32% |
| 64.0 | 17.315 | 1.753 | 1868.472 | 0.08% | 98.41% |
| 65.0 | 16.379 | 1.668 | 1870.14 | 0.08% | 98.50% |
| 66.0 | 15.450 | 1.588 | 1871.728 | 0.07% | 98.58% |
| 67.0 | 14.579 | 1.510 | 1873.238 | 0.07% | 98.66% |
| 68.0 | 13.833 | 1.439 | 1874.677 | 0.07% | 98.74% |
| 69.0 | 13.241 | 1.381 | 1876.058 | 0.06% | 98.81% |
| 70.0 | 12.699 | 1.332 | 1877.39 | 0.06% | 98.88% |
| 71.0 | 12.275 | 1.291 | 1878.681 | 0.06% | 98.95% |
| 72.0 | 11.865 | 1.255 | 1879.937 | 0.06% | 99.01% |
| 73.0 | 11.573 | 1.226 | 1881.162 | 0.06% | 99.08% |
| 74.0 | 11.273 | 1.201 | 1882.363 | 0.05% | 99.14% |
| 75.0 | 10.988 | 1.176 | 1883.539 | 0.05% | 99.20% |

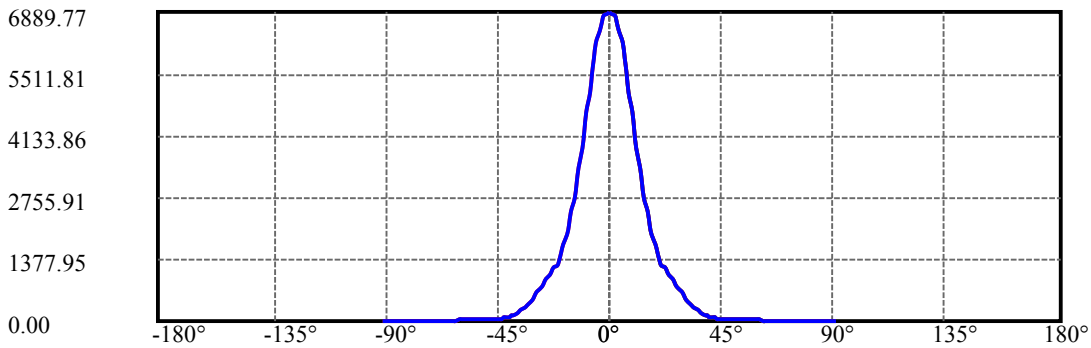
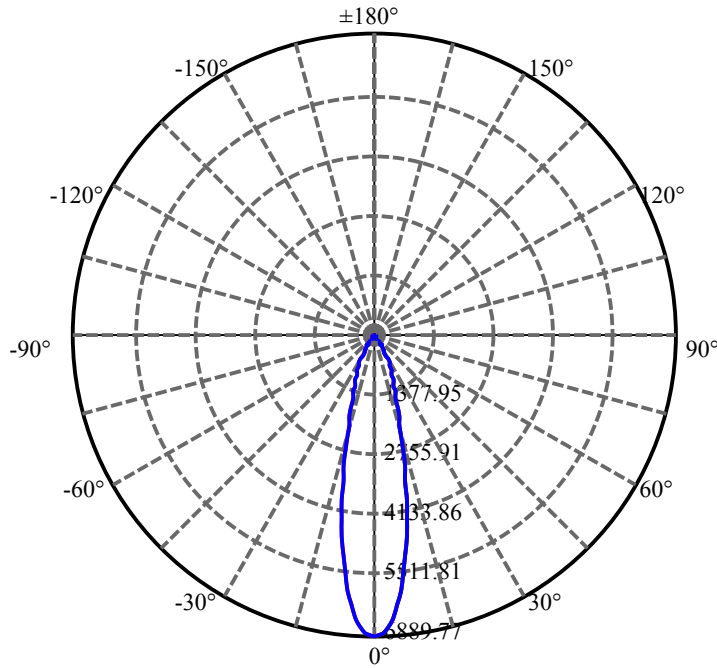
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 10.754 | 1.154 | 1884.694 | 0.05% | 99.26% |
| 77.0 | 10.505 | 1.133 | 1885.827 | 0.05% | 99.32% |
| 78.0 | 10.241 | 1.111 | 1886.937 | 0.05% | 99.38% |
| 79.0 | 10.000 | 1.088 | 1888.025 | 0.05% | 99.44% |
| 80.0 | 9.759 | 1.065 | 1889.09 | 0.05% | 99.49% |
| 81.0 | 9.546 | 1.044 | 1890.134 | 0.05% | 99.55% |
| 82.0 | 9.320 | 1.023 | 1891.157 | 0.05% | 99.60% |
| 83.0 | 9.108 | 1.002 | 1892.159 | 0.05% | 99.66% |
| 84.0 | 8.917 | 0.982 | 1893.141 | 0.04% | 99.71% |
| 85.0 | 8.734 | 0.963 | 1894.104 | 0.04% | 99.76% |
| 86.0 | 8.574 | 0.946 | 1895.051 | 0.04% | 99.81% |
| 87.0 | 8.398 | 0.929 | 1895.979 | 0.04% | 99.86% |
| 88.0 | 8.266 | 0.913 | 1896.892 | 0.04% | 99.91% |
| 89.0 | 8.157 | 0.900 | 1897.792 | 0.04% | 99.95% |
| 90.0 | 8.098 | 0.891 | 1898.684 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1630.60 | 74.05% | 85.88% |
| 0-40 | 1792.81 | 81.42% | 94.42% |
| 0-60 | 1860.91 | 84.51% | 98.01% |
| 0-90 | 1897.79 | 86.18% | 99.95% |
| 0-120 | 1897.79 | 86.18% | 99.95% |
| 0-180 | 1898.68 | 86.23% | 100.00% |
| 60-90 | 36.88 | 1.67% | 1.94% |
| 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% |
| 0-26.81 | 1518.95 | 68.98% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 525.91 |
| 10-20 | 680.89 |
| 20-30 | 423.80 |
| 30-40 | 162.21 |
| 40-50 | 42.40 |
| 50-60 | 25.70 |
| 60-70 | 16.48 |
| 70-80 | 11.70 |
| 80-90 | 8.70 |
| 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: —————

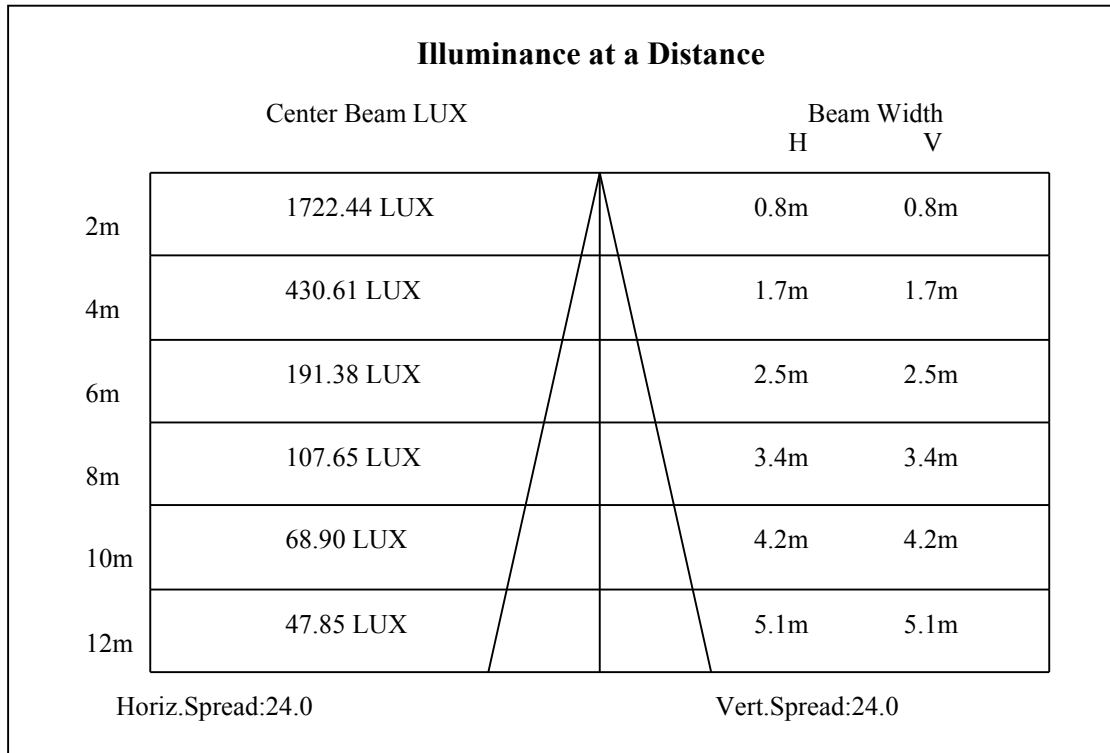
C90/C270: —————

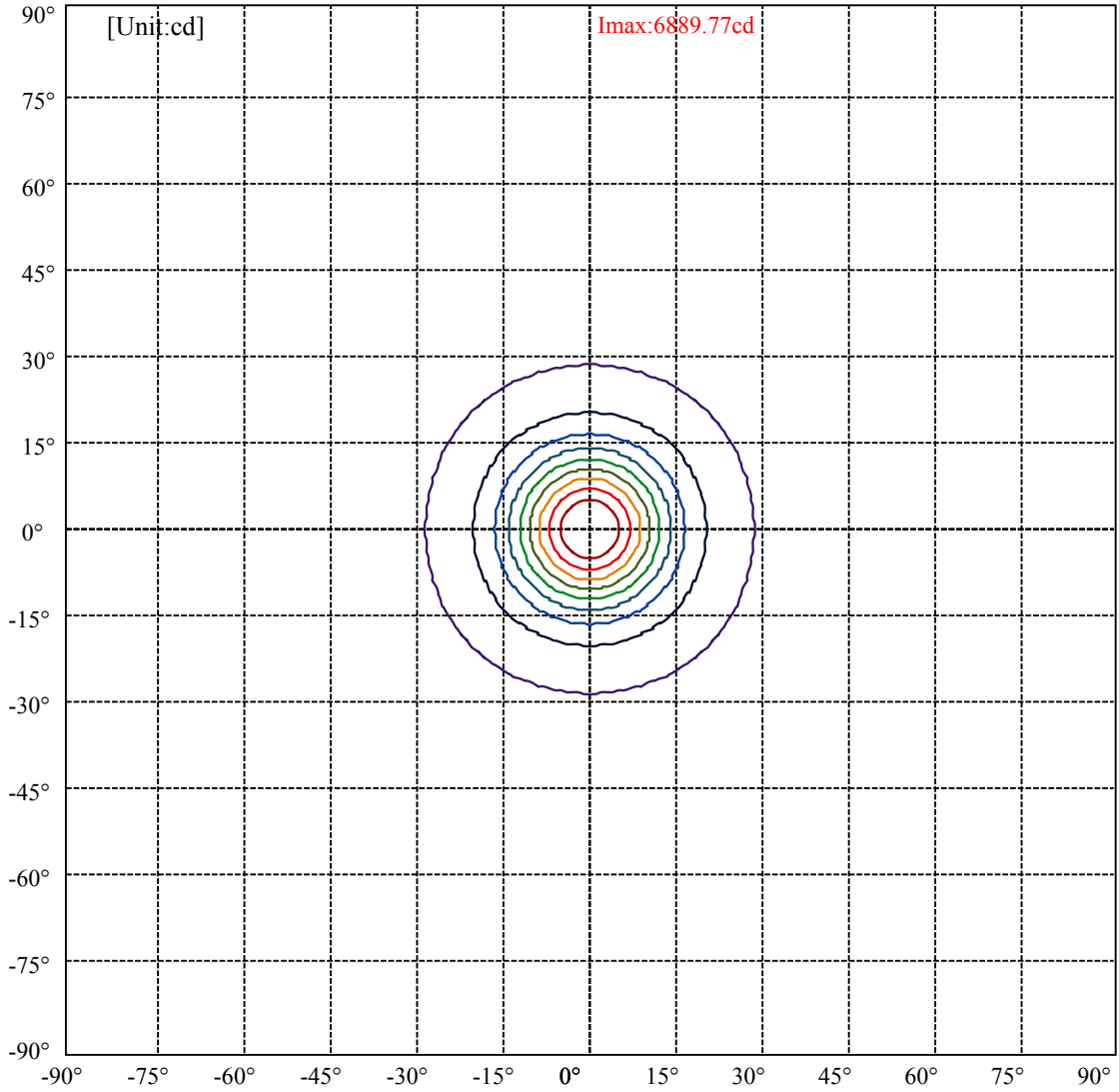
Field angle(10%Imax):C0/180Left:28.2 Right:28.2

:C90/270Left:28.2 Right:28.2

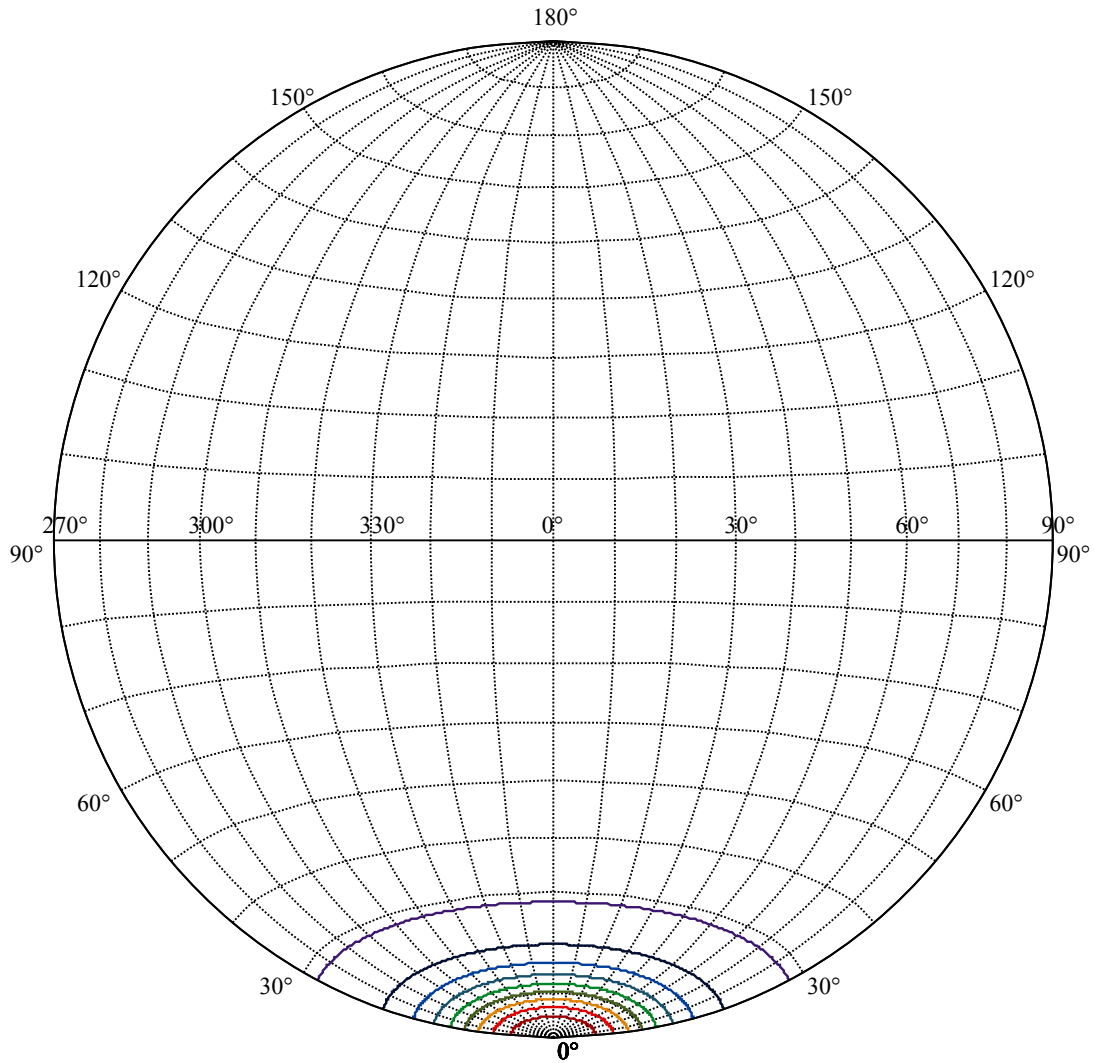
Beam Angle(50%Imax):C0/180Left:11.9 Right:11.9

:C90/270Left:11.9 Right:11.9





| | |
|-------------------|---|
| (10%Imax) 688.977 | — |
| (20%Imax) 1377.95 | — |
| (30%Imax) 2066.93 | — |
| (40%Imax) 2755.91 | — |
| (50%Imax) 3444.88 | — |
| (60%Imax) 4133.86 | — |
| (70%Imax) 4822.84 | — |
| (80%Imax) 5511.81 | — |
| (90%Imax) 6200.79 | — |



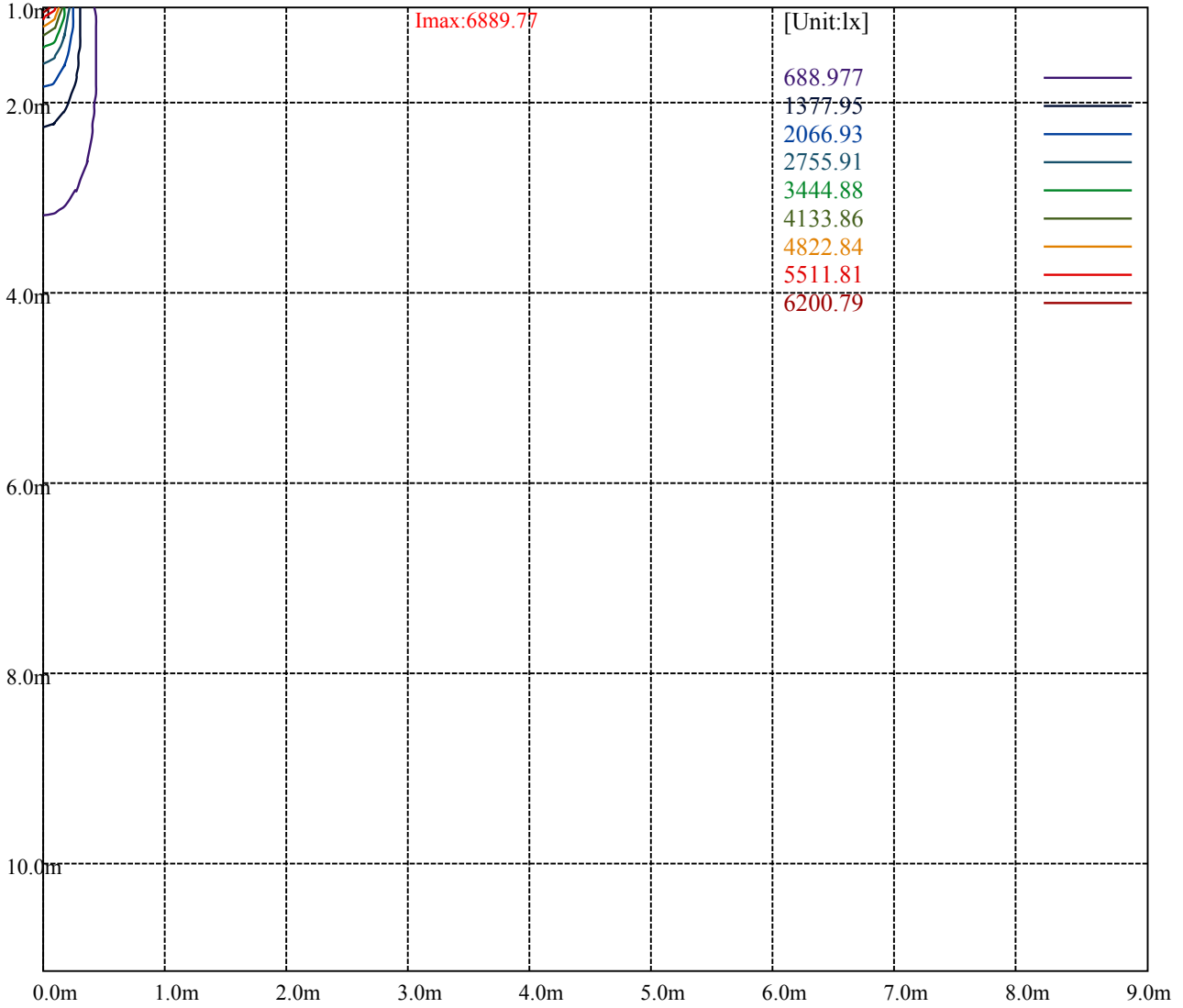
House

[Unit:cd]

Road

Imax:6889.77

| | |
|-------------------|---|
| (10%Imax) 688.977 | — |
| (20%Imax) 1377.95 | — |
| (30%Imax) 2066.93 | — |
| (40%Imax) 2755.91 | — |
| (50%Imax) 3444.88 | — |
| (60%Imax) 4133.86 | — |
| (70%Imax) 4822.84 | — |
| (80%Imax) 5511.81 | — |
| (90%Imax) 6200.79 | — |



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

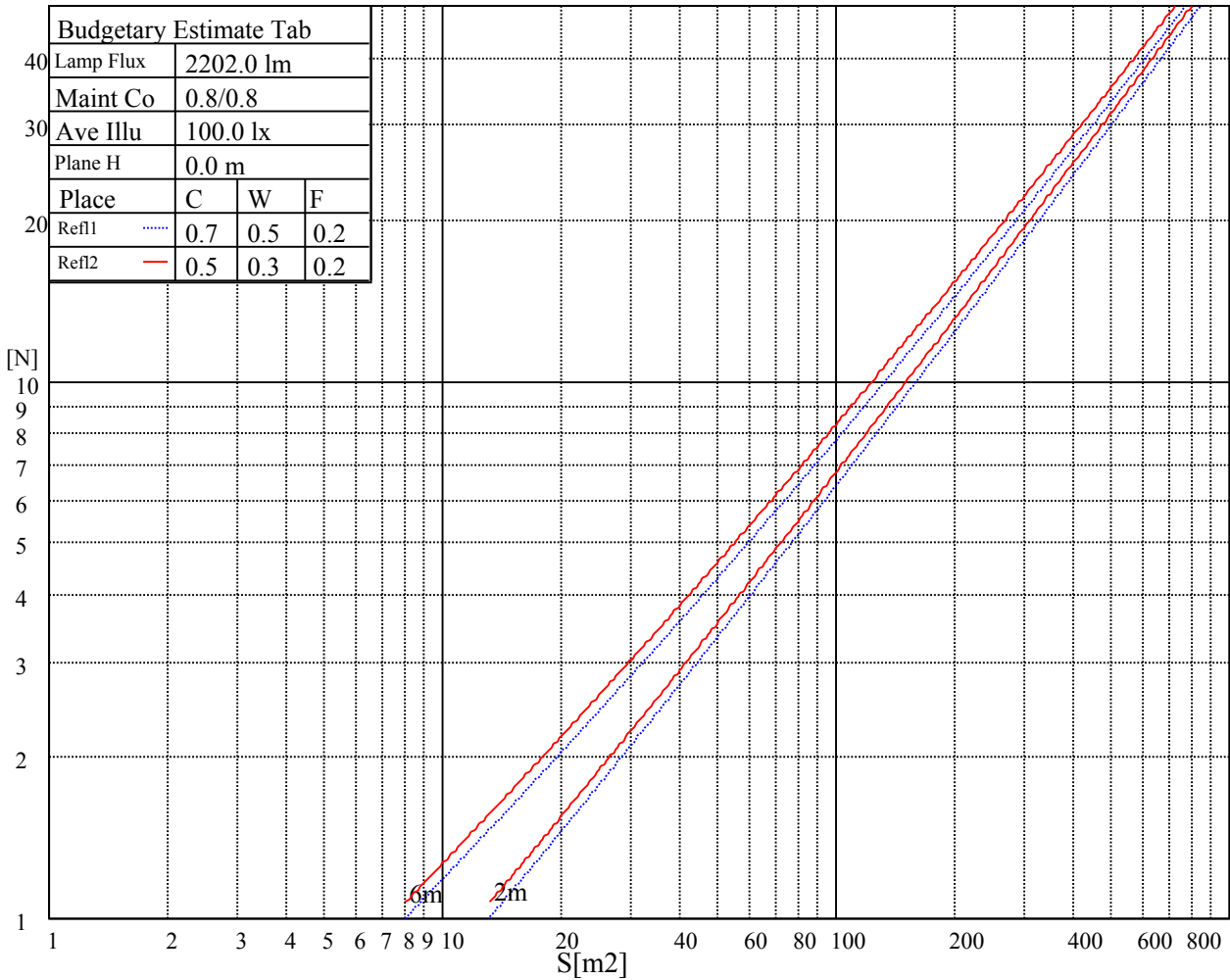
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 |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

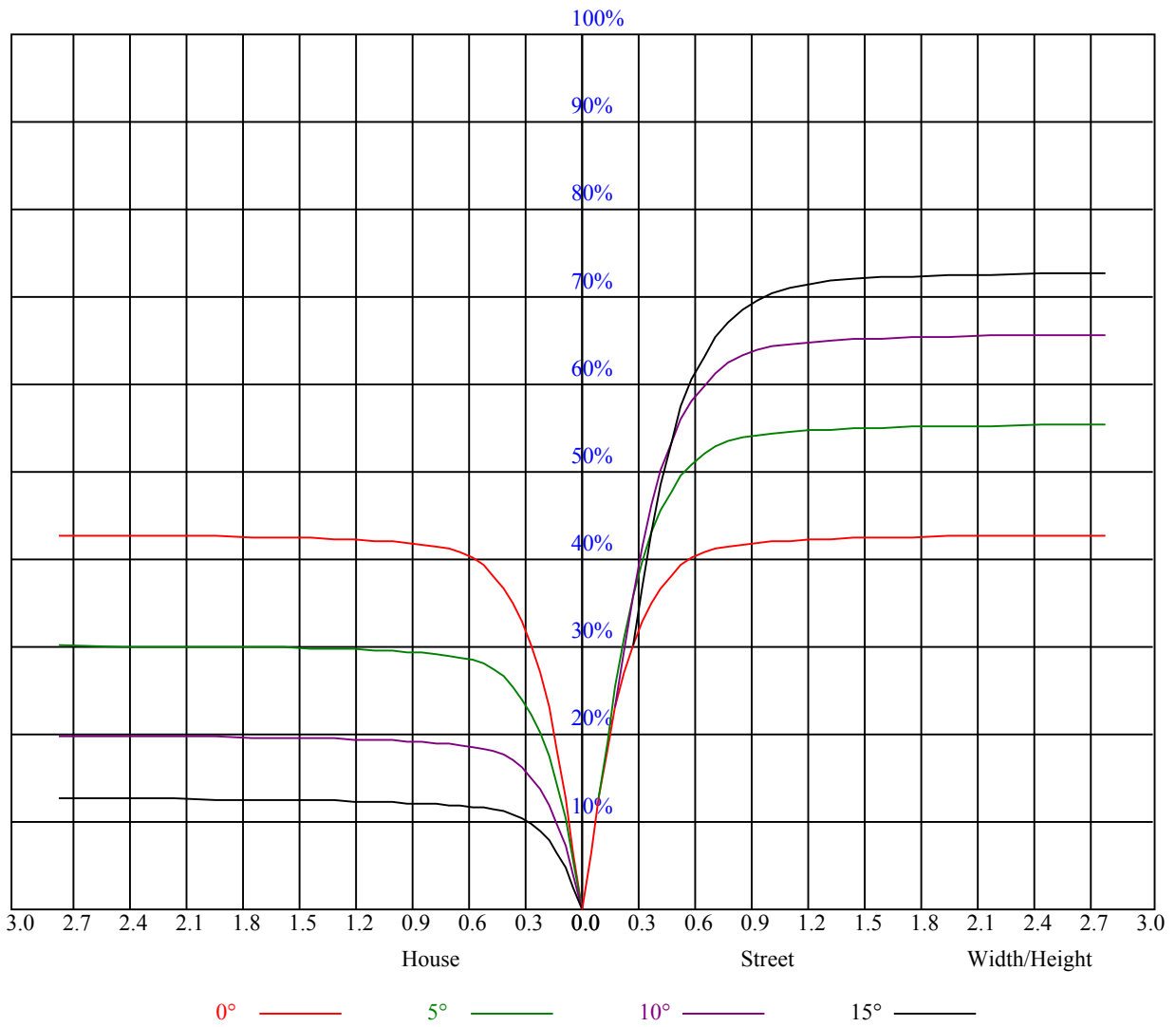


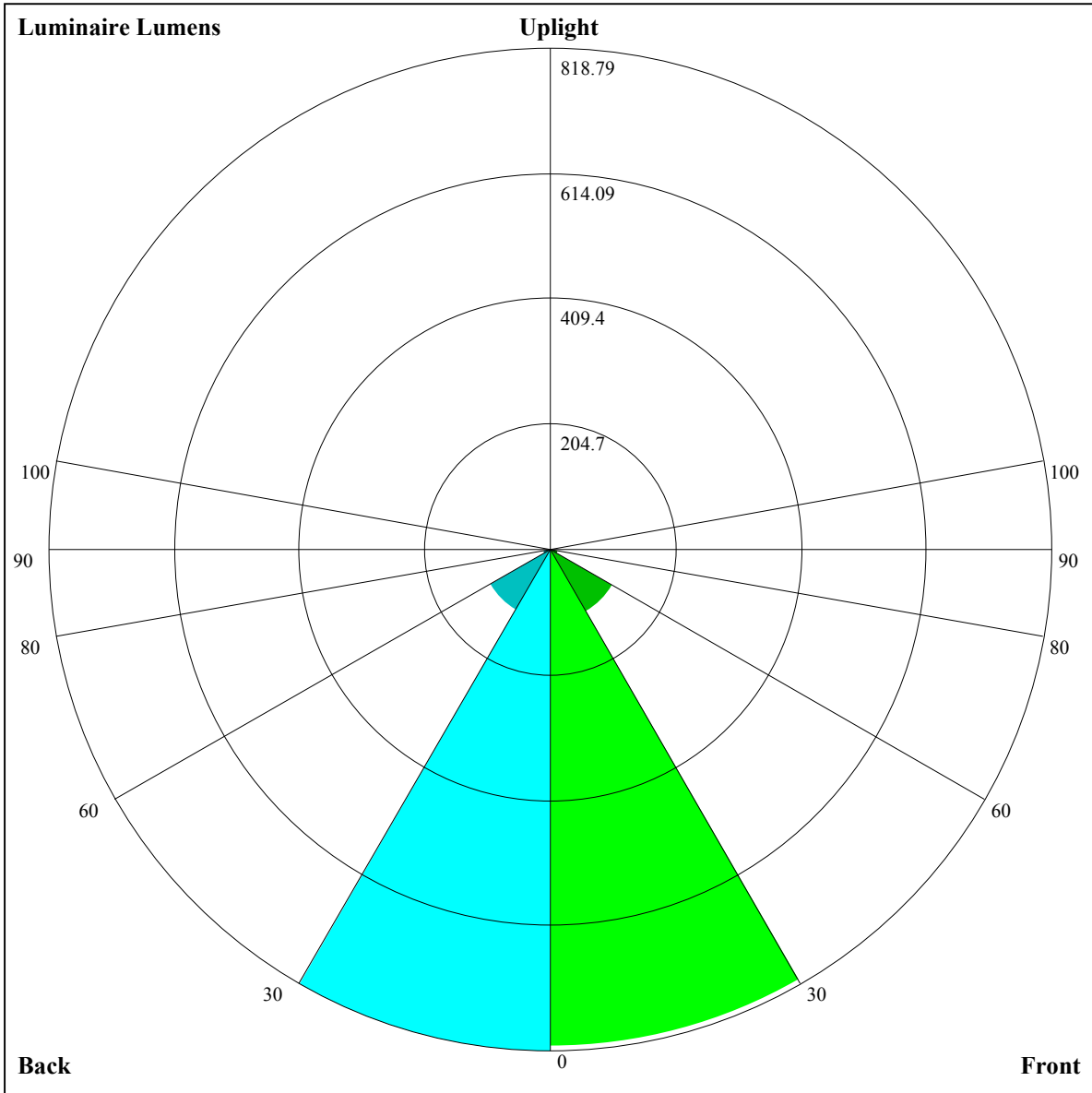
| Illumination assessment according UGR | | | | | | | | | | | |
|---|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|--|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Rf of 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 RHOF=20 CU | | | | | | | | | | | | | | | |
| 0 | 1.03 | 1.03 | 1.03 | 1.00 | 1.00 | 1.00 | 0.96 | 0.96 | 0.96 | 0.92 | 0.92 | 0.92 | 0.88 | 0.88 | 0.88 | 0.86 |
| 1 | 0.96 | 0.94 | 0.93 | 0.94 | 0.93 | 0.91 | 0.91 | 0.90 | 0.88 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 |
| 2 | 0.91 | 0.88 | 0.85 | 0.89 | 0.87 | 0.84 | 0.87 | 0.84 | 0.82 | 0.84 | 0.82 | 0.81 | 0.82 | 0.80 | 0.79 | 0.78 |
| 3 | 0.86 | 0.82 | 0.79 | 0.85 | 0.81 | 0.79 | 0.83 | 0.80 | 0.78 | 0.81 | 0.78 | 0.76 | 0.79 | 0.77 | 0.75 | 0.74 |
| 4 | 0.82 | 0.78 | 0.75 | 0.81 | 0.77 | 0.74 | 0.79 | 0.76 | 0.73 | 0.77 | 0.75 | 0.73 | 0.76 | 0.74 | 0.72 | 0.71 |
| 5 | 0.78 | 0.74 | 0.71 | 0.77 | 0.73 | 0.70 | 0.76 | 0.72 | 0.70 | 0.74 | 0.72 | 0.69 | 0.73 | 0.71 | 0.69 | 0.68 |
| 6 | 0.75 | 0.70 | 0.67 | 0.74 | 0.70 | 0.67 | 0.73 | 0.69 | 0.67 | 0.72 | 0.69 | 0.66 | 0.71 | 0.68 | 0.66 | 0.65 |
| 7 | 0.72 | 0.67 | 0.64 | 0.71 | 0.67 | 0.64 | 0.70 | 0.67 | 0.64 | 0.69 | 0.66 | 0.64 | 0.68 | 0.65 | 0.63 | 0.62 |
| 8 | 0.69 | 0.65 | 0.62 | 0.68 | 0.64 | 0.62 | 0.68 | 0.64 | 0.61 | 0.67 | 0.64 | 0.61 | 0.66 | 0.63 | 0.61 | 0.60 |
| 9 | 0.66 | 0.62 | 0.59 | 0.66 | 0.62 | 0.59 | 0.65 | 0.62 | 0.59 | 0.64 | 0.61 | 0.59 | 0.64 | 0.61 | 0.59 | 0.58 |
| 10 | 0.64 | 0.60 | 0.57 | 0.64 | 0.60 | 0.57 | 0.63 | 0.59 | 0.57 | 0.62 | 0.59 | 0.57 | 0.62 | 0.59 | 0.57 | 0.56 |





Luminaire Lumens:

FL=811.91,FM=116.3,FH=14.07,FVH=4.8

BL=818.79,BM=115.61,BH=14.14,BVH=4.8

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 | 6909.81 | 6879.96 | 6789.25 | 6575.06 | 6347.99 | 6081.72 | 5683.18 | 5319.17 | 4851.57 |
| 45.0 | 6874.11 | 6895.18 | 6888.16 | 6841.92 | 6712.00 | 6529.41 | 6283.03 | 5925.46 | 5593.05 |
| 90.0 | 6878.79 | 6871.19 | 6839.00 | 6713.17 | 6539.95 | 6295.91 | 5948.87 | 5612.37 | 5237.82 |
| 135.0 | 6896.35 | 6882.89 | 6851.29 | 6798.62 | 6684.50 | 6498.40 | 6259.63 | 5986.33 | 5563.79 |
| 180.0 | 6909.81 | 6882.89 | 6820.27 | 6727.22 | 6558.09 | 6332.19 | 6000.37 | 5677.33 | 5310.39 |
| 225.0 | 6874.11 | 6804.47 | 6640.61 | 6423.49 | 6176.52 | 5801.39 | 5444.41 | 5056.99 | 4564.23 |
| 270.0 | 6878.79 | 6889.33 | 6795.69 | 6638.27 | 6431.68 | 6112.15 | 5802.56 | 5448.50 | 4973.89 |
| 315.0 | 6896.35 | 6810.91 | 6650.56 | 6384.86 | 6143.75 | 5831.83 | 5365.99 | 4985.59 | 4592.32 |
| 360.0 | 6909.81 | 6879.96 | 6789.25 | 6575.06 | 6347.99 | 6081.72 | 5683.18 | 5319.17 | 4851.57 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 4453.62 | 4046.30 | 3660.64 | 3214.11 | 2891.07 | 2591.43 | 2315.79 | 2020.26 | 1816.60 |
| 45.0 | 5227.29 | 4763.79 | 4368.76 | 3865.47 | 3490.34 | 3138.62 | 2820.84 | 2450.98 | 2190.56 |
| 90.0 | 4858.01 | 4376.37 | 3969.64 | 3572.86 | 3125.16 | 2802.70 | 2443.96 | 2182.36 | 1955.30 |
| 135.0 | 5182.23 | 4798.32 | 4307.90 | 3908.19 | 3516.09 | 3070.73 | 2752.96 | 2381.92 | 2129.69 |
| 180.0 | 4831.09 | 4436.65 | 4024.65 | 3537.16 | 3180.17 | 2772.27 | 2484.34 | 2215.72 | 1979.29 |
| 225.0 | 4149.89 | 3746.67 | 3287.85 | 2954.86 | 2658.15 | 2379.58 | 2072.93 | 1868.10 | 1681.41 |
| 270.0 | 4575.93 | 4163.93 | 3754.28 | 3291.36 | 2953.69 | 2641.76 | 2372.56 | 2065.90 | 1855.81 |
| 315.0 | 4177.98 | 3681.12 | 3319.45 | 2991.14 | 2693.26 | 2345.64 | 2099.26 | 1890.34 | 1660.93 |
| 360.0 | 4453.62 | 4046.30 | 3660.64 | 3214.11 | 2891.07 | 2591.43 | 2315.79 | 2020.26 | 1816.60 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 1649.81 | 1509.35 | 1361.29 | 1154.41 | 1154.41 | 1074.53 | 1001.96 | 934.66 | 849.98 |
| 45.0 | 1963.49 | 1722.96 | 1566.12 | 1432.69 | 1318.57 | 1196.84 | 1111.99 | 1037.66 | 948.71 |
| 90.0 | 1711.26 | 1552.66 | 1422.16 | 1159.10 | 1159.10 | 1096.36 | 1020.16 | 947.13 | 862.04 |
| 135.0 | 1907.31 | 1717.69 | 1520.47 | 1394.06 | 1286.38 | 1188.07 | 1080.38 | 1005.48 | 932.91 |
| 180.0 | 1732.32 | 1574.31 | 1443.22 | 1325.01 | 1196.26 | 1116.67 | 1038.83 | 960.41 | 872.04 |
| 225.0 | 1525.74 | 1373.58 | 1149.62 | 1149.62 | 1088.34 | 994.18 | 923.49 | 836.23 | 763.43 |
| 270.0 | 1677.90 | 1499.99 | 1376.51 | 1244.25 | 1156.46 | 1077.46 | 1005.48 | 913.01 | 841.03 |
| 315.0 | 1513.45 | 1388.80 | 1151.25 | 1151.25 | 1092.03 | 1001.09 | 928.81 | 860.87 | 789.41 |
| 360.0 | 1649.81 | 1509.35 | 1361.29 | 1154.41 | 1154.41 | 1074.53 | 1001.96 | 934.66 | 849.98 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 777.65 | 703.32 | 607.81 | 530.74 | 454.37 | 383.44 | 312.10 | 267.56 | 230.29 |
| 45.0 | 880.24 | 810.01 | 722.23 | 648.49 | 572.99 | 496.33 | 406.20 | 344.17 | 306.13 |
| 90.0 | 793.80 | 721.93 | 650.83 | 556.55 | 479.42 | 406.03 | 327.84 | 279.80 | 229.00 |
| 135.0 | 861.51 | 770.80 | 698.82 | 606.35 | 531.44 | 458.29 | 371.09 | 316.08 | 303.79 |
| 180.0 | 802.40 | 711.69 | 637.37 | 554.85 | 458.87 | 389.23 | 328.37 | 301.45 | 301.45 |
| 225.0 | 691.27 | 595.70 | 516.75 | 438.57 | 353.01 | 298.93 | 255.16 | 219.40 | 183.29 |
| 270.0 | 769.04 | 697.06 | 601.67 | 523.83 | 446.59 | 360.56 | 303.79 | 303.79 | 250.36 |
| 315.0 | 699.46 | 623.56 | 546.78 | 469.23 | 378.99 | 319.42 | 271.95 | 233.80 | 193.48 |
| 360.0 | 777.65 | 703.32 | 607.81 | 530.74 | 454.37 | 383.44 | 312.10 | 267.56 | 230.29 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 198.57 | 166.09 | 143.79 | 119.44 | 104.05 | 89.95 | 74.62 | 64.14 | 56.01 |
| 45.0 | 306.13 | 205.94 | 176.80 | 151.69 | 125.12 | 108.09 | 93.69 | 78.24 | 67.36 |
| 90.0 | 196.05 | 167.55 | 142.44 | 116.58 | 100.60 | 86.96 | 75.20 | 63.38 | 55.42 |
| 135.0 | 303.79 | 190.72 | 163.98 | 140.22 | 120.03 | 100.25 | 86.44 | 74.67 | 64.61 |
| 180.0 | 196.11 | 169.31 | 145.60 | 120.79 | 103.18 | 88.78 | 73.56 | 63.73 | 53.49 |
| 225.0 | 158.71 | 136.83 | 118.10 | 98.32 | 85.09 | 70.93 | 61.27 | 53.43 | 45.88 |
| 270.0 | 183.88 | 159.65 | 132.55 | 114.76 | 99.49 | 83.04 | 72.04 | 61.98 | 54.02 |
| 315.0 | 166.38 | 137.00 | 117.57 | 101.24 | 84.04 | 72.45 | 63.03 | 53.67 | 47.93 |
| 360.0 | 198.57 | 166.09 | 143.79 | 119.44 | 104.05 | 89.95 | 74.62 | 64.14 | 56.01 |

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 | 48.46 | 44.01 | 40.85 | 38.74 | 36.23 | 35.11 | 34.18 | 32.83 | 31.72 |
| 45.0 | 56.59 | 50.04 | 44.71 | 41.08 | 38.27 | 36.17 | 34.88 | 34.12 | 32.77 |
| 90.0 | 48.81 | 42.90 | 39.74 | 37.63 | 35.70 | 34.18 | 33.94 | 32.77 | 31.72 |
| 135.0 | 54.48 | 48.40 | 42.90 | 39.74 | 38.10 | 36.46 | 35.17 | 34.47 | 33.77 |
| 180.0 | 47.29 | 42.66 | 39.33 | 36.58 | 35.00 | 33.65 | 32.83 | 31.84 | 30.84 |
| 225.0 | 41.32 | 38.33 | 36.64 | 34.59 | 33.36 | 32.66 | 31.95 | 30.49 | 29.73 |
| 270.0 | 46.82 | 42.55 | 39.39 | 37.57 | 35.41 | 34.24 | 33.47 | 32.19 | 31.25 |
| 315.0 | 43.54 | 40.38 | 38.45 | 36.11 | 34.88 | 33.83 | 32.54 | 31.49 | 29.90 |
| 360.0 | 48.46 | 44.01 | 40.85 | 38.74 | 36.23 | 35.11 | 34.18 | 32.83 | 31.72 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 30.43 | 29.09 | 27.62 | 25.98 | 24.23 | 22.82 | 21.30 | 20.31 | 19.08 |
| 45.0 | 31.72 | 30.78 | 29.09 | 27.97 | 26.69 | 24.81 | 23.53 | 22.18 | 20.60 |
| 90.0 | 31.02 | 29.85 | 28.27 | 27.04 | 25.57 | 24.11 | 22.36 | 21.01 | 19.84 |
| 135.0 | 32.54 | 31.78 | 30.43 | 29.20 | 27.62 | 26.10 | 24.58 | 22.65 | 21.30 |
| 180.0 | 29.96 | 28.97 | 27.56 | 26.34 | 24.58 | 23.29 | 22.06 | 20.66 | 19.49 |
| 225.0 | 28.50 | 27.15 | 25.87 | 24.52 | 22.88 | 21.54 | 20.37 | 19.25 | 18.02 |
| 270.0 | 29.73 | 28.56 | 27.39 | 25.93 | 24.17 | 22.82 | 21.30 | 20.25 | 19.02 |
| 315.0 | 28.62 | 27.51 | 25.69 | 24.29 | 23.00 | 21.59 | 20.13 | 19.20 | 18.02 |
| 360.0 | 30.43 | 29.09 | 27.62 | 25.98 | 24.23 | 22.82 | 21.30 | 20.31 | 19.08 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 17.91 | 17.03 | 16.27 | 15.33 | 14.28 | 13.69 | 13.11 | 12.58 | 12.23 |
| 45.0 | 19.66 | 18.55 | 17.50 | 16.50 | 15.74 | 14.75 | 14.05 | 13.34 | 12.82 |
| 90.0 | 18.84 | 17.67 | 16.68 | 15.86 | 14.86 | 13.93 | 13.40 | 12.87 | 12.41 |
| 135.0 | 20.37 | 18.96 | 17.79 | 16.74 | 15.80 | 14.92 | 14.10 | 13.34 | 12.87 |
| 180.0 | 18.55 | 17.09 | 16.27 | 15.57 | 14.63 | 13.69 | 13.17 | 12.70 | 12.29 |
| 225.0 | 16.97 | 16.21 | 15.16 | 14.22 | 13.58 | 13.11 | 12.52 | 12.11 | 11.76 |
| 270.0 | 17.85 | 16.91 | 16.15 | 15.04 | 14.16 | 13.46 | 12.93 | 12.47 | 12.00 |
| 315.0 | 17.09 | 16.09 | 15.22 | 14.34 | 13.58 | 13.11 | 12.64 | 12.17 | 11.82 |
| 360.0 | 17.91 | 17.03 | 16.27 | 15.33 | 14.28 | 13.69 | 13.11 | 12.58 | 12.23 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 11.82 | 11.53 | 11.24 | 10.94 | 10.71 | 10.48 | 10.24 | 9.95 | 9.77 |
| 45.0 | 12.29 | 11.94 | 11.65 | 11.29 | 11.00 | 10.83 | 10.53 | 10.30 | 10.07 |
| 90.0 | 11.94 | 11.65 | 11.35 | 11.12 | 10.83 | 10.59 | 10.36 | 10.07 | 9.83 |
| 135.0 | 12.41 | 12.11 | 11.70 | 11.41 | 11.18 | 10.94 | 10.59 | 10.42 | 10.07 |
| 180.0 | 11.82 | 11.53 | 11.29 | 10.94 | 10.77 | 10.42 | 10.24 | 10.01 | 9.77 |
| 225.0 | 11.41 | 11.18 | 10.89 | 10.65 | 10.42 | 10.12 | 9.89 | 9.66 | 9.42 |
| 270.0 | 11.70 | 11.47 | 11.12 | 10.83 | 10.59 | 10.42 | 10.12 | 9.83 | 9.66 |
| 315.0 | 11.53 | 11.18 | 10.94 | 10.71 | 10.53 | 10.24 | 9.95 | 9.77 | 9.48 |
| 360.0 | 11.82 | 11.53 | 11.24 | 10.94 | 10.71 | 10.48 | 10.24 | 9.95 | 9.77 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 9.54 | 9.31 | 9.13 | 8.90 | 8.78 | 8.60 | 8.43 | 8.37 | 8.08 |
| 45.0 | 9.83 | 9.54 | 9.31 | 9.07 | 8.90 | 8.78 | 8.54 | 8.37 | 8.25 |
| 90.0 | 9.60 | 9.42 | 9.19 | 9.01 | 8.78 | 8.66 | 8.43 | 8.31 | 8.25 |
| 135.0 | 9.89 | 9.66 | 9.36 | 9.19 | 8.95 | 8.78 | 8.60 | 8.43 | 8.31 |
| 180.0 | 9.60 | 9.36 | 9.13 | 8.95 | 8.78 | 8.54 | 8.37 | 8.31 | 8.13 |
| 225.0 | 9.19 | 9.07 | 8.90 | 8.66 | 8.49 | 8.37 | 8.25 | 8.08 | 8.08 |
| 270.0 | 9.42 | 9.19 | 9.01 | 8.84 | 8.66 | 8.49 | 8.31 | 8.25 | 8.08 |
| 315.0 | 9.31 | 9.01 | 8.84 | 8.72 | 8.54 | 8.37 | 8.25 | 8.02 | 8.08 |
| 360.0 | 9.54 | 9.31 | 9.13 | 8.90 | 8.78 | 8.60 | 8.43 | 8.37 | 8.08 |

Intensity data(cd)

| | |
|--------|------|
| C/γ(°) | 90.0 |
| 0.0 | 8.13 |
| 45.0 | 8.08 |
| 90.0 | 8.08 |
| 135.0 | 8.25 |
| 180.0 | 8.02 |
| 225.0 | 8.08 |
| 270.0 | 8.08 |
| 315.0 | 8.08 |
| 360.0 | 8.13 |