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Nata

LumCAT: 3-2040-M
Luminaire: 92.70.131.00
Report No: GC2017061710
Test No: NT-0010
LampCAT: CITIZEN CLU038
Lamp flux(lm): 2365.0
Number of Lamps: 1
Length(mm): 79
Phm Type: C

Voltage(V): 34.2000
Current(A): 0.5000
Power (W): 17.1000
PF: 0.0000
Ballast type: DC
Width(mm): 79
Height(mm): 0

Photometric Results

Lumens(lm): 2134.94
Efficiency(%): 90.27%
Lumens(lm)/Power(W): 124.85
Central intensity(cd): 8982.176
Maximum intensity(cd): 8982.176
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=21.9
 [C90/270]Total=21.9
Field angle(10%Imax): [C0/180]Total=51.1
 [C90/270]Total=51.1
Maximum s/h(1/2): C0_180=0.37 C90_270=0.37
Maximum s/h(1/4): C0_180=0.39 C90_270=0.39
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.27%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.785%

Equipment: gms1980
Temperature(°C): 25.0

Date: 2017/6/4
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.42

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 8982.176 | 0.000 | 0 | .000% | .000% |
| 1.0 | 8906.474 | 8.559 | 8.559 | .362% | .401% |
| 2.0 | 8714.189 | 25.291 | 33.85 | 1.069% | 1.586% |
| 3.0 | 8410.278 | 40.956 | 74.806 | 1.732% | 3.504% |
| 4.0 | 8046.768 | 55.087 | 129.893 | 2.329% | 6.084% |
| 5.0 | 7647.059 | 67.514 | 197.407 | 2.855% | 9.247% |
| 6.0 | 7179.079 | 77.915 | 275.323 | 3.295% | 12.896% |
| 7.0 | 6652.740 | 85.854 | 361.177 | 3.630% | 16.917% |
| 8.0 | 6155.581 | 91.667 | 452.843 | 3.876% | 21.211% |
| 9.0 | 5576.112 | 95.079 | 547.922 | 4.020% | 25.665% |
| 10.0 | 4989.624 | 95.616 | 643.538 | 4.043% | 30.143% |
| 11.0 | 4472.231 | 94.543 | 738.082 | 3.998% | 34.572% |
| 12.0 | 3924.695 | 91.790 | 829.872 | 3.881% | 38.871% |
| 13.0 | 3418.039 | 87.140 | 917.012 | 3.685% | 42.953% |
| 14.0 | 2981.992 | 81.920 | 998.932 | 3.464% | 46.790% |
| 15.0 | 2600.176 | 76.634 | 1075.566 | 3.240% | 50.379% |
| 16.0 | 2261.855 | 71.242 | 1146.809 | 3.012% | 53.716% |
| 17.0 | 1987.536 | 66.174 | 1212.983 | 2.798% | 56.816% |
| 18.0 | 1753.409 | 61.680 | 1274.663 | 2.608% | 59.705% |
| 19.0 | 1569.245 | 57.807 | 1332.47 | 2.444% | 62.413% |
| 20.0 | 1407.655 | 54.486 | 1386.956 | 2.304% | 64.965% |
| 21.0 | 1264.370 | 51.308 | 1438.264 | 2.169% | 67.368% |
| 22.0 | 1161.786 | 48.755 | 1487.019 | 2.062% | 69.652% |
| 23.0 | 1067.819 | 46.783 | 1533.802 | 1.978% | 71.843% |
| 24.0 | 992.598 | 45.048 | 1578.85 | 1.905% | 73.953% |
| 25.0 | 924.961 | 43.601 | 1622.451 | 1.844% | 75.995% |
| 26.0 | 877.750 | 42.553 | 1665.004 | 1.799% | 77.988% |
| 27.0 | 839.018 | 42.001 | 1707.006 | 1.776% | 79.956% |
| 28.0 | 810.692 | 41.767 | 1748.773 | 1.766% | 81.912% |
| 29.0 | 788.545 | 41.841 | 1790.613 | 1.769% | 83.872% |
| 30.0 | 765.711 | 41.965 | 1832.578 | 1.774% | 85.837% |
| 31.0 | 730.653 | 41.642 | 1874.22 | 1.761% | 87.788% |
| 32.0 | 677.593 | 40.345 | 1914.564 | 1.706% | 89.678% |
| 33.0 | 610.341 | 37.943 | 1952.507 | 1.604% | 91.455% |
| 34.0 | 524.577 | 34.346 | 1986.853 | 1.452% | 93.064% |
| 35.0 | 431.174 | 29.682 | 2016.535 | 1.255% | 94.454% |
| 36.0 | 333.724 | 24.355 | 2040.89 | 1.030% | 95.595% |
| 37.0 | 261.614 | 19.417 | 2060.306 | .821% | 96.504% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 159.237 | 14.047 | 2074.354 | .594% | 97.162% |
| 39.0 | 102.143 | 8.922 | 2083.275 | .377% | 97.580% |
| 40.0 | 51.684 | 5.365 | 2088.64 | .227% | 97.831% |
| 41.0 | 28.505 | 2.856 | 2091.496 | .121% | 97.965% |
| 42.0 | 19.848 | 1.757 | 2093.253 | .074% | 98.047% |
| 43.0 | 15.608 | 1.313 | 2094.566 | .056% | 98.109% |
| 44.0 | 13.214 | 1.088 | 2095.654 | .046% | 98.160% |
| 45.0 | 11.576 | 0.953 | 2096.607 | .040% | 98.204% |
| 46.0 | 10.942 | 0.881 | 2097.487 | .037% | 98.246% |
| 47.0 | 10.378 | 0.848 | 2098.335 | .036% | 98.285% |
| 48.0 | 10.130 | 0.829 | 2099.164 | .035% | 98.324% |
| 49.0 | 9.924 | 0.824 | 2099.988 | .035% | 98.363% |
| 50.0 | 9.773 | 0.821 | 2100.809 | .035% | 98.401% |
| 51.0 | 9.607 | 0.820 | 2101.629 | .035% | 98.440% |
| 52.0 | 9.470 | 0.819 | 2102.448 | .035% | 98.478% |
| 53.0 | 9.318 | 0.817 | 2103.265 | .035% | 98.516% |
| 54.0 | 9.208 | 0.817 | 2104.081 | .035% | 98.555% |
| 55.0 | 9.084 | 0.817 | 2104.898 | .035% | 98.593% |
| 56.0 | 8.988 | 0.817 | 2105.715 | .035% | 98.631% |
| 57.0 | 8.919 | 0.819 | 2106.533 | .035% | 98.669% |
| 58.0 | 8.850 | 0.822 | 2107.355 | .035% | 98.708% |
| 59.0 | 8.768 | 0.824 | 2108.179 | .035% | 98.747% |
| 60.0 | 8.699 | 0.825 | 2109.004 | .035% | 98.785% |
| 61.0 | 8.671 | 0.829 | 2109.833 | .035% | 98.824% |
| 62.0 | 8.603 | 0.832 | 2110.665 | .035% | 98.863% |
| 63.0 | 8.534 | 0.833 | 2111.499 | .035% | 98.902% |
| 64.0 | 8.492 | 0.835 | 2112.334 | .035% | 98.941% |
| 65.0 | 8.465 | 0.839 | 2113.173 | .035% | 98.980% |
| 66.0 | 8.437 | 0.843 | 2114.017 | .036% | 99.020% |
| 67.0 | 8.410 | 0.847 | 2114.864 | .036% | 99.060% |
| 68.0 | 8.355 | 0.849 | 2115.713 | .036% | 99.099% |
| 69.0 | 8.327 | 0.851 | 2116.564 | .036% | 99.139% |
| 70.0 | 8.300 | 0.854 | 2117.418 | .036% | 99.179% |
| 71.0 | 8.286 | 0.857 | 2118.275 | .036% | 99.219% |
| 72.0 | 8.258 | 0.860 | 2119.135 | .036% | 99.260% |
| 73.0 | 8.231 | 0.862 | 2119.998 | .036% | 99.300% |
| 74.0 | 8.203 | 0.864 | 2120.862 | .037% | 99.341% |
| 75.0 | 8.203 | 0.867 | 2121.729 | .037% | 99.381% |

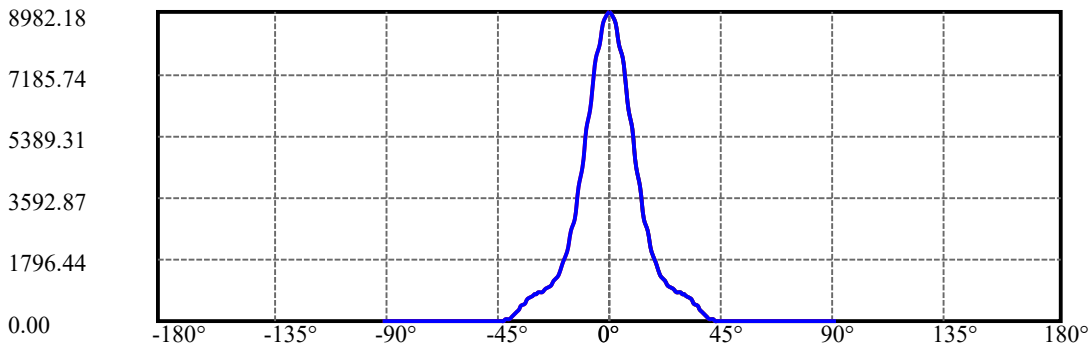
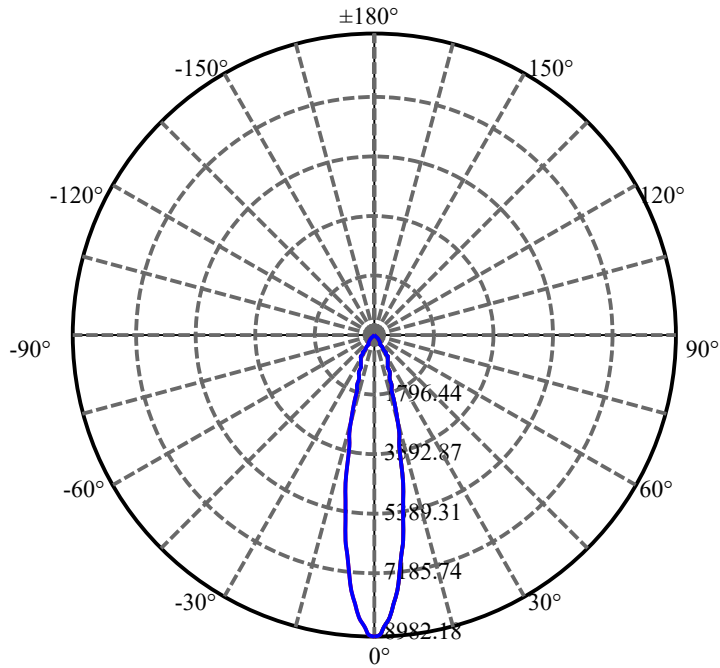
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 8.190 | 0.870 | 2122.599 | .037% | 99.422% |
| 77.0 | 8.176 | 0.873 | 2123.471 | .037% | 99.463% |
| 78.0 | 8.176 | 0.875 | 2124.347 | .037% | 99.504% |
| 79.0 | 8.148 | 0.877 | 2125.224 | .037% | 99.545% |
| 80.0 | 8.135 | 0.878 | 2126.102 | .037% | 99.586% |
| 81.0 | 8.121 | 0.879 | 2126.981 | .037% | 99.627% |
| 82.0 | 8.135 | 0.882 | 2127.862 | .037% | 99.668% |
| 83.0 | 8.093 | 0.882 | 2128.744 | .037% | 99.710% |
| 84.0 | 8.107 | 0.883 | 2129.627 | .037% | 99.751% |
| 85.0 | 8.121 | 0.886 | 2130.513 | .037% | 99.793% |
| 86.0 | 8.093 | 0.886 | 2131.399 | .037% | 99.834% |
| 87.0 | 8.107 | 0.887 | 2132.286 | .037% | 99.876% |
| 88.0 | 8.052 | 0.885 | 2133.171 | .037% | 99.917% |
| 89.0 | 8.066 | 0.883 | 2134.054 | .037% | 99.959% |
| 90.0 | 8.093 | 0.886 | 2134.94 | .037% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1832.58 | 77.49% | 85.84% |
| 0-40 | 2088.64 | 88.31% | 97.83% |
| 0-60 | 2109.00 | 89.18% | 98.79% |
| 0-90 | 2134.05 | 90.23% | 99.96% |
| 0-120 | 2134.05 | 90.23% | 99.96% |
| 0-180 | 2134.94 | 90.27% | 100.00% |
| 60-90 | 25.88 | 1.09% | 1.21% |
| 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% |
| 0-27.02 | 1707.95 | 72.22% | 80.00% |

ZONAL LUMEN SUMMARY

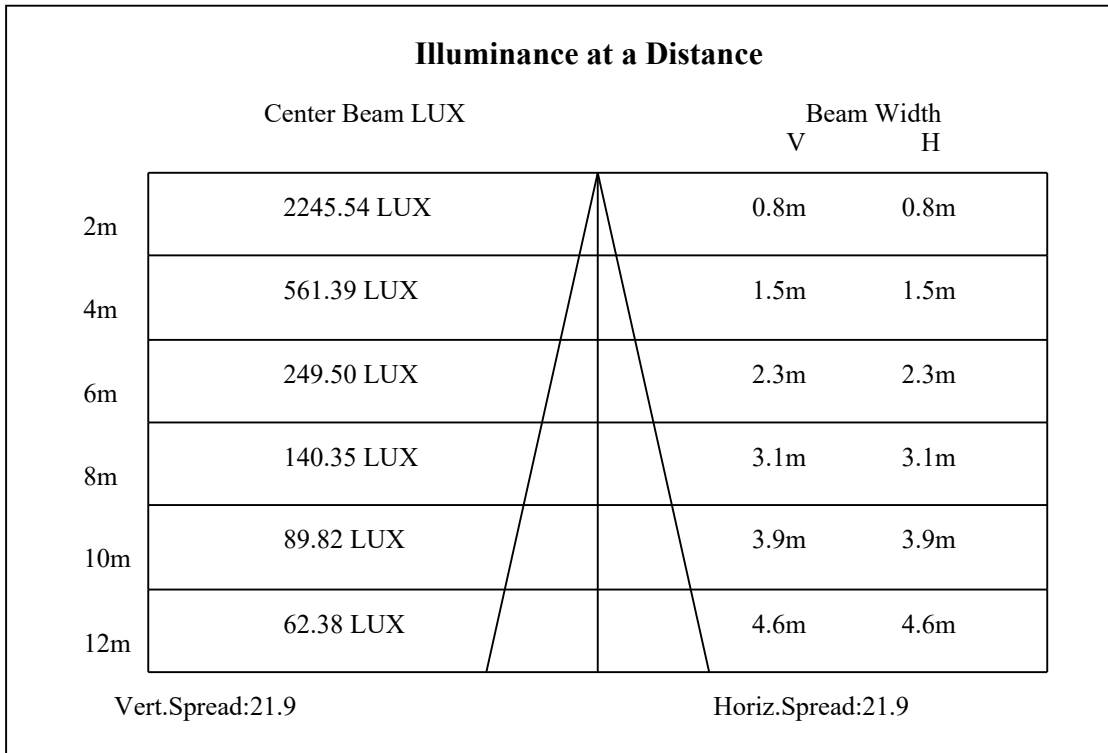
| | |
|---------|--------|
| 0-10 | 643.54 |
| 10-20 | 743.42 |
| 20-30 | 445.62 |
| 30-40 | 256.06 |
| 40-50 | 12.17 |
| 50-60 | 8.19 |
| 60-70 | 8.41 |
| 70-80 | 8.68 |
| 80-90 | 7.95 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

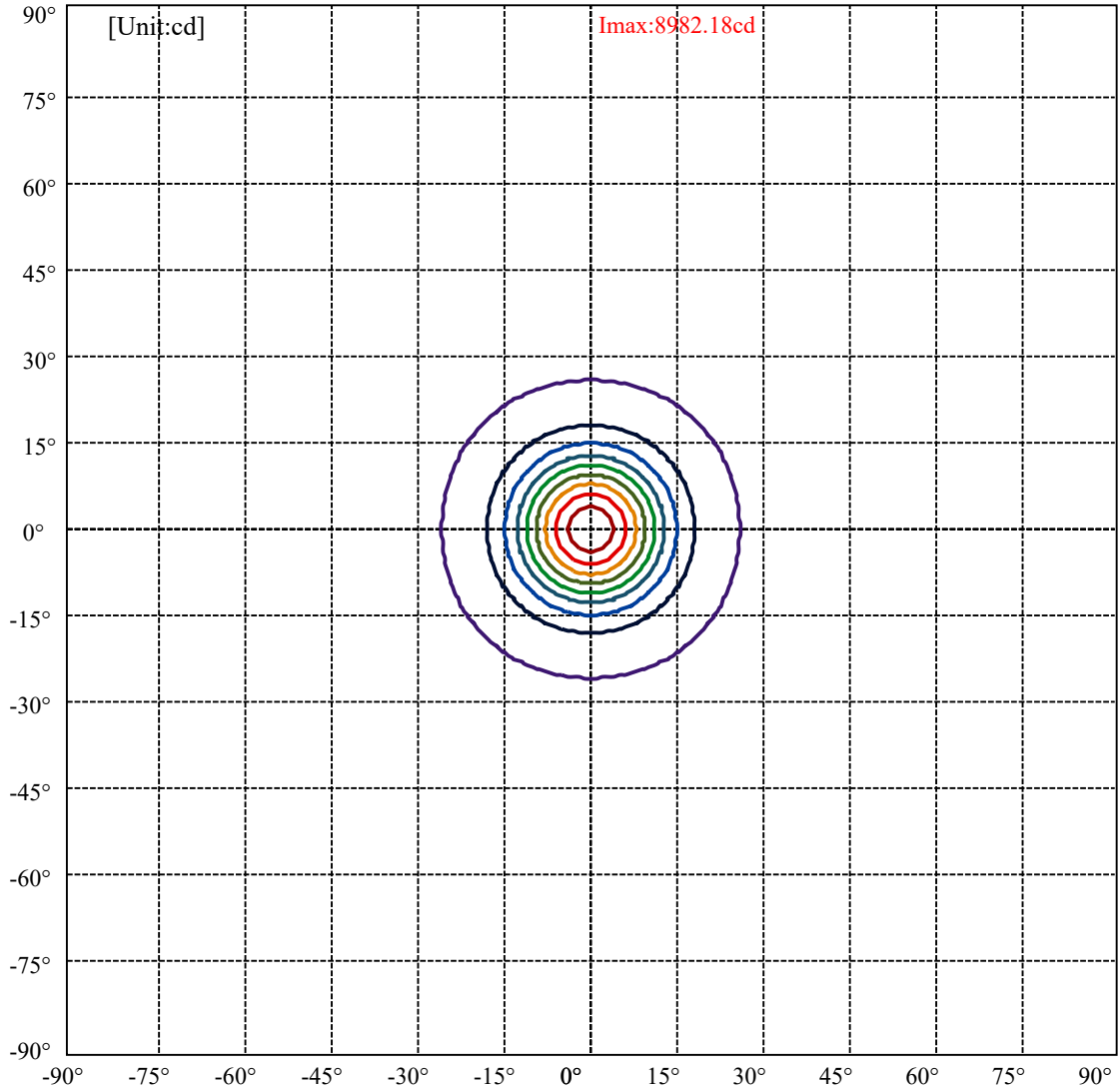


C0(Max): ———
C0/C180: ———
C90/C270: ———

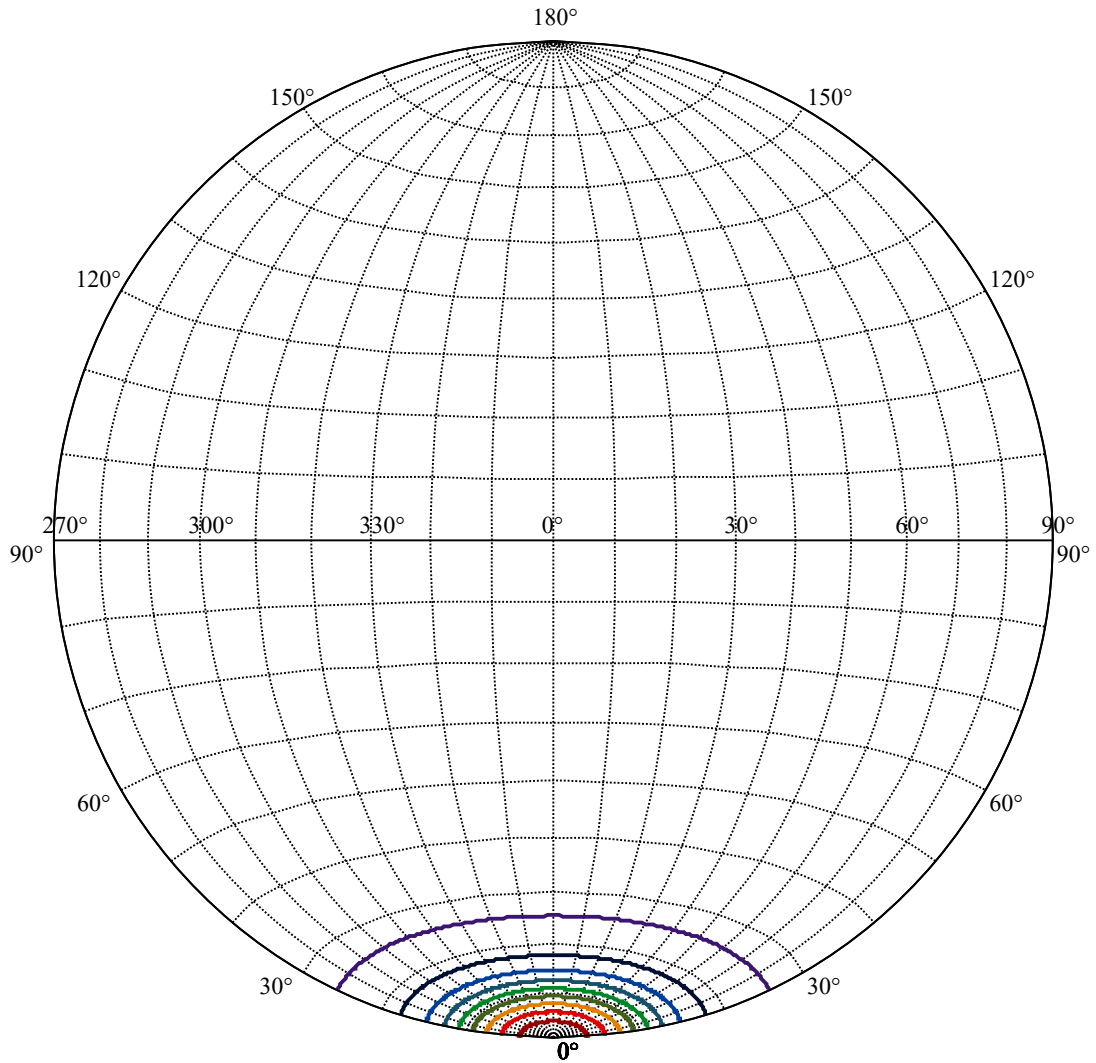
Field angle(10%Imax):C0/180Left:25.6 Right:25.6
:C90/270Left:25.6 Right:25.6

Beam Angle(50%Imax):C0/180Left:11.0 Right:11.0
:C90/270Left:11.0 Right:11.0





| | |
|-------------------|---|
| (10%Imax) 898.218 | — |
| (20%Imax) 1796.44 | — |
| (30%Imax) 2694.65 | — |
| (40%Imax) 3592.87 | — |
| (50%Imax) 4491.09 | — |
| (60%Imax) 5389.31 | — |
| (70%Imax) 6287.52 | — |
| (80%Imax) 7185.74 | — |
| (90%Imax) 8083.96 | — |



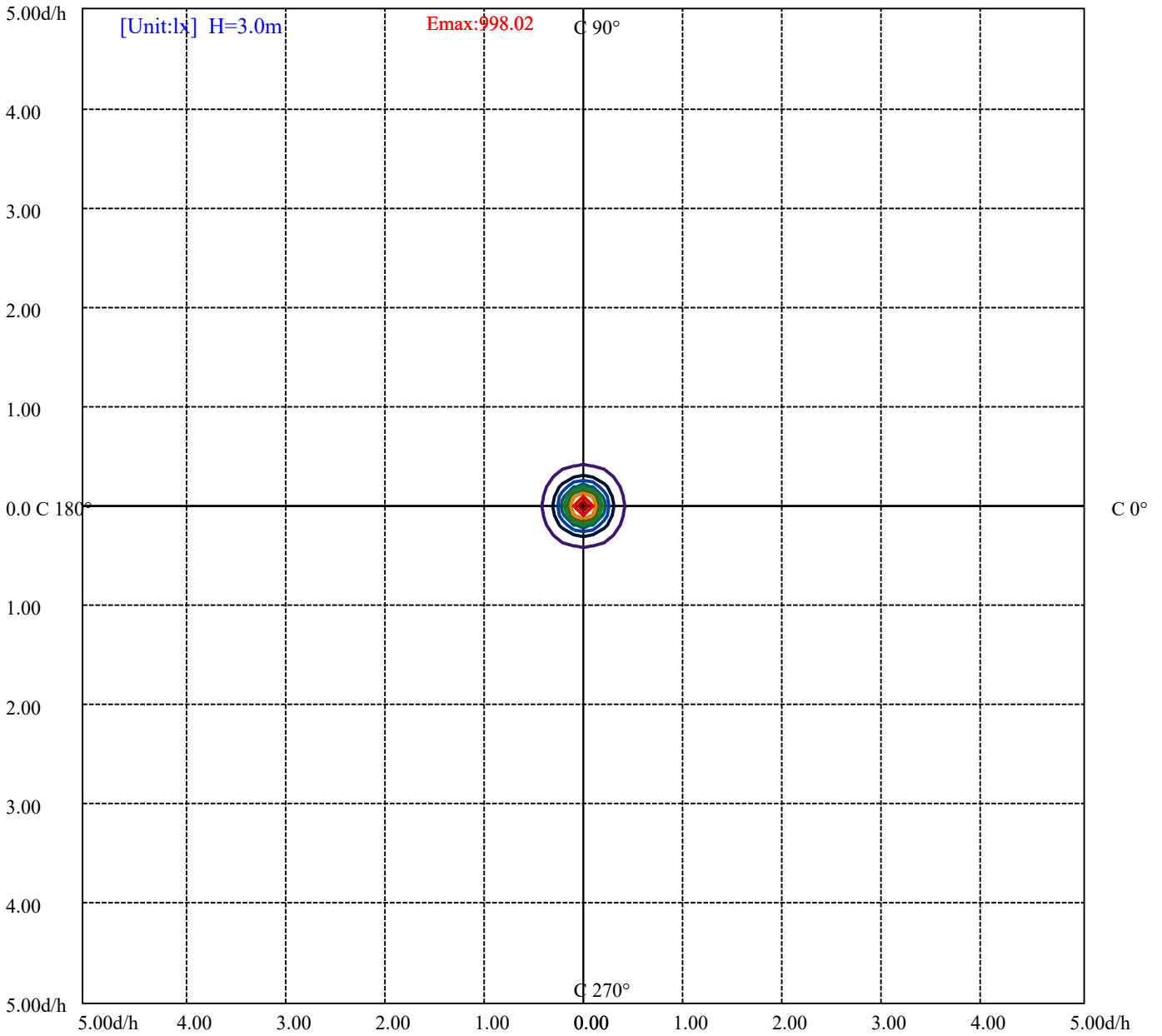
House

[Unit:cd]

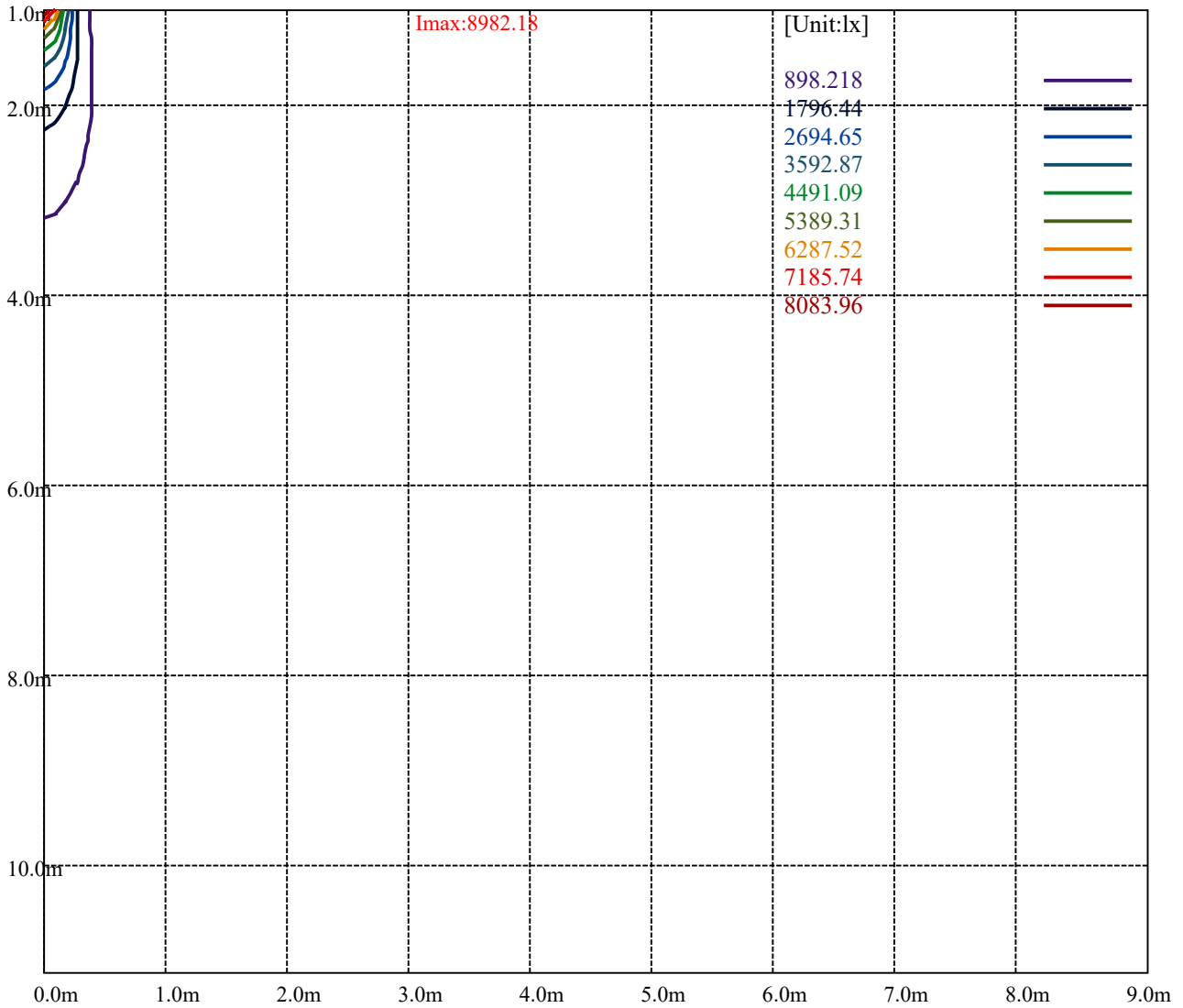
Road

Imax:8982.18

| | | |
|-----------|---------|---|
| (10%Imax) | 898.218 | — |
| (20%Imax) | 1796.44 | — |
| (30%Imax) | 2694.65 | — |
| (40%Imax) | 3592.87 | — |
| (50%Imax) | 4491.09 | — |
| (60%Imax) | 5389.31 | — |
| (70%Imax) | 6287.52 | — |
| (80%Imax) | 7185.74 | — |
| (90%Imax) | 8083.96 | — |



| | |
|--------------------|---|
| (10%Emax) 99.80178 | — |
| (20%Emax) 199.6033 | — |
| (30%Emax) 299.4055 | — |
| (40%Emax) 399.2078 | — |
| (50%Emax) 499.0089 | — |
| (60%Emax) 598.8111 | — |
| (70%Emax) 698.6122 | — |
| (80%Emax) 798.4144 | — |
| (90%Emax) 898.2167 | — |



Luminance Table

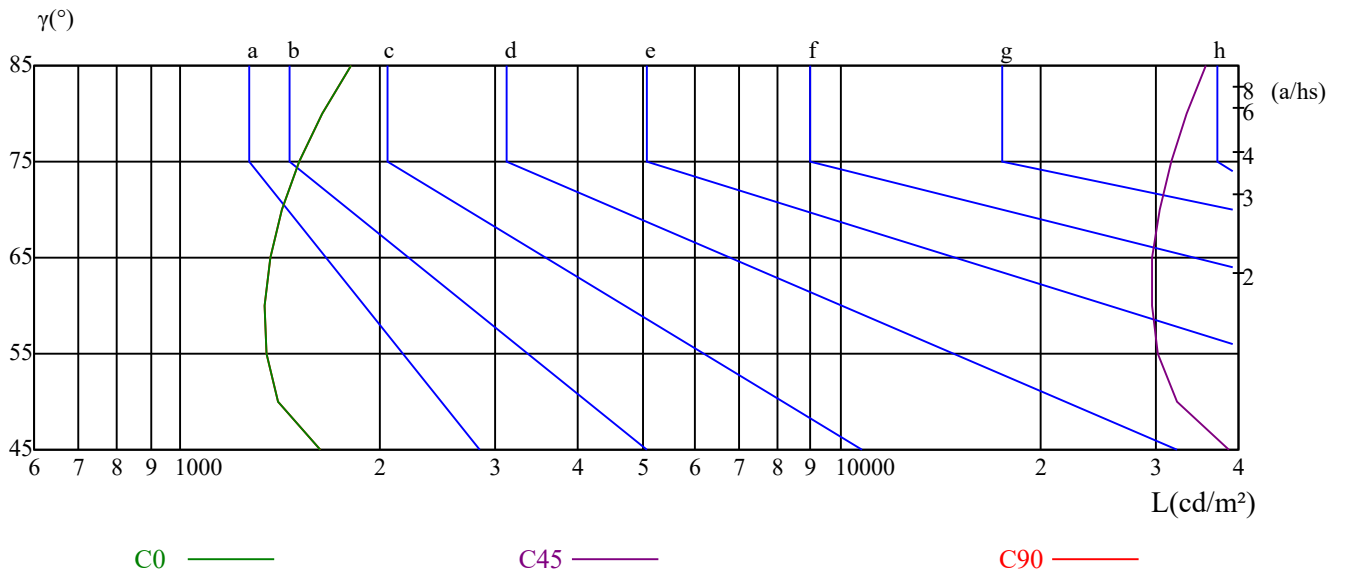
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0 | 1627 | 1404 | 1346 | 1341 | 1371 | 1426 | 1514 | 1635 | 1807 |
| C45 | 38599 | 32182 | 30259 | 29579 | 29673 | 30453 | 31596 | 33310 | 35762 |
| C90 | 1627 | 1404 | 1346 | 1341 | 1371 | 1426 | 1514 | 1635 | 1807 |

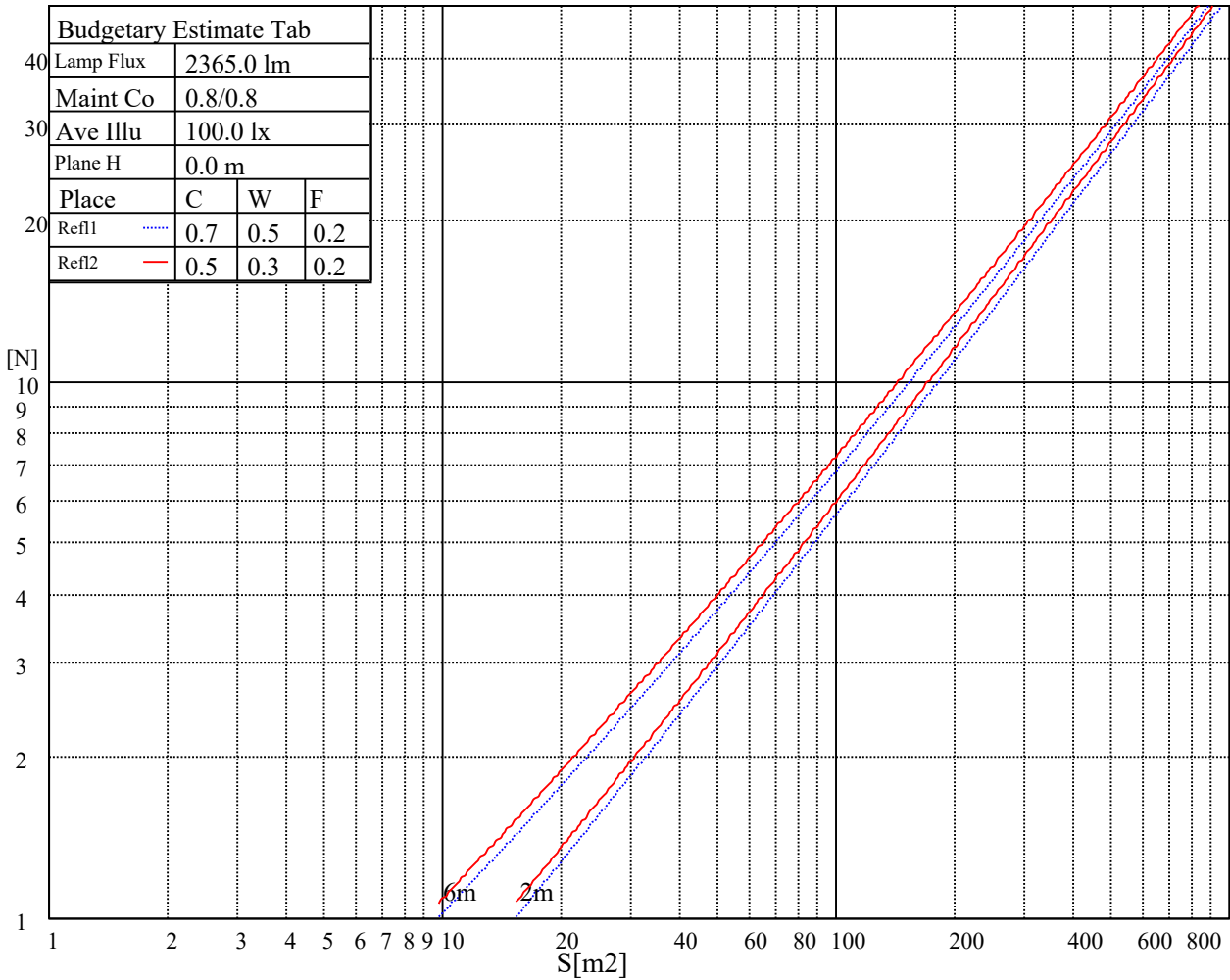
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 3292 | 3292 | 88515 | 5210 | 5210 | 140630 | 15315 | 15315 | 413736 |

Glare Table

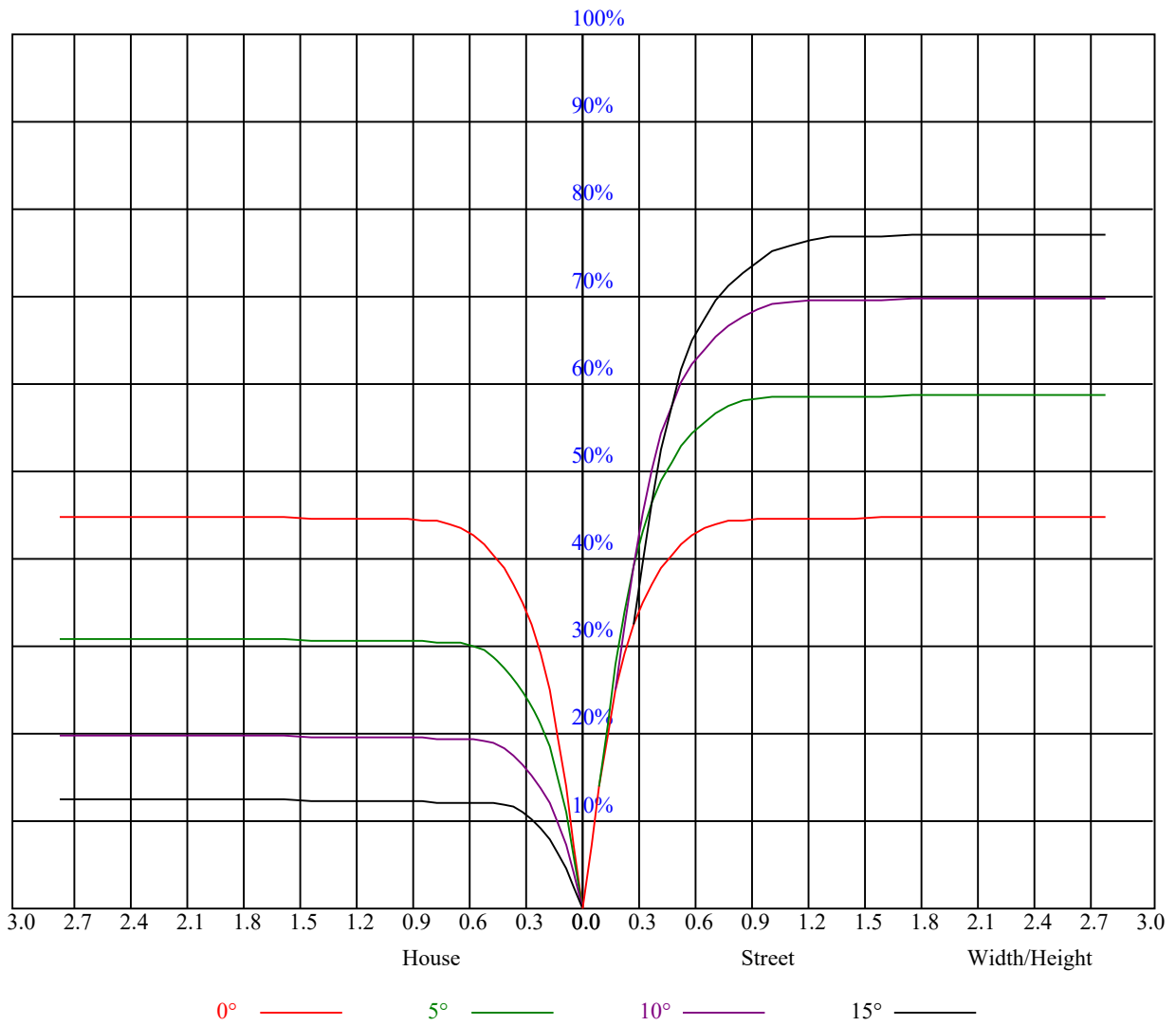
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 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 RHOFC=20 CU | | | | | | | | | | | | | | | |
| 0 | 1.07 | 1.07 | 1.07 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | 0.96 | 0.96 | 0.96 | 0.92 | 0.92 | 0.92 | 0.90 |
| 1 | 1.01 | 0.99 | 0.97 | 0.99 | 0.97 | 0.96 | 0.96 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.88 | 0.88 | 0.86 |
| 2 | 0.96 | 0.93 | 0.90 | 0.94 | 0.91 | 0.89 | 0.91 | 0.89 | 0.87 | 0.89 | 0.87 | 0.85 | 0.86 | 0.85 | 0.83 | 0.82 |
| 3 | 0.91 | 0.87 | 0.84 | 0.90 | 0.86 | 0.84 | 0.87 | 0.85 | 0.82 | 0.85 | 0.83 | 0.81 | 0.83 | 0.81 | 0.80 | 0.78 |
| 4 | 0.87 | 0.83 | 0.79 | 0.86 | 0.82 | 0.79 | 0.84 | 0.81 | 0.78 | 0.82 | 0.79 | 0.77 | 0.80 | 0.78 | 0.76 | 0.75 |
| 5 | 0.83 | 0.79 | 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 |
| 6 | 0.79 | 0.75 | 0.72 | 0.79 | 0.75 | 0.72 | 0.77 | 0.74 | 0.71 | 0.76 | 0.73 | 0.71 | 0.75 | 0.72 | 0.70 | 0.69 |
| 7 | 0.76 | 0.72 | 0.69 | 0.76 | 0.72 | 0.69 | 0.75 | 0.71 | 0.68 | 0.74 | 0.70 | 0.68 | 0.73 | 0.70 | 0.68 | 0.67 |
| 8 | 0.73 | 0.69 | 0.66 | 0.73 | 0.69 | 0.66 | 0.72 | 0.68 | 0.66 | 0.71 | 0.68 | 0.66 | 0.70 | 0.67 | 0.65 | 0.64 |
| 9 | 0.71 | 0.67 | 0.64 | 0.70 | 0.66 | 0.64 | 0.70 | 0.66 | 0.63 | 0.69 | 0.66 | 0.63 | 0.68 | 0.65 | 0.63 | 0.62 |
| 10 | 0.68 | 0.64 | 0.61 | 0.68 | 0.64 | 0.61 | 0.67 | 0.64 | 0.61 | 0.67 | 0.63 | 0.61 | 0.66 | 0.63 | 0.61 | 0.60 |



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 | 9007.78 | 8858.02 | 8577.79 | 8260.66 | 7852.69 | 7436.47 | 6927.20 | 6383.79 | 5881.12 |
| 90.0 | 8956.58 | 9113.49 | 9102.47 | 8926.84 | 8667.53 | 8308.01 | 7944.09 | 7475.56 | 7015.29 |
| 180.0 | 9007.78 | 8998.97 | 8852.52 | 8547.51 | 8224.33 | 7862.05 | 7347.28 | 6883.15 | 6383.79 |
| 270.0 | 8956.58 | 8655.42 | 8323.98 | 7906.10 | 7442.52 | 6981.70 | 6497.76 | 5868.46 | 5342.12 |
| 360.0 | 9007.78 | 8858.02 | 8577.79 | 8260.66 | 7852.69 | 7436.47 | 6927.20 | 6383.79 | 5881.12 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 5297.53 | 4708.97 | 4196.95 | 3705.85 | 3147.02 | 2756.12 | 2420.28 | 2098.20 | 1831.73 |
| 90.0 | 6464.17 | 5883.88 | 5344.88 | 4736.50 | 4143.54 | 3651.34 | 3205.38 | 2721.44 | 2394.95 |
| 180.0 | 5727.52 | 5196.22 | 4670.43 | 4032.88 | 3610.60 | 3120.60 | 2653.72 | 2375.68 | 2069.57 |
| 270.0 | 4815.23 | 4169.42 | 3676.67 | 3223.55 | 2770.99 | 2399.91 | 2121.32 | 1852.10 | 1653.89 |
| 360.0 | 5297.53 | 4708.97 | 4196.95 | 3705.85 | 3147.02 | 2756.12 | 2420.28 | 2098.20 | 1831.73 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 1640.13 | 1483.22 | 1320.80 | 1211.24 | 1117.64 | 1027.90 | 951.93 | 898.52 | 850.62 |
| 90.0 | 2111.96 | 1842.74 | 1628.02 | 1471.11 | 1323.56 | 1200.23 | 1107.73 | 1019.64 | 953.03 |
| 180.0 | 1783.28 | 1619.21 | 1461.75 | 1286.67 | 1195.83 | 1091.38 | 1014.25 | 941.13 | 891.36 |
| 270.0 | 1478.26 | 1331.81 | 1220.05 | 1088.47 | 1010.12 | 951.76 | 896.48 | 840.55 | 815.99 |
| 360.0 | 1640.13 | 1483.22 | 1320.80 | 1211.24 | 1117.64 | 1027.90 | 951.93 | 898.52 | 850.62 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 816.49 | 796.67 | 776.30 | 759.23 | 725.09 | 657.37 | 580.85 | 497.16 | 384.84 |
| 90.0 | 897.97 | 855.03 | 827.50 | 804.37 | 783.45 | 765.28 | 733.35 | 655.17 | 573.14 |
| 180.0 | 847.81 | 818.52 | 798.32 | 778.39 | 760.22 | 720.69 | 645.81 | 565.70 | 477.78 |
| 270.0 | 793.80 | 772.55 | 752.07 | 720.85 | 653.85 | 567.03 | 481.36 | 380.27 | 288.94 |
| 360.0 | 816.49 | 796.67 | 776.30 | 759.23 | 725.09 | 657.37 | 580.85 | 497.16 | 384.84 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 292.90 | 281.34 | 108.08 | 51.92 | 27.97 | 20.92 | 16.74 | 13.60 | 12.11 |
| 90.0 | 486.70 | 381.54 | 282.99 | 228.04 | 108.57 | 49.50 | 28.08 | 21.42 | 17.18 |
| 180.0 | 364.47 | 276.71 | 193.30 | 101.69 | 49.00 | 26.70 | 21.03 | 15.75 | 12.50 |
| 270.0 | 190.83 | 106.86 | 52.58 | 26.92 | 21.20 | 16.90 | 13.54 | 11.67 | 11.07 |
| 360.0 | 292.90 | 281.34 | 108.08 | 51.92 | 27.97 | 20.92 | 16.74 | 13.60 | 12.11 |
| C/γ(°) | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 | 50.0 | 51.0 | 52.0 | 53.0 |
| 0.0 | 10.68 | 10.30 | 10.02 | 9.80 | 9.63 | 9.52 | 9.36 | 9.25 | 9.08 |
| 90.0 | 13.71 | 12.50 | 11.07 | 10.74 | 10.41 | 10.24 | 10.08 | 9.86 | 9.69 |
| 180.0 | 11.12 | 10.52 | 10.24 | 9.97 | 9.80 | 9.63 | 9.52 | 9.36 | 9.19 |
| 270.0 | 10.79 | 10.46 | 10.19 | 10.02 | 9.86 | 9.69 | 9.47 | 9.41 | 9.30 |
| 360.0 | 10.68 | 10.30 | 10.02 | 9.80 | 9.63 | 9.52 | 9.36 | 9.25 | 9.08 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 9.03 | 8.92 | 8.81 | 8.75 | 8.70 | 8.64 | 8.59 | 8.59 | 8.48 |
| 90.0 | 9.58 | 9.41 | 9.30 | 9.25 | 9.14 | 9.03 | 8.92 | 8.92 | 8.81 |
| 180.0 | 9.08 | 8.97 | 8.92 | 8.81 | 8.75 | 8.64 | 8.59 | 8.59 | 8.53 |
| 270.0 | 9.14 | 9.03 | 8.92 | 8.86 | 8.81 | 8.75 | 8.70 | 8.59 | 8.59 |
| 360.0 | 9.03 | 8.92 | 8.81 | 8.75 | 8.70 | 8.64 | 8.59 | 8.59 | 8.48 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 8.42 | 8.42 | 8.37 | 8.31 | 8.31 | 8.26 | 8.26 | 8.26 | 8.20 |
| 90.0 | 8.75 | 8.70 | 8.64 | 8.59 | 8.59 | 8.53 | 8.48 | 8.42 | 8.42 |
| 180.0 | 8.42 | 8.37 | 8.37 | 8.37 | 8.31 | 8.26 | 8.26 | 8.20 | 8.20 |
| 270.0 | 8.53 | 8.48 | 8.48 | 8.48 | 8.42 | 8.37 | 8.31 | 8.31 | 8.31 |
| 360.0 | 8.42 | 8.42 | 8.37 | 8.31 | 8.31 | 8.26 | 8.26 | 8.26 | 8.20 |

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| Intensity data(cd) | | | | | | | | | | Appendix Page: 17 Total:17 |
|--------------------|------|------|------|------|------|------|------|------|------|----------------------------|
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 | |
| 0.0 | 8.15 | 8.15 | 8.15 | 8.15 | 8.15 | 8.15 | 8.09 | 8.09 | 8.09 | |
| 90.0 | 8.37 | 8.37 | 8.31 | 8.31 | 8.26 | 8.26 | 8.26 | 8.26 | 8.26 | 8.20 |
| 180.0 | 8.20 | 8.15 | 8.15 | 8.15 | 8.15 | 8.09 | 8.15 | 8.09 | 8.09 | 8.09 |
| 270.0 | 8.31 | 8.26 | 8.20 | 8.20 | 8.20 | 8.20 | 8.20 | 8.15 | 8.15 | 8.15 |
| 360.0 | 8.15 | 8.15 | 8.15 | 8.15 | 8.15 | 8.15 | 8.09 | 8.09 | 8.09 | 8.09 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 | |
| 0.0 | 8.09 | 8.09 | 8.04 | 8.04 | 8.04 | 8.04 | 8.09 | 8.04 | 8.04 | 8.04 |
| 90.0 | 8.15 | 8.20 | 8.15 | 8.20 | 8.20 | 8.15 | 8.15 | 8.09 | 8.09 | 8.09 |
| 180.0 | 8.09 | 8.09 | 8.04 | 8.04 | 8.09 | 8.09 | 8.09 | 7.98 | 7.98 | 7.98 |
| 270.0 | 8.15 | 8.15 | 8.15 | 8.15 | 8.15 | 8.09 | 8.09 | 8.09 | 8.09 | 8.15 |
| 360.0 | 8.09 | 8.09 | 8.04 | 8.04 | 8.04 | 8.04 | 8.09 | 8.04 | 8.04 | 8.04 |
| C/γ(°) | 90.0 | | | | | | | | | |
| 0.0 | 8.04 | | | | | | | | | |
| 90.0 | 8.15 | | | | | | | | | |
| 180.0 | 8.04 | | | | | | | | | |
| 270.0 | 8.15 | | | | | | | | | |
| 360.0 | 8.04 | | | | | | | | | |