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NT

LumCAT: 3-2805-L
Luminaire: 92.70.412.00
LampCAT: P2141-036-1206-P3090-1
Ballast type: AC
Report No: 2024227-B018
Test No: 2024227-C018
Number of Lamps: 1
Lamp flux(lm): 3316.0
Length(mm): 0
Phm Type: C
Voltage(V): 35.9600
Current(A): 0.7010
Power (W): 25.2070
PF: 0.0000
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 2873.09, Efficiency(%): 86.64% , Luminous Efficacy(lm/W): 113.98
Central intensity(cd): 11860.790, Maximum intensity(cd): 11860.790
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=19.0
[C90/270]Total=19.0
Field angle(10%Imax): [C0/180]Total=54.6
[C90/270]Total=54.6
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.40 C90_270=0.40
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.64%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.746%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/27
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 | 11860.784 | 0.000 | 0 | 0.00% | 0.00% |
| 1.0 | 11725.458 | 11.286 | 11.286 | 0.34% | 0.39% |
| 2.0 | 11531.961 | 33.381 | 44.667 | 1.01% | 1.55% |
| 3.0 | 11001.162 | 53.892 | 98.559 | 1.63% | 3.43% |
| 4.0 | 10339.199 | 71.433 | 169.992 | 2.15% | 5.92% |
| 5.0 | 9537.295 | 85.508 | 255.499 | 2.58% | 8.89% |
| 6.0 | 8732.171 | 96.011 | 351.51 | 2.90% | 12.23% |
| 7.0 | 7800.347 | 102.617 | 454.127 | 3.09% | 15.81% |
| 8.0 | 6994.273 | 105.882 | 560.01 | 3.19% | 19.49% |
| 9.0 | 6271.081 | 107.508 | 667.518 | 3.24% | 23.23% |
| 10.0 | 5647.597 | 107.860 | 775.378 | 3.25% | 26.99% |
| 11.0 | 5053.081 | 106.922 | 882.299 | 3.22% | 30.71% |
| 12.0 | 4602.970 | 105.554 | 987.854 | 3.18% | 34.38% |
| 13.0 | 4205.749 | 104.537 | 1092.391 | 3.15% | 38.02% |
| 14.0 | 3848.249 | 103.090 | 1195.482 | 3.11% | 41.61% |
| 15.0 | 3531.057 | 101.306 | 1296.788 | 3.06% | 45.14% |
| 16.0 | 3235.665 | 99.151 | 1395.94 | 2.99% | 48.59% |
| 17.0 | 2995.357 | 97.034 | 1492.973 | 2.93% | 51.96% |
| 18.0 | 2818.692 | 95.861 | 1588.834 | 2.89% | 55.30% |
| 19.0 | 2564.354 | 93.654 | 1682.488 | 2.82% | 58.56% |
| 20.0 | 2373.358 | 90.374 | 1772.862 | 2.73% | 61.71% |
| 21.0 | 2157.637 | 87.004 | 1859.866 | 2.62% | 64.73% |
| 22.0 | 1990.628 | 83.361 | 1943.228 | 2.51% | 67.64% |
| 23.0 | 1827.789 | 80.121 | 2023.348 | 2.42% | 70.42% |
| 24.0 | 1652.222 | 76.086 | 2099.434 | 2.29% | 73.07% |
| 25.0 | 1467.883 | 70.944 | 2170.378 | 2.14% | 75.54% |
| 26.0 | 1334.657 | 66.154 | 2236.532 | 2.00% | 77.84% |
| 27.0 | 1218.599 | 62.466 | 2298.998 | 1.88% | 80.02% |
| 28.0 | 1120.399 | 59.218 | 2358.217 | 1.79% | 82.08% |
| 29.0 | 1014.414 | 55.853 | 2414.07 | 1.68% | 84.02% |
| 30.0 | 892.358 | 51.482 | 2465.552 | 1.55% | 85.82% |
| 31.0 | 770.273 | 46.269 | 2511.821 | 1.40% | 87.43% |
| 32.0 | 652.936 | 40.773 | 2552.594 | 1.23% | 88.84% |
| 33.0 | 536.008 | 35.027 | 2587.621 | 1.06% | 90.06% |
| 34.0 | 427.763 | 29.167 | 2616.787 | 0.88% | 91.08% |
| 35.0 | 329.972 | 23.532 | 2640.32 | 0.71% | 91.90% |
| 36.0 | 263.088 | 18.883 | 2659.203 | 0.57% | 92.56% |
| 37.0 | 196.050 | 14.975 | 2674.177 | 0.45% | 93.08% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 156.489 | 11.767 | 2685.945 | 0.35% | 93.49% |
| 39.0 | 115.918 | 9.298 | 2695.243 | 0.28% | 93.81% |
| 40.0 | 105.992 | 7.739 | 2702.982 | 0.23% | 94.08% |
| 41.0 | 99.371 | 7.313 | 2710.295 | 0.22% | 94.33% |
| 42.0 | 93.263 | 6.999 | 2717.294 | 0.21% | 94.58% |
| 43.0 | 87.776 | 6.706 | 2724 | 0.20% | 94.81% |
| 44.0 | 82.107 | 6.412 | 2730.412 | 0.19% | 95.03% |
| 45.0 | 76.760 | 6.105 | 2736.517 | 0.18% | 95.25% |
| 46.0 | 72.275 | 5.828 | 2742.346 | 0.18% | 95.45% |
| 47.0 | 68.054 | 5.581 | 2747.927 | 0.17% | 95.64% |
| 48.0 | 64.404 | 5.355 | 2753.282 | 0.16% | 95.83% |
| 49.0 | 61.310 | 5.163 | 2758.444 | 0.16% | 96.01% |
| 50.0 | 58.325 | 4.988 | 2763.432 | 0.15% | 96.18% |
| 51.0 | 56.006 | 4.837 | 2768.269 | 0.15% | 96.35% |
| 52.0 | 53.943 | 4.718 | 2772.987 | 0.14% | 96.52% |
| 53.0 | 52.341 | 4.623 | 2777.611 | 0.14% | 96.68% |
| 54.0 | 51.076 | 4.558 | 2782.169 | 0.14% | 96.84% |
| 55.0 | 50.059 | 4.514 | 2786.683 | 0.14% | 96.99% |
| 56.0 | 49.122 | 4.482 | 2791.165 | 0.14% | 97.15% |
| 57.0 | 47.923 | 4.437 | 2795.602 | 0.13% | 97.30% |
| 58.0 | 46.577 | 4.370 | 2799.972 | 0.13% | 97.46% |
| 59.0 | 44.638 | 4.264 | 2804.236 | 0.13% | 97.60% |
| 60.0 | 42.348 | 4.110 | 2808.346 | 0.12% | 97.75% |
| 61.0 | 39.312 | 3.897 | 2812.243 | 0.12% | 97.88% |
| 62.0 | 36.328 | 3.645 | 2815.888 | 0.11% | 98.01% |
| 63.0 | 33.424 | 3.392 | 2819.28 | 0.10% | 98.13% |
| 64.0 | 30.585 | 3.141 | 2822.421 | 0.09% | 98.24% |
| 65.0 | 28.025 | 2.901 | 2825.322 | 0.09% | 98.34% |
| 66.0 | 25.984 | 2.695 | 2828.016 | 0.08% | 98.43% |
| 67.0 | 24.309 | 2.529 | 2830.545 | 0.08% | 98.52% |
| 68.0 | 23.160 | 2.405 | 2832.95 | 0.07% | 98.60% |
| 69.0 | 22.282 | 2.318 | 2835.268 | 0.07% | 98.68% |
| 70.0 | 21.675 | 2.258 | 2837.526 | 0.07% | 98.76% |
| 71.0 | 21.207 | 2.216 | 2839.742 | 0.07% | 98.84% |
| 72.0 | 20.768 | 2.183 | 2841.925 | 0.07% | 98.92% |
| 73.0 | 20.293 | 2.147 | 2844.072 | 0.06% | 98.99% |
| 74.0 | 19.678 | 2.101 | 2846.173 | 0.06% | 99.06% |
| 75.0 | 19.144 | 2.051 | 2848.224 | 0.06% | 99.13% |

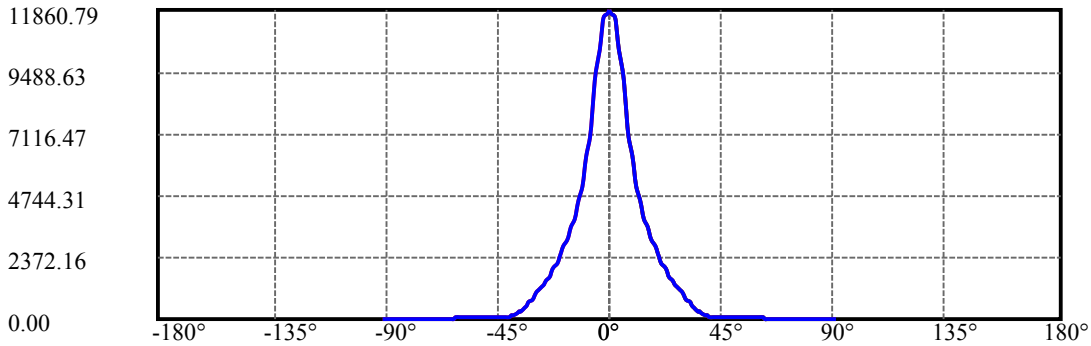
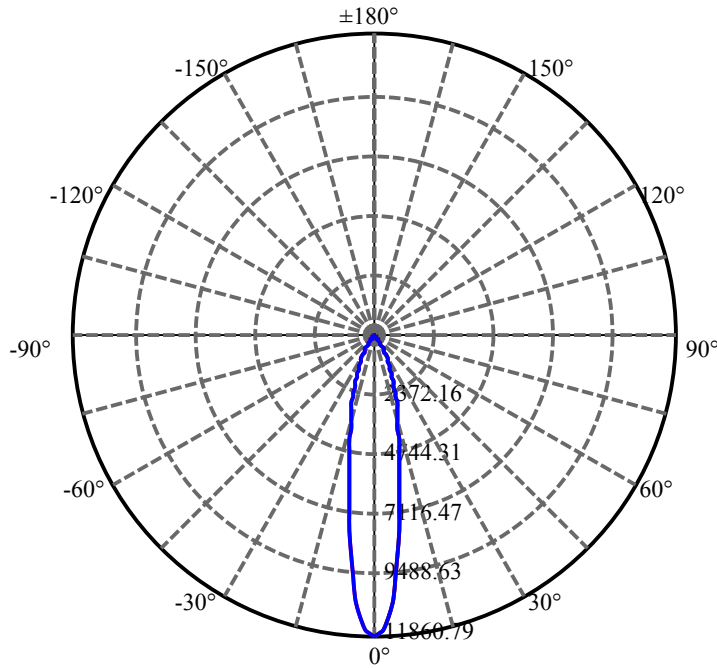
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 18.691 | 2.008 | 2850.233 | 0.06% | 99.20% |
| 77.0 | 18.105 | 1.962 | 2852.195 | 0.06% | 99.27% |
| 78.0 | 17.630 | 1.913 | 2854.108 | 0.06% | 99.34% |
| 79.0 | 17.103 | 1.866 | 2855.974 | 0.06% | 99.40% |
| 80.0 | 16.576 | 1.816 | 2857.79 | 0.05% | 99.47% |
| 81.0 | 15.889 | 1.756 | 2859.545 | 0.05% | 99.53% |
| 82.0 | 15.230 | 1.688 | 2861.233 | 0.05% | 99.59% |
| 83.0 | 14.696 | 1.627 | 2862.86 | 0.05% | 99.64% |
| 84.0 | 14.243 | 1.577 | 2864.436 | 0.05% | 99.70% |
| 85.0 | 13.804 | 1.531 | 2865.967 | 0.05% | 99.75% |
| 86.0 | 13.424 | 1.488 | 2867.455 | 0.04% | 99.80% |
| 87.0 | 13.102 | 1.452 | 2868.907 | 0.04% | 99.85% |
| 88.0 | 12.758 | 1.417 | 2870.323 | 0.04% | 99.90% |
| 89.0 | 12.612 | 1.391 | 2871.714 | 0.04% | 99.95% |
| 90.0 | 12.495 | 1.377 | 2873.091 | 0.04% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 2465.55 | 74.35% | 85.82% |
| 0-40 | 2702.98 | 81.51% | 94.08% |
| 0-60 | 2808.35 | 84.69% | 97.75% |
| 0-90 | 2871.71 | 86.60% | 99.95% |
| 0-120 | 2871.71 | 86.60% | 99.95% |
| 0-180 | 2873.09 | 86.64% | 100.00% |
| 60-90 | 63.37 | 1.91% | 2.21% |
| 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% |
| 0-26.99 | 2298.47 | 69.31% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 775.38 |
| 10-20 | 997.48 |
| 20-30 | 692.69 |
| 30-40 | 237.43 |
| 40-50 | 60.45 |
| 50-60 | 44.91 |
| 60-70 | 29.18 |
| 70-80 | 20.26 |
| 80-90 | 13.92 |
| 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 |



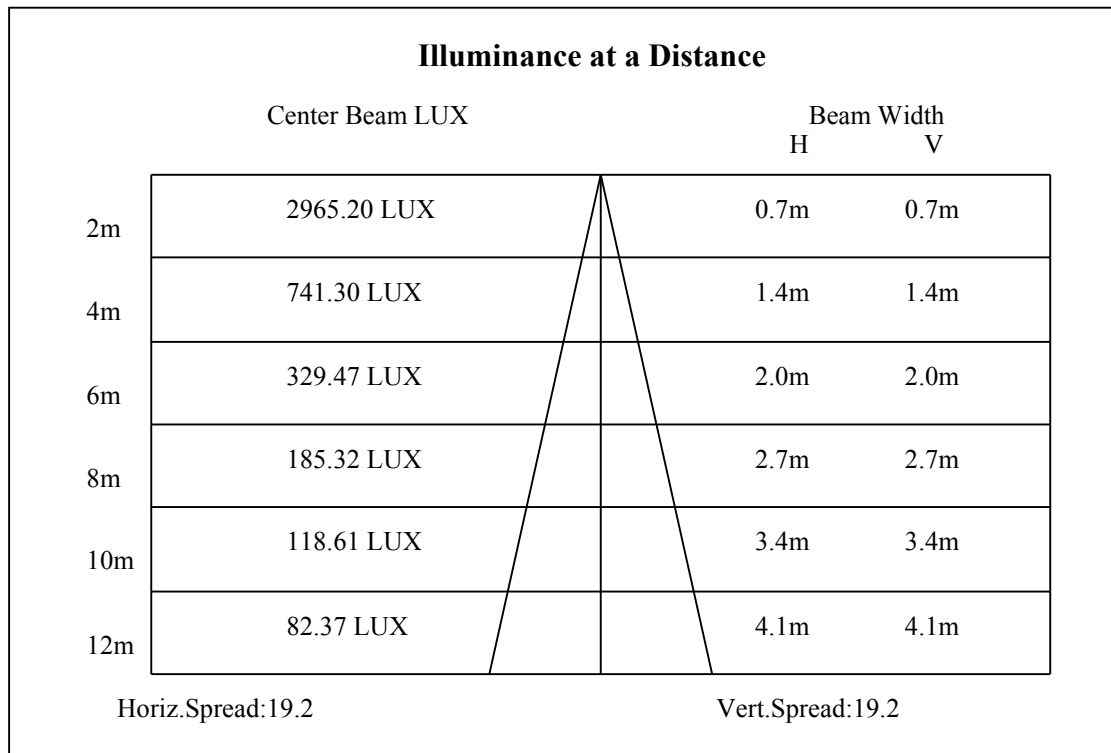
C0(Max): —————

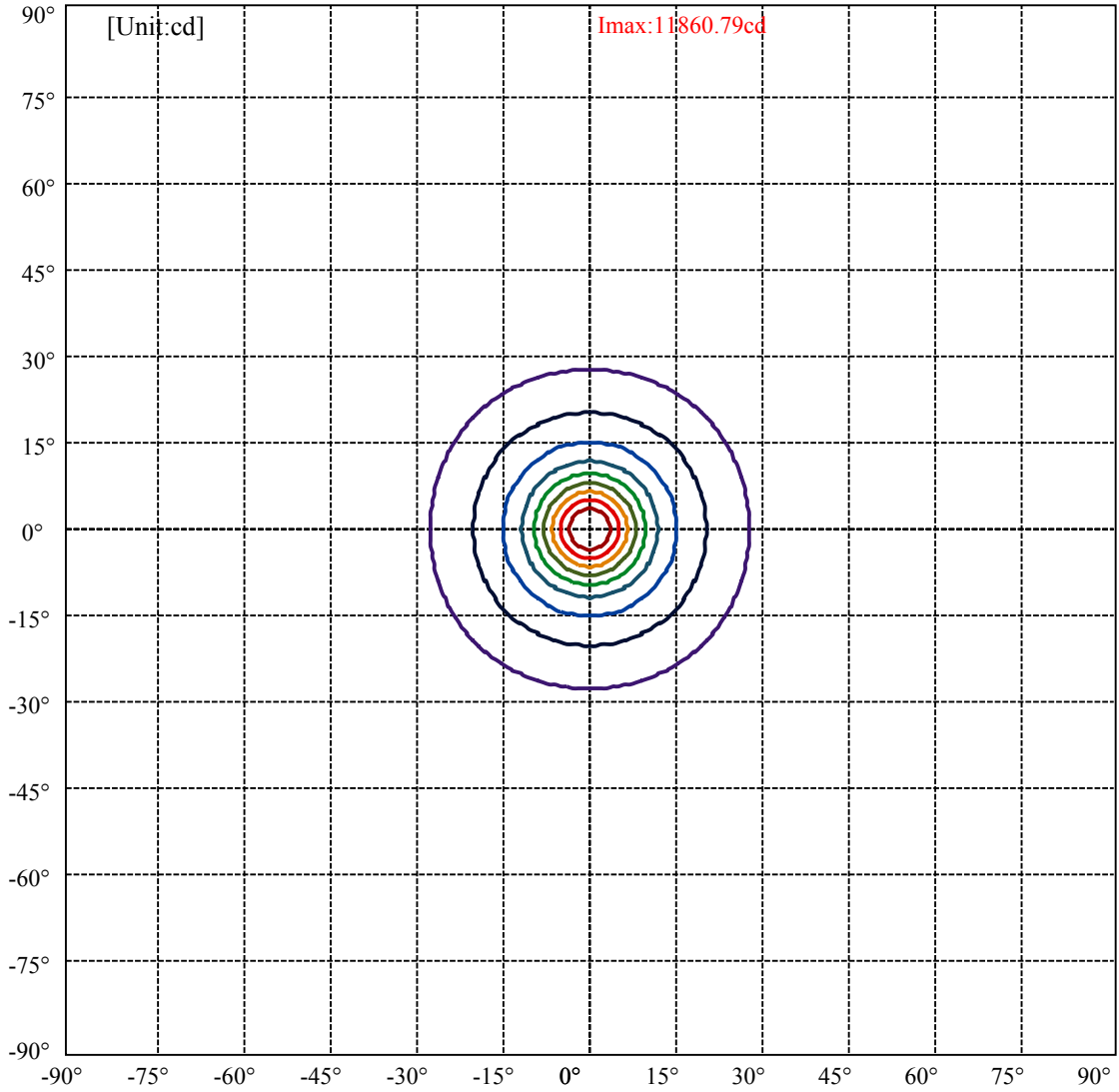
C0/C180: —————

C90/C270: —————

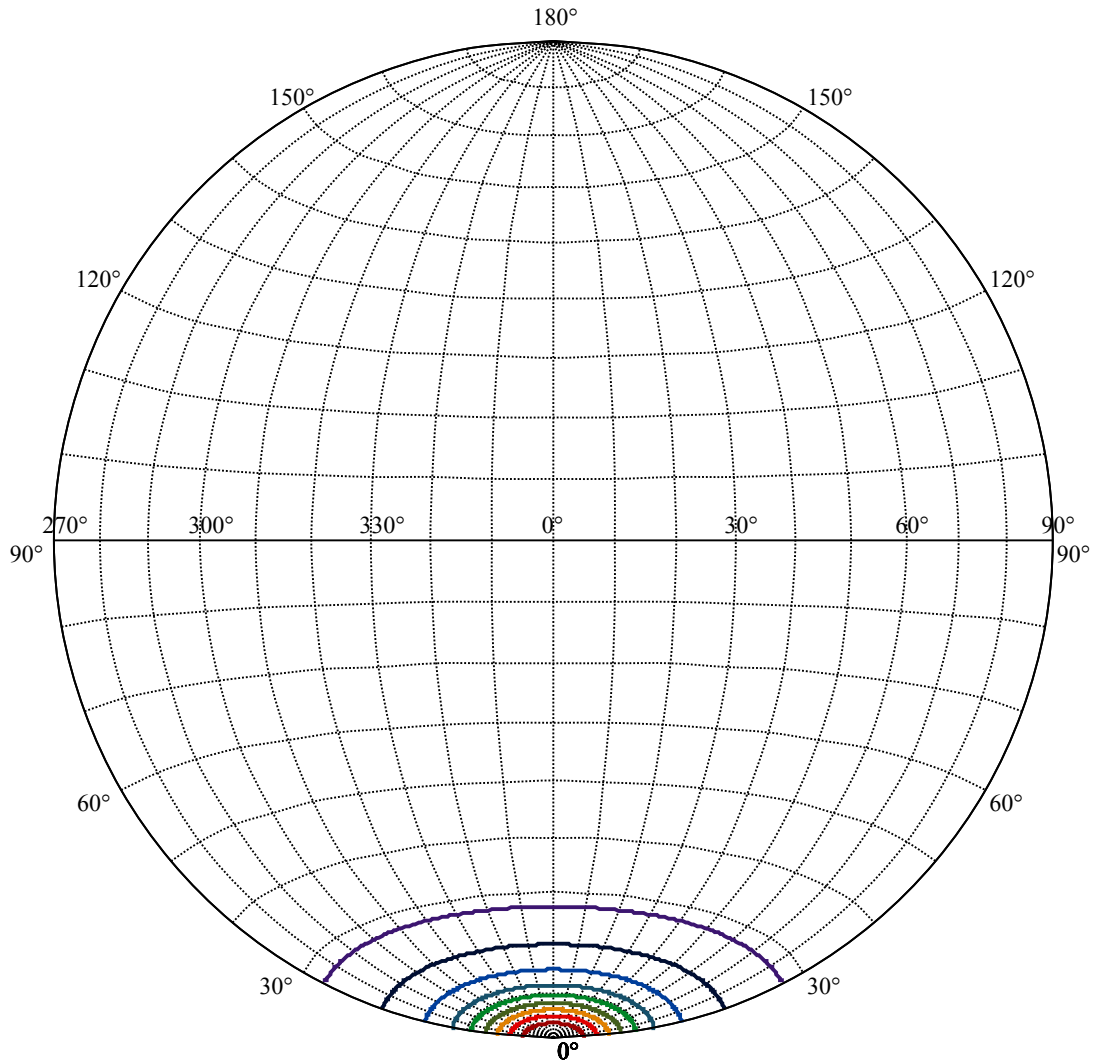
Field angle(10%Imax):C0/180Left:27.3 Right:27.3
:C90/270Left:27.3 Right:27.3

Beam Angle(50%Imax):C0/180Left:9.5 Right:9.5
:C90/270Left:9.5 Right:9.5





| | |
|-------------------|---|
| (10%Imax) 1186.08 | — |
| (20%Imax) 2372.16 | — |
| (30%Imax) 3558.24 | — |
| (40%Imax) 4744.31 | — |
| (50%Imax) 5930.39 | — |
| (60%Imax) 7116.47 | — |
| (70%Imax) 8302.55 | — |
| (80%Imax) 9488.63 | — |
| (90%Imax) 10674.7 | — |



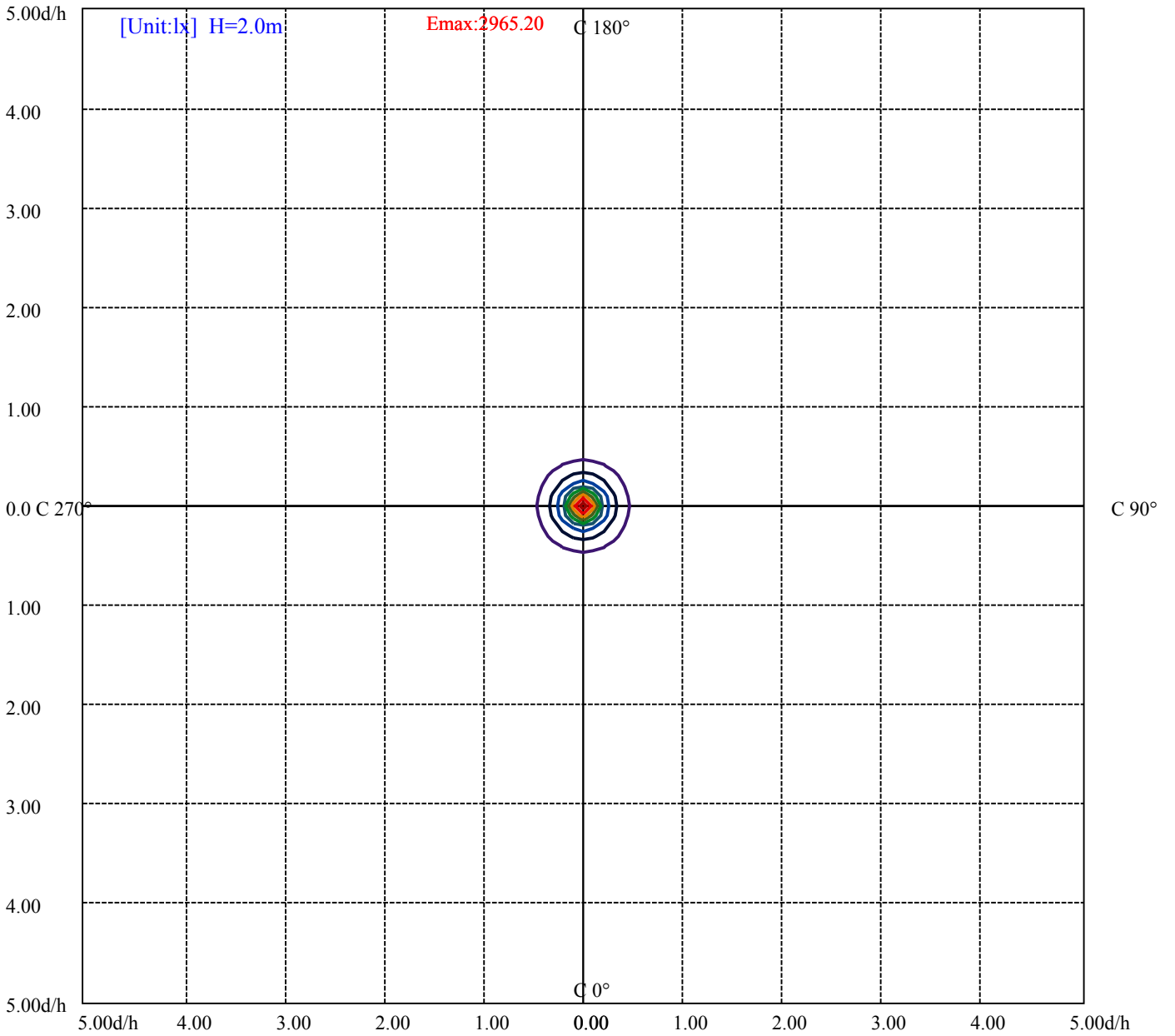
House

[Unit:cd]

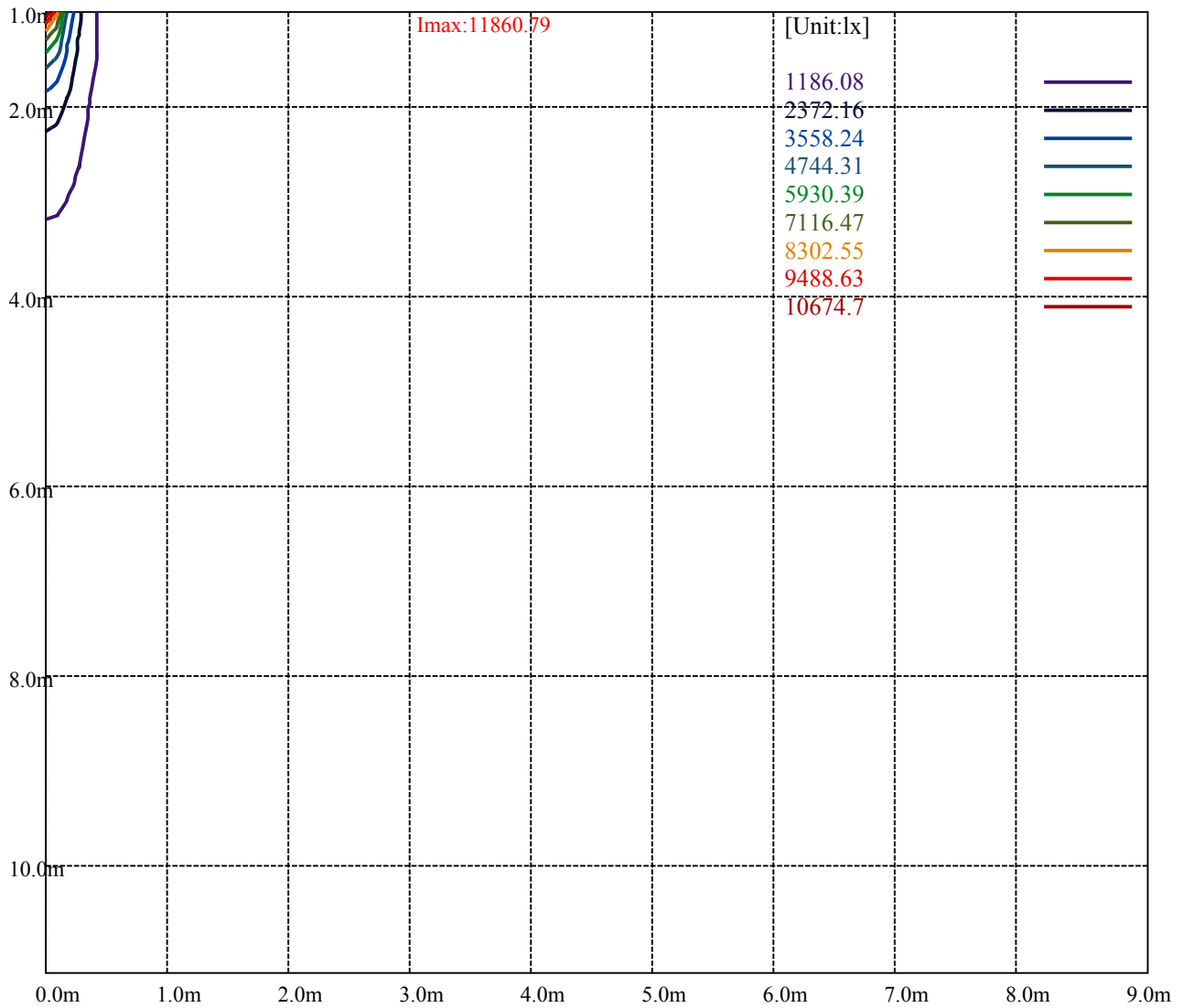
Road

I_{max}:11860.79

| | | |
|------------------------|---------|---|
| (10%I _{max}) | 1186.08 | — |
| (20%I _{max}) | 2372.16 | — |
| (30%I _{max}) | 3558.24 | — |
| (40%I _{max}) | 4744.31 | — |
| (50%I _{max}) | 5930.39 | — |
| (60%I _{max}) | 7116.47 | — |
| (70%I _{max}) | 8302.55 | — |
| (80%I _{max}) | 9488.63 | — |
| (90%I _{max}) | 10674.7 | — |



- (10%Emax) 296.52
- (20%Emax) 593.0375
- (30%Emax) 889.5575
- (40%Emax) 1186.078
- (50%Emax) 1482.595
- (60%Emax) 1779.115
- (70%Emax) 2075.635
- (80%Emax) 2372.153
- (90%Emax) 2668.675



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

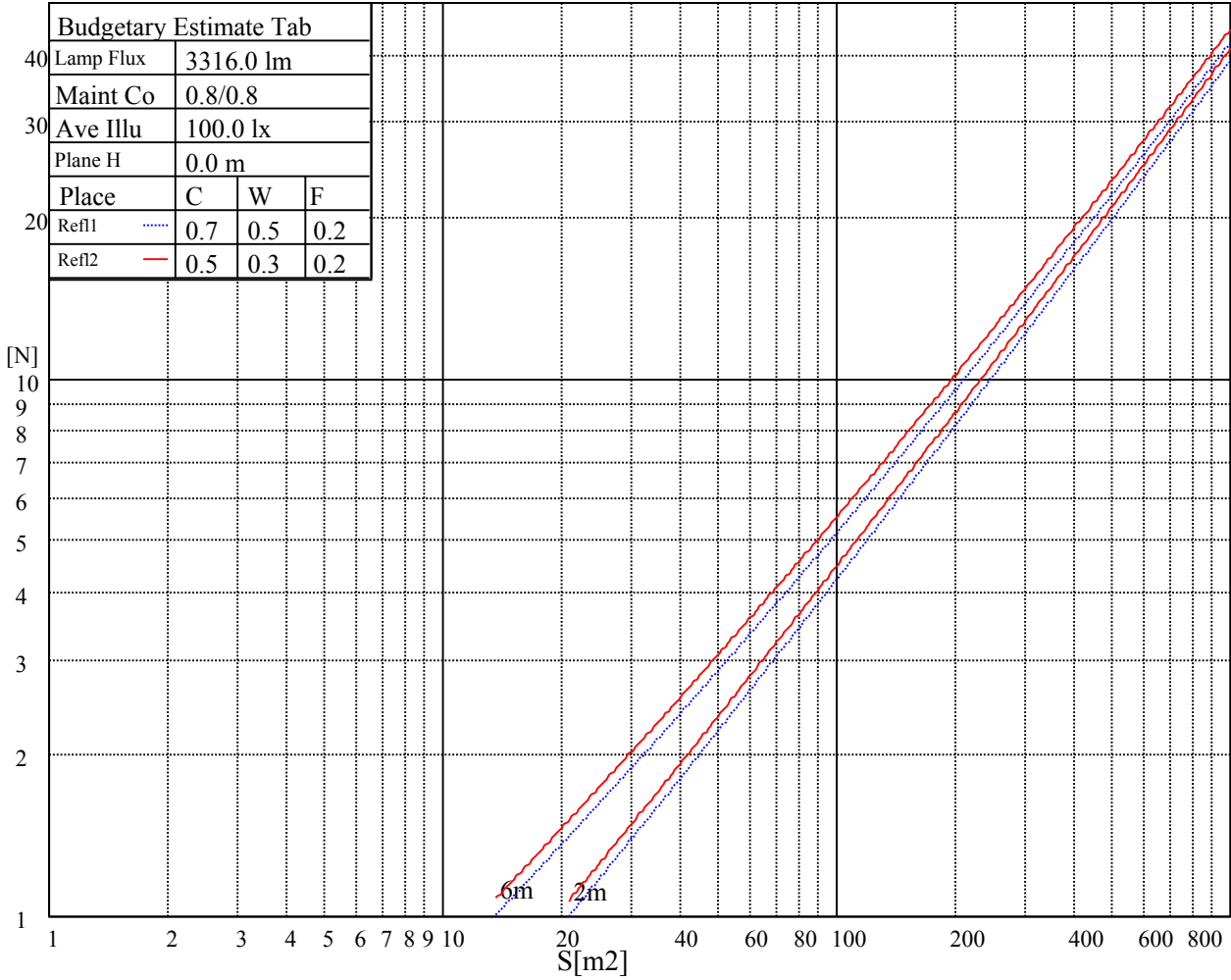
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 |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

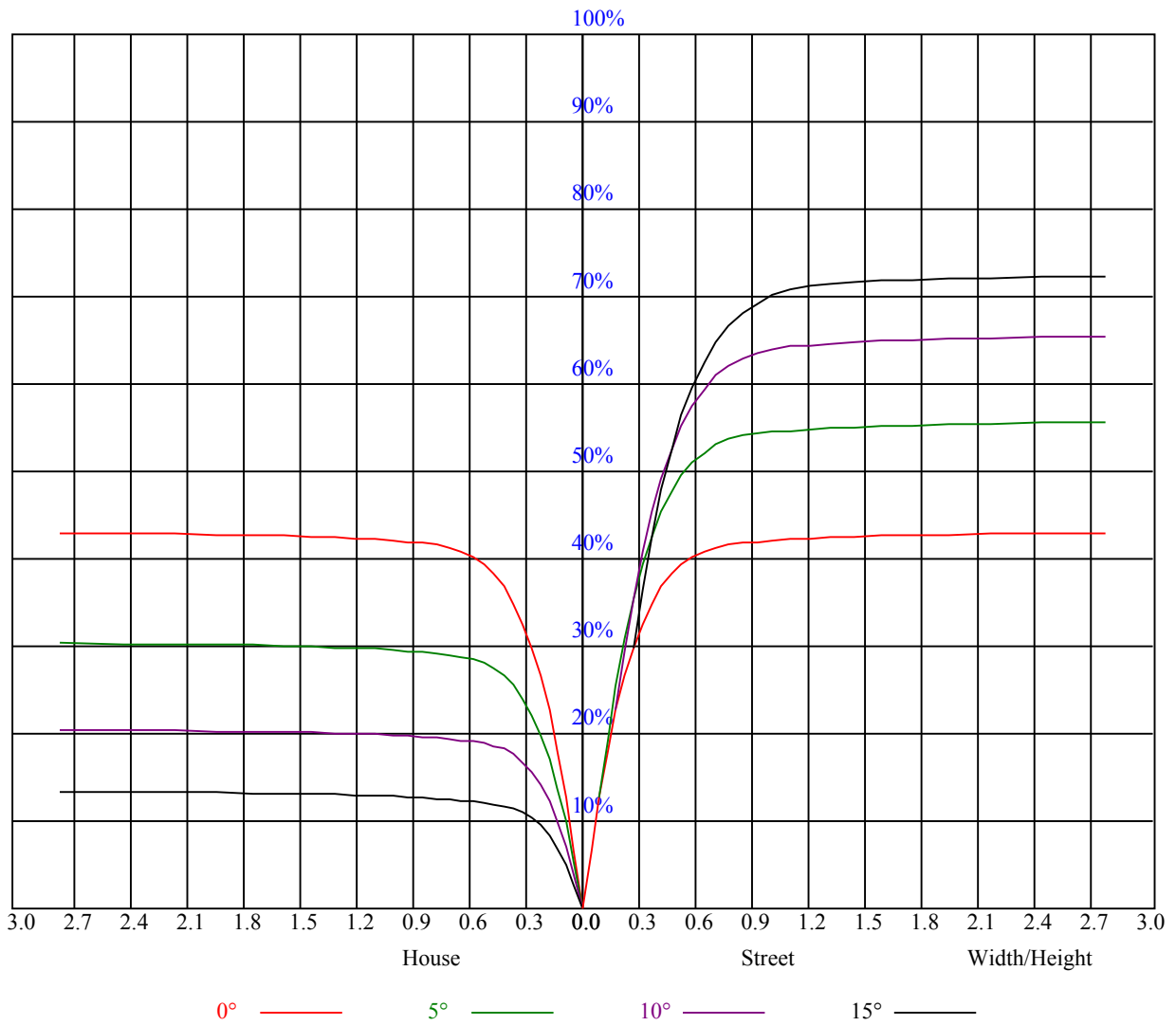


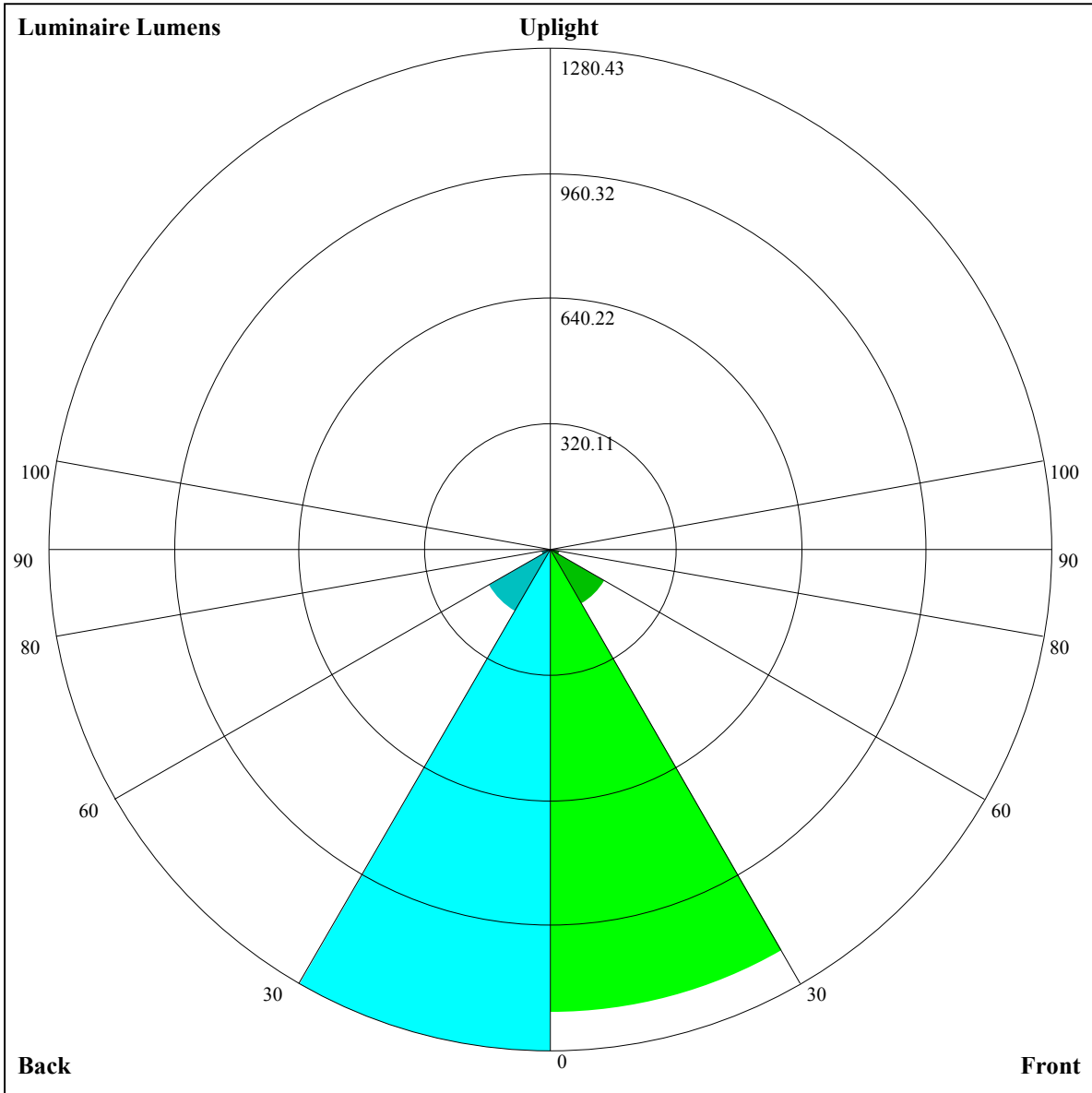
| Illumination assessment according UGR | | | | | | | | | | | |
|---------------------------------------------------|-----|------------------|-----|-----|-----|-----|----------------|-----|-----|-----|-----|
| Rf of Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Rf of Wall | 50 | 30 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 RHOFC=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 | 0.93 | 0.95 | 0.93 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 |
| 2 | 0.91 | 0.88 | 0.85 | 0.90 | 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 | 0.82 | 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 | 0.72 | 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 | 0.71 | 0.69 | 0.73 | 0.71 | 0.69 | 0.67 |
| 6 | 0.75 | 0.70 | 0.67 | 0.74 | 0.70 | 0.67 | 0.73 | 0.69 | 0.67 | 0.72 | 0.68 | 0.66 | 0.71 | 0.68 | 0.66 | 0.65 |
| 7 | 0.71 | 0.67 | 0.64 | 0.71 | 0.67 | 0.64 | 0.70 | 0.66 | 0.64 | 0.69 | 0.66 | 0.63 | 0.68 | 0.65 | 0.63 | 0.62 |
| 8 | 0.69 | 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 |
| 9 | 0.66 | 0.62 | 0.59 | 0.66 | 0.62 | 0.59 | 0.65 | 0.61 | 0.59 | 0.64 | 0.61 | 0.59 | 0.64 | 0.61 | 0.58 | 0.57 |
| 10 | 0.64 | 0.60 | 0.57 | 0.63 | 0.59 | 0.57 | 0.63 | 0.59 | 0.57 | 0.62 | 0.59 | 0.57 | 0.62 | 0.59 | 0.56 | 0.55 |





Luminaire Lumens:

FL=1182.63,FM=161.65,FH=24.1,FVH=7.57

BL=1280.43,BM=184.87,BH=25.53,BVH=7.75

UL=0,UH=0

BUG Rating:B3-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 | 11614.43 | 11197.17 | 10547.57 | 9809.01 | 9003.75 | 7992.48 | 7186.62 | 6422.90 | 5772.72 |
| 45.0 | 12111.82 | 11947.95 | 11491.48 | 10876.99 | 9969.89 | 9162.28 | 8354.67 | 7330.53 | 6558.03 |
| 90.0 | 11616.77 | 11616.77 | 11052.03 | 10158.98 | 9367.17 | 8539.66 | 7524.30 | 6750.63 | 6031.97 |
| 135.0 | 12100.11 | 12041.59 | 11743.12 | 11075.97 | 10414.66 | 9630.46 | 8799.44 | 7769.45 | 6991.10 |
| 180.0 | 11614.43 | 11614.43 | 12088.41 | 11912.84 | 11567.56 | 10865.29 | 10180.57 | 9402.22 | 8342.97 |
| 225.0 | 12111.82 | 11598.63 | 11598.63 | 11348.16 | 10726.06 | 10016.18 | 9241.35 | 8193.21 | 7356.34 |
| 270.0 | 11616.77 | 12111.82 | 12059.15 | 11684.60 | 11181.31 | 10531.71 | 9811.88 | 8822.85 | 7991.83 |
| 315.0 | 12100.11 | 11675.30 | 11675.30 | 11142.74 | 10483.19 | 9560.29 | 8758.54 | 7710.98 | 6909.22 |
| 360.0 | 11614.43 | 11197.17 | 10547.57 | 9809.01 | 9003.75 | 7992.48 | 7186.62 | 6422.90 | 5772.72 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 5131.31 | 4700.59 | 4316.09 | 3981.34 | 3606.21 | 3325.31 | 3009.87 | 2791.58 | 2589.09 |
| 45.0 | 5902.58 | 5352.47 | 4784.80 | 4398.55 | 4047.42 | 3737.25 | 3444.63 | 3122.76 | 3005.72 |
| 90.0 | 5461.38 | 4876.15 | 4471.76 | 4114.19 | 3796.41 | 3450.55 | 3181.93 | 2937.30 | 2716.67 |
| 135.0 | 6259.57 | 5650.93 | 5018.89 | 4609.23 | 4234.69 | 3830.88 | 3532.42 | 3187.14 | 3005.72 |
| 180.0 | 7511.95 | 6733.60 | 6037.18 | 5311.50 | 4843.32 | 4433.66 | 4076.68 | 3766.51 | 3409.52 |
| 225.0 | 6573.89 | 5904.39 | 5227.29 | 4777.25 | 4290.93 | 3959.69 | 3648.35 | 3294.29 | 3036.79 |
| 270.0 | 7178.37 | 6423.43 | 5639.23 | 5112.53 | 4667.75 | 4205.43 | 3871.85 | 3567.53 | 3228.10 |
| 315.0 | 6149.60 | 5539.21 | 4929.41 | 4519.17 | 4159.25 | 3843.23 | 3482.73 | 3218.21 | 2971.25 |
| 360.0 | 5131.31 | 4700.59 | 4316.09 | 3981.34 | 3606.21 | 3325.31 | 3009.87 | 2791.58 | 2589.09 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 2371.98 | 2212.21 | 2058.88 | 1902.04 | 1704.23 | 1547.98 | 1398.16 | 1163.08 | 1163.08 |
| 45.0 | 3005.72 | 2459.17 | 2297.65 | 2098.68 | 1945.93 | 1791.43 | 1601.23 | 1448.49 | 1316.23 |
| 90.0 | 2476.15 | 2304.09 | 2115.65 | 1963.49 | 1801.38 | 1605.92 | 1454.34 | 1147.57 | 1147.57 |
| 135.0 | 3005.72 | 2539.94 | 2331.59 | 2171.24 | 2016.16 | 1858.73 | 1652.73 | 1499.40 | 1361.88 |
| 180.0 | 3152.02 | 2970.60 | 2970.60 | 2447.47 | 2248.49 | 2102.77 | 1944.18 | 1786.17 | 1593.63 |
| 225.0 | 2805.63 | 2542.86 | 2366.12 | 2208.11 | 2054.78 | 1861.66 | 1707.16 | 1553.25 | 1407.52 |
| 270.0 | 2982.31 | 2982.31 | 2513.60 | 2335.11 | 2174.75 | 2031.96 | 1834.15 | 1674.39 | 1522.81 |
| 315.0 | 2750.03 | 2503.65 | 2332.77 | 2134.96 | 1979.29 | 1821.86 | 1625.81 | 1470.73 | 1164.54 |
| 360.0 | 2371.98 | 2212.21 | 2058.88 | 1902.04 | 1704.23 | 1547.98 | 1398.16 | 1163.08 | 1163.08 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 1050.60 | 937.06 | 799.30 | 689.40 | 582.18 | 450.68 | 355.41 | 267.56 | 175.86 |
| 45.0 | 1212.64 | 1079.21 | 966.85 | 853.32 | 742.71 | 606.94 | 503.94 | 402.69 | 310.81 |
| 90.0 | 1091.09 | 980.37 | 869.06 | 756.46 | 623.73 | 513.65 | 410.89 | 292.67 | 212.85 |
| 135.0 | 1252.44 | 1127.79 | 1014.84 | 872.63 | 759.68 | 652.58 | 519.15 | 414.98 | 320.76 |
| 180.0 | 1439.71 | 1319.74 | 1222.59 | 1092.09 | 977.38 | 860.34 | 718.13 | 609.86 | 506.86 |
| 225.0 | 1157.17 | 1157.17 | 1078.10 | 935.95 | 822.01 | 707.01 | 568.90 | 463.91 | 365.47 |
| 270.0 | 1380.60 | 1244.83 | 1154.71 | 1043.51 | 898.96 | 785.43 | 674.24 | 537.88 | 432.54 |
| 315.0 | 1164.54 | 1117.02 | 1009.86 | 895.51 | 755.53 | 646.85 | 537.41 | 432.54 | 314.62 |
| 360.0 | 1050.60 | 937.06 | 799.30 | 689.40 | 582.18 | 450.68 | 355.41 | 267.56 | 175.86 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 131.56 | 117.28 | 108.68 | 101.07 | 94.98 | 89.42 | 82.40 | 77.37 | 72.92 |
| 45.0 | 310.81 | 146.19 | 118.74 | 109.67 | 101.42 | 95.63 | 90.42 | 84.97 | 79.71 |
| 90.0 | 153.09 | 123.01 | 114.06 | 107.21 | 100.13 | 94.69 | 89.19 | 83.92 | 77.78 |
| 135.0 | 299.69 | 203.25 | 126.99 | 117.63 | 108.85 | 102.12 | 95.74 | 90.01 | 84.86 |
| 180.0 | 381.04 | 311.40 | 311.40 | 138.99 | 121.26 | 112.54 | 104.35 | 98.08 | 92.17 |
| 225.0 | 257.79 | 185.22 | 133.14 | 115.06 | 104.87 | 99.08 | 93.52 | 88.37 | 81.93 |
| 270.0 | 337.15 | 314.32 | 216.88 | 125.53 | 112.95 | 103.58 | 98.14 | 92.88 | 87.55 |
| 315.0 | 233.56 | 167.73 | 122.02 | 112.19 | 103.47 | 97.91 | 92.35 | 86.61 | 79.94 |
| 360.0 | 131.56 | 117.28 | 108.68 | 101.07 | 94.98 | 89.42 | 82.40 | 77.37 | 72.92 |

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 | 67.89 | 64.43 | 61.04 | 57.64 | 55.30 | 53.49 | 51.62 | 50.27 | 49.39 |
| 45.0 | 73.80 | 69.58 | 65.90 | 62.62 | 58.87 | 56.30 | 54.13 | 52.03 | 50.91 |
| 90.0 | 73.39 | 69.70 | 65.60 | 62.68 | 59.93 | 56.53 | 54.72 | 53.49 | 52.32 |
| 135.0 | 79.12 | 74.56 | 69.52 | 65.90 | 62.62 | 59.22 | 57.12 | 55.25 | 53.26 |
| 180.0 | 86.50 | 79.82 | 75.20 | 70.99 | 67.36 | 62.97 | 60.04 | 57.53 | 54.84 |
| 225.0 | 77.02 | 72.74 | 67.77 | 64.78 | 61.86 | 58.41 | 56.12 | 53.37 | 52.14 |
| 270.0 | 80.94 | 76.20 | 71.98 | 67.36 | 64.43 | 61.68 | 58.41 | 56.01 | 53.78 |
| 315.0 | 75.44 | 71.16 | 67.42 | 63.26 | 60.10 | 58.00 | 55.89 | 53.61 | 52.09 |
| 360.0 | 67.89 | 64.43 | 61.04 | 57.64 | 55.30 | 53.49 | 51.62 | 50.27 | 49.39 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 48.57 | 47.58 | 46.58 | 44.71 | 43.19 | 39.62 | 37.22 | 34.29 | 30.61 |
| 45.0 | 49.63 | 48.81 | 47.87 | 46.64 | 45.12 | 43.37 | 40.97 | 37.22 | 34.76 |
| 90.0 | 51.44 | 50.50 | 48.98 | 47.52 | 45.71 | 43.19 | 39.33 | 36.87 | 32.89 |
| 135.0 | 51.79 | 51.03 | 50.56 | 49.51 | 47.87 | 46.00 | 43.77 | 39.80 | 37.34 |
| 180.0 | 53.26 | 51.44 | 50.33 | 49.28 | 48.46 | 47.17 | 45.59 | 43.83 | 40.61 |
| 225.0 | 50.91 | 49.98 | 48.87 | 47.81 | 46.88 | 45.30 | 43.54 | 40.26 | 37.75 |
| 270.0 | 52.67 | 51.56 | 50.74 | 49.69 | 48.69 | 47.46 | 45.59 | 43.07 | 39.80 |
| 315.0 | 50.33 | 49.57 | 49.04 | 48.22 | 46.70 | 45.00 | 42.78 | 39.15 | 36.87 |
| 360.0 | 48.57 | 47.58 | 46.58 | 44.71 | 43.19 | 39.62 | 37.22 | 34.29 | 30.61 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 28.56 | 25.93 | 24.35 | 23.00 | 21.89 | 21.19 | 20.54 | 19.96 | 19.43 |
| 45.0 | 31.37 | 29.32 | 26.92 | 24.81 | 23.64 | 22.36 | 21.59 | 21.07 | 20.60 |
| 90.0 | 30.67 | 27.51 | 25.75 | 24.46 | 23.06 | 22.41 | 22.36 | 22.30 | 21.65 |
| 135.0 | 33.53 | 30.55 | 27.80 | 25.63 | 24.40 | 23.23 | 22.41 | 21.54 | 20.95 |
| 180.0 | 37.98 | 35.29 | 31.84 | 29.85 | 26.51 | 25.11 | 23.47 | 22.53 | 21.83 |
| 225.0 | 34.59 | 31.31 | 29.50 | 26.39 | 25.05 | 23.76 | 22.71 | 22.47 | 22.71 |
| 270.0 | 37.81 | 34.12 | 30.67 | 28.15 | 25.63 | 24.40 | 23.12 | 22.18 | 21.89 |
| 315.0 | 32.89 | 30.67 | 27.39 | 25.57 | 24.29 | 22.82 | 22.06 | 21.36 | 20.60 |
| 360.0 | 28.56 | 25.93 | 24.35 | 23.00 | 21.89 | 21.19 | 20.54 | 19.96 | 19.43 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 18.84 | 18.32 | 17.97 | 17.56 | 16.97 | 16.56 | 16.09 | 15.57 | 15.16 |
| 45.0 | 20.31 | 19.84 | 19.20 | 19.02 | 18.43 | 18.14 | 17.56 | 17.03 | 16.62 |
| 90.0 | 20.60 | 19.90 | 19.37 | 18.43 | 17.91 | 17.21 | 16.68 | 16.15 | 15.74 |
| 135.0 | 20.42 | 19.90 | 19.31 | 18.84 | 18.32 | 17.73 | 17.26 | 16.80 | 16.21 |
| 180.0 | 21.01 | 20.42 | 19.90 | 19.49 | 19.25 | 18.67 | 18.38 | 17.67 | 17.03 |
| 225.0 | 23.12 | 23.00 | 22.12 | 21.48 | 21.07 | 20.13 | 19.96 | 19.37 | 18.55 |
| 270.0 | 21.77 | 21.59 | 20.60 | 19.78 | 19.49 | 18.84 | 18.02 | 17.56 | 17.03 |
| 315.0 | 20.07 | 19.37 | 18.96 | 18.55 | 18.08 | 17.56 | 17.09 | 16.68 | 16.27 |
| 360.0 | 18.84 | 18.32 | 17.97 | 17.56 | 16.97 | 16.56 | 16.09 | 15.57 | 15.16 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 14.69 | 14.40 | 13.99 | 13.64 | 13.17 | 12.87 | 12.76 | 12.41 | 12.52 |
| 45.0 | 15.63 | 14.92 | 14.40 | 13.99 | 13.64 | 13.17 | 12.93 | 12.70 | 12.41 |
| 90.0 | 15.22 | 14.69 | 14.28 | 13.81 | 13.34 | 13.05 | 12.82 | 12.41 | 12.70 |
| 135.0 | 15.74 | 15.33 | 14.75 | 14.22 | 13.81 | 13.40 | 13.05 | 12.76 | 12.35 |
| 180.0 | 16.56 | 15.98 | 15.45 | 14.86 | 14.40 | 13.99 | 13.58 | 13.11 | 12.87 |
| 225.0 | 17.21 | 15.51 | 14.81 | 14.40 | 13.99 | 13.64 | 13.17 | 12.93 | 12.87 |
| 270.0 | 16.33 | 15.80 | 15.16 | 14.75 | 14.22 | 13.81 | 13.46 | 12.99 | 12.76 |
| 315.0 | 15.74 | 15.22 | 14.75 | 14.28 | 13.87 | 13.46 | 13.05 | 12.76 | 12.41 |
| 360.0 | 14.69 | 14.40 | 13.99 | 13.64 | 13.17 | 12.87 | 12.76 | 12.41 | 12.52 |

Intensity data(cd)

| | |
|-----------------|-------|
| C/ γ (°) | 90.0 |
| 0.0 | 12.52 |
| 45.0 | 12.52 |
| 90.0 | 12.52 |
| 135.0 | 12.70 |
| 180.0 | 12.64 |
| 225.0 | 12.35 |
| 270.0 | 12.35 |
| 315.0 | 12.35 |
| 360.0 | 12.52 |