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Nata

LumCAT: 1-0926-M
Luminaire: 99.02.73.179+92.76.853.00
Report No: 220609-B011
Test No: 220609-C011
LampCAT: Bridgelux C10-(30C2000C)
Lamp flux(lm): 1182.2
Number of Lamps: 1
Length(mm): 43
Phm Type: C

Voltage(V): 37.2100
Current(A): 0.3610
Power (W): 13.4320
PF: 1.0000
Ballast type: DC
Width(mm): 43
Height(mm): 0

Photometric Results

Lumens(lm): 893.44
Efficiency(%): 75.58%
Lumens(lm)/Power(W): 66.52
Central intensity(cd): 8074.708
Maximum intensity(cd): 8074.708
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=14.9
 [C90/270]Total=14.9
Field angle(10%Imax): [C0/180]Total=35.9
 [C90/270]Total=35.9
Maximum s/h(1/2): C0_180=0.26 C90_270=0.26
Maximum s/h(1/4): C0_180=0.30 C90_270=0.30
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 75.58%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.544%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2022/6/09
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.73

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 8074.708 | 0.000 | 0 | .000% | .000% |
| 1.0 | 7936.530 | 7.661 | 7.661 | .648% | .857% |
| 2.0 | 7552.542 | 22.231 | 29.892 | 1.881% | 3.346% |
| 3.0 | 6993.106 | 34.788 | 64.681 | 2.943% | 7.240% |
| 4.0 | 6331.492 | 44.602 | 109.283 | 3.773% | 12.232% |
| 5.0 | 5685.040 | 51.694 | 160.977 | 4.373% | 18.018% |
| 6.0 | 4948.810 | 55.884 | 216.861 | 4.727% | 24.272% |
| 7.0 | 4292.798 | 57.363 | 274.223 | 4.852% | 30.693% |
| 8.0 | 3753.752 | 57.588 | 331.811 | 4.871% | 37.138% |
| 9.0 | 3231.736 | 56.614 | 388.424 | 4.789% | 43.475% |
| 10.0 | 2781.647 | 54.419 | 442.843 | 4.603% | 49.566% |
| 11.0 | 2438.142 | 52.156 | 495 | 4.412% | 55.404% |
| 12.0 | 2121.900 | 49.848 | 544.848 | 4.217% | 60.983% |
| 13.0 | 1810.289 | 46.665 | 591.513 | 3.947% | 66.206% |
| 14.0 | 1556.862 | 43.099 | 634.612 | 3.646% | 71.030% |
| 15.0 | 1357.608 | 40.011 | 674.623 | 3.384% | 75.508% |
| 16.0 | 1130.943 | 36.464 | 711.087 | 3.084% | 79.590% |
| 17.0 | 964.262 | 32.628 | 743.715 | 2.760% | 83.242% |
| 18.0 | 798.680 | 29.067 | 772.782 | 2.459% | 86.495% |
| 19.0 | 633.448 | 24.916 | 797.699 | 2.108% | 89.284% |
| 20.0 | 489.145 | 20.547 | 818.245 | 1.738% | 91.583% |
| 21.0 | 363.716 | 16.377 | 834.622 | 1.385% | 93.416% |
| 22.0 | 237.219 | 12.076 | 846.698 | 1.021% | 94.768% |
| 23.0 | 160.474 | 8.345 | 855.042 | .706% | 95.702% |
| 24.0 | 84.782 | 5.362 | 860.405 | .454% | 96.302% |
| 25.0 | 42.425 | 2.892 | 863.297 | .245% | 96.626% |
| 26.0 | 23.729 | 1.562 | 864.859 | .132% | 96.801% |
| 27.0 | 16.320 | 0.980 | 865.838 | .083% | 96.910% |
| 28.0 | 12.556 | 0.731 | 866.57 | .062% | 96.992% |
| 29.0 | 11.077 | 0.618 | 867.188 | .052% | 97.061% |
| 30.0 | 10.203 | 0.575 | 867.762 | .049% | 97.126% |
| 31.0 | 9.336 | 0.544 | 868.306 | .046% | 97.187% |
| 32.0 | 8.702 | 0.517 | 868.823 | .044% | 97.244% |
| 33.0 | 8.179 | 0.497 | 869.32 | .042% | 97.300% |
| 34.0 | 7.663 | 0.479 | 869.8 | .041% | 97.354% |
| 35.0 | 7.253 | 0.463 | 870.263 | .039% | 97.406% |
| 36.0 | 6.909 | 0.451 | 870.714 | .038% | 97.456% |
| 37.0 | 6.603 | 0.441 | 871.154 | .037% | 97.505% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 6.326 | 0.432 | 871.586 | .037% | 97.554% |
| 39.0 | 6.102 | 0.424 | 872.01 | .036% | 97.601% |
| 40.0 | 5.886 | 0.418 | 872.428 | .035% | 97.648% |
| 41.0 | 5.706 | 0.413 | 872.841 | .035% | 97.694% |
| 42.0 | 5.550 | 0.409 | 873.25 | .035% | 97.740% |
| 43.0 | 5.393 | 0.405 | 873.655 | .034% | 97.785% |
| 44.0 | 5.273 | 0.403 | 874.058 | .034% | 97.830% |
| 45.0 | 5.176 | 0.402 | 874.459 | .034% | 97.875% |
| 46.0 | 5.064 | 0.400 | 874.86 | .034% | 97.920% |
| 47.0 | 4.967 | 0.399 | 875.259 | .034% | 97.965% |
| 48.0 | 4.877 | 0.398 | 875.657 | .034% | 98.009% |
| 49.0 | 4.795 | 0.397 | 876.054 | .034% | 98.054% |
| 50.0 | 4.720 | 0.397 | 876.451 | .034% | 98.098% |
| 51.0 | 4.661 | 0.397 | 876.848 | .034% | 98.143% |
| 52.0 | 4.594 | 0.397 | 877.245 | .034% | 98.187% |
| 53.0 | 4.534 | 0.397 | 877.642 | .034% | 98.231% |
| 54.0 | 4.481 | 0.397 | 878.039 | .034% | 98.276% |
| 55.0 | 4.429 | 0.398 | 878.437 | .034% | 98.320% |
| 56.0 | 4.377 | 0.398 | 878.835 | .034% | 98.365% |
| 57.0 | 4.354 | 0.399 | 879.234 | .034% | 98.410% |
| 58.0 | 4.302 | 0.400 | 879.634 | .034% | 98.455% |
| 59.0 | 4.265 | 0.401 | 880.035 | .034% | 98.499% |
| 60.0 | 4.242 | 0.402 | 880.437 | .034% | 98.544% |
| 61.0 | 4.205 | 0.403 | 880.84 | .034% | 98.589% |
| 62.0 | 4.183 | 0.404 | 881.244 | .034% | 98.635% |
| 63.0 | 4.160 | 0.406 | 881.65 | .034% | 98.680% |
| 64.0 | 4.145 | 0.408 | 882.057 | .034% | 98.726% |
| 65.0 | 4.108 | 0.408 | 882.466 | .035% | 98.771% |
| 66.0 | 4.078 | 0.408 | 882.874 | .035% | 98.817% |
| 67.0 | 4.086 | 0.410 | 883.285 | .035% | 98.863% |
| 68.0 | 4.063 | 0.413 | 883.698 | .035% | 98.909% |
| 69.0 | 4.056 | 0.414 | 884.112 | .035% | 98.956% |
| 70.0 | 4.041 | 0.416 | 884.528 | .035% | 99.002% |
| 71.0 | 4.048 | 0.418 | 884.946 | .035% | 99.049% |
| 72.0 | 4.048 | 0.421 | 885.367 | .036% | 99.096% |
| 73.0 | 4.056 | 0.424 | 885.791 | .036% | 99.144% |
| 74.0 | 4.078 | 0.428 | 886.218 | .036% | 99.191% |
| 75.0 | 4.145 | 0.434 | 886.653 | .037% | 99.240% |

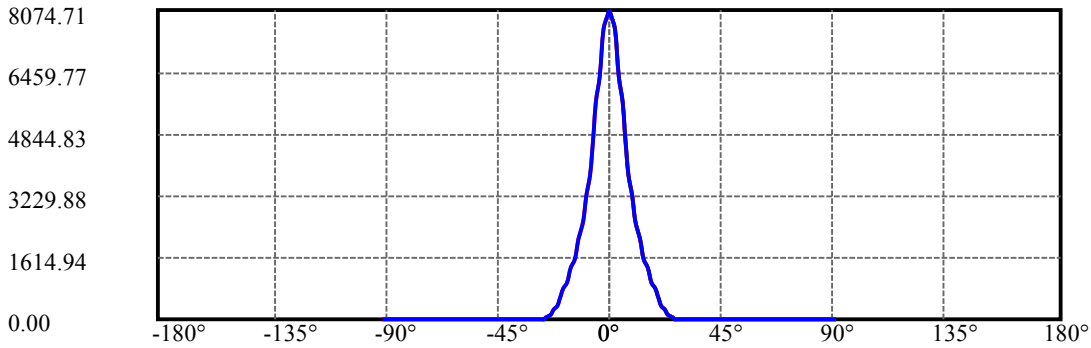
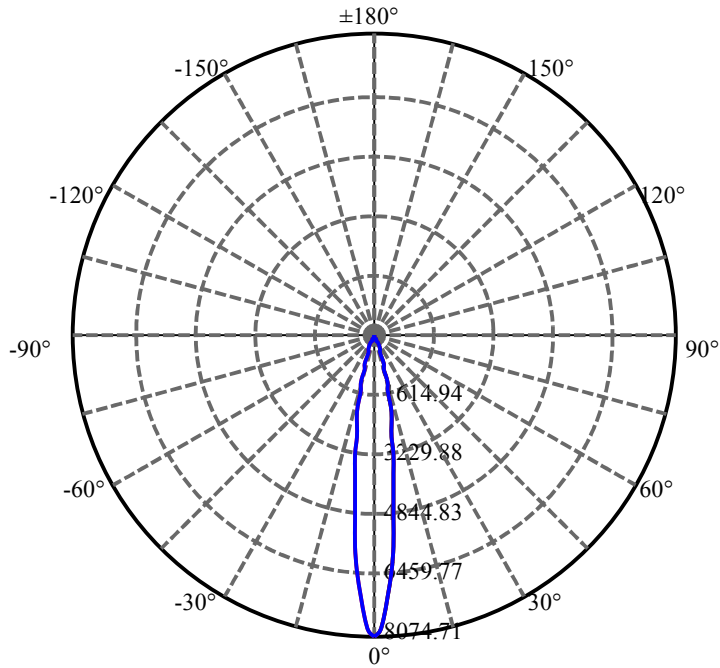
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 4.250 | 0.446 | 887.098 | .038% | 99.290% |
| 77.0 | 4.347 | 0.458 | 887.557 | .039% | 99.341% |
| 78.0 | 4.444 | 0.471 | 888.027 | .040% | 99.394% |
| 79.0 | 4.519 | 0.482 | 888.509 | .041% | 99.448% |
| 80.0 | 4.467 | 0.484 | 888.993 | .041% | 99.502% |
| 81.0 | 4.392 | 0.479 | 889.472 | .041% | 99.556% |
| 82.0 | 4.265 | 0.469 | 889.942 | .040% | 99.608% |
| 83.0 | 4.183 | 0.459 | 890.401 | .039% | 99.660% |
| 84.0 | 4.235 | 0.459 | 890.86 | .039% | 99.711% |
| 85.0 | 4.242 | 0.463 | 891.322 | .039% | 99.763% |
| 86.0 | 4.190 | 0.461 | 891.783 | .039% | 99.814% |
| 87.0 | 3.757 | 0.435 | 892.218 | .037% | 99.863% |
| 88.0 | 3.712 | 0.409 | 892.627 | .035% | 99.909% |
| 89.0 | 3.720 | 0.407 | 893.035 | .034% | 99.954% |
| 90.0 | 3.720 | 0.408 | 893.442 | .035% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|--------|---------|
| 0-30 | 867.76 | 73.40% | 97.13% |
| 0-40 | 872.43 | 73.80% | 97.65% |
| 0-60 | 880.44 | 74.48% | 98.54% |
| 0-90 | 893.03 | 75.54% | 99.95% |
| 0-120 | 893.03 | 75.54% | 99.95% |
| 0-180 | 893.44 | 75.58% | 100.00% |
| 60-90 | 13.00 | 1.10% | 1.46% |
| 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% |
| 0-16.11 | 714.75 | 60.46% | 80.00% |

ZONAL LUMEN SUMMARY

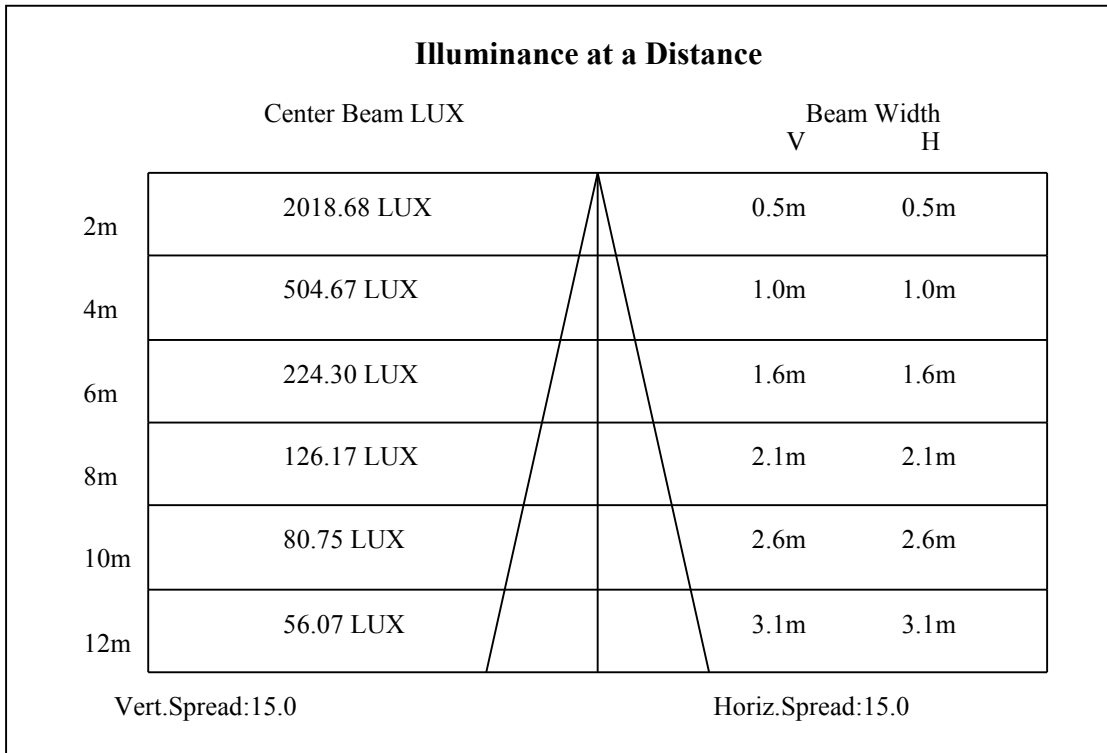
| | |
|---------|--------|
| 0-10 | 442.84 |
| 10-20 | 375.40 |
| 20-30 | 49.52 |
| 30-40 | 4.67 |
| 40-50 | 4.02 |
| 50-60 | 3.99 |
| 60-70 | 4.09 |
| 70-80 | 4.47 |
| 80-90 | 4.04 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

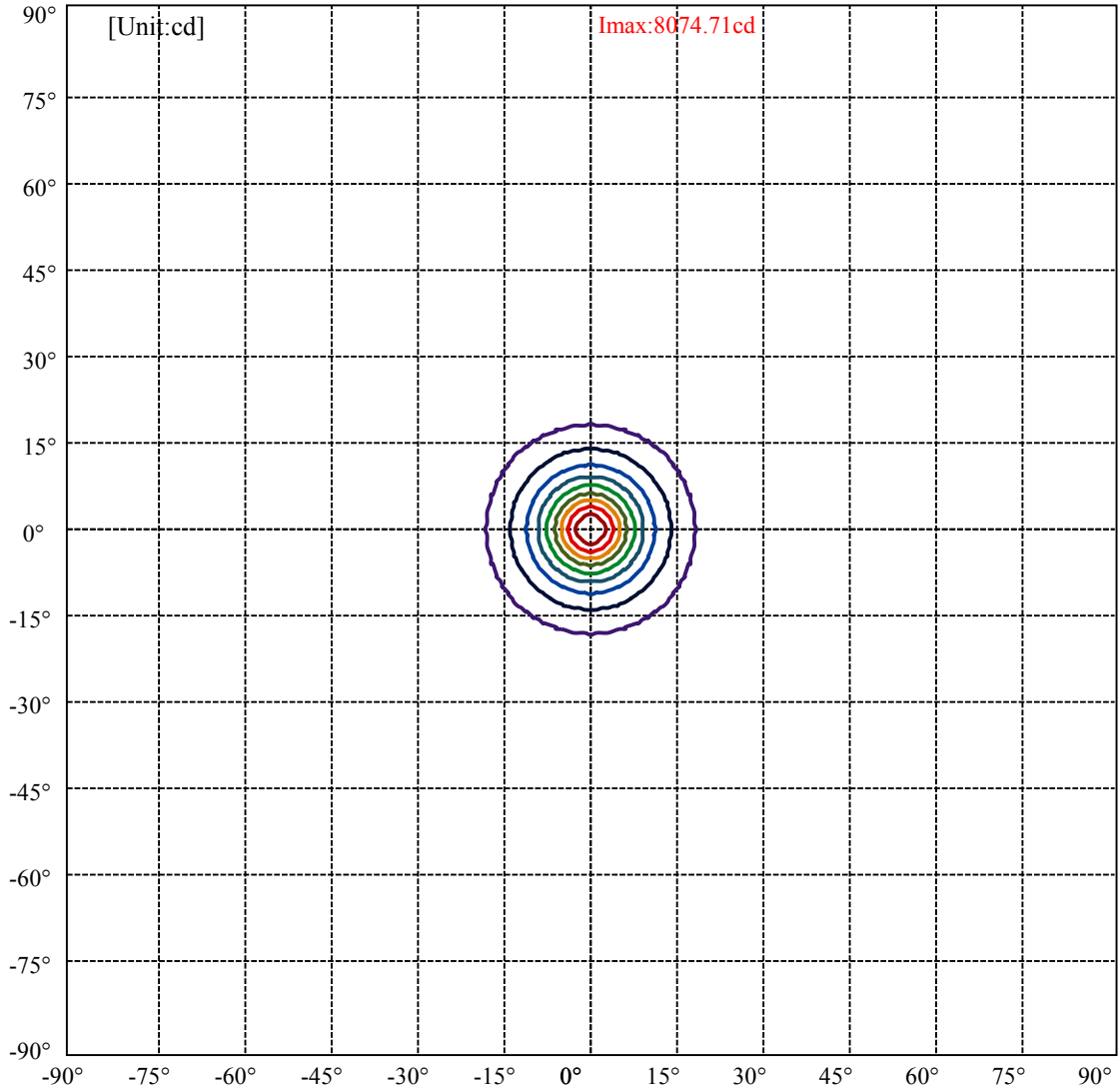


C0(Max): ———
C0/C180: ———
C90/C270: ———

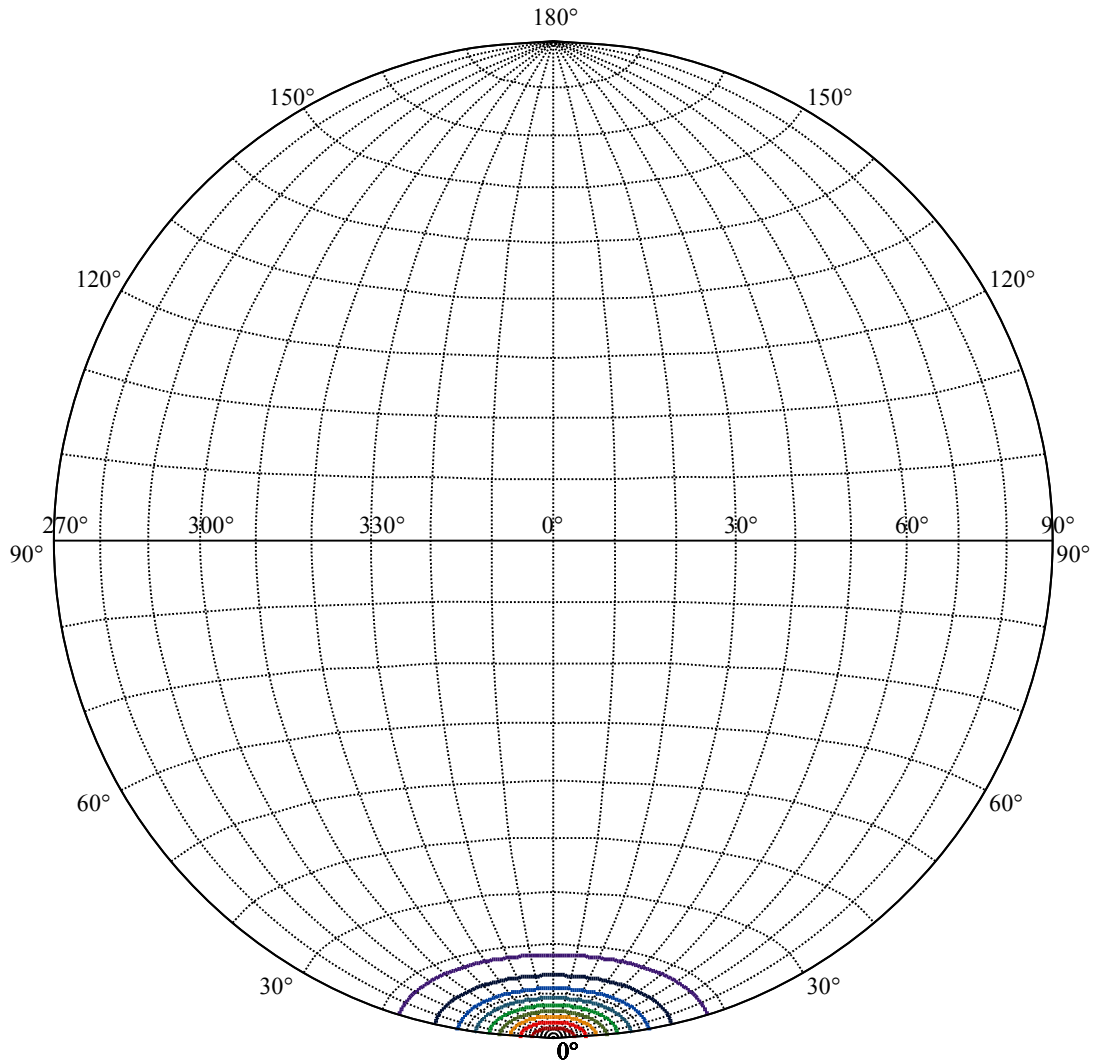
Field angle(10%Imax):C0/180Left:17.9 Right:17.9
:C90/270Left:17.9 Right:17.9

Beam Angle(50%Imax):C0/180Left:7.5 Right:7.5
:C90/270Left:7.5 Right:7.5





| | |
|-------------------|---|
| (10%Imax) 807.471 | — |
| (20%Imax) 1614.94 | — |
| (30%Imax) 2422.41 | — |
| (40%Imax) 3229.88 | — |
| (50%Imax) 4037.35 | — |
| (60%Imax) 4844.83 | — |
| (70%Imax) 5652.3 | — |
| (80%Imax) 6459.77 | — |
| (90%Imax) 7267.24 | — |



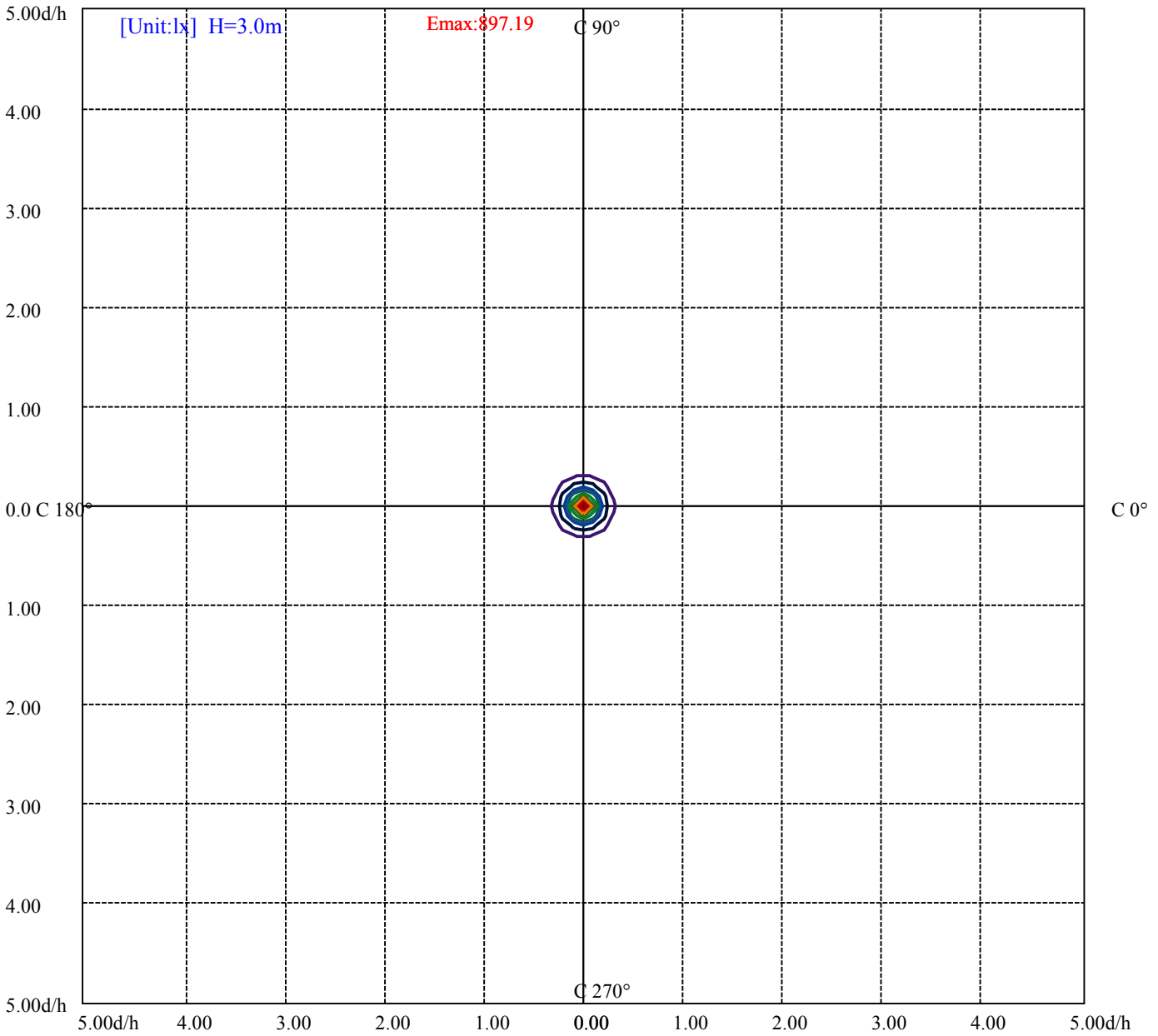
House

[Unit:cd]

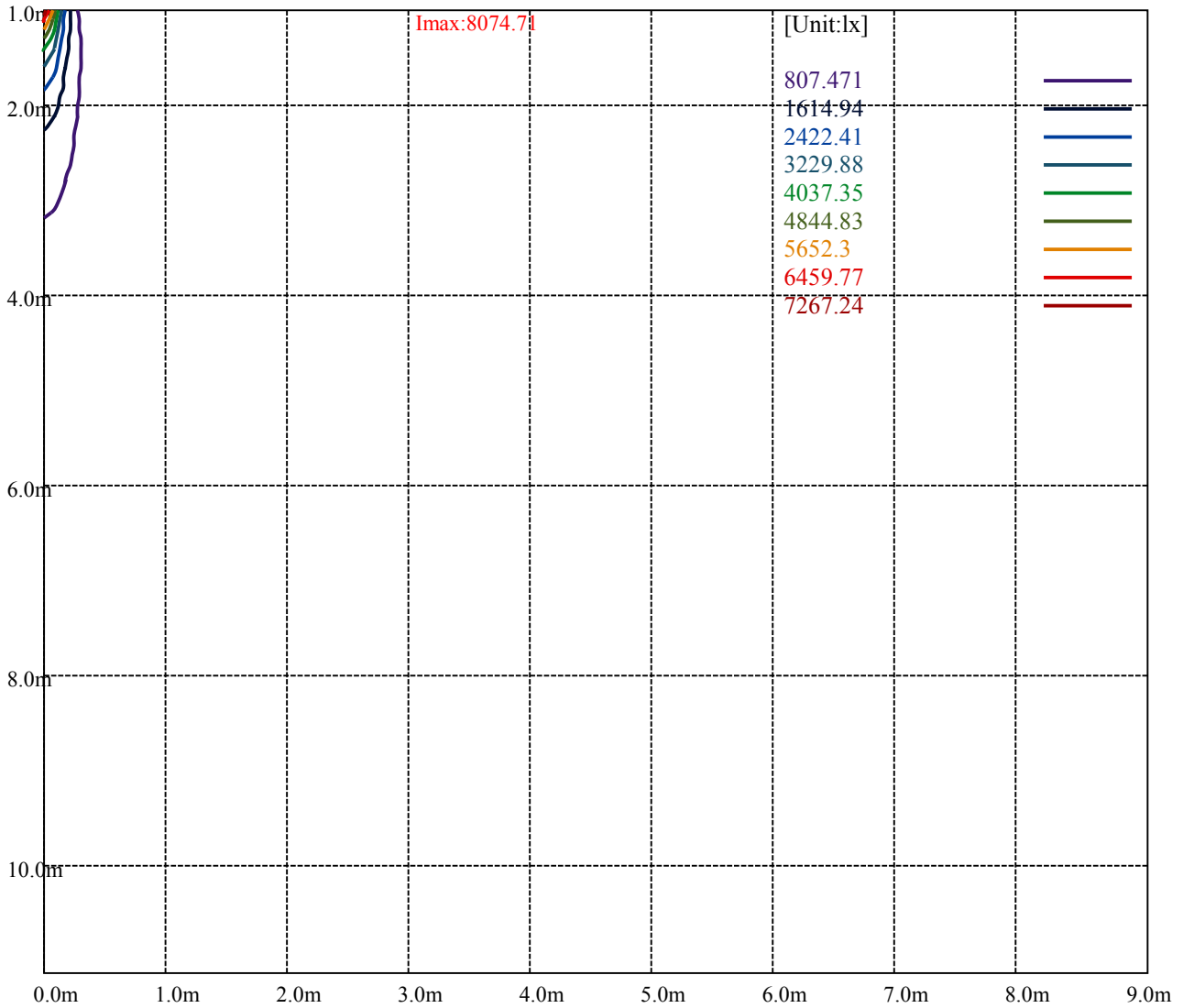
Road

Imax:8074.71

| | | |
|-----------|---------|---|
| (10%Imax) | 807.471 | — |
| (20%Imax) | 1614.94 | — |
| (30%Imax) | 2422.41 | — |
| (40%Imax) | 3229.88 | — |
| (50%Imax) | 4037.35 | — |
| (60%Imax) | 4844.83 | — |
| (70%Imax) | 5652.3 | — |
| (80%Imax) | 6459.77 | — |
| (90%Imax) | 7267.24 | — |



- (10%Emax) 89.71878
- (20%Emax) 179.4378
- (30%Emax) 269.1566
- (40%Emax) 358.8755
- (50%Emax) 448.5934
- (60%Emax) 538.3123
- (70%Emax) 628.0311
- (80%Emax) 717.75
- (90%Emax) 807.4689



Luminance Table

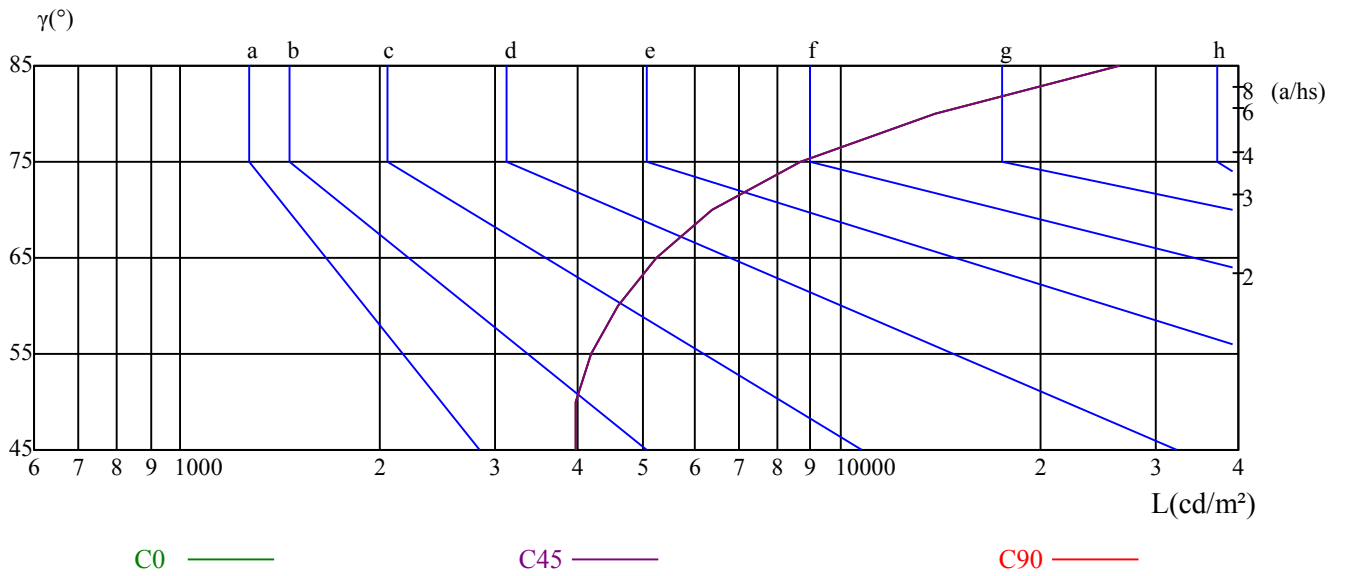
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|------|------|------|------|------|------|------|-------|-------|
| C0 | 3959 | 3972 | 4176 | 4589 | 5257 | 6390 | 8662 | 13911 | 26326 |
| C45 | 3959 | 3972 | 4176 | 4589 | 5257 | 6390 | 8662 | 13911 | 26326 |
| C90 | 3959 | 3972 | 4176 | 4589 | 5257 | 6390 | 8662 | 13911 | 26326 |

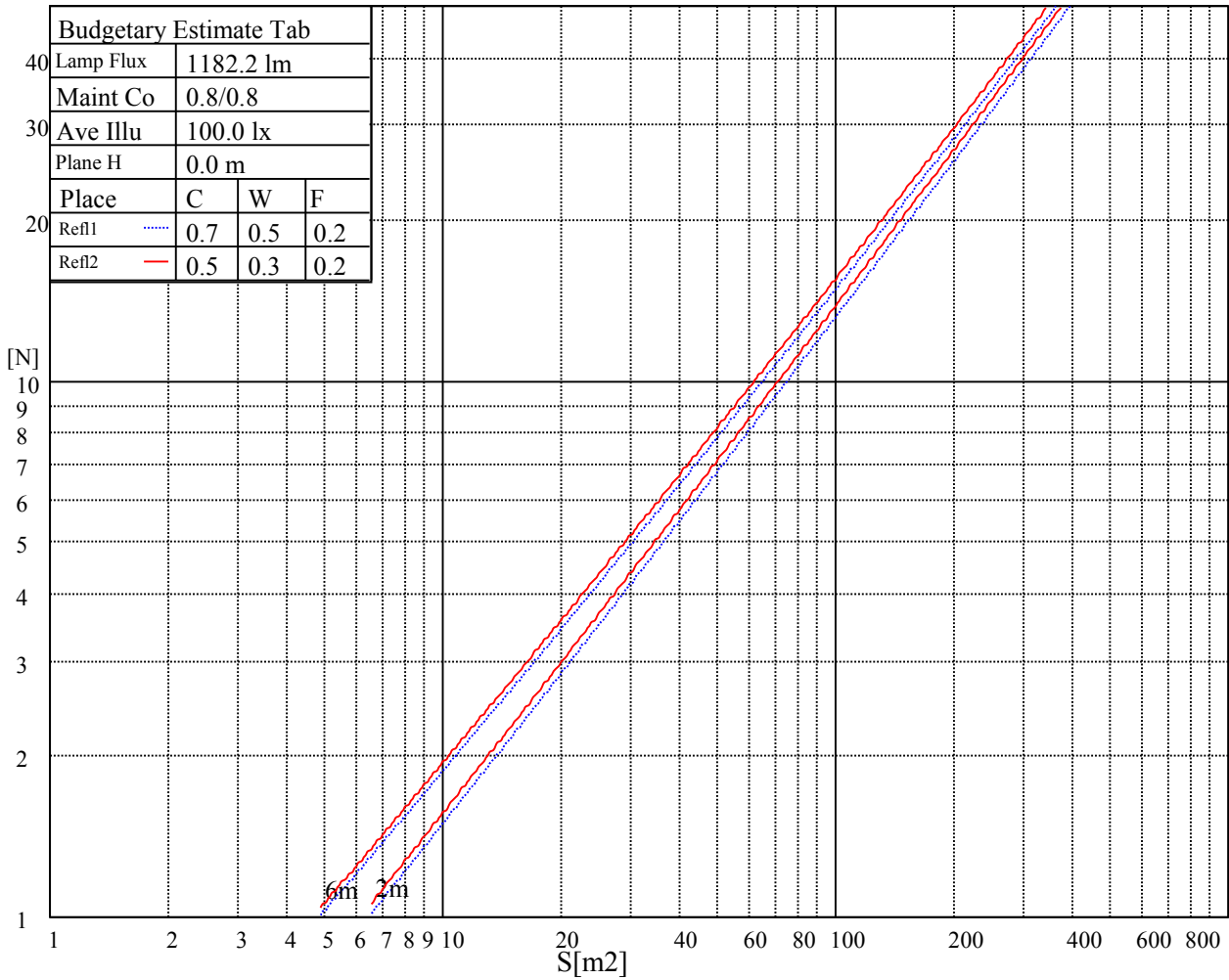
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 5257 | 5257 | 5257 | 8662 | 8662 | 8662 | 26326 | 26326 | 26326 |

Glare Table

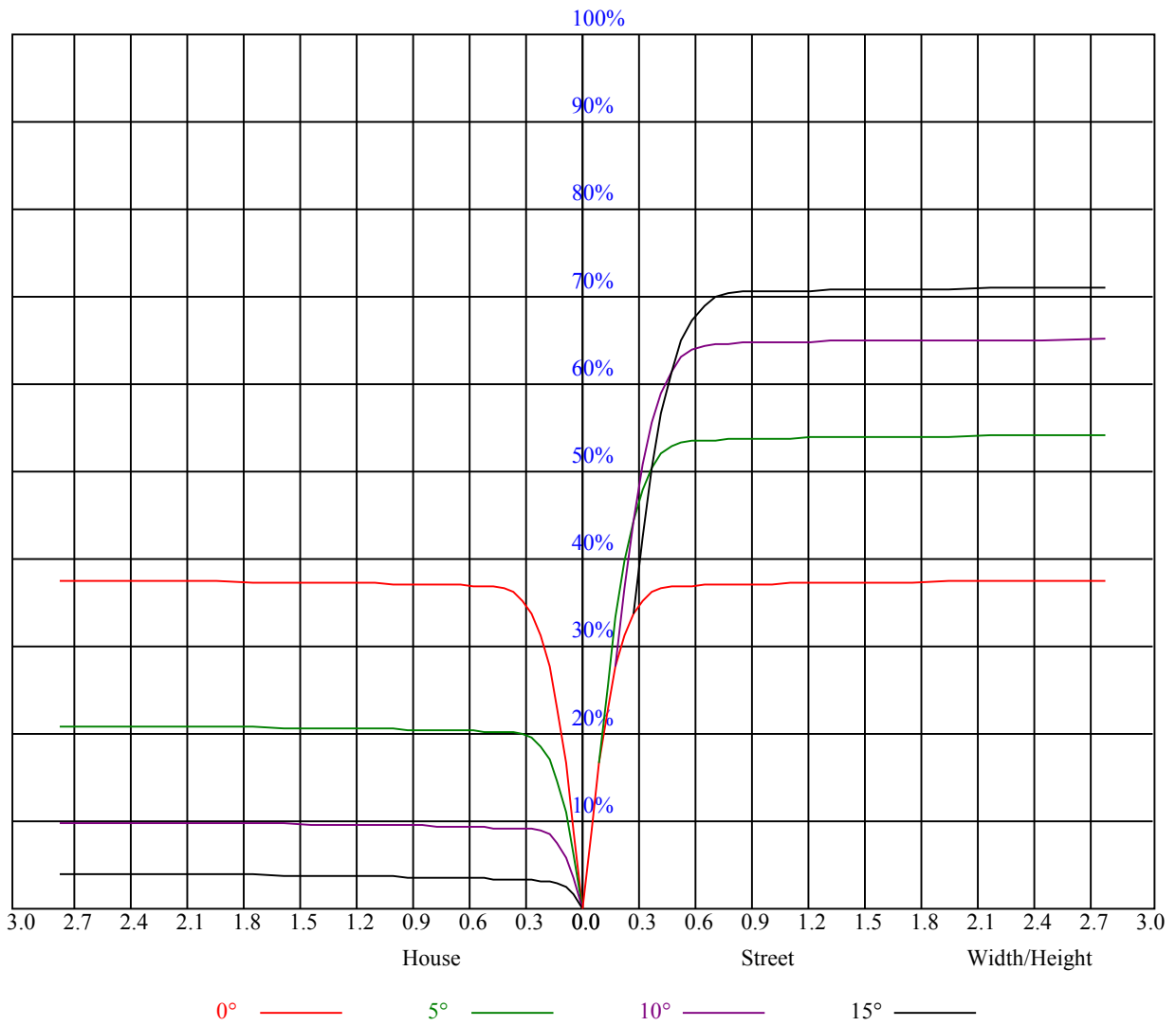
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 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 | 0.90 | 0.90 | 0.90 | 0.88 | 0.88 | 0.88 | 0.84 | 0.84 | 0.84 | 0.80 | 0.80 | 0.80 | 0.77 | 0.77 | 0.77 | 0.76 |
| 1 | 0.86 | 0.84 | 0.83 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | 0.77 | 0.76 | 0.75 | 0.75 | 0.73 |
| 2 | 0.82 | 0.80 | 0.78 | 0.81 | 0.79 | 0.77 | 0.78 | 0.77 | 0.76 | 0.76 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.71 |
| 3 | 0.79 | 0.77 | 0.75 | 0.78 | 0.76 | 0.74 | 0.76 | 0.74 | 0.73 | 0.75 | 0.73 | 0.72 | 0.73 | 0.72 | 0.71 | 0.70 |
| 4 | 0.77 | 0.74 | 0.72 | 0.76 | 0.73 | 0.71 | 0.74 | 0.72 | 0.71 | 0.73 | 0.71 | 0.70 | 0.72 | 0.70 | 0.69 | 0.68 |
| 5 | 0.74 | 0.72 | 0.70 | 0.74 | 0.71 | 0.69 | 0.73 | 0.70 | 0.69 | 0.71 | 0.70 | 0.68 | 0.70 | 0.69 | 0.68 | 0.67 |
| 6 | 0.72 | 0.70 | 0.68 | 0.72 | 0.69 | 0.67 | 0.71 | 0.69 | 0.67 | 0.70 | 0.68 | 0.67 | 0.69 | 0.68 | 0.66 | 0.66 |
| 7 | 0.71 | 0.68 | 0.66 | 0.70 | 0.68 | 0.66 | 0.69 | 0.67 | 0.66 | 0.69 | 0.67 | 0.65 | 0.68 | 0.66 | 0.65 | 0.64 |
| 8 | 0.69 | 0.66 | 0.65 | 0.69 | 0.66 | 0.64 | 0.68 | 0.66 | 0.64 | 0.67 | 0.65 | 0.64 | 0.67 | 0.65 | 0.64 | 0.63 |
| 9 | 0.68 | 0.65 | 0.63 | 0.67 | 0.65 | 0.63 | 0.67 | 0.65 | 0.63 | 0.66 | 0.64 | 0.63 | 0.66 | 0.64 | 0.63 | 0.62 |
| 10 | 0.66 | 0.64 | 0.62 | 0.66 | 0.64 | 0.62 | 0.66 | 0.63 | 0.62 | 0.65 | 0.63 | 0.62 | 0.65 | 0.63 | 0.62 | 0.61 |



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 | 7790.58 | 8155.08 | 8260.84 | 7997.33 | 7501.38 | 6903.85 | 6085.24 | 5416.60 | 4774.85 |
| 45.0 | 8285.34 | 8193.32 | 7763.10 | 7202.02 | 6514.86 | 5746.44 | 5031.19 | 4289.06 | 3708.86 |
| 90.0 | 8124.60 | 7773.85 | 7254.60 | 6588.95 | 5870.72 | 5182.97 | 4338.06 | 3736.95 | 3233.83 |
| 135.0 | 8098.31 | 7739.20 | 7144.06 | 6556.09 | 5842.04 | 5187.15 | 4448.60 | 3790.13 | 3287.01 |
| 180.0 | 7790.58 | 7185.88 | 6577.60 | 5870.12 | 5144.13 | 4517.92 | 3869.00 | 3308.52 | 2898.02 |
| 225.0 | 8285.34 | 8050.51 | 7596.98 | 6873.97 | 6247.76 | 5615.58 | 4903.92 | 4257.39 | 3726.79 |
| 270.0 | 8124.60 | 8214.83 | 7915.47 | 7442.22 | 6757.46 | 6155.15 | 5459.02 | 4768.28 | 4208.40 |
| 315.0 | 8098.31 | 8179.57 | 7907.70 | 7414.14 | 6773.59 | 6171.28 | 5455.44 | 4775.45 | 4192.26 |
| 360.0 | 7790.58 | 8155.08 | 8260.84 | 7997.33 | 7501.38 | 6903.85 | 6085.24 | 5416.60 | 4774.85 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 4030.33 | 3516.46 | 3078.47 | 2648.85 | 2281.96 | 1992.76 | 1706.54 | 1483.66 | 1257.20 |
| 45.0 | 3156.75 | 2703.82 | 2354.26 | 2047.13 | 1720.88 | 1497.41 | 1295.44 | 1079.14 | 909.44 |
| 90.0 | 2810.78 | 2363.23 | 2060.28 | 1760.92 | 1508.76 | 1174.80 | 1131.96 | 942.66 | 769.20 |
| 135.0 | 2820.93 | 2422.98 | 2111.07 | 1839.79 | 1550.59 | 1346.23 | 1158.01 | 974.57 | 799.49 |
| 180.0 | 2544.28 | 2160.07 | 1892.37 | 1662.92 | 1398.82 | 1189.02 | 1035.46 | 830.98 | 680.76 |
| 225.0 | 3172.88 | 2798.23 | 2463.01 | 2088.96 | 1862.50 | 1609.74 | 1316.36 | 1188.66 | 1006.66 |
| 270.0 | 3643.13 | 3160.33 | 2791.06 | 2505.44 | 2101.51 | 1844.57 | 1638.42 | 1373.72 | 1162.19 |
| 315.0 | 3674.80 | 3128.06 | 2754.61 | 2421.19 | 2057.29 | 1800.35 | 1578.67 | 1174.14 | 1129.15 |
| 360.0 | 4030.33 | 3516.46 | 3078.47 | 2648.85 | 2281.96 | 1992.76 | 1706.54 | 1483.66 | 1257.20 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 1055.24 | 888.53 | 717.63 | 559.88 | 427.83 | 307.13 | 191.15 | 106.48 | 52.58 |
| 45.0 | 753.48 | 595.14 | 443.37 | 311.31 | 198.14 | 113.53 | 58.20 | 26.29 | 19.18 |
| 90.0 | 620.77 | 467.15 | 344.48 | 227.84 | 135.46 | 72.06 | 30.18 | 20.14 | 15.42 |
| 135.0 | 650.11 | 492.96 | 356.13 | 313.11 | 140.00 | 73.62 | 30.06 | 19.54 | 13.92 |
| 180.0 | 538.73 | 375.43 | 271.76 | 164.68 | 77.02 | 37.76 | 20.44 | 13.44 | 11.89 |
| 225.0 | 808.99 | 656.80 | 515.13 | 354.99 | 243.31 | 150.70 | 80.13 | 29.46 | 18.34 |
| 270.0 | 1006.84 | 812.04 | 638.16 | 510.29 | 347.76 | 304.74 | 138.39 | 64.47 | 29.28 |
| 315.0 | 955.27 | 779.54 | 626.51 | 467.63 | 328.22 | 224.25 | 129.72 | 59.57 | 29.22 |
| 360.0 | 1055.24 | 888.53 | 717.63 | 559.88 | 427.83 | 307.13 | 191.15 | 106.48 | 52.58 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 28.80 | 18.22 | 13.98 | 12.55 | 11.11 | 10.34 | 9.68 | 8.90 | 8.31 |
| 45.0 | 14.10 | 12.19 | 11.05 | 10.28 | 9.38 | 8.78 | 8.25 | 7.71 | 7.41 |
| 90.0 | 12.61 | 11.17 | 10.28 | 9.56 | 8.90 | 8.31 | 7.89 | 7.41 | 6.99 |
| 135.0 | 12.19 | 10.93 | 10.16 | 9.44 | 8.72 | 8.25 | 7.77 | 7.35 | 6.99 |
| 180.0 | 10.82 | 9.68 | 9.08 | 8.48 | 7.95 | 7.47 | 7.11 | 6.81 | 6.51 |
| 225.0 | 13.62 | 11.65 | 10.52 | 9.68 | 8.96 | 8.25 | 7.77 | 7.29 | 6.93 |
| 270.0 | 19.00 | 12.91 | 11.47 | 10.58 | 9.56 | 8.90 | 8.31 | 7.77 | 7.29 |
| 315.0 | 19.42 | 13.68 | 12.07 | 11.05 | 10.10 | 9.32 | 8.66 | 8.07 | 7.59 |
| 360.0 | 28.80 | 18.22 | 13.98 | 12.55 | 11.11 | 10.34 | 9.68 | 8.90 | 8.31 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 7.89 | 7.41 | 7.05 | 6.81 | 6.51 | 6.27 | 6.09 | 5.86 | 5.74 |
| 45.0 | 7.05 | 6.75 | 6.39 | 6.21 | 6.04 | 5.80 | 5.68 | 5.50 | 5.38 |
| 90.0 | 6.75 | 6.45 | 6.21 | 5.98 | 5.80 | 5.62 | 5.44 | 5.32 | 5.20 |
| 135.0 | 6.69 | 6.45 | 6.21 | 5.98 | 5.80 | 5.62 | 5.50 | 5.32 | 5.20 |
| 180.0 | 6.27 | 6.04 | 5.86 | 5.68 | 5.50 | 5.38 | 5.26 | 5.14 | 5.02 |
| 225.0 | 6.57 | 6.33 | 6.04 | 5.86 | 5.62 | 5.50 | 5.32 | 5.20 | 5.08 |
| 270.0 | 6.87 | 6.57 | 6.27 | 6.04 | 5.80 | 5.62 | 5.44 | 5.32 | 5.20 |
| 315.0 | 7.17 | 6.81 | 6.57 | 6.27 | 6.04 | 5.86 | 5.68 | 5.50 | 5.38 |
| 360.0 | 7.89 | 7.41 | 7.05 | 6.81 | 6.51 | 6.27 | 6.09 | 5.86 | 5.74 |

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 | 5.62 | 5.50 | 5.38 | 5.26 | 5.20 | 5.14 | 5.08 | 4.96 | 4.90 |
| 45.0 | 5.26 | 5.14 | 5.02 | 4.96 | 4.90 | 4.78 | 4.72 | 4.72 | 4.60 |
| 90.0 | 5.08 | 4.96 | 4.90 | 4.78 | 4.72 | 4.60 | 4.54 | 4.48 | 4.42 |
| 135.0 | 5.14 | 5.02 | 4.90 | 4.84 | 4.72 | 4.66 | 4.60 | 4.54 | 4.48 |
| 180.0 | 4.96 | 4.90 | 4.78 | 4.72 | 4.60 | 4.54 | 4.48 | 4.42 | 4.36 |
| 225.0 | 5.02 | 4.90 | 4.78 | 4.72 | 4.66 | 4.60 | 4.54 | 4.48 | 4.42 |
| 270.0 | 5.08 | 4.96 | 4.90 | 4.78 | 4.72 | 4.66 | 4.60 | 4.48 | 4.42 |
| 315.0 | 5.26 | 5.14 | 5.08 | 4.96 | 4.84 | 4.78 | 4.72 | 4.66 | 4.66 |
| 360.0 | 5.62 | 5.50 | 5.38 | 5.26 | 5.20 | 5.14 | 5.08 | 4.96 | 4.90 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 4.84 | 4.84 | 4.78 | 4.78 | 4.72 | 4.72 | 4.66 | 4.66 | 4.66 |
| 45.0 | 4.54 | 4.48 | 4.42 | 4.42 | 4.36 | 4.30 | 4.30 | 4.24 | 4.24 |
| 90.0 | 4.36 | 4.30 | 4.24 | 4.24 | 4.18 | 4.12 | 4.06 | 4.06 | 4.06 |
| 135.0 | 4.42 | 4.36 | 4.30 | 4.24 | 4.18 | 4.18 | 4.18 | 4.12 | 4.06 |
| 180.0 | 4.36 | 4.30 | 4.24 | 4.18 | 4.18 | 4.12 | 4.12 | 4.06 | 4.06 |
| 225.0 | 4.36 | 4.30 | 4.24 | 4.24 | 4.18 | 4.18 | 4.18 | 4.12 | 4.06 |
| 270.0 | 4.42 | 4.36 | 4.30 | 4.30 | 4.24 | 4.18 | 4.12 | 4.12 | 4.06 |
| 315.0 | 4.54 | 4.48 | 4.48 | 4.42 | 4.36 | 4.30 | 4.30 | 4.24 | 4.24 |
| 360.0 | 4.84 | 4.84 | 4.78 | 4.78 | 4.72 | 4.72 | 4.66 | 4.66 | 4.66 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 4.66 | 4.66 | 4.66 | 4.66 | 4.66 | 4.66 | 4.66 | 4.66 | 4.66 |
| 45.0 | 4.18 | 4.18 | 4.12 | 4.12 | 4.12 | 4.12 | 4.06 | 4.06 | 4.06 |
| 90.0 | 4.00 | 3.94 | 3.94 | 3.94 | 3.94 | 3.88 | 3.88 | 3.82 | 3.88 |
| 135.0 | 4.06 | 4.06 | 4.00 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 |
| 180.0 | 4.06 | 4.00 | 4.00 | 3.94 | 3.94 | 3.88 | 3.88 | 3.88 | 3.88 |
| 225.0 | 4.06 | 4.06 | 4.00 | 3.94 | 4.00 | 3.94 | 3.94 | 3.94 | 4.00 |
| 270.0 | 4.06 | 4.06 | 4.00 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.88 |
| 315.0 | 4.18 | 4.18 | 4.12 | 4.12 | 4.12 | 4.12 | 4.06 | 4.06 | 4.06 |
| 360.0 | 4.66 | 4.66 | 4.66 | 4.66 | 4.66 | 4.66 | 4.66 | 4.66 | 4.66 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 4.72 | 4.78 | 5.02 | 5.56 | 6.39 | 7.17 | 7.89 | 8.43 | 7.89 |
| 45.0 | 4.06 | 4.06 | 4.06 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.06 |
| 90.0 | 3.88 | 3.88 | 3.82 | 3.88 | 3.82 | 3.82 | 3.82 | 3.82 | 3.76 |
| 135.0 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.88 | 3.94 | 3.94 | 3.88 |
| 180.0 | 3.88 | 3.88 | 3.88 | 3.88 | 3.94 | 3.94 | 3.94 | 4.00 | 4.06 |
| 225.0 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 4.00 | 4.00 | 4.00 | 4.06 |
| 270.0 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 |
| 315.0 | 4.06 | 4.06 | 4.06 | 4.06 | 4.06 | 4.06 | 4.06 | 4.06 | 4.12 |
| 360.0 | 4.72 | 4.78 | 5.02 | 5.56 | 6.39 | 7.17 | 7.89 | 8.43 | 7.89 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 7.23 | 6.04 | 5.20 | 5.32 | 5.44 | 5.50 | 4.06 | 3.76 | 3.76 |
| 45.0 | 4.00 | 4.06 | 4.06 | 4.06 | 4.12 | 3.70 | 3.70 | 3.70 | 3.70 |
| 90.0 | 3.82 | 3.76 | 3.76 | 3.82 | 3.70 | 3.70 | 3.70 | 3.64 | 3.70 |
| 135.0 | 3.88 | 3.88 | 3.88 | 3.88 | 3.94 | 3.76 | 3.70 | 3.70 | 3.70 |
| 180.0 | 4.06 | 4.12 | 4.12 | 4.12 | 3.82 | 3.70 | 3.76 | 3.76 | 3.76 |
| 225.0 | 4.06 | 4.12 | 4.18 | 4.30 | 4.36 | 4.42 | 3.70 | 3.70 | 3.70 |
| 270.0 | 3.88 | 3.88 | 3.94 | 4.00 | 4.06 | 4.12 | 3.70 | 3.70 | 3.70 |
| 315.0 | 4.18 | 4.24 | 4.30 | 4.36 | 4.48 | 4.60 | 3.70 | 3.70 | 3.70 |
| 360.0 | 7.23 | 6.04 | 5.20 | 5.32 | 5.44 | 5.50 | 4.06 | 3.76 | 3.76 |

Intensity data(cd)

| | |
|---------------|-------------|
| C/γ(°) | 90.0 |
| 0.0 | 3.76 |
| 45.0 | 3.70 |
| 90.0 | 3.70 |
| 135.0 | 3.70 |
| 180.0 | 3.76 |
| 225.0 | 3.70 |
| 270.0 | 3.70 |
| 315.0 | 3.70 |
| 360.0 | 3.76 |