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NT

Client:

LumCAT: 62-0012透镜

Luminaire: 92.70.429.00 Hodel

Report No: 2024506-B015

Ballast type: AC

Test No: 2024506-C015

Voltage(V): 36.550

LampCAT: CREE CXA1820

Current(A): 0.520

Lamp flux(lm): 2604.5

Power (W): 19.006

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2253.33, Efficiency(%): 86.52% , Luminous Efficacy(lm/W): 118.56

Central intensity(cd): 23092.100, Maximum intensity(cd): 23092.100

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=14.6

[C90/270]Total=14.6

Field angle(10%Imax): [C0/180]Total=29.6

[C90/270]Total=29.6

Maximum s/h(1/2): C0\_180=0.25 C90\_270=0.25

Maximum s/h(1/4): C0\_180=0.26 C90\_270=0.26

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.52%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 95.972%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/5/6  
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                | 23092.102     | 0.000       | 0         | 0.00%       | 0.00%      |
| 1.0                | 22871.178     | 21.993      | 21.993    | 0.84%       | 0.98%      |
| 2.0                | 22157.936     | 64.630      | 86.623    | 2.48%       | 3.84%      |
| 3.0                | 20936.277     | 103.067     | 189.69    | 3.96%       | 8.42%      |
| 4.0                | 19267.654     | 134.575     | 324.265   | 5.17%       | 14.39%     |
| 5.0                | 16353.388     | 153.240     | 477.505   | 5.88%       | 21.19%     |
| 6.0                | 13643.453     | 157.641     | 635.146   | 6.05%       | 28.19%     |
| 7.0                | 12210.383     | 160.474     | 795.621   | 6.16%       | 35.31%     |
| 8.0                | 10046.002     | 159.285     | 954.906   | 6.12%       | 42.38%     |
| 9.0                | 8245.411      | 148.242     | 1103.147  | 5.69%       | 48.96%     |
| 10.0               | 6555.427      | 133.942     | 1237.09   | 5.14%       | 54.90%     |
| 11.0               | 5217.969      | 117.640     | 1354.73   | 4.52%       | 60.12%     |
| 12.0               | 4042.837      | 101.234     | 1455.964  | 3.89%       | 64.61%     |
| 13.0               | 3180.288      | 85.720      | 1541.684  | 3.29%       | 68.42%     |
| 14.0               | 2626.007      | 74.320      | 1616.004  | 2.85%       | 71.72%     |
| 15.0               | 2248.069      | 66.913      | 1682.918  | 2.57%       | 74.69%     |
| 16.0               | 1452.945      | 54.230      | 1737.148  | 2.08%       | 77.09%     |
| 17.0               | 1269.273      | 42.392      | 1779.54   | 1.63%       | 78.97%     |
| 18.0               | 1017.626      | 37.706      | 1817.246  | 1.45%       | 80.65%     |
| 19.0               | 813.755       | 31.862      | 1849.109  | 1.22%       | 82.06%     |
| 20.0               | 631.538       | 26.453      | 1875.561  | 1.02%       | 83.23%     |
| 21.0               | 496.651       | 21.664      | 1897.225  | 0.83%       | 84.20%     |
| 22.0               | 380.784       | 17.632      | 1914.857  | 0.68%       | 84.98%     |
| 23.0               | 307.799       | 14.448      | 1929.306  | 0.55%       | 85.62%     |
| 24.0               | 268.845       | 12.608      | 1941.913  | 0.48%       | 86.18%     |
| 25.0               | 235.729       | 11.473      | 1953.386  | 0.44%       | 86.69%     |
| 26.0               | 202.415       | 10.342      | 1963.729  | 0.40%       | 87.15%     |
| 27.0               | 180.037       | 9.357       | 1973.085  | 0.36%       | 87.56%     |
| 28.0               | 170.140       | 8.866       | 1981.951  | 0.34%       | 87.96%     |
| 29.0               | 163.570       | 8.731       | 1990.682  | 0.34%       | 88.34%     |
| 30.0               | 158.472       | 8.695       | 1999.377  | 0.33%       | 88.73%     |
| 31.0               | 152.305       | 8.648       | 2008.025  | 0.33%       | 89.11%     |
| 32.0               | 146.694       | 8.566       | 2016.591  | 0.33%       | 89.49%     |
| 33.0               | 138.179       | 8.392       | 2024.984  | 0.32%       | 89.87%     |
| 34.0               | 127.579       | 8.043       | 2033.026  | 0.31%       | 90.22%     |
| 35.0               | 112.253       | 7.448       | 2040.475  | 0.29%       | 90.55%     |
| 36.0               | 95.896        | 6.628       | 2047.102  | 0.25%       | 90.85%     |
| 37.0               | 82.590        | 5.821       | 2052.923  | 0.22%       | 91.11%     |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0               | 75.648        | 5.282       | 2058.205  | 0.20%       | 91.34%     |
| 39.0               | 72.297        | 5.050       | 2063.255  | 0.19%       | 91.56%     |
| 40.0               | 70.168        | 4.969       | 2068.224  | 0.19%       | 91.79%     |
| 41.0               | 69.452        | 4.972       | 2073.195  | 0.19%       | 92.01%     |
| 42.0               | 69.708        | 5.056       | 2078.251  | 0.19%       | 92.23%     |
| 43.0               | 70.037        | 5.177       | 2083.428  | 0.20%       | 92.46%     |
| 44.0               | 70.432        | 5.302       | 2088.73   | 0.20%       | 92.70%     |
| 45.0               | 70.468        | 5.415       | 2094.145  | 0.21%       | 92.94%     |
| 46.0               | 69.869        | 5.488       | 2099.633  | 0.21%       | 93.18%     |
| 47.0               | 69.057        | 5.525       | 2105.158  | 0.21%       | 93.42%     |
| 48.0               | 66.957        | 5.498       | 2110.657  | 0.21%       | 93.67%     |
| 49.0               | 64.038        | 5.379       | 2116.036  | 0.21%       | 93.91%     |
| 50.0               | 60.359        | 5.187       | 2121.223  | 0.20%       | 94.14%     |
| 51.0               | 56.803        | 4.957       | 2126.179  | 0.19%       | 94.36%     |
| 52.0               | 53.570        | 4.736       | 2130.916  | 0.18%       | 94.57%     |
| 53.0               | 51.010        | 4.549       | 2135.465  | 0.17%       | 94.77%     |
| 54.0               | 47.893        | 4.359       | 2139.824  | 0.17%       | 94.96%     |
| 55.0               | 45.274        | 4.159       | 2143.983  | 0.16%       | 95.15%     |
| 56.0               | 42.948        | 3.987       | 2147.97   | 0.15%       | 95.32%     |
| 57.0               | 40.893        | 3.833       | 2151.803  | 0.15%       | 95.49%     |
| 58.0               | 39.261        | 3.707       | 2155.51   | 0.14%       | 95.66%     |
| 59.0               | 37.630        | 3.595       | 2159.104  | 0.14%       | 95.82%     |
| 60.0               | 35.845        | 3.471       | 2162.575  | 0.13%       | 95.97%     |
| 61.0               | 34.492        | 3.357       | 2165.932  | 0.13%       | 96.12%     |
| 62.0               | 33.255        | 3.264       | 2169.197  | 0.13%       | 96.27%     |
| 63.0               | 32.370        | 3.192       | 2172.388  | 0.12%       | 96.41%     |
| 64.0               | 31.273        | 3.123       | 2175.511  | 0.12%       | 96.55%     |
| 65.0               | 30.300        | 3.047       | 2178.558  | 0.12%       | 96.68%     |
| 66.0               | 29.437        | 2.980       | 2181.539  | 0.11%       | 96.81%     |
| 67.0               | 28.976        | 2.937       | 2184.476  | 0.11%       | 96.94%     |
| 68.0               | 29.100        | 2.942       | 2187.418  | 0.11%       | 97.07%     |
| 69.0               | 29.678        | 2.999       | 2190.417  | 0.12%       | 97.21%     |
| 70.0               | 30.285        | 3.080       | 2193.496  | 0.12%       | 97.34%     |
| 71.0               | 30.593        | 3.147       | 2196.643  | 0.12%       | 97.48%     |
| 72.0               | 30.183        | 3.160       | 2199.803  | 0.12%       | 97.62%     |
| 73.0               | 30.461        | 3.171       | 2202.974  | 0.12%       | 97.77%     |
| 74.0               | 31.924        | 3.280       | 2206.254  | 0.13%       | 97.91%     |
| 75.0               | 33.248        | 3.443       | 2209.697  | 0.13%       | 98.06%     |

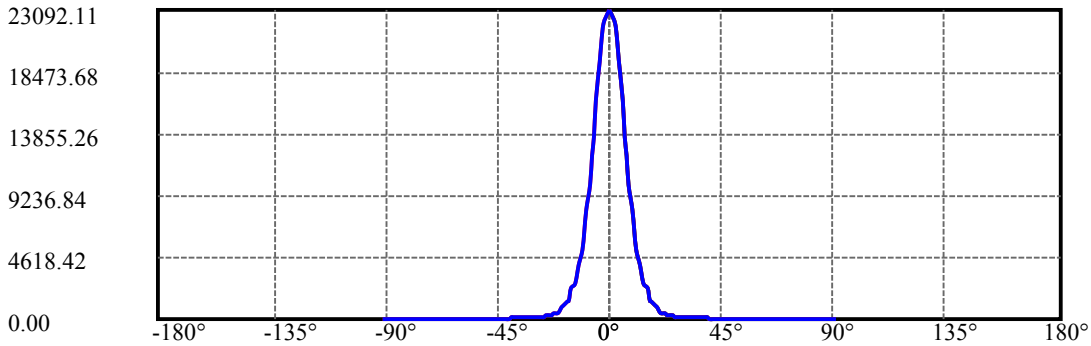
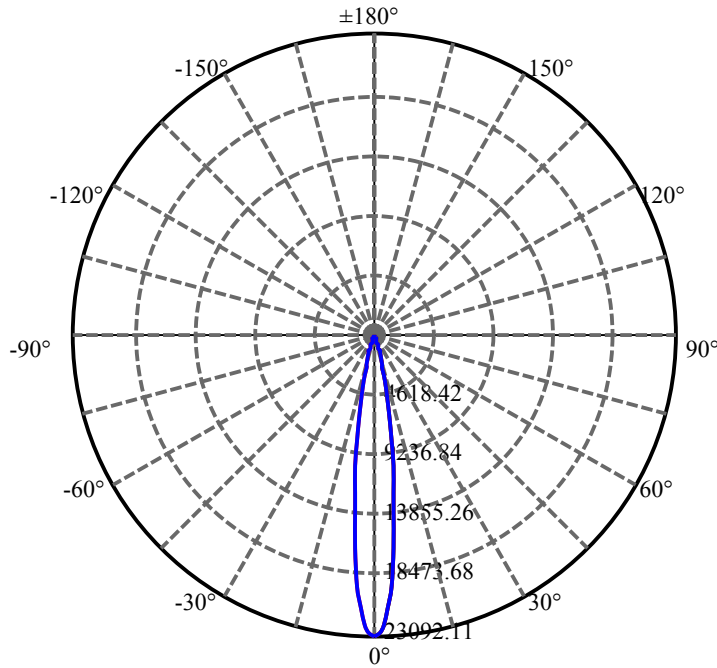
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0               | 34.345        | 3.588       | 2213.285  | 0.14%       | 98.22%     |
| 77.0               | 32.575        | 3.568       | 2216.853  | 0.14%       | 98.38%     |
| 78.0               | 30.249        | 3.363       | 2220.216  | 0.13%       | 98.53%     |
| 79.0               | 27.652        | 3.111       | 2223.327  | 0.12%       | 98.67%     |
| 80.0               | 27.403        | 2.968       | 2226.295  | 0.11%       | 98.80%     |
| 81.0               | 27.242        | 2.955       | 2229.251  | 0.11%       | 98.93%     |
| 82.0               | 27.337        | 2.960       | 2232.21   | 0.11%       | 99.06%     |
| 83.0               | 26.430        | 2.923       | 2235.133  | 0.11%       | 99.19%     |
| 84.0               | 24.857        | 2.794       | 2237.927  | 0.11%       | 99.32%     |
| 85.0               | 25.040        | 2.723       | 2240.651  | 0.10%       | 99.44%     |
| 86.0               | 25.318        | 2.753       | 2243.403  | 0.11%       | 99.56%     |
| 87.0               | 25.150        | 2.762       | 2246.165  | 0.11%       | 99.68%     |
| 88.0               | 22.604        | 2.616       | 2248.781  | 0.10%       | 99.80%     |
| 89.0               | 20.498        | 2.362       | 2251.144  | 0.09%       | 99.90%     |
| 90.0               | 19.437        | 2.190       | 2253.333  | 0.08%       | 100.00%    |

ZONAL LUMEN SUMMARY

| Zone    | Lumens  | %Lamp  | %Fixt   |
|---------|---------|--------|---------|
| 0-30    | 1999.38 | 76.77% | 88.73%  |
| 0-40    | 2068.22 | 79.41% | 91.79%  |
| 0-60    | 2162.58 | 83.03% | 95.97%  |
| 0-90    | 2251.14 | 86.43% | 99.90%  |
| 0-120   | 2251.14 | 86.43% | 99.90%  |
| 0-180   | 2253.33 | 86.52% | 100.00% |
| 60-90   | 88.57   | 3.40%  | 3.93%   |
| 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%   |
| 0-17.61 | 1802.67 | 69.21% | 80.00%  |

ZONAL LUMEN SUMMARY

|         |         |
|---------|---------|
| 0-10    | 1237.09 |
| 10-20   | 638.47  |
| 20-30   | 123.82  |
| 30-40   | 68.85   |
| 40-50   | 53.00   |
| 50-60   | 41.35   |
| 60-70   | 30.92   |
| 70-80   | 32.80   |
| 80-90   | 24.85   |
| 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: —————

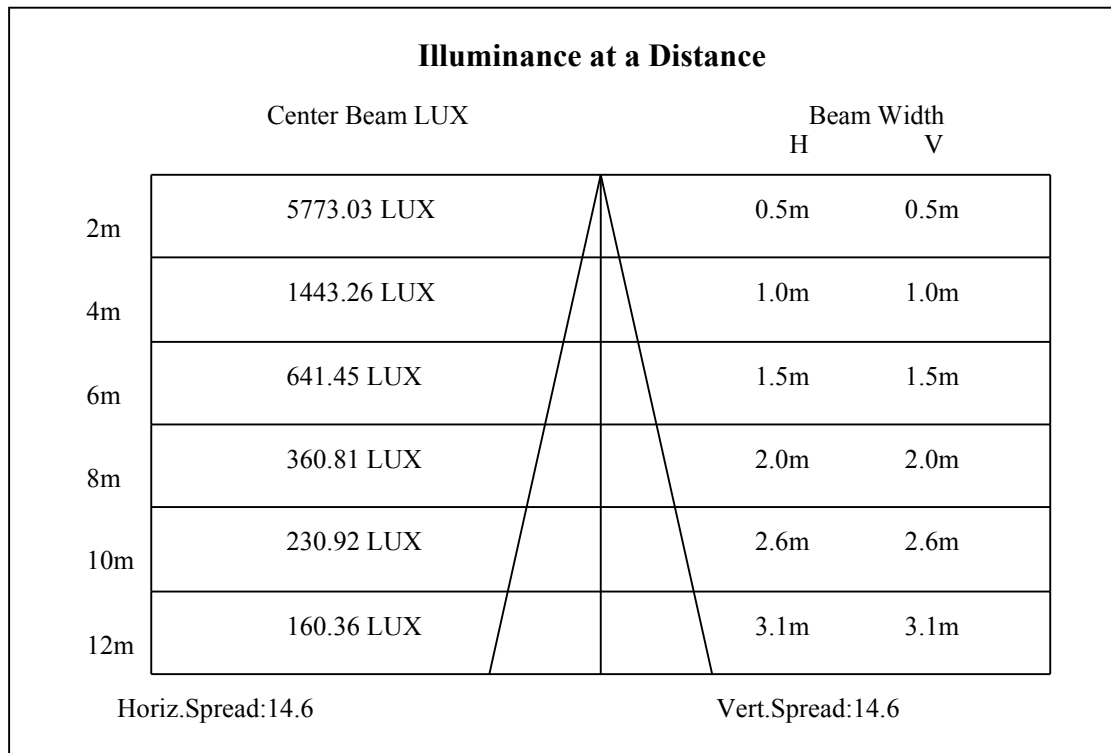
C90/C270: —————

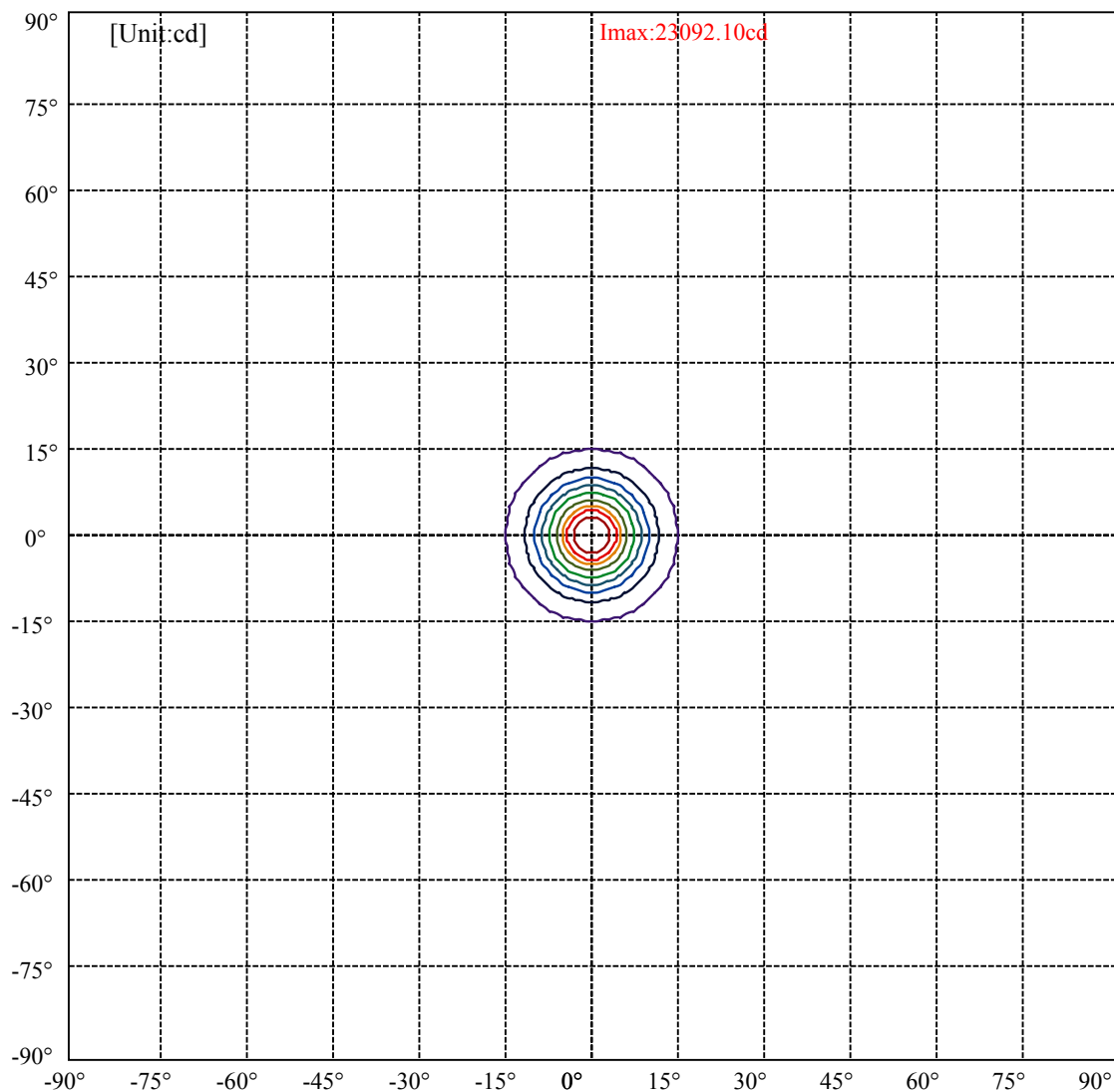
Field angle(10%Imax):C0/180Left:14.8 Right:14.8

:C90/270Left:14.8 Right:14.8

Beam Angle(50%Imax):C0/180Left:7.3 Right:7.3

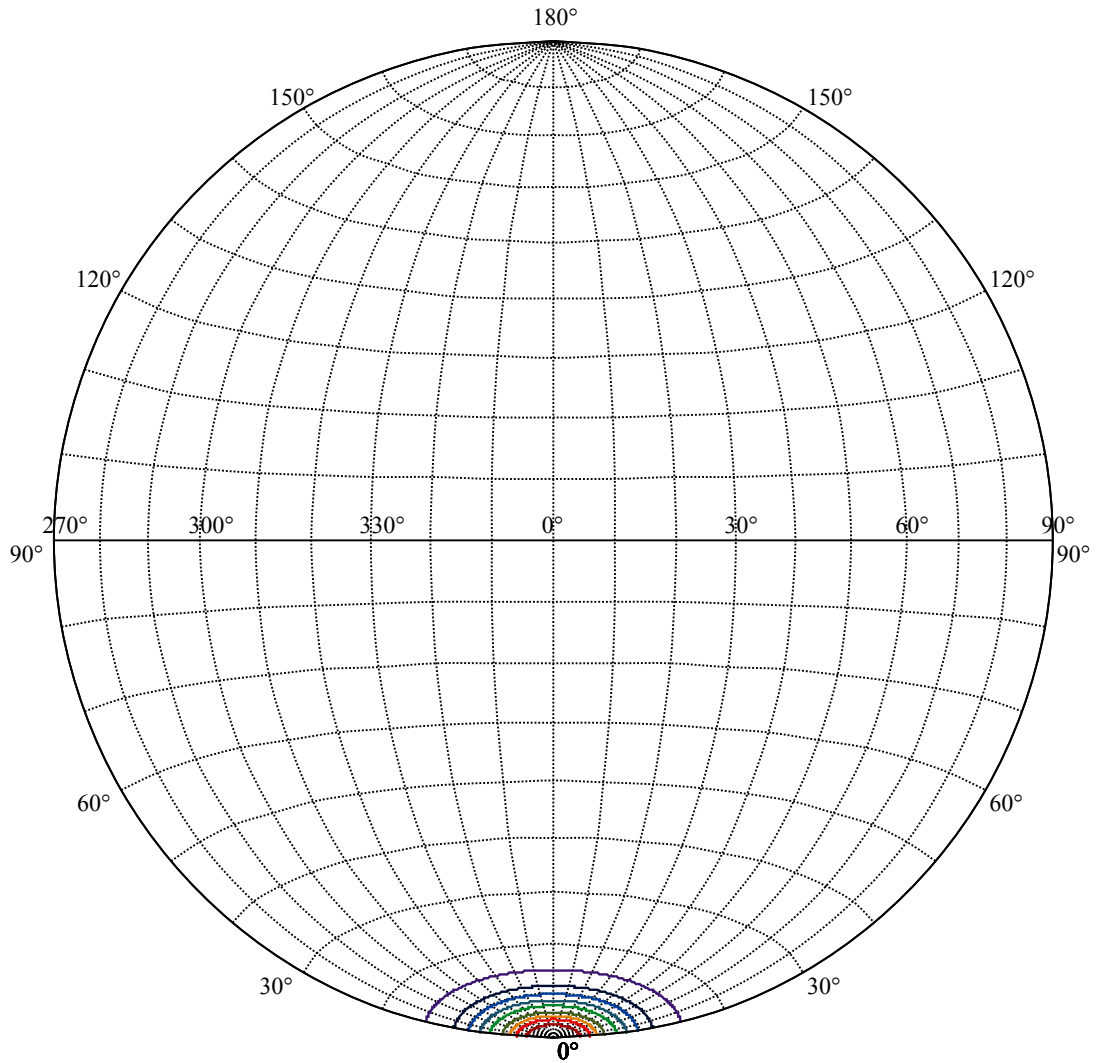
:C90/270Left:7.3 Right:7.3





|                   |   |
|-------------------|---|
| (10%Imax) 2309.21 | — |
| (20%Imax) 4618.42 | — |
| (30%Imax) 6927.63 | — |
| (40%Imax) 9236.84 | — |
| (50%Imax) 11546.1 | — |
| (60%Imax) 13855.3 | — |
| (70%Imax) 16164.5 | — |
| (80%Imax) 18473.7 | — |
| (90%Imax) 20782.9 | — |





House

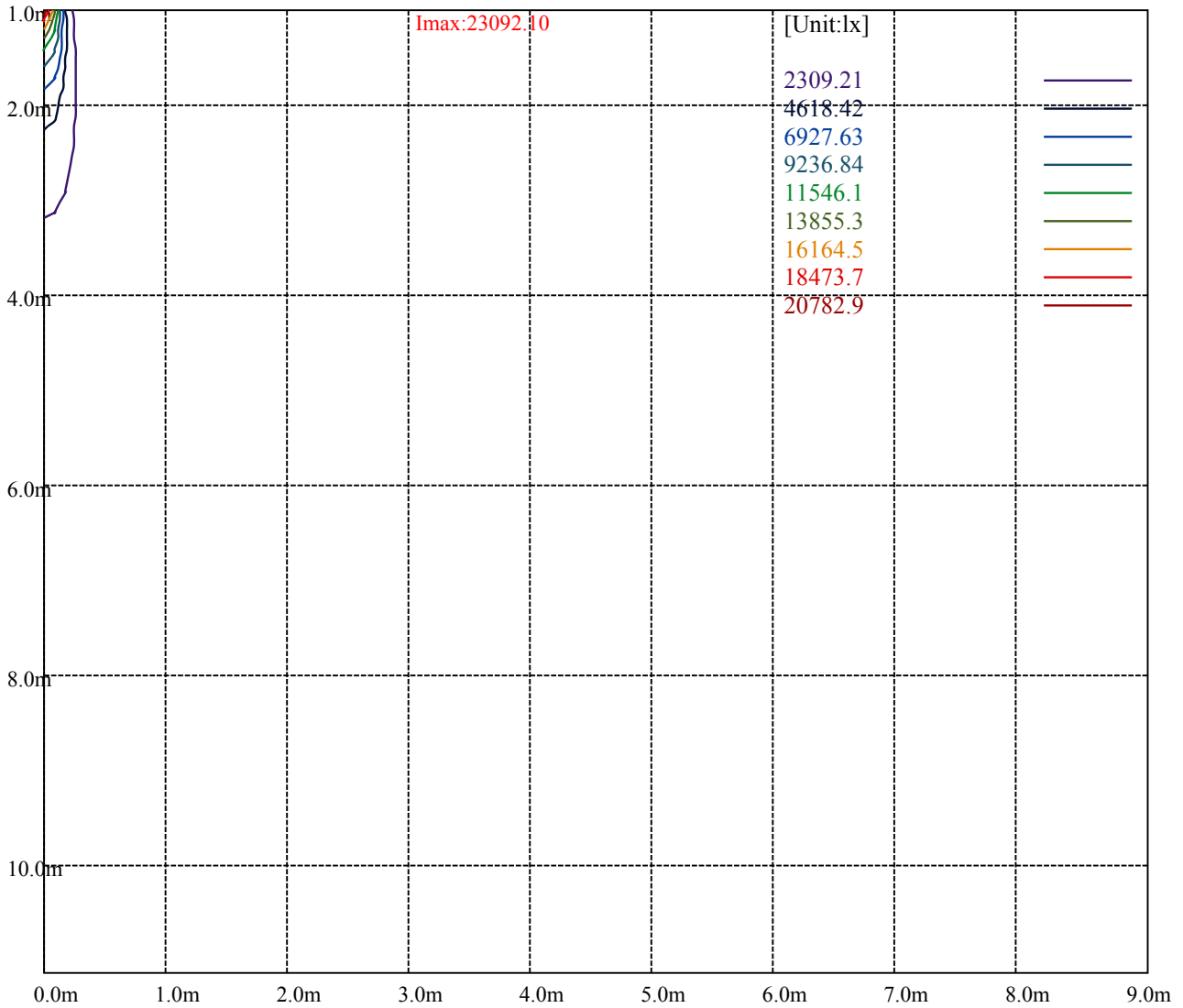
[Unit:cd]

Road

**Imax:23092.10**

|                   |   |
|-------------------|---|
| (10%Imax) 2309.21 | — |
| (20%Imax) 4618.42 | — |
| (30%Imax) 6927.63 | — |
| (40%Imax) 9236.84 | — |
| (50%Imax) 11546.1 | — |
| (60%Imax) 13855.3 | — |
| (70%Imax) 16164.5 | — |
| (80%Imax) 18473.7 | — |
| (90%Imax) 20782.9 | — |





Luminance Table

| $\gamma$ | 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  |

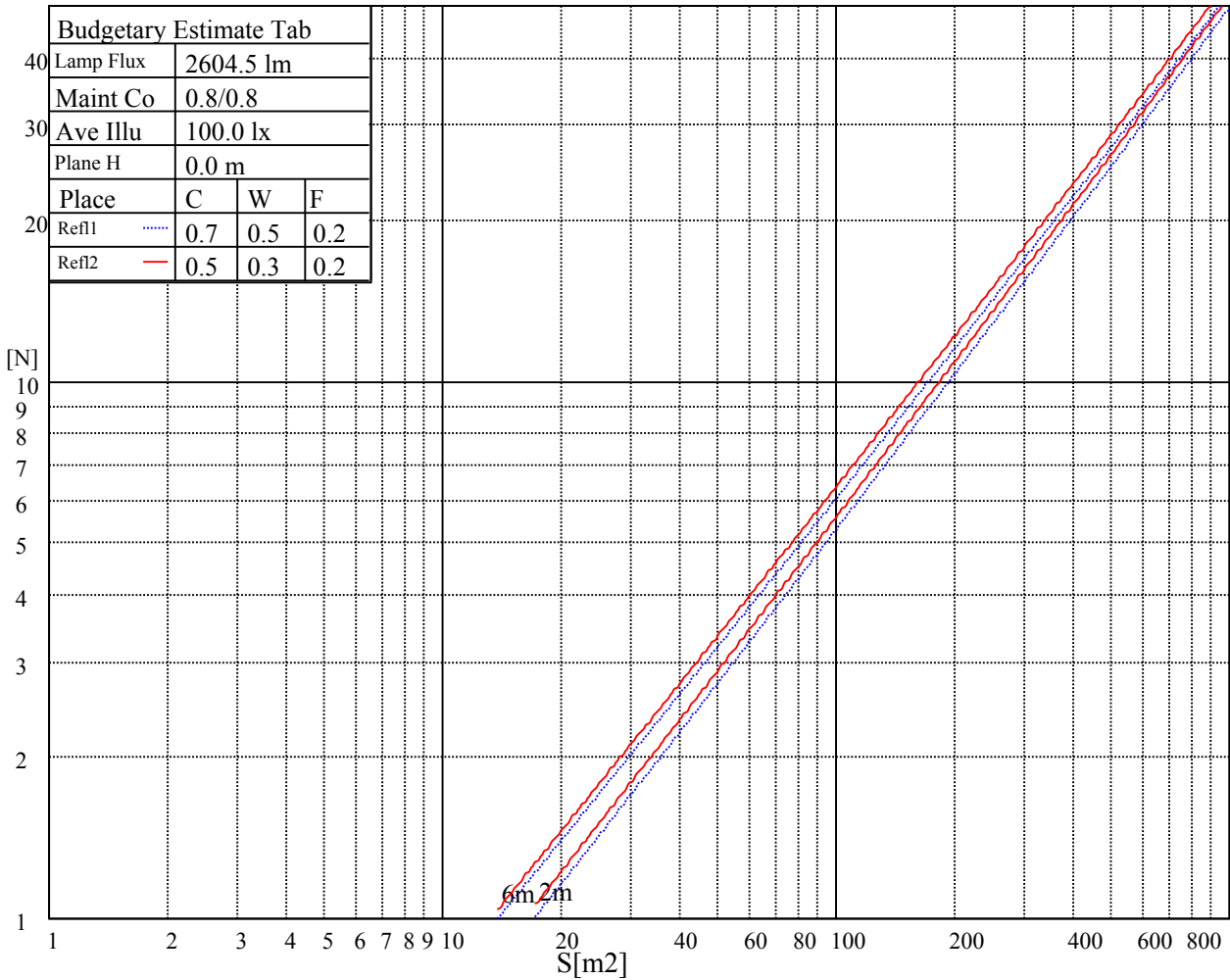
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 0          | 0          | 0       | 0          | 0          | 0       | 0     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

Glare Table

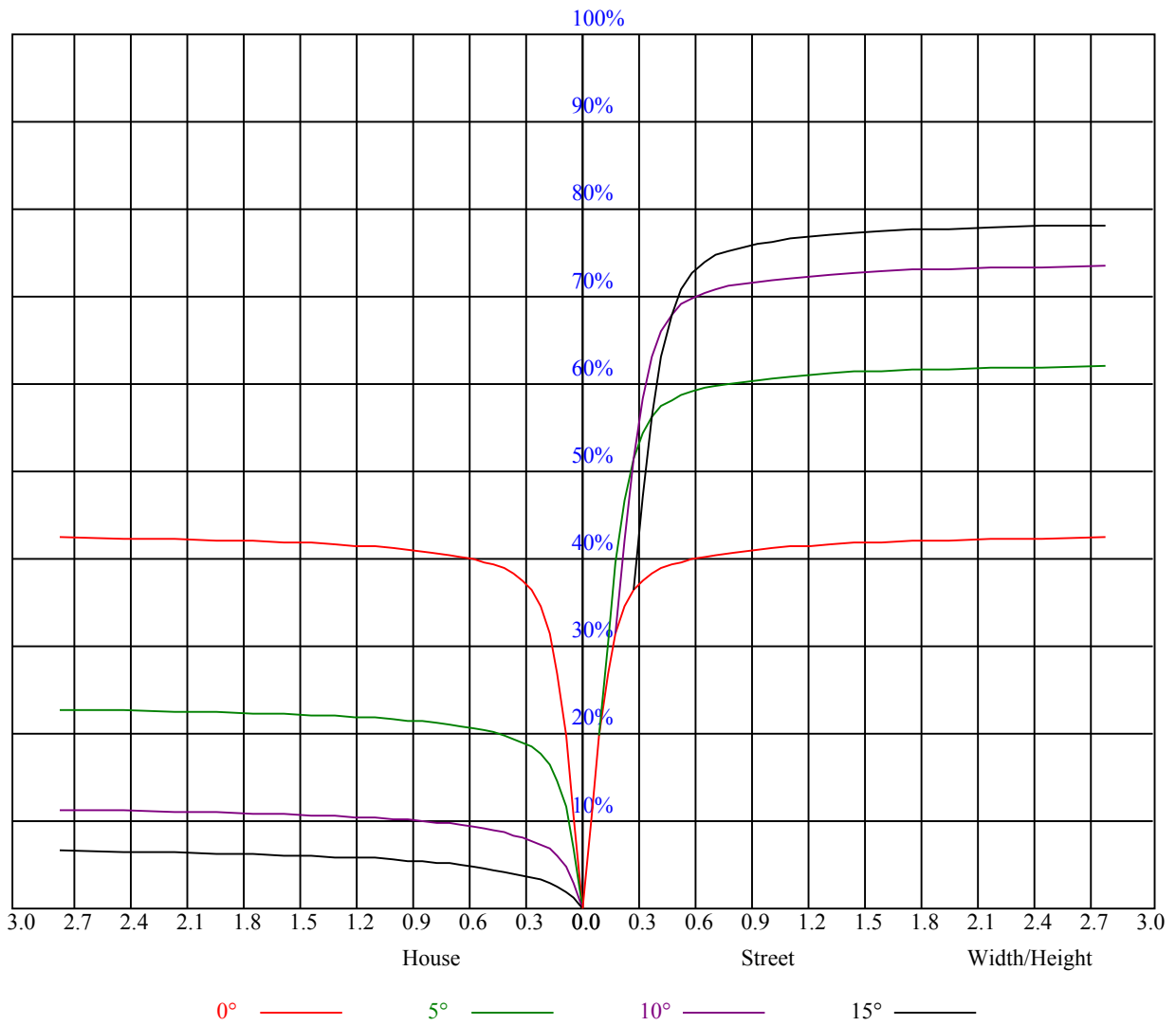
| Glare | Quality | Service Values Illuminance(lx) |      |      |       |       |       |       |       |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15  | A       | 2000                           | 1000 | 500  | <=300 |       |    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

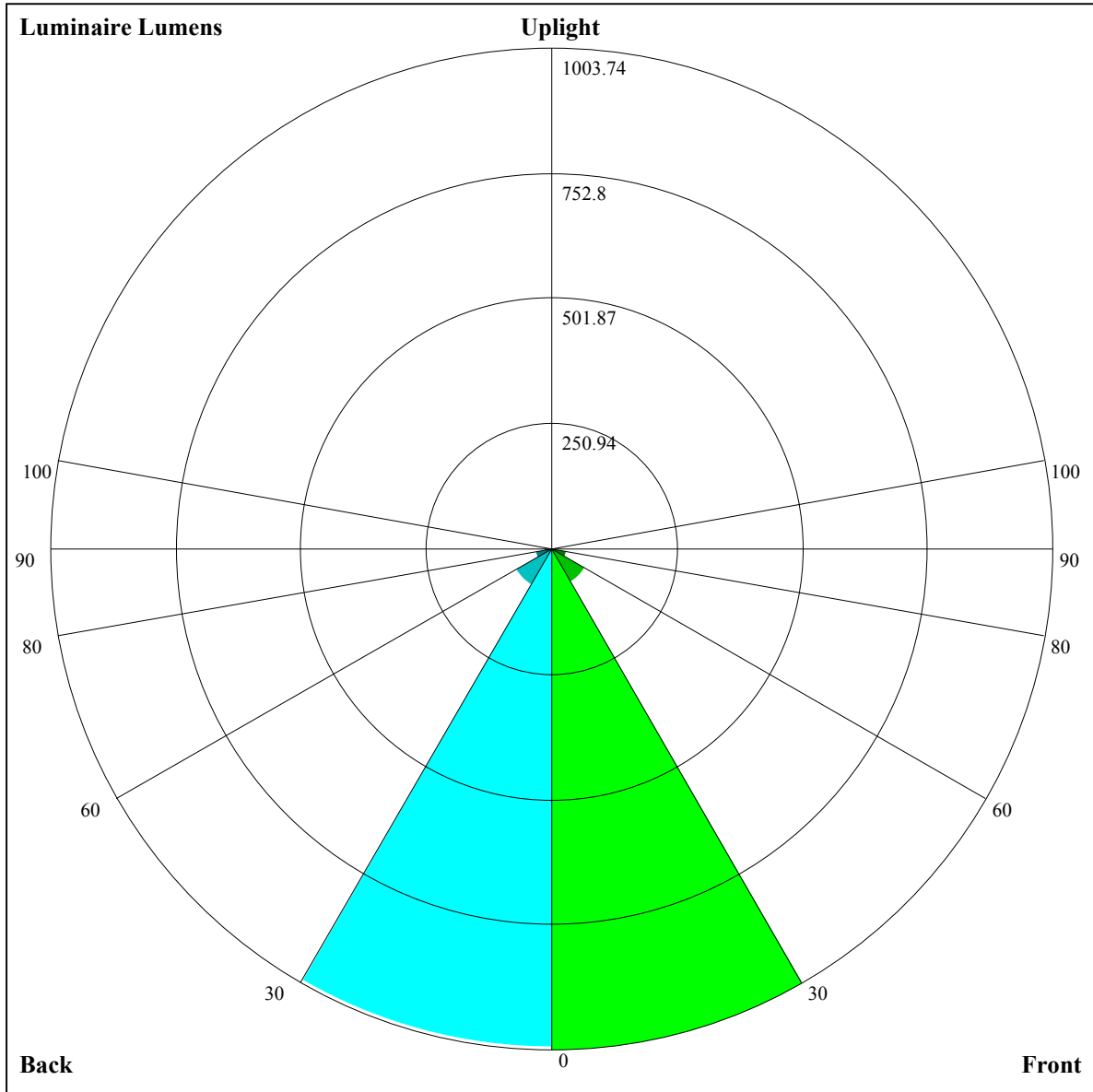
Luminance Limiting Curve





| 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 | 1.01 | 1.01 | 1.01 | 0.96 | 0.96 | 0.96 | 0.92 | 0.92 | 0.92 | 0.88 | 0.88 | 0.88 | 0.87 |
| 1     | 0.97                                   | 0.95 | 0.94 | 0.95 | 0.94 | 0.92 | 0.92 | 0.90 | 0.89 | 0.88 | 0.87 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 |
| 2     | 0.92                                   | 0.90 | 0.87 | 0.91 | 0.88 | 0.86 | 0.88 | 0.86 | 0.84 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.81 | 0.80 |
| 3     | 0.89                                   | 0.85 | 0.83 | 0.87 | 0.85 | 0.82 | 0.85 | 0.83 | 0.81 | 0.83 | 0.81 | 0.80 | 0.82 | 0.80 | 0.79 | 0.77 |
| 4     | 0.86                                   | 0.82 | 0.79 | 0.85 | 0.81 | 0.79 | 0.83 | 0.80 | 0.78 | 0.81 | 0.79 | 0.77 | 0.80 | 0.78 | 0.76 | 0.75 |
| 5     | 0.83                                   | 0.79 | 0.77 | 0.82 | 0.79 | 0.76 | 0.81 | 0.78 | 0.76 | 0.79 | 0.77 | 0.75 | 0.78 | 0.76 | 0.75 | 0.74 |
| 6     | 0.81                                   | 0.77 | 0.75 | 0.80 | 0.77 | 0.74 | 0.79 | 0.76 | 0.74 | 0.78 | 0.75 | 0.73 | 0.77 | 0.75 | 0.73 | 0.72 |
| 7     | 0.79                                   | 0.75 | 0.73 | 0.78 | 0.75 | 0.73 | 0.77 | 0.74 | 0.72 | 0.76 | 0.74 | 0.72 | 0.75 | 0.73 | 0.72 | 0.71 |
| 8     | 0.77                                   | 0.73 | 0.71 | 0.76 | 0.73 | 0.71 | 0.76 | 0.73 | 0.71 | 0.75 | 0.72 | 0.71 | 0.74 | 0.72 | 0.70 | 0.69 |
| 9     | 0.75                                   | 0.72 | 0.70 | 0.75 | 0.72 | 0.70 | 0.74 | 0.71 | 0.69 | 0.74 | 0.71 | 0.69 | 0.73 | 0.71 | 0.69 | 0.68 |
| 10    | 0.74                                   | 0.71 | 0.69 | 0.73 | 0.70 | 0.68 | 0.73 | 0.70 | 0.68 | 0.72 | 0.70 | 0.68 | 0.72 | 0.70 | 0.68 | 0.67 |





Luminaire Lumens:

FL=1003.74,FM=77.89,FH=30.88,FVH=12.56

BL=999.17,BM=83.36,BH=32.03,BVH=14.38

UL=0,UH=0

BUG Rating:B2-U0-G1



NT 62-0012透镜

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    | 23219.39 | 22979.44 | 22048.94 | 20708.77 | 18356.17 | 14359.08 | 11444.13 | 11444.13 | 8951.66  |
| 45.0   | 22985.30 | 23213.53 | 22915.07 | 21890.93 | 20480.53 | 18648.78 | 16483.45 | 13592.44 | 11345.17 |
| 90.0   | 23032.12 | 22470.30 | 21498.83 | 20123.55 | 17788.50 | 11428.33 | 11428.33 | 10886.41 | 8505.13  |
| 135.0  | 23131.60 | 22850.70 | 22113.31 | 20644.40 | 19087.70 | 17197.42 | 14382.49 | 12076.70 | 9513.42  |
| 180.0  | 23219.39 | 23061.38 | 22312.29 | 21253.03 | 19883.60 | 18239.12 | 15822.14 | 13533.91 | 11298.35 |
| 225.0  | 22985.30 | 22335.70 | 21305.70 | 19579.29 | 17911.40 | 14183.51 | 11281.44 | 10734.84 | 8767.31  |
| 270.0  | 23032.12 | 23084.79 | 22686.83 | 21902.63 | 20720.48 | 18759.97 | 16828.73 | 13937.72 | 11608.52 |
| 315.0  | 23131.60 | 22973.59 | 22382.52 | 21387.63 | 19912.87 | 18010.88 | 11476.91 | 11476.91 | 10378.44 |
| 360.0  | 23219.39 | 22979.44 | 22048.94 | 20708.77 | 18356.17 | 14359.08 | 11444.13 | 11444.13 | 8951.66  |
| C/γ(°) | 9.0      | 10.0     | 11.0     | 12.0     | 13.0     | 14.0     | 15.0     | 16.0     | 17.0     |
| 0.0    | 7353.41  | 6010.32  | 4819.97  | 3582.22  | 2805.63  | 2215.72  | 1780.31  | 1131.42  | 1131.42  |
| 45.0   | 9372.96  | 7734.33  | 5990.36  | 4808.21  | 3789.92  | 2953.05  | 2953.05  | 1741.10  | 1410.45  |
| 90.0   | 6963.07  | 5341.41  | 4234.75  | 3314.77  | 2442.20  | 1947.10  | 1125.15  | 1125.15  | 951.46   |
| 135.0  | 7816.27  | 6382.46  | 5141.79  | 3854.29  | 3046.68  | 3046.68  | 2360.27  | 1540.37  | 1255.37  |
| 180.0  | 9343.70  | 7289.56  | 5914.28  | 4474.63  | 3549.97  | 2988.16  | 2988.16  | 1858.73  | 1538.03  |
| 225.0  | 7128.68  | 5754.58  | 4367.01  | 3499.70  | 2834.30  | 2337.45  | 1860.49  | 1159.21  | 1159.21  |
| 270.0  | 9542.68  | 7400.76  | 5996.22  | 4825.77  | 3825.03  | 3023.27  | 3023.27  | 1900.28  | 1540.96  |
| 315.0  | 8442.51  | 6530.00  | 5279.37  | 3983.10  | 3148.57  | 2496.63  | 1893.85  | 1167.29  | 1167.29  |
| 360.0  | 7353.41  | 6010.32  | 4819.97  | 3582.22  | 2805.63  | 2215.72  | 1780.31  | 1131.42  | 1131.42  |
| C/γ(°) | 18.0     | 19.0     | 20.0     | 21.0     | 22.0     | 23.0     | 24.0     | 25.0     | 26.0     |
| 0.0    | 924.01   | 714.44   | 577.85   | 466.25   | 360.50   | 300.81   | 260.07   | 226.25   | 204.83   |
| 45.0   | 1094.43  | 893.11   | 684.77   | 550.76   | 441.32   | 358.22   | 297.35   | 297.35   | 214.48   |
| 90.0   | 755.41   | 594.76   | 457.00   | 332.58   | 258.03   | 207.29   | 166.85   | 147.36   | 137.41   |
| 135.0  | 1021.86  | 821.71   | 612.79   | 485.21   | 366.99   | 296.77   | 296.77   | 240.29   | 188.62   |
| 180.0  | 1224.35  | 996.11   | 794.21   | 630.93   | 478.77   | 393.91   | 328.37   | 300.86   | 300.86   |
| 225.0  | 993.54   | 801.23   | 602.90   | 480.41   | 387.77   | 305.96   | 263.94   | 231.75   | 211.38   |
| 270.0  | 1195.67  | 950.46   | 740.37   | 572.41   | 414.98   | 324.86   | 306.72   | 240.00   | 182.88   |
| 315.0  | 931.74   | 738.20   | 582.42   | 454.66   | 337.91   | 274.59   | 230.70   | 201.96   | 178.84   |
| 360.0  | 924.01   | 714.44   | 577.85   | 466.25   | 360.50   | 300.81   | 260.07   | 226.25   | 204.83   |
| C/γ(°) | 27.0     | 28.0     | 29.0     | 30.0     | 31.0     | 32.0     | 33.0     | 34.0     | 35.0     |
| 0.0    | 189.09   | 180.19   | 169.36   | 165.85   | 158.19   | 154.32   | 142.50   | 133.49   | 110.43   |
| 45.0   | 197.05   | 178.61   | 170.18   | 164.04   | 154.50   | 145.72   | 138.41   | 127.11   | 114.47   |
| 90.0   | 128.28   | 124.48   | 120.26   | 115.64   | 111.84   | 106.39   | 99.25    | 92.23    | 86.38    |
| 135.0  | 177.62   | 172.35   | 167.73   | 163.69   | 158.36   | 152.51   | 141.86   | 129.74   | 113.77   |
| 180.0  | 218.70   | 200.21   | 193.71   | 185.22   | 179.49   | 175.80   | 166.79   | 158.71   | 144.14   |
| 225.0  | 197.69   | 187.74   | 181.07   | 173.93   | 167.49   | 157.25   | 148.00   | 128.81   | 108.91   |
| 270.0  | 166.15   | 158.71   | 155.67   | 151.92   | 147.54   | 144.49   | 138.23   | 129.74   | 116.64   |
| 315.0  | 165.74   | 158.83   | 150.58   | 147.48   | 141.04   | 137.06   | 130.39   | 120.79   | 103.29   |
| 360.0  | 189.09   | 180.19   | 169.36   | 165.85   | 158.19   | 154.32   | 142.50   | 133.49   | 110.43   |
| C/γ(°) | 36.0     | 37.0     | 38.0     | 39.0     | 40.0     | 41.0     | 42.0     | 43.0     | 44.0     |
| 0.0    | 92.99    | 84.21    | 79.47    | 77.07    | 75.61    | 74.56    | 73.86    | 72.68    | 71.92    |
| 45.0   | 95.16    | 75.61    | 69.76    | 66.83    | 63.61    | 62.79    | 63.15    | 63.50    | 63.97    |
| 90.0   | 81.35    | 77.07    | 74.91    | 73.56    | 72.51    | 71.57    | 70.93    | 70.58    | 70.52    |
| 135.0  | 96.68    | 80.00    | 72.28    | 68.06    | 65.14    | 65.08    | 66.83    | 68.76    | 70.29    |
| 180.0  | 125.24   | 108.50   | 95.63    | 88.78    | 85.09    | 82.40    | 81.64    | 81.64    | 82.11    |
| 225.0  | 87.78    | 79.30    | 75.61    | 73.45    | 72.28    | 73.09    | 74.50    | 75.90    | 76.96    |
| 270.0  | 100.78   | 83.98    | 71.81    | 68.53    | 66.31    | 65.37    | 65.84    | 66.25    | 66.54    |
| 315.0  | 87.20    | 72.04    | 65.72    | 62.09    | 60.80    | 60.75    | 60.92    | 60.98    | 61.16    |
| 360.0  | 92.99    | 84.21    | 79.47    | 77.07    | 75.61    | 74.56    | 73.86    | 72.68    | 71.92    |

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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    | 70.87 | 70.11 | 69.06 | 68.47 | 65.25 | 62.27 | 60.34 | 58.52 | 55.83 |
| 45.0   | 64.26 | 63.97 | 63.67 | 63.26 | 61.16 | 56.47 | 53.02 | 51.73 | 51.73 |
| 90.0   | 70.93 | 69.06 | 67.42 | 63.61 | 60.22 | 57.59 | 55.65 | 52.67 | 49.74 |
| 135.0  | 71.16 | 71.16 | 71.40 | 69.82 | 65.37 | 60.51 | 56.88 | 54.25 | 51.27 |
| 180.0  | 82.28 | 81.64 | 80.88 | 78.07 | 74.79 | 71.57 | 67.24 | 60.80 | 58.05 |
| 225.0  | 77.13 | 76.78 | 75.90 | 72.10 | 68.94 | 64.02 | 58.05 | 52.32 | 48.46 |
| 270.0  | 66.66 | 66.42 | 65.25 | 62.91 | 60.75 | 57.70 | 54.07 | 50.62 | 47.87 |
| 315.0  | 60.45 | 59.81 | 58.87 | 57.41 | 55.83 | 52.73 | 49.16 | 47.64 | 45.12 |
| 360.0  | 70.87 | 70.11 | 69.06 | 68.47 | 65.25 | 62.27 | 60.34 | 58.52 | 55.83 |
| C/γ(°) | 54.0  | 55.0  | 56.0  | 57.0  | 58.0  | 59.0  | 60.0  | 61.0  | 62.0  |
| 0.0    | 52.55 | 50.39 | 48.11 | 45.59 | 43.77 | 42.19 | 40.56 | 39.44 | 37.98 |
| 45.0   | 48.28 | 44.30 | 41.43 | 39.21 | 37.69 | 36.40 | 34.88 | 33.24 | 31.66 |
| 90.0   | 46.23 | 43.83 | 41.67 | 38.98 | 37.10 | 35.41 | 33.42 | 32.07 | 30.84 |
| 135.0  | 47.93 | 45.00 | 42.37 | 40.38 | 38.57 | 36.64 | 35.00 | 33.42 | 31.78 |
| 180.0  | 55.95 | 53.96 | 51.27 | 49.10 | 47.11 | 44.95 | 42.37 | 40.73 | 39.33 |
| 225.0  | 45.12 | 42.96 | 40.79 | 39.03 | 37.34 | 35.82 | 33.94 | 32.60 | 31.89 |
| 270.0  | 44.77 | 42.43 | 40.50 | 38.57 | 37.34 | 36.05 | 34.47 | 33.12 | 32.25 |
| 315.0  | 42.31 | 39.33 | 37.45 | 36.28 | 35.17 | 33.59 | 32.13 | 31.31 | 30.31 |
| 360.0  | 52.55 | 50.39 | 48.11 | 45.59 | 43.77 | 42.19 | 40.56 | 39.44 | 37.98 |
| C/γ(°) | 63.0  | 64.0  | 65.0  | 66.0  | 67.0  | 68.0  | 69.0  | 70.0  | 71.0  |
| 0.0    | 37.75 | 37.04 | 36.75 | 36.11 | 36.23 | 37.51 | 38.98 | 40.03 | 39.97 |
| 45.0   | 30.37 | 29.55 | 28.50 | 27.21 | 26.10 | 25.81 | 26.16 | 26.69 | 27.62 |
| 90.0   | 29.73 | 28.38 | 27.33 | 26.63 | 26.16 | 26.16 | 26.22 | 26.16 | 26.34 |
| 135.0  | 30.96 | 29.79 | 28.38 | 27.04 | 26.45 | 26.28 | 26.57 | 28.44 | 28.68 |
| 180.0  | 38.16 | 37.86 | 37.04 | 36.64 | 36.93 | 37.63 | 38.80 | 39.15 | 37.98 |
| 225.0  | 30.96 | 29.26 | 28.27 | 27.62 | 26.92 | 27.15 | 27.86 | 28.68 | 29.03 |
| 270.0  | 31.84 | 30.55 | 29.32 | 28.21 | 27.39 | 26.80 | 26.92 | 27.21 | 28.38 |
| 315.0  | 29.20 | 27.74 | 26.80 | 26.04 | 25.63 | 25.46 | 25.93 | 25.93 | 26.74 |
| 360.0  | 37.75 | 37.04 | 36.75 | 36.11 | 36.23 | 37.51 | 38.98 | 40.03 | 39.97 |
| C/γ(°) | 72.0  | 73.0  | 74.0  | 75.0  | 76.0  | 77.0  | 78.0  | 79.0  | 80.0  |
| 0.0    | 36.81 | 36.87 | 38.45 | 38.22 | 35.87 | 32.54 | 29.55 | 26.57 | 24.52 |
| 45.0   | 27.39 | 27.74 | 28.44 | 29.90 | 32.19 | 32.48 | 29.61 | 26.74 | 23.47 |
| 90.0   | 26.22 | 26.57 | 27.21 | 28.56 | 30.02 | 28.32 | 27.15 | 23.94 | 22.59 |
| 135.0  | 29.03 | 27.86 | 28.50 | 33.94 | 33.12 | 32.30 | 31.31 | 25.69 | 25.87 |
| 180.0  | 36.69 | 36.28 | 36.99 | 36.64 | 38.45 | 37.86 | 34.88 | 33.65 | 36.34 |
| 225.0  | 29.61 | 30.31 | 33.36 | 35.17 | 34.65 | 31.89 | 30.20 | 30.55 | 34.24 |
| 270.0  | 28.44 | 29.44 | 31.08 | 33.77 | 36.17 | 34.35 | 32.60 | 30.31 | 28.91 |
| 315.0  | 27.27 | 28.62 | 31.37 | 29.79 | 34.29 | 30.84 | 26.69 | 23.76 | 23.29 |
| 360.0  | 36.81 | 36.87 | 38.45 | 38.22 | 35.87 | 32.54 | 29.55 | 26.57 | 24.52 |
| C/γ(°) | 81.0  | 82.0  | 83.0  | 84.0  | 85.0  | 86.0  | 87.0  | 88.0  | 89.0  |
| 0.0    | 23.23 | 23.00 | 23.17 | 23.76 | 23.82 | 24.46 | 24.64 | 20.72 | 20.01 |
| 45.0   | 21.30 | 21.01 | 21.77 | 21.13 | 21.95 | 22.24 | 23.82 | 22.30 | 19.14 |
| 90.0   | 22.18 | 22.24 | 22.30 | 22.47 | 23.47 | 24.11 | 22.94 | 19.49 | 18.38 |
| 135.0  | 24.11 | 22.41 | 22.47 | 23.76 | 24.35 | 25.16 | 26.04 | 23.29 | 20.01 |
| 180.0  | 39.50 | 42.14 | 41.55 | 30.55 | 27.97 | 27.92 | 26.45 | 26.80 | 23.06 |
| 225.0  | 37.75 | 38.39 | 29.96 | 26.22 | 27.33 | 26.10 | 26.39 | 23.00 | 21.71 |
| 270.0  | 27.56 | 27.62 | 28.27 | 28.62 | 28.56 | 28.56 | 26.69 | 25.34 | 22.24 |
| 315.0  | 22.30 | 21.89 | 21.95 | 22.36 | 22.88 | 23.99 | 24.23 | 19.90 | 19.43 |
| 360.0  | 23.23 | 23.00 | 23.17 | 23.76 | 23.82 | 24.46 | 24.64 | 20.72 | 20.01 |

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Appendix Page: 19 Total:19

Intensity data(cd)

|                 |       |
|-----------------|-------|
| C/ $\gamma$ (°) | 90.0  |
| 0.0             | 18.26 |
| 45.0            | 18.38 |
| 90.0            | 18.08 |
| 135.0           | 19.66 |
| 180.0           | 21.71 |
| 225.0           | 20.31 |
| 270.0           | 20.13 |
| 315.0           | 18.96 |
| 360.0           | 18.26 |