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Nata

Client:

LumCAT: 3-2044-M

Luminaire: 92.70.131.00

Report No:

Voltage(V): 34.9800

Test No: GC2019082206

Current(A): 0.3980

LampCAT: TRIDONIC SLE 13MM G7

Power (W): 13.9200

Lamp flux(lm): 1702.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 84

Width(mm): 84

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1565.07, Efficiency(%): 91.95% , Luminous Efficacy(lm/W): 112.43

Central intensity(cd): 5745.375, Maximum intensity(cd): 5745.375

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=25.2

[C90/270]Total=25.2

Field angle(10%Imax): [C0/180]Total=53.2

[C90/270]Total=53.2

Maximum s/h(1/2): C0_180=0.43 C90_270=0.43

Maximum s/h(1/4): C0_180=0.42 C90_270=0.42

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.95%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.543%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 5745.375 | 0.000 | 0 | .000% | .000% |
| 1.0 | 5731.734 | 5.492 | 5.492 | .323% | .351% |
| 2.0 | 5693.063 | 16.398 | 21.89 | .963% | 1.399% |
| 3.0 | 5613.398 | 27.041 | 48.931 | 1.589% | 3.126% |
| 4.0 | 5491.266 | 37.171 | 86.102 | 2.184% | 5.501% |
| 5.0 | 5329.406 | 46.550 | 132.652 | 2.735% | 8.476% |
| 6.0 | 5098.148 | 54.800 | 187.451 | 3.220% | 11.977% |
| 7.0 | 4835.320 | 61.657 | 249.108 | 3.623% | 15.917% |
| 8.0 | 4558.430 | 67.229 | 316.337 | 3.950% | 20.212% |
| 9.0 | 4223.602 | 71.174 | 387.511 | 4.182% | 24.760% |
| 10.0 | 3851.438 | 73.076 | 460.587 | 4.294% | 29.429% |
| 11.0 | 3511.195 | 73.568 | 534.155 | 4.322% | 34.130% |
| 12.0 | 3133.266 | 72.633 | 606.788 | 4.268% | 38.771% |
| 13.0 | 2729.531 | 69.577 | 676.365 | 4.088% | 43.216% |
| 14.0 | 2391.188 | 65.545 | 741.91 | 3.851% | 47.404% |
| 15.0 | 2061.422 | 61.127 | 803.037 | 3.592% | 51.310% |
| 16.0 | 1770.328 | 56.146 | 859.183 | 3.299% | 54.897% |
| 17.0 | 1501.432 | 50.950 | 910.133 | 2.994% | 58.153% |
| 18.0 | 1286.423 | 45.966 | 956.099 | 2.701% | 61.090% |
| 19.0 | 1105.917 | 41.622 | 997.721 | 2.445% | 63.749% |
| 20.0 | 978.019 | 38.142 | 1035.863 | 2.241% | 66.186% |
| 21.0 | 848.834 | 35.079 | 1070.942 | 2.061% | 68.428% |
| 22.0 | 752.498 | 32.179 | 1103.121 | 1.891% | 70.484% |
| 23.0 | 687.923 | 30.224 | 1133.345 | 1.776% | 72.415% |
| 24.0 | 638.198 | 28.994 | 1162.339 | 1.704% | 74.267% |
| 25.0 | 605.749 | 28.285 | 1190.624 | 1.662% | 76.075% |
| 26.0 | 584.536 | 28.097 | 1218.72 | 1.651% | 77.870% |
| 27.0 | 567.591 | 28.187 | 1246.907 | 1.656% | 79.671% |
| 28.0 | 552.909 | 28.369 | 1275.276 | 1.667% | 81.484% |
| 29.0 | 542.834 | 28.668 | 1303.944 | 1.684% | 83.315% |
| 30.0 | 533.313 | 29.056 | 1333 | 1.707% | 85.172% |
| 31.0 | 522.759 | 29.389 | 1362.389 | 1.727% | 87.050% |
| 32.0 | 505.216 | 29.450 | 1391.839 | 1.730% | 88.931% |
| 33.0 | 468.921 | 28.698 | 1420.537 | 1.686% | 90.765% |
| 34.0 | 409.127 | 26.572 | 1447.11 | 1.561% | 92.463% |
| 35.0 | 337.352 | 23.183 | 1470.293 | 1.362% | 93.944% |
| 36.0 | 280.385 | 19.669 | 1489.961 | 1.156% | 95.201% |
| 37.0 | 192.101 | 15.410 | 1505.371 | .905% | 96.185% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 123.145 | 10.522 | 1515.894 | .618% | 96.858% |
| 39.0 | 66.038 | 6.457 | 1522.351 | .379% | 97.270% |
| 40.0 | 30.635 | 3.372 | 1525.723 | .198% | 97.486% |
| 41.0 | 18.380 | 1.745 | 1527.468 | .103% | 97.597% |
| 42.0 | 14.984 | 1.212 | 1528.68 | .071% | 97.675% |
| 43.0 | 12.565 | 1.020 | 1529.701 | .060% | 97.740% |
| 44.0 | 10.856 | 0.884 | 1530.585 | .052% | 97.796% |
| 45.0 | 9.893 | 0.797 | 1531.382 | .047% | 97.847% |
| 46.0 | 9.288 | 0.750 | 1532.132 | .044% | 97.895% |
| 47.0 | 9.077 | 0.730 | 1532.863 | .043% | 97.942% |
| 48.0 | 8.909 | 0.727 | 1533.59 | .043% | 97.988% |
| 49.0 | 8.747 | 0.725 | 1534.315 | .043% | 98.035% |
| 50.0 | 8.585 | 0.723 | 1535.037 | .042% | 98.081% |
| 51.0 | 8.459 | 0.721 | 1535.759 | .042% | 98.127% |
| 52.0 | 8.325 | 0.720 | 1536.479 | .042% | 98.173% |
| 53.0 | 8.220 | 0.720 | 1537.198 | .042% | 98.219% |
| 54.0 | 8.121 | 0.720 | 1537.919 | .042% | 98.265% |
| 55.0 | 8.023 | 0.721 | 1538.639 | .042% | 98.311% |
| 56.0 | 7.952 | 0.722 | 1539.361 | .042% | 98.357% |
| 57.0 | 7.875 | 0.724 | 1540.085 | .043% | 98.403% |
| 58.0 | 7.805 | 0.725 | 1540.81 | .043% | 98.450% |
| 59.0 | 7.748 | 0.727 | 1541.537 | .043% | 98.496% |
| 60.0 | 7.699 | 0.730 | 1542.267 | .043% | 98.543% |
| 61.0 | 7.629 | 0.731 | 1542.998 | .043% | 98.590% |
| 62.0 | 7.594 | 0.734 | 1543.732 | .043% | 98.637% |
| 63.0 | 7.545 | 0.736 | 1544.468 | .043% | 98.684% |
| 64.0 | 7.516 | 0.739 | 1545.207 | .043% | 98.731% |
| 65.0 | 7.481 | 0.742 | 1545.949 | .044% | 98.778% |
| 66.0 | 7.453 | 0.745 | 1546.694 | .044% | 98.826% |
| 67.0 | 7.418 | 0.748 | 1547.442 | .044% | 98.874% |
| 68.0 | 7.369 | 0.749 | 1548.191 | .044% | 98.921% |
| 69.0 | 7.348 | 0.751 | 1548.942 | .044% | 98.969% |
| 70.0 | 7.320 | 0.753 | 1549.695 | .044% | 99.018% |
| 71.0 | 7.313 | 0.756 | 1550.452 | .044% | 99.066% |
| 72.0 | 7.277 | 0.759 | 1551.21 | .045% | 99.114% |
| 73.0 | 7.256 | 0.760 | 1551.97 | .045% | 99.163% |
| 74.0 | 7.221 | 0.761 | 1552.731 | .045% | 99.212% |
| 75.0 | 7.214 | 0.763 | 1553.494 | .045% | 99.260% |

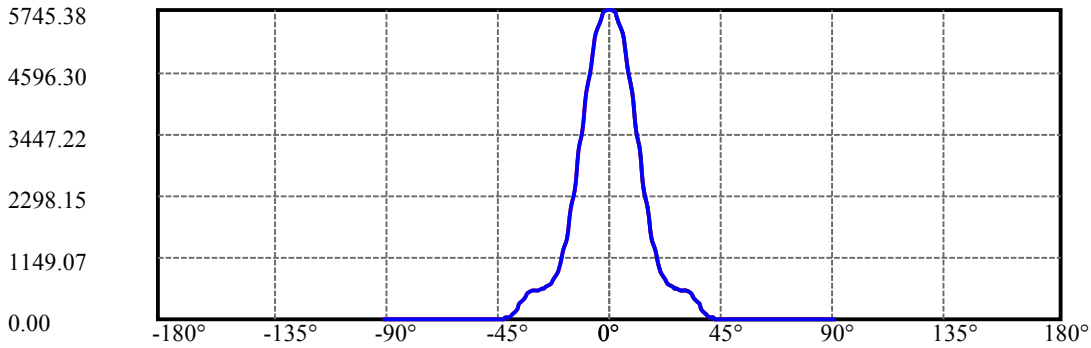
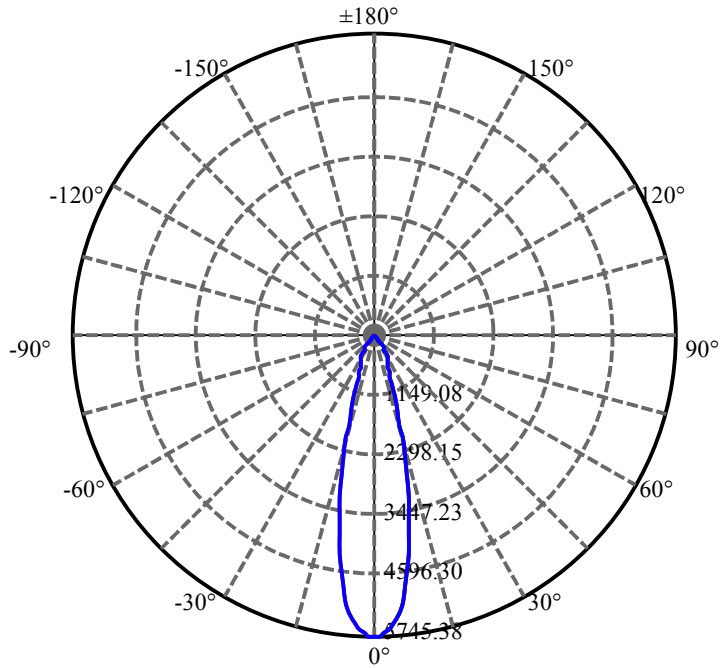
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 7.193 | 0.765 | 1554.259 | .045% | 99.309% |
| 77.0 | 7.172 | 0.766 | 1555.025 | .045% | 99.358% |
| 78.0 | 7.158 | 0.767 | 1555.792 | .045% | 99.407% |
| 79.0 | 7.151 | 0.769 | 1556.561 | .045% | 99.456% |
| 80.0 | 7.137 | 0.770 | 1557.331 | .045% | 99.505% |
| 81.0 | 7.130 | 0.772 | 1558.102 | .045% | 99.555% |
| 82.0 | 7.116 | 0.772 | 1558.875 | .045% | 99.604% |
| 83.0 | 7.123 | 0.774 | 1559.649 | .045% | 99.654% |
| 84.0 | 7.102 | 0.775 | 1560.424 | .046% | 99.703% |
| 85.0 | 7.088 | 0.774 | 1561.198 | .046% | 99.753% |
| 86.0 | 7.073 | 0.774 | 1561.972 | .045% | 99.802% |
| 87.0 | 7.080 | 0.775 | 1562.747 | .046% | 99.851% |
| 88.0 | 7.066 | 0.775 | 1563.522 | .046% | 99.901% |
| 89.0 | 7.059 | 0.774 | 1564.296 | .045% | 99.950% |
| 90.0 | 7.080 | 0.775 | 1565.071 | .046% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|---------|
| 0-30 | 1333.00 | 78.32% | 85.17% |
| 0-40 | 1525.72 | 89.64% | 97.49% |
| 0-60 | 1542.27 | 90.61% | 98.54% |
| 0-90 | 1564.30 | 91.91% | 99.95% |
| 0-120 | 1564.30 | 91.91% | 99.95% |
| 0-180 | 1565.07 | 91.95% | 100.00% |
| 60-90 | 22.76 | 1.34% | 1.45% |
| 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% |
| 0-27.18 | 1252.06 | 73.56% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 460.59 |
| 10-20 | 575.28 |
| 20-30 | 297.14 |
| 30-40 | 192.72 |
| 40-50 | 9.31 |
| 50-60 | 7.23 |
| 60-70 | 7.43 |
| 70-80 | 7.64 |
| 80-90 | 6.97 |
| 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: —————

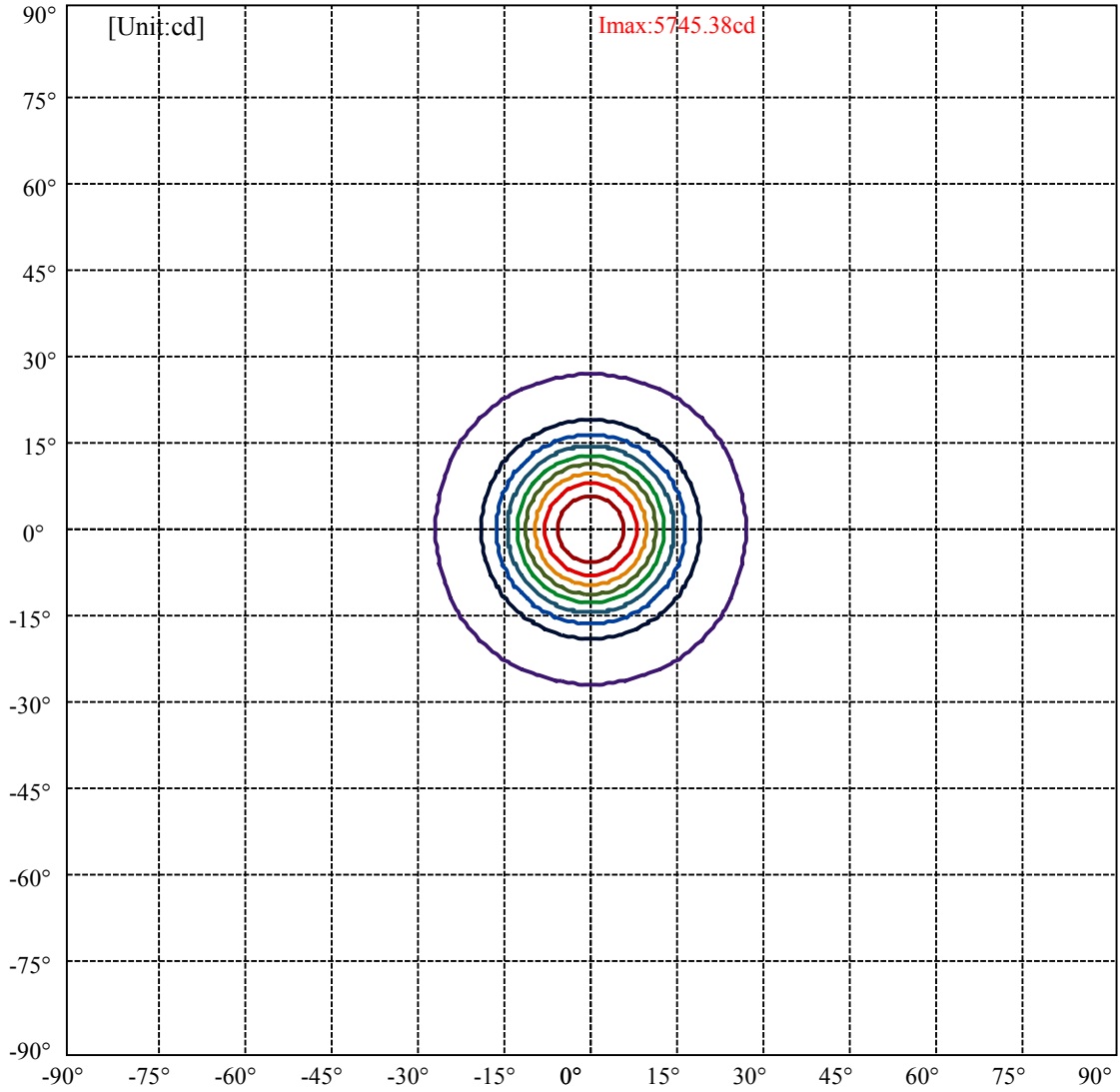
C90/C270: —————

Field angle(10%Imax):C0/180Left:26.6 Right:26.6

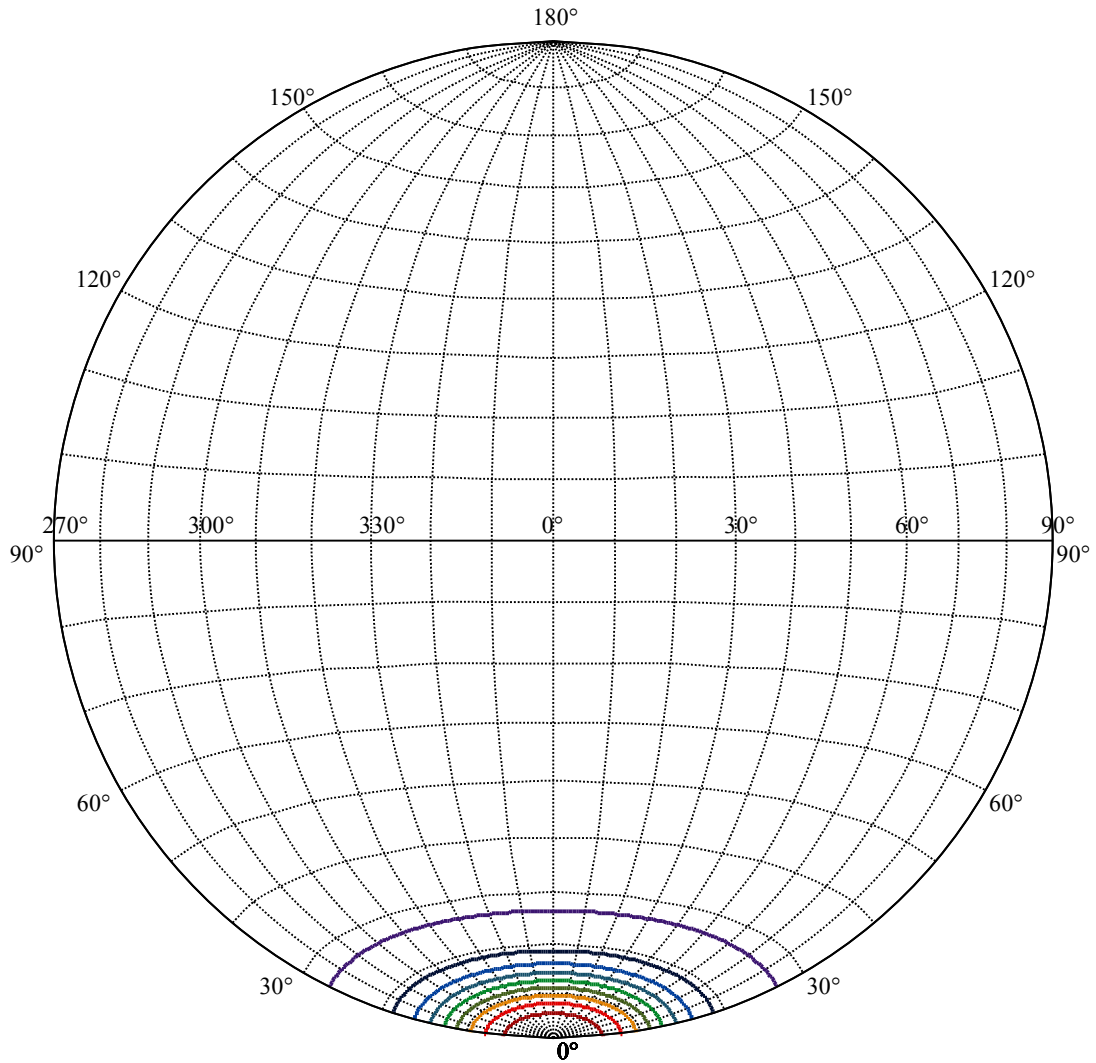
:C90/270Left:26.6 Right:26.6

Beam Angle(50%Imax):C0/180Left:12.6 Right:12.6

:C90/270Left:12.6 Right:12.6



| | |
|-------------------|---|
| (10%Imax) 574.537 | — |
| (20%Imax) 1149.07 | — |
| (30%Imax) 1723.61 | — |
| (40%Imax) 2298.15 | — |
| (50%Imax) 2872.69 | — |
| (60%Imax) 3447.22 | — |
| (70%Imax) 4021.76 | — |
| (80%Imax) 4596.3 | — |
| (90%Imax) 5170.84 | — |



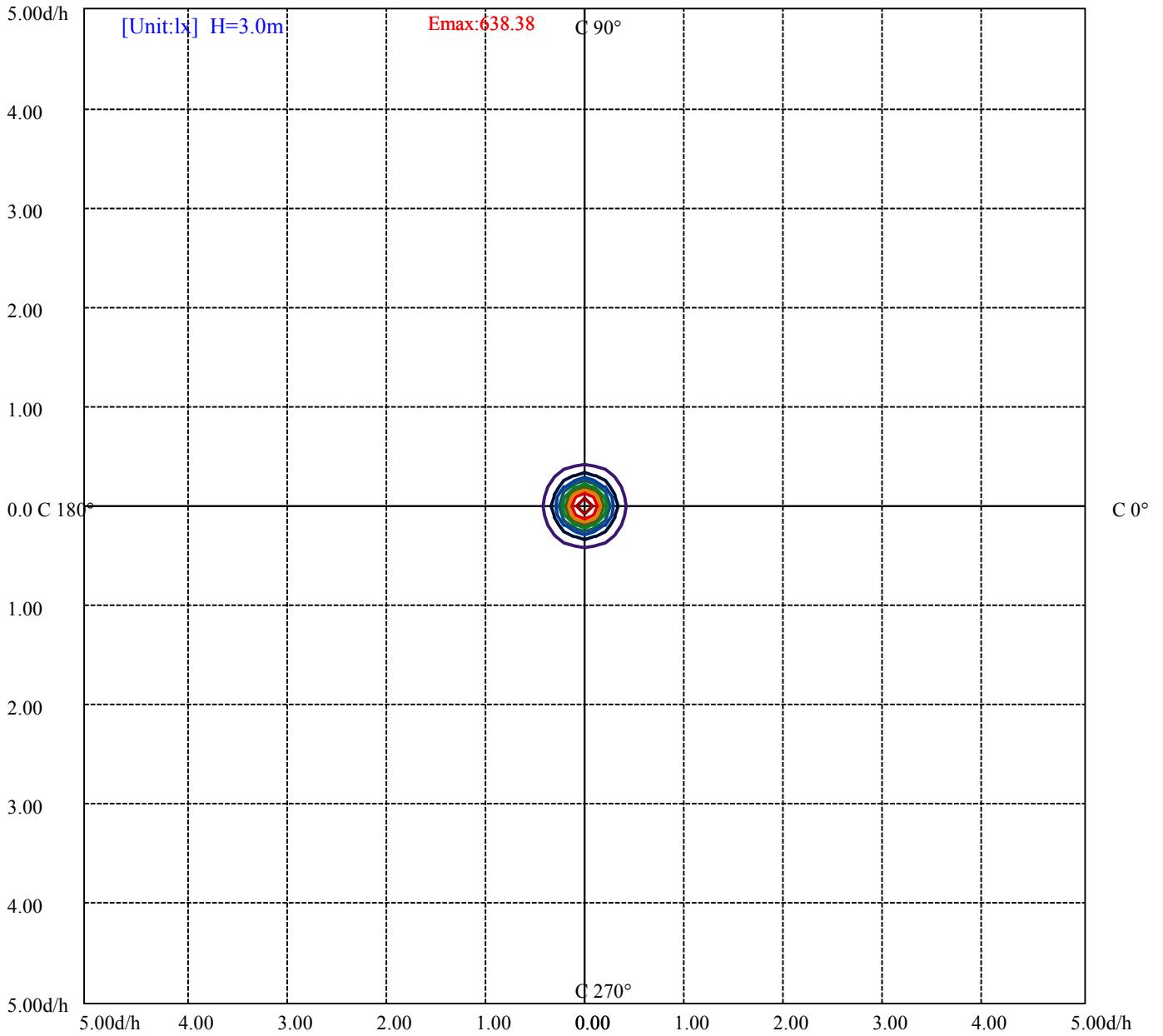
House

[Unit:cd]

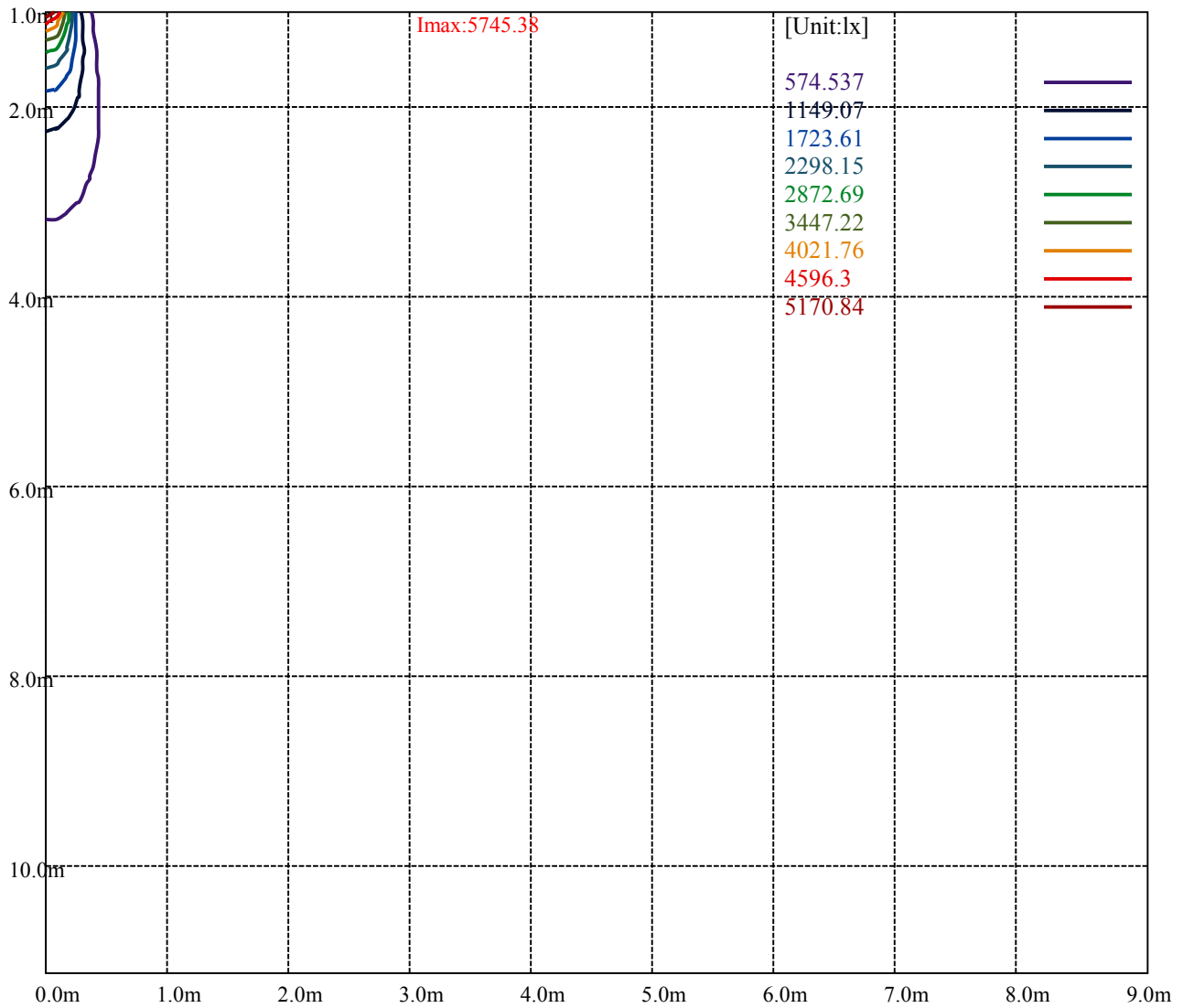
Road

Imax:5745.38

| | |
|-------------------|---|
| (10%Imax) 574.537 | — |
| (20%Imax) 1149.07 | — |
| (30%Imax) 1723.61 | — |
| (40%Imax) 2298.15 | — |
| (50%Imax) 2872.69 | — |
| (60%Imax) 3447.22 | — |
| (70%Imax) 4021.76 | — |
| (80%Imax) 4596.3 | — |
| (90%Imax) 5170.84 | — |



| | |
|--------------------|---|
| (10%Emax) 63.83744 | — |
| (20%Emax) 127.6744 | — |
| (30%Emax) 191.5122 | — |
| (40%Emax) 255.35 | — |
| (50%Emax) 319.1878 | — |
| (60%Emax) 383.0244 | — |
| (70%Emax) 446.8622 | — |
| (80%Emax) 510.7 | — |
| (90%Emax) 574.5378 | — |



Luminance Table

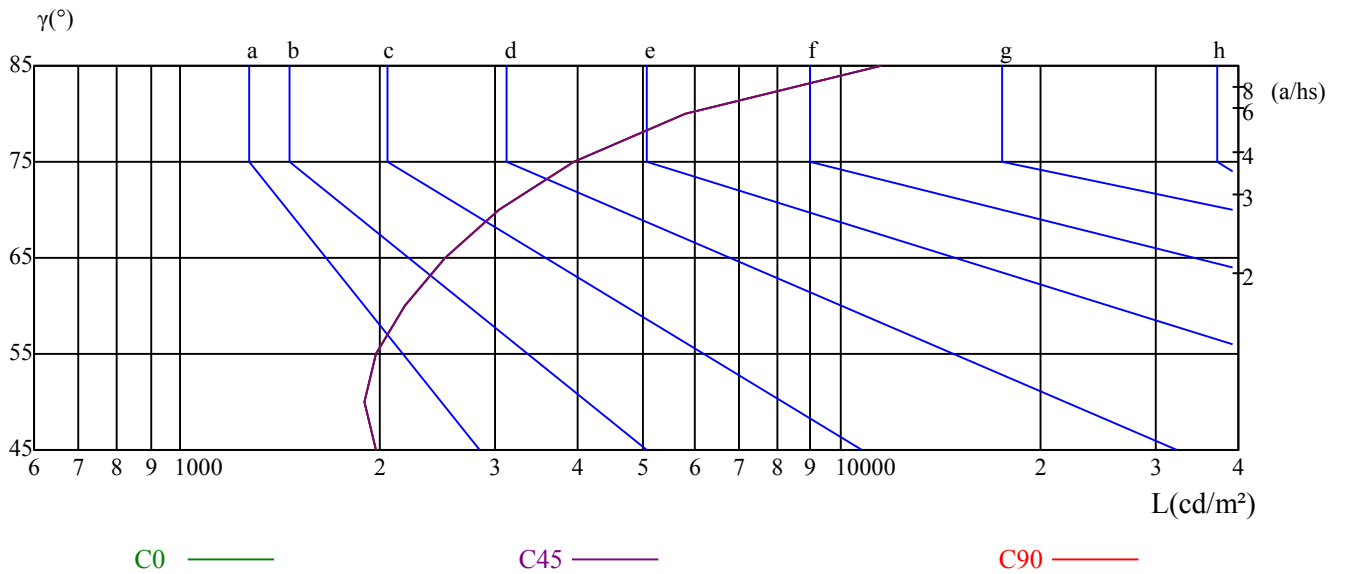
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|------|------|------|------|------|------|------|------|-------|
| C0 | 1983 | 1893 | 1982 | 2182 | 2509 | 3033 | 3950 | 5825 | 11525 |
| C45 | 1983 | 1893 | 1982 | 2182 | 2509 | 3033 | 3950 | 5825 | 11525 |
| C90 | 1983 | 1893 | 1982 | 2182 | 2509 | 3033 | 3950 | 5825 | 11525 |

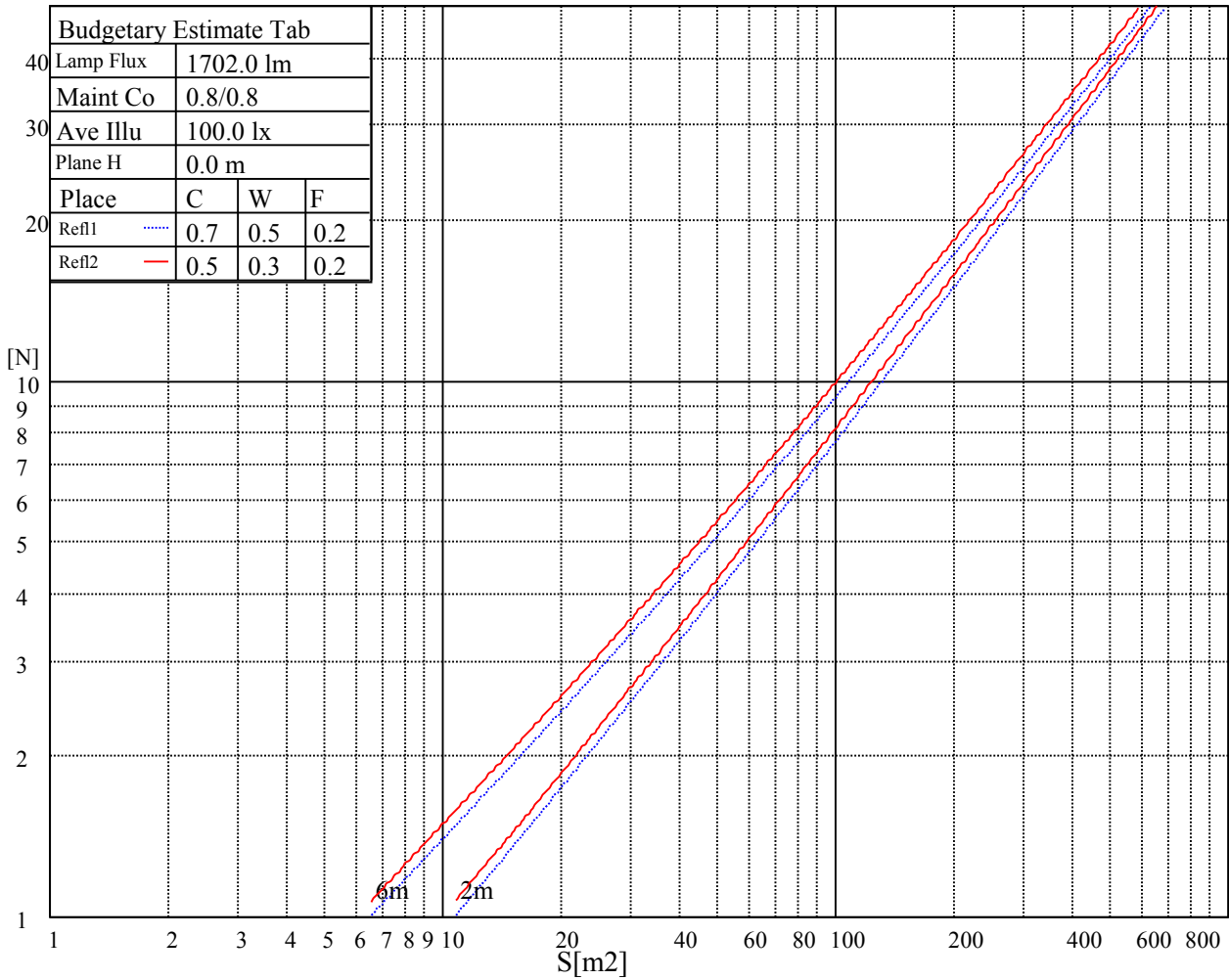
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 2509 | 2509 | 2509 | 3950 | 3950 | 3950 | 11525 | 11525 | 11525 |

Glare Table

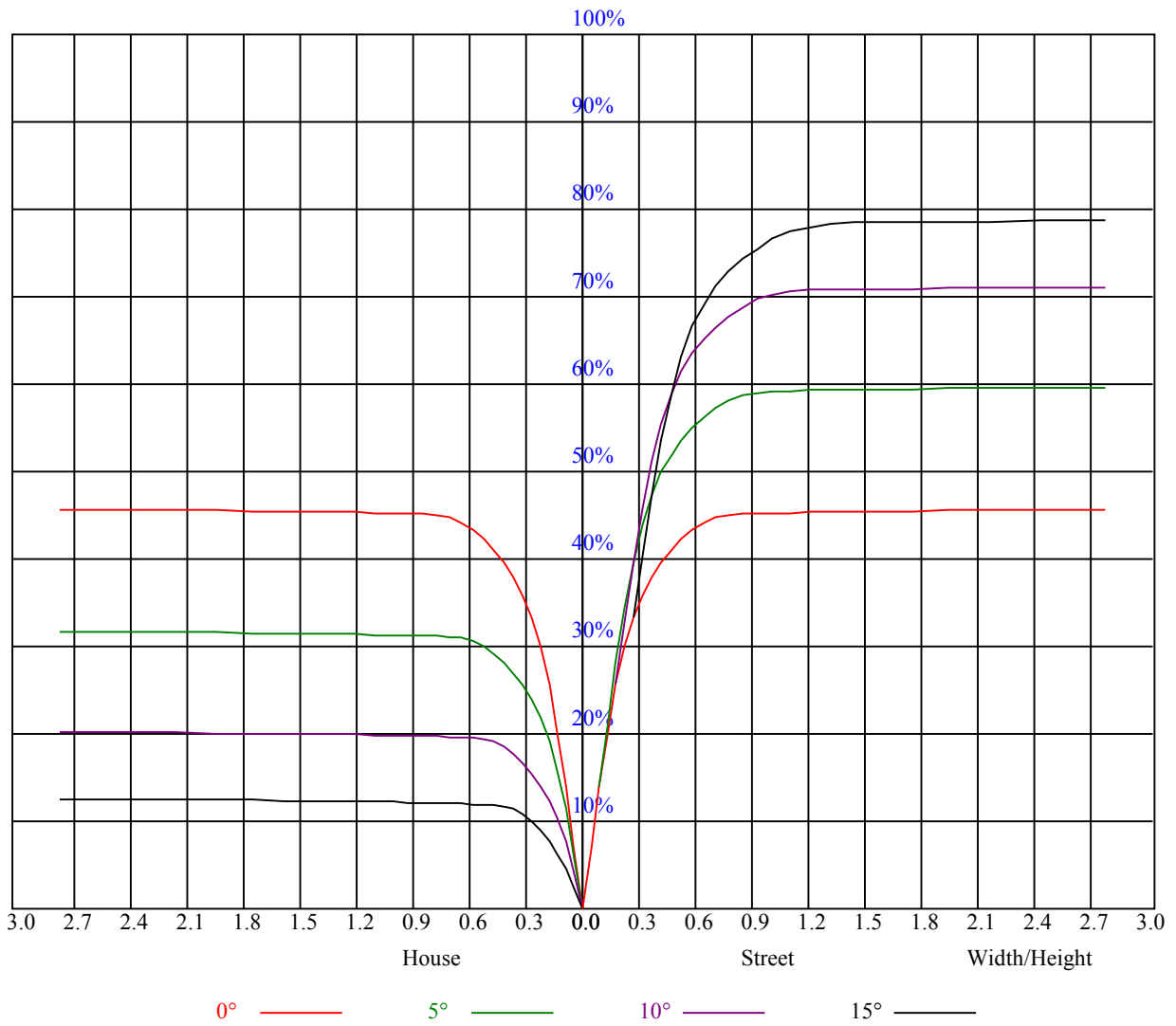
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.2 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |
| | | a | b | c | d | e | f | g | h |

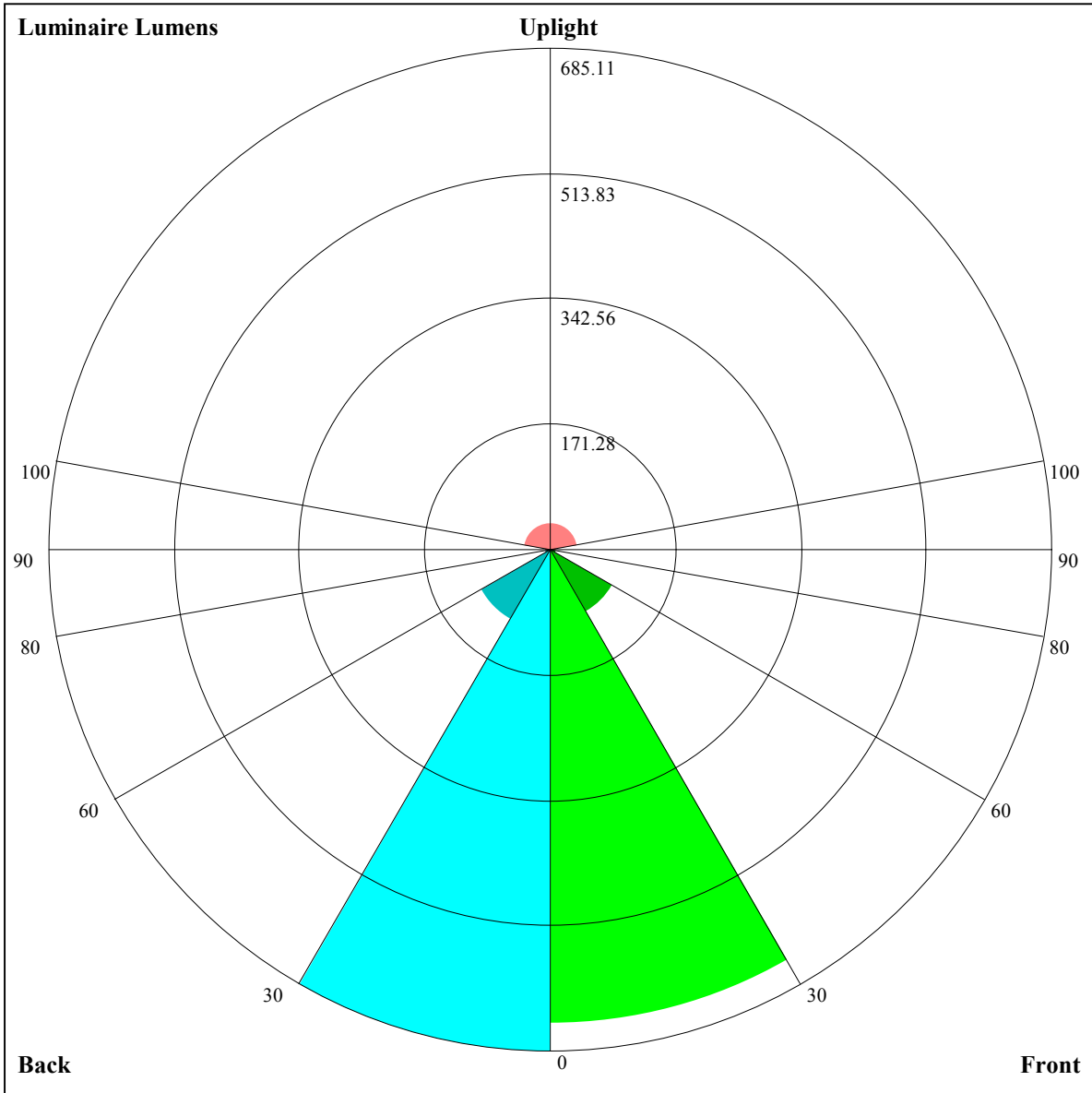
Luminance Limiting Curve





| 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 | 1.09 | 1.09 | 1.09 | 1.07 | 1.07 | 1.07 | 1.02 | 1.02 | 1.02 | 0.98 | 0.98 | 0.98 | 0.94 | 0.94 | 0.94 | 0.92 |
| 1 | 1.03 | 1.01 | 0.99 | 1.01 | 0.99 | 0.97 | 0.97 | 0.96 | 0.94 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.87 |
| 2 | 0.97 | 0.94 | 0.91 | 0.96 | 0.93 | 0.90 | 0.93 | 0.90 | 0.89 | 0.90 | 0.88 | 0.87 | 0.88 | 0.86 | 0.85 | 0.83 |
| 3 | 0.92 | 0.89 | 0.86 | 0.91 | 0.88 | 0.85 | 0.89 | 0.86 | 0.84 | 0.87 | 0.84 | 0.82 | 0.85 | 0.83 | 0.81 | 0.80 |
| 4 | 0.88 | 0.84 | 0.81 | 0.87 | 0.83 | 0.80 | 0.85 | 0.82 | 0.79 | 0.83 | 0.81 | 0.78 | 0.82 | 0.79 | 0.78 | 0.76 |
| 5 | 0.84 | 0.80 | 0.77 | 0.83 | 0.79 | 0.76 | 0.82 | 0.78 | 0.76 | 0.80 | 0.77 | 0.75 | 0.79 | 0.76 | 0.74 | 0.73 |
| 6 | 0.81 | 0.76 | 0.73 | 0.80 | 0.76 | 0.73 | 0.79 | 0.75 | 0.72 | 0.78 | 0.74 | 0.72 | 0.76 | 0.74 | 0.71 | 0.70 |
| 7 | 0.77 | 0.73 | 0.70 | 0.77 | 0.73 | 0.70 | 0.76 | 0.72 | 0.69 | 0.75 | 0.72 | 0.69 | 0.74 | 0.71 | 0.69 | 0.68 |
| 8 | 0.75 | 0.70 | 0.67 | 0.74 | 0.70 | 0.67 | 0.73 | 0.69 | 0.67 | 0.72 | 0.69 | 0.67 | 0.72 | 0.69 | 0.66 | 0.65 |
| 9 | 0.72 | 0.68 | 0.65 | 0.71 | 0.67 | 0.65 | 0.71 | 0.67 | 0.64 | 0.70 | 0.67 | 0.64 | 0.69 | 0.66 | 0.64 | 0.63 |
| 10 | 0.69 | 0.65 | 0.62 | 0.69 | 0.65 | 0.62 | 0.68 | 0.65 | 0.62 | 0.68 | 0.64 | 0.62 | 0.67 | 0.64 | 0.62 | 0.61 |





Luminaire Lumens:

FL=648.44,FM=99.15,FH=7.53,FVH=3.87

BL=685.11,BM=109.03,BH=7.54,BVH=3.88

UL=7.73,UH=36.76

BUG Rating:B2-U2-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 | 5735.25 | 5712.19 | 5663.81 | 5558.06 | 5410.13 | 5220.56 | 4937.63 | 4667.63 | 4368.38 |
| 45.0 | 5748.19 | 5745.94 | 5721.75 | 5679.00 | 5571.00 | 5401.13 | 5200.31 | 4926.38 | 4658.63 |
| 90.0 | 5754.38 | 5754.94 | 5734.69 | 5668.88 | 5568.75 | 5416.88 | 5159.81 | 4919.63 | 4642.88 |
| 135.0 | 5743.69 | 5759.44 | 5754.94 | 5713.31 | 5652.00 | 5547.94 | 5354.44 | 5148.56 | 4916.81 |
| 180.0 | 5735.25 | 5738.06 | 5710.50 | 5658.75 | 5568.75 | 5441.63 | 5248.13 | 5005.13 | 4750.31 |
| 225.0 | 5748.19 | 5719.50 | 5671.13 | 5566.50 | 5436.00 | 5265.00 | 5040.00 | 4770.00 | 4489.88 |
| 270.0 | 5754.38 | 5729.06 | 5669.44 | 5579.44 | 5428.13 | 5256.56 | 5031.00 | 4754.25 | 4465.13 |
| 315.0 | 5743.69 | 5694.75 | 5618.25 | 5483.25 | 5295.38 | 5085.56 | 4813.88 | 4491.00 | 4175.44 |
| 360.0 | 5735.25 | 5712.19 | 5663.81 | 5558.06 | 5410.13 | 5220.56 | 4937.63 | 4667.63 | 4368.38 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 3972.94 | 3637.69 | 3291.19 | 2894.63 | 2503.69 | 2179.69 | 1855.69 | 1603.13 | 1361.25 |
| 45.0 | 4325.06 | 3958.31 | 3612.94 | 3258.00 | 2814.75 | 2473.88 | 2155.50 | 1808.44 | 1567.13 |
| 90.0 | 4338.56 | 3929.63 | 3582.00 | 3187.13 | 2799.56 | 2455.31 | 2098.69 | 1818.00 | 1540.69 |
| 135.0 | 4581.00 | 4276.69 | 3948.19 | 3556.13 | 3156.19 | 2802.38 | 2415.94 | 2106.00 | 1796.06 |
| 180.0 | 4467.38 | 4070.81 | 3741.19 | 3398.63 | 2964.38 | 2620.69 | 2292.75 | 1927.69 | 1673.44 |
| 225.0 | 4141.13 | 3773.81 | 3438.00 | 3000.38 | 2691.00 | 2320.31 | 1954.13 | 1727.44 | 1504.69 |
| 270.0 | 4116.94 | 3750.19 | 3416.63 | 3068.44 | 2625.19 | 2292.19 | 1994.63 | 1703.81 | 1456.88 |
| 315.0 | 3845.81 | 3414.38 | 3059.44 | 2702.81 | 2281.50 | 1985.06 | 1724.06 | 1468.13 | 1111.33 |
| 360.0 | 3972.94 | 3637.69 | 3291.19 | 2894.63 | 2503.69 | 2179.69 | 1855.69 | 1603.13 | 1361.25 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 1163.25 | 1018.13 | 882.00 | 774.56 | 704.81 | 657.56 | 619.31 | 597.94 | 580.50 |
| 45.0 | 1348.88 | 1159.31 | 999.56 | 870.19 | 767.81 | 689.63 | 642.38 | 606.38 | 585.00 |
| 90.0 | 1330.31 | 1111.44 | 987.81 | 855.11 | 750.94 | 685.41 | 635.68 | 603.23 | 583.76 |
| 135.0 | 1514.81 | 1321.31 | 1133.44 | 969.19 | 848.25 | 758.25 | 676.69 | 633.94 | 605.81 |
| 180.0 | 1447.88 | 1109.42 | 1071.68 | 917.78 | 797.01 | 716.12 | 653.85 | 616.50 | 587.70 |
| 225.0 | 1122.36 | 1103.34 | 965.36 | 824.01 | 738.62 | 677.31 | 635.06 | 601.03 | 581.46 |
| 270.0 | 1270.69 | 1093.50 | 945.00 | 835.31 | 739.69 | 680.06 | 635.06 | 604.69 | 584.44 |
| 315.0 | 1093.22 | 930.88 | 839.31 | 744.53 | 672.86 | 639.06 | 607.56 | 582.30 | 567.62 |
| 360.0 | 1163.25 | 1018.13 | 882.00 | 774.56 | 704.81 | 657.56 | 619.31 | 597.94 | 580.50 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 566.44 | 554.63 | 545.06 | 534.38 | 524.25 | 496.13 | 439.88 | 378.00 | 300.38 |
| 45.0 | 567.00 | 553.50 | 544.50 | 536.06 | 524.81 | 514.69 | 482.06 | 415.13 | 352.69 |
| 90.0 | 567.34 | 552.21 | 542.48 | 533.08 | 522.45 | 512.72 | 483.98 | 426.66 | 356.29 |
| 135.0 | 582.75 | 564.19 | 550.69 | 538.31 | 527.06 | 517.50 | 509.63 | 475.31 | 411.75 |
| 180.0 | 569.14 | 549.90 | 539.21 | 530.61 | 521.83 | 512.49 | 499.67 | 455.23 | 379.80 |
| 225.0 | 564.64 | 552.04 | 541.86 | 532.69 | 523.29 | 509.40 | 461.70 | 392.40 | 322.99 |
| 270.0 | 568.13 | 553.50 | 544.50 | 535.50 | 525.38 | 510.75 | 467.44 | 398.81 | 321.75 |
| 315.0 | 555.30 | 543.32 | 534.38 | 525.88 | 513.00 | 468.06 | 407.03 | 331.48 | 253.18 |
| 360.0 | 566.44 | 554.63 | 545.06 | 534.38 | 524.25 | 496.13 | 439.88 | 378.00 | 300.38 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 290.81 | 143.10 | 80.38 | 29.59 | 18.00 | 16.09 | 13.28 | 11.08 | 9.79 |
| 45.0 | 293.06 | 214.14 | 129.21 | 69.13 | 27.11 | 17.78 | 15.47 | 13.16 | 11.25 |
| 90.0 | 288.79 | 211.89 | 145.29 | 77.40 | 29.81 | 18.00 | 16.14 | 13.05 | 11.19 |
| 135.0 | 347.63 | 284.63 | 204.86 | 136.74 | 65.81 | 27.79 | 17.61 | 15.02 | 12.60 |
| 180.0 | 312.30 | 241.09 | 165.21 | 96.81 | 49.50 | 20.08 | 16.37 | 13.73 | 11.36 |
| 225.0 | 240.86 | 163.35 | 102.49 | 51.98 | 19.46 | 16.14 | 14.29 | 11.76 | 10.52 |
| 270.0 | 286.31 | 168.81 | 103.73 | 46.58 | 18.68 | 16.59 | 14.34 | 11.93 | 10.52 |
| 315.0 | 183.32 | 109.80 | 54.00 | 20.08 | 16.71 | 14.57 | 12.38 | 10.80 | 9.62 |
| 360.0 | 290.81 | 143.10 | 80.38 | 29.59 | 18.00 | 16.09 | 13.28 | 11.08 | 9.79 |

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 | 9.45 | 9.23 | 9.00 | 8.83 | 8.66 | 8.49 | 8.38 | 8.21 | 8.16 |
| 45.0 | 9.68 | 9.39 | 9.17 | 9.00 | 8.83 | 8.66 | 8.55 | 8.44 | 8.33 |
| 90.0 | 10.13 | 9.23 | 9.06 | 8.89 | 8.72 | 8.61 | 8.49 | 8.38 | 8.27 |
| 135.0 | 10.91 | 9.45 | 9.23 | 9.06 | 8.89 | 8.72 | 8.55 | 8.44 | 8.33 |
| 180.0 | 10.41 | 9.28 | 9.06 | 8.89 | 8.78 | 8.55 | 8.44 | 8.33 | 8.21 |
| 225.0 | 9.56 | 9.34 | 9.11 | 8.94 | 8.78 | 8.61 | 8.49 | 8.33 | 8.21 |
| 270.0 | 9.68 | 9.34 | 9.11 | 8.94 | 8.78 | 8.61 | 8.49 | 8.33 | 8.21 |
| 315.0 | 9.34 | 9.06 | 8.89 | 8.72 | 8.55 | 8.44 | 8.27 | 8.16 | 8.04 |
| 360.0 | 9.45 | 9.23 | 9.00 | 8.83 | 8.66 | 8.49 | 8.38 | 8.21 | 8.16 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 8.04 | 7.93 | 7.88 | 7.82 | 7.76 | 7.71 | 7.65 | 7.59 | 7.54 |
| 45.0 | 8.21 | 8.16 | 8.04 | 7.93 | 7.88 | 7.82 | 7.76 | 7.76 | 7.65 |
| 90.0 | 8.16 | 8.04 | 7.99 | 7.93 | 7.82 | 7.82 | 7.71 | 7.65 | 7.59 |
| 135.0 | 8.21 | 8.10 | 8.04 | 7.93 | 7.88 | 7.82 | 7.76 | 7.65 | 7.65 |
| 180.0 | 8.10 | 8.04 | 7.93 | 7.88 | 7.82 | 7.76 | 7.71 | 7.65 | 7.59 |
| 225.0 | 8.10 | 7.99 | 7.93 | 7.88 | 7.82 | 7.71 | 7.71 | 7.59 | 7.59 |
| 270.0 | 8.16 | 7.99 | 7.93 | 7.88 | 7.76 | 7.71 | 7.71 | 7.59 | 7.59 |
| 315.0 | 7.99 | 7.93 | 7.88 | 7.76 | 7.71 | 7.65 | 7.59 | 7.54 | 7.54 |
| 360.0 | 8.04 | 7.93 | 7.88 | 7.82 | 7.76 | 7.71 | 7.65 | 7.59 | 7.54 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 7.48 | 7.48 | 7.43 | 7.43 | 7.37 | 7.31 | 7.31 | 7.31 | 7.31 |
| 45.0 | 7.59 | 7.59 | 7.54 | 7.54 | 7.48 | 7.43 | 7.37 | 7.37 | 7.37 |
| 90.0 | 7.59 | 7.54 | 7.48 | 7.48 | 7.43 | 7.37 | 7.37 | 7.31 | 7.31 |
| 135.0 | 7.59 | 7.54 | 7.54 | 7.48 | 7.48 | 7.43 | 7.37 | 7.37 | 7.31 |
| 180.0 | 7.54 | 7.54 | 7.48 | 7.43 | 7.43 | 7.37 | 7.37 | 7.31 | 7.31 |
| 225.0 | 7.54 | 7.54 | 7.48 | 7.43 | 7.37 | 7.37 | 7.31 | 7.31 | 7.31 |
| 270.0 | 7.54 | 7.48 | 7.48 | 7.43 | 7.43 | 7.37 | 7.37 | 7.31 | 7.31 |
| 315.0 | 7.48 | 7.43 | 7.43 | 7.43 | 7.37 | 7.31 | 7.31 | 7.26 | 7.26 |
| 360.0 | 7.48 | 7.48 | 7.43 | 7.43 | 7.37 | 7.31 | 7.31 | 7.31 | 7.31 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 7.26 | 7.20 | 7.20 | 7.20 | 7.20 | 7.14 | 7.14 | 7.14 | 7.14 |
| 45.0 | 7.37 | 7.31 | 7.26 | 7.26 | 7.20 | 7.20 | 7.20 | 7.20 | 7.14 |
| 90.0 | 7.26 | 7.26 | 7.26 | 7.20 | 7.20 | 7.14 | 7.14 | 7.14 | 7.14 |
| 135.0 | 7.31 | 7.31 | 7.26 | 7.26 | 7.20 | 7.20 | 7.20 | 7.20 | 7.14 |
| 180.0 | 7.26 | 7.26 | 7.20 | 7.20 | 7.20 | 7.14 | 7.14 | 7.14 | 7.14 |
| 225.0 | 7.26 | 7.26 | 7.20 | 7.20 | 7.20 | 7.20 | 7.14 | 7.14 | 7.14 |
| 270.0 | 7.26 | 7.26 | 7.20 | 7.20 | 7.20 | 7.20 | 7.20 | 7.14 | 7.14 |
| 315.0 | 7.26 | 7.20 | 7.20 | 7.20 | 7.14 | 7.14 | 7.09 | 7.09 | 7.09 |
| 360.0 | 7.26 | 7.20 | 7.20 | 7.20 | 7.20 | 7.14 | 7.14 | 7.14 | 7.14 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 7.09 | 7.09 | 7.09 | 7.09 | 7.03 | 7.03 | 7.09 | 7.03 | 7.03 |
| 45.0 | 7.14 | 7.14 | 7.14 | 7.14 | 7.09 | 7.09 | 7.09 | 7.09 | 7.03 |
| 90.0 | 7.14 | 7.09 | 7.14 | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 | 7.03 |
| 135.0 | 7.14 | 7.14 | 7.14 | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 |
| 180.0 | 7.14 | 7.09 | 7.09 | 7.09 | 7.09 | 7.03 | 7.09 | 7.03 | 7.03 |
| 225.0 | 7.14 | 7.14 | 7.14 | 7.14 | 7.14 | 7.09 | 7.09 | 7.09 | 7.09 |
| 270.0 | 7.14 | 7.14 | 7.14 | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 |
| 315.0 | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 | 7.09 | 7.03 | 7.03 | 7.09 |
| 360.0 | 7.09 | 7.09 | 7.09 | 7.09 | 7.03 | 7.03 | 7.09 | 7.03 | 7.03 |

Intensity data(cd)

| | |
|---------------|-------------|
| C/γ(°) | 90.0 |
| 0.0 | 7.09 |
| 45.0 | 7.09 |
| 90.0 | 7.09 |
| 135.0 | 7.09 |
| 180.0 | 7.03 |
| 225.0 | 7.09 |
| 270.0 | 7.09 |
| 315.0 | 7.09 |
| 360.0 | 7.09 |