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Nata

| | |
|-------------------------|----------------------|
| LumCAT: 2-1745-N | |
| Luminaire: 92.70.127.00 | |
| Report No: 200407-B027 | Voltage(V): 220.4000 |
| Test No: 200407-C027 | Current(A): 0.0420 |
| LampCAT: CREE CXA1512 | Power (W): 8.3300 |
| Lamp flux(lm): 932.0 | PF: 0.8970 |
| Number of Lamps: 1 | Ballast type: AC |
| Length(mm): 0 | Width(mm): 0 |
| Phm Type: C | Height(mm): 0 |

Photometric Results

Lumens(lm): 785.23
Efficiency(%): 84.25%
Lumens(lm)/Power(W): 94.27
Central intensity(cd): 5749.884
Maximum intensity(cd): 5749.884
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=13.1
 [C90/270]Total=13.1
Field angle(10%Imax): [C0/180]Total=36.7
 [C90/270]Total=36.7
Maximum s/h(1/2): C0_180=0.23 C90_270=0.23
Maximum s/h(1/4): C0_180=0.25 C90_270=0.25
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.25%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.388%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 5749.885 | 0.000 | 0 | .000% | .000% |
| 1.0 | 5632.310 | 5.446 | 5.446 | .584% | .694% |
| 2.0 | 5307.777 | 15.702 | 21.148 | 1.685% | 2.693% |
| 3.0 | 4857.432 | 24.312 | 45.46 | 2.609% | 5.789% |
| 4.0 | 4280.929 | 30.589 | 76.049 | 3.282% | 9.685% |
| 5.0 | 3751.583 | 34.555 | 110.605 | 3.708% | 14.086% |
| 6.0 | 3152.806 | 36.284 | 146.889 | 3.893% | 18.706% |
| 7.0 | 2642.775 | 35.973 | 182.862 | 3.860% | 23.288% |
| 8.0 | 2210.818 | 34.736 | 217.598 | 3.727% | 27.711% |
| 9.0 | 1856.876 | 32.966 | 250.565 | 3.537% | 31.910% |
| 10.0 | 1554.500 | 30.872 | 281.437 | 3.312% | 35.841% |
| 11.0 | 1324.502 | 28.767 | 310.204 | 3.087% | 39.505% |
| 12.0 | 1165.339 | 27.218 | 337.421 | 2.920% | 42.971% |
| 13.0 | 1007.544 | 25.787 | 363.208 | 2.767% | 46.255% |
| 14.0 | 932.023 | 24.826 | 388.034 | 2.664% | 49.417% |
| 15.0 | 830.046 | 24.190 | 412.225 | 2.596% | 52.497% |
| 16.0 | 742.883 | 23.048 | 435.272 | 2.473% | 55.432% |
| 17.0 | 663.956 | 21.908 | 457.181 | 2.351% | 58.222% |
| 18.0 | 595.570 | 20.767 | 477.948 | 2.228% | 60.867% |
| 19.0 | 536.486 | 19.695 | 497.643 | 2.113% | 63.375% |
| 20.0 | 486.394 | 18.722 | 516.365 | 2.009% | 65.760% |
| 21.0 | 446.104 | 17.906 | 534.27 | 1.921% | 68.040% |
| 22.0 | 408.935 | 17.182 | 551.453 | 1.844% | 70.228% |
| 23.0 | 380.032 | 16.555 | 568.007 | 1.776% | 72.336% |
| 24.0 | 358.344 | 16.144 | 584.151 | 1.732% | 74.392% |
| 25.0 | 339.701 | 15.872 | 600.023 | 1.703% | 76.414% |
| 26.0 | 324.574 | 15.680 | 615.703 | 1.682% | 78.411% |
| 27.0 | 310.989 | 15.549 | 631.253 | 1.668% | 80.391% |
| 28.0 | 299.371 | 15.453 | 646.706 | 1.658% | 82.359% |
| 29.0 | 287.591 | 15.357 | 662.062 | 1.648% | 84.314% |
| 30.0 | 271.883 | 15.106 | 677.168 | 1.621% | 86.238% |
| 31.0 | 247.312 | 14.448 | 691.616 | 1.550% | 88.078% |
| 32.0 | 224.494 | 13.517 | 705.133 | 1.450% | 89.799% |
| 33.0 | 196.379 | 12.399 | 717.532 | 1.330% | 91.379% |
| 34.0 | 154.784 | 10.627 | 728.159 | 1.140% | 92.732% |
| 35.0 | 103.827 | 8.032 | 736.191 | .862% | 93.755% |
| 36.0 | 69.779 | 5.528 | 741.718 | .593% | 94.459% |
| 37.0 | 49.193 | 3.880 | 745.599 | .416% | 94.953% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 36.821 | 2.871 | 748.47 | .308% | 95.318% |
| 39.0 | 30.162 | 2.286 | 750.756 | .245% | 95.610% |
| 40.0 | 25.249 | 1.933 | 752.689 | .207% | 95.856% |
| 41.0 | 22.007 | 1.683 | 754.371 | .181% | 96.070% |
| 42.0 | 19.246 | 1.499 | 755.87 | .161% | 96.261% |
| 43.0 | 17.297 | 1.354 | 757.224 | .145% | 96.433% |
| 44.0 | 15.719 | 1.246 | 758.47 | .134% | 96.592% |
| 45.0 | 14.414 | 1.158 | 759.628 | .124% | 96.739% |
| 46.0 | 13.474 | 1.091 | 760.719 | .117% | 96.878% |
| 47.0 | 12.622 | 1.038 | 761.757 | .111% | 97.011% |
| 48.0 | 11.856 | 0.990 | 762.746 | .106% | 97.137% |
| 49.0 | 11.212 | 0.947 | 763.693 | .102% | 97.257% |
| 50.0 | 10.655 | 0.912 | 764.605 | .098% | 97.373% |
| 51.0 | 10.180 | 0.882 | 765.487 | .095% | 97.486% |
| 52.0 | 9.710 | 0.853 | 766.34 | .092% | 97.594% |
| 53.0 | 9.350 | 0.829 | 767.169 | .089% | 97.700% |
| 54.0 | 9.089 | 0.813 | 767.982 | .087% | 97.803% |
| 55.0 | 8.909 | 0.803 | 768.785 | .086% | 97.906% |
| 56.0 | 8.712 | 0.796 | 769.582 | .085% | 98.007% |
| 57.0 | 8.387 | 0.782 | 770.363 | .084% | 98.107% |
| 58.0 | 7.999 | 0.758 | 771.121 | .081% | 98.203% |
| 59.0 | 7.720 | 0.735 | 771.856 | .079% | 98.297% |
| 60.0 | 7.459 | 0.717 | 772.573 | .077% | 98.388% |
| 61.0 | 7.233 | 0.701 | 773.274 | .075% | 98.477% |
| 62.0 | 7.030 | 0.687 | 773.962 | .074% | 98.565% |
| 63.0 | 6.821 | 0.674 | 774.635 | .072% | 98.651% |
| 64.0 | 6.566 | 0.657 | 775.292 | .070% | 98.734% |
| 65.0 | 6.346 | 0.639 | 775.931 | .069% | 98.816% |
| 66.0 | 6.114 | 0.622 | 776.553 | .067% | 98.895% |
| 67.0 | 5.905 | 0.604 | 777.157 | .065% | 98.972% |
| 68.0 | 5.655 | 0.586 | 777.743 | .063% | 99.046% |
| 69.0 | 5.423 | 0.565 | 778.308 | .061% | 99.118% |
| 70.0 | 5.145 | 0.543 | 778.851 | .058% | 99.188% |
| 71.0 | 4.861 | 0.517 | 779.368 | .055% | 99.253% |
| 72.0 | 4.594 | 0.492 | 779.86 | .053% | 99.316% |
| 73.0 | 4.374 | 0.469 | 780.328 | .050% | 99.376% |
| 74.0 | 4.171 | 0.449 | 780.778 | .048% | 99.433% |
| 75.0 | 3.950 | 0.429 | 781.207 | .046% | 99.488% |

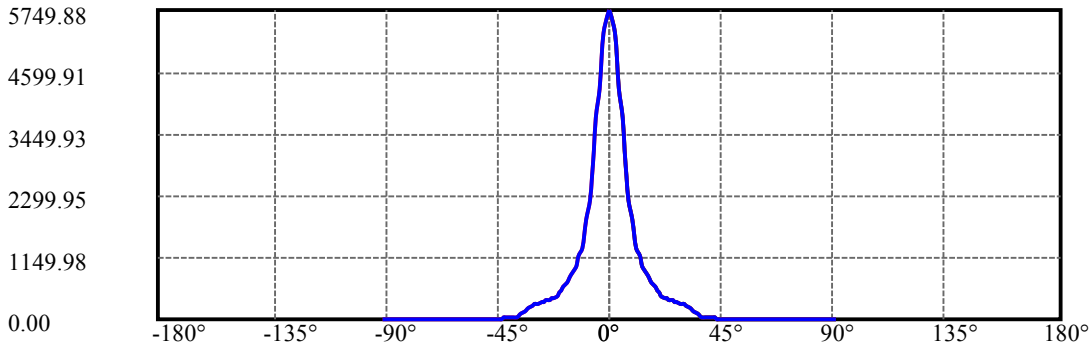
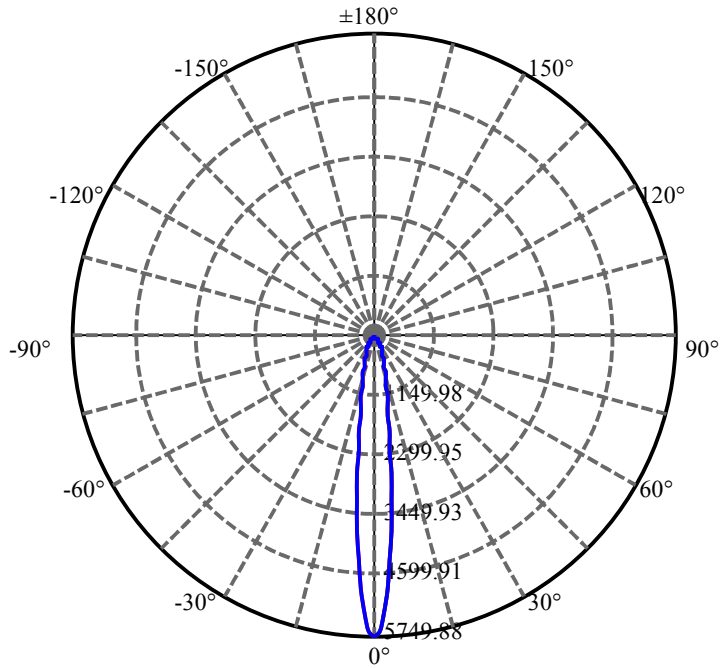
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 3.706 | 0.406 | 781.613 | .044% | 99.539% |
| 77.0 | 3.538 | 0.386 | 781.999 | .041% | 99.588% |
| 78.0 | 3.329 | 0.368 | 782.367 | .039% | 99.635% |
| 79.0 | 3.115 | 0.346 | 782.713 | .037% | 99.679% |
| 80.0 | 2.918 | 0.325 | 783.039 | .035% | 99.721% |
| 81.0 | 2.709 | 0.304 | 783.343 | .033% | 99.760% |
| 82.0 | 2.523 | 0.284 | 783.626 | .030% | 99.796% |
| 83.0 | 2.320 | 0.263 | 783.89 | .028% | 99.829% |
| 84.0 | 2.135 | 0.243 | 784.132 | .026% | 99.860% |
| 85.0 | 1.949 | 0.223 | 784.355 | .024% | 99.889% |
| 86.0 | 1.810 | 0.205 | 784.561 | .022% | 99.915% |
| 87.0 | 1.642 | 0.189 | 784.75 | .020% | 99.939% |
| 88.0 | 1.514 | 0.173 | 784.923 | .019% | 99.961% |
| 89.0 | 1.404 | 0.160 | 785.082 | .017% | 99.981% |
| 90.0 | 1.299 | 0.148 | 785.231 | .016% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|--------|---------|
| 0-30 | 677.17 | 72.66% | 86.24% |
| 0-40 | 752.69 | 80.76% | 95.86% |
| 0-60 | 772.57 | 82.89% | 98.39% |
| 0-90 | 785.08 | 84.24% | 99.98% |
| 0-120 | 785.08 | 84.24% | 99.98% |
| 0-180 | 785.23 | 84.25% | 100.00% |
| 60-90 | 13.23 | 1.42% | 1.68% |
| 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% |
| 0-26.80 | 628.18 | 67.40% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 281.44 |
| 10-20 | 234.93 |
| 20-30 | 160.80 |
| 30-40 | 75.52 |
| 40-50 | 11.92 |
| 50-60 | 7.97 |
| 60-70 | 6.28 |
| 70-80 | 4.19 |
| 80-90 | 2.04 |
| 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 |



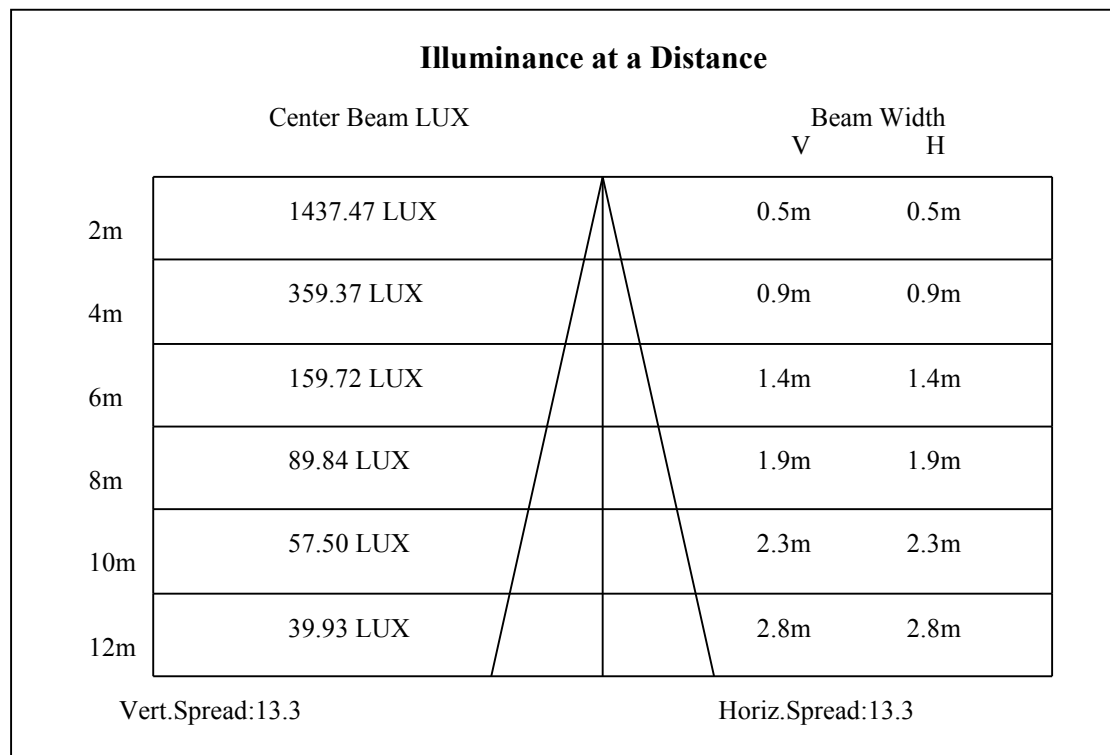
C0(Max): —————

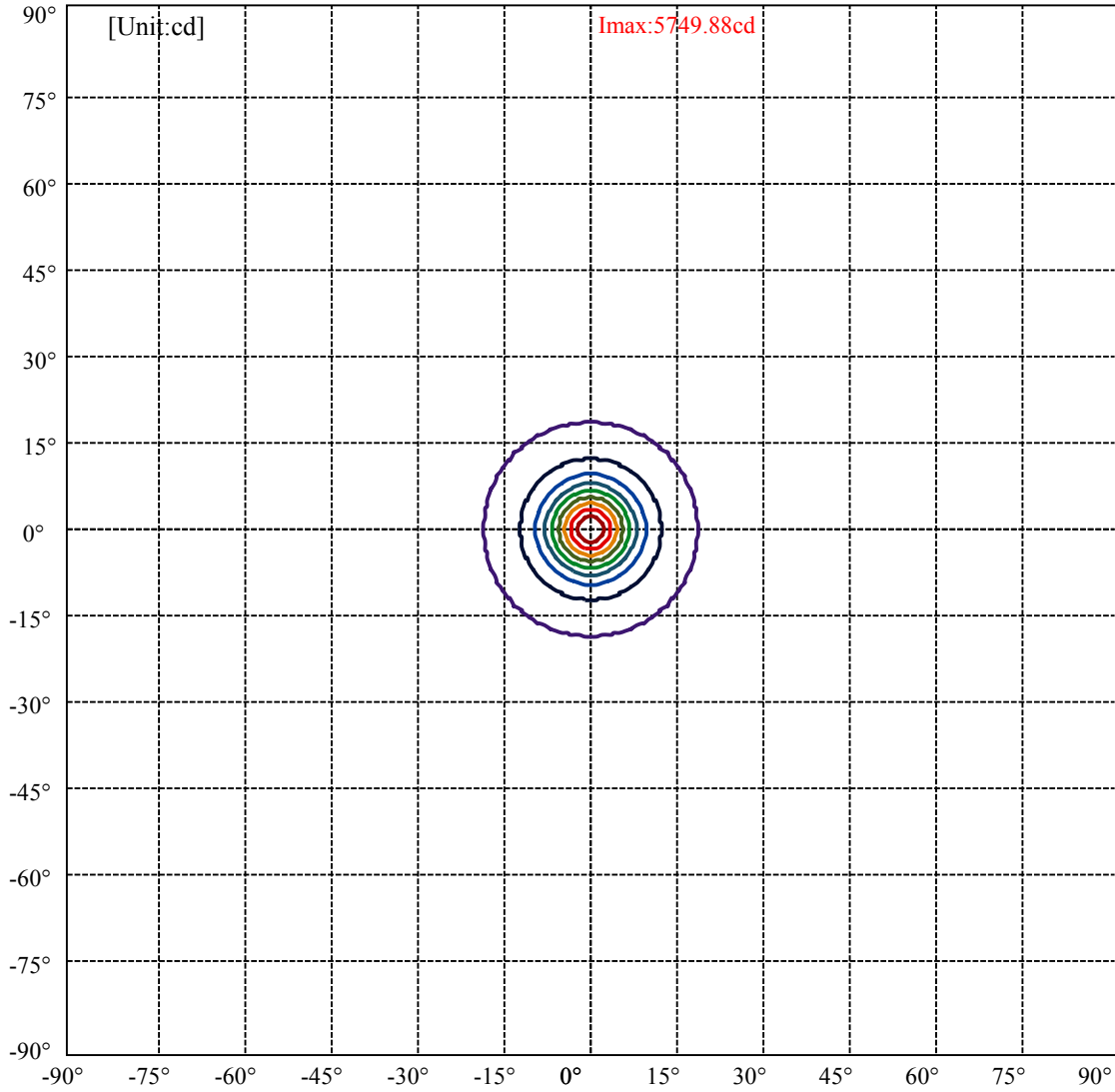
C0/C180: —————

C90/C270: —————

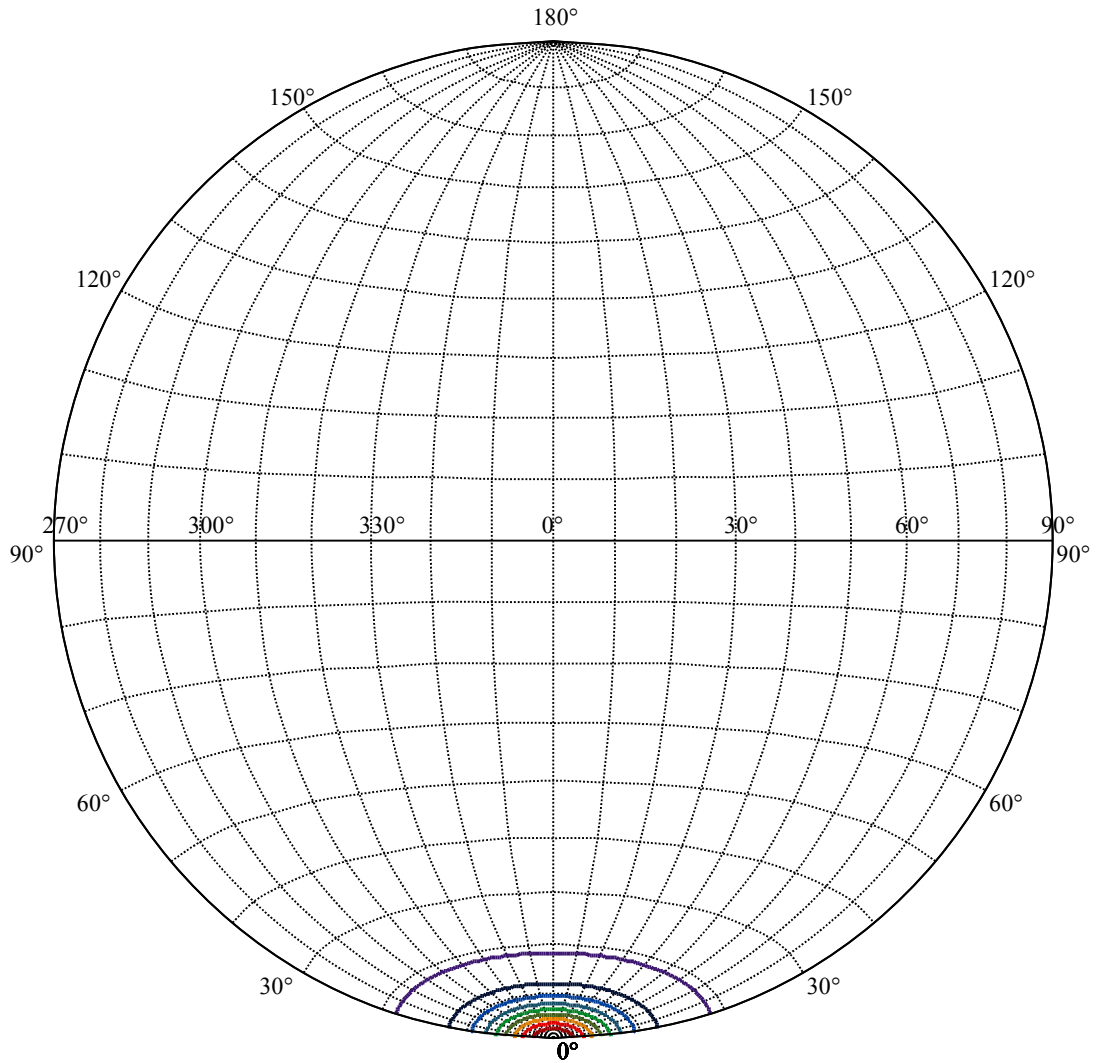
Field angle(10%Imax):C0/180Left:18.3 Right:18.3
:C90/270Left:18.3 Right:18.3

Beam Angle(50%Imax):C0/180Left:6.5 Right:6.5
:C90/270Left:6.5 Right:6.5





| | |
|-------------------|---|
| (10%Imax) 574.988 | — |
| (20%Imax) 1149.98 | — |
| (30%Imax) 1724.97 | — |
| (40%Imax) 2299.95 | — |
| (50%Imax) 2874.94 | — |
| (60%Imax) 3449.93 | — |
| (70%Imax) 4024.92 | — |
| (80%Imax) 4599.91 | — |
| (90%Imax) 5174.9 | — |



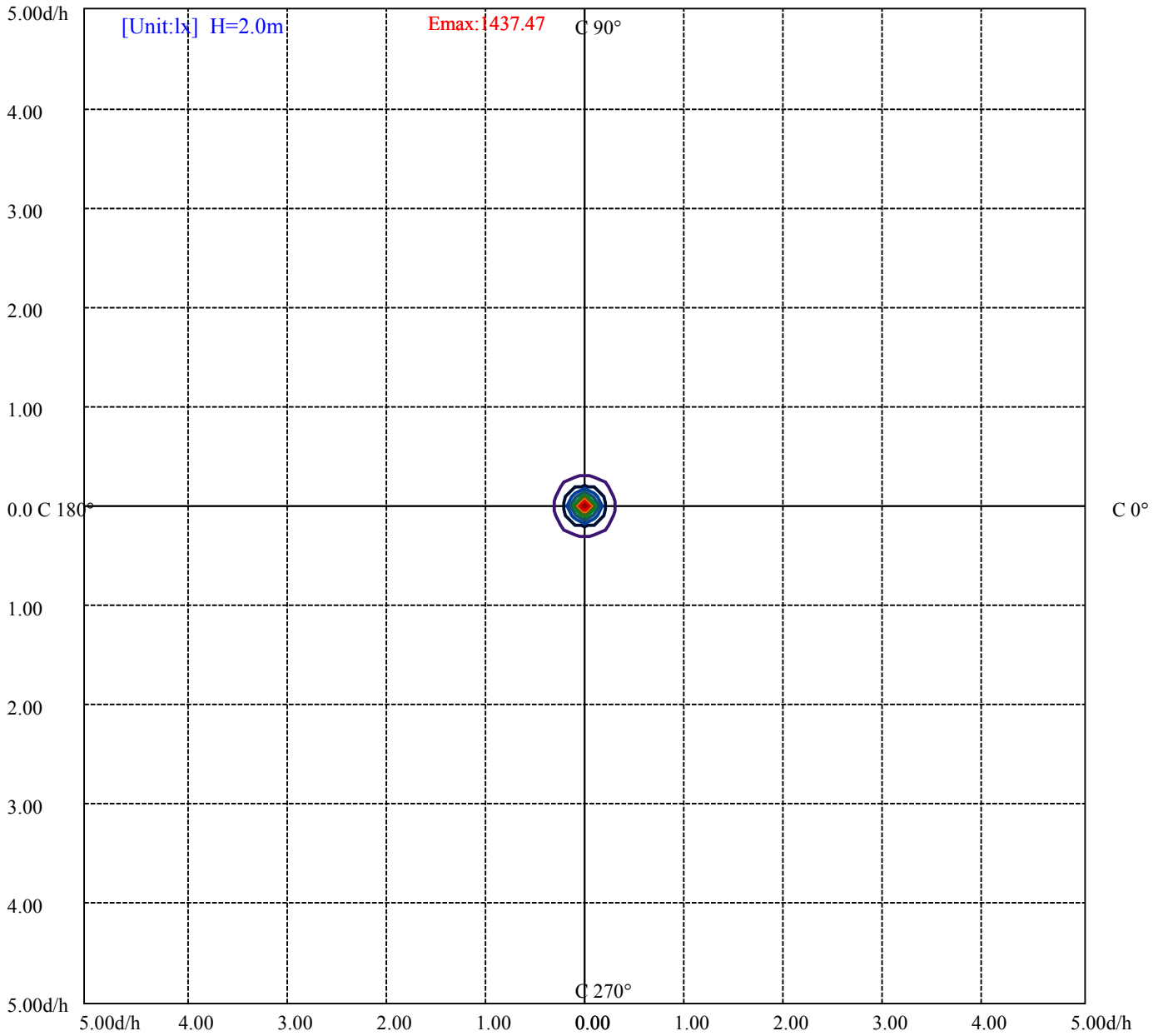
House

[Unit:cd]

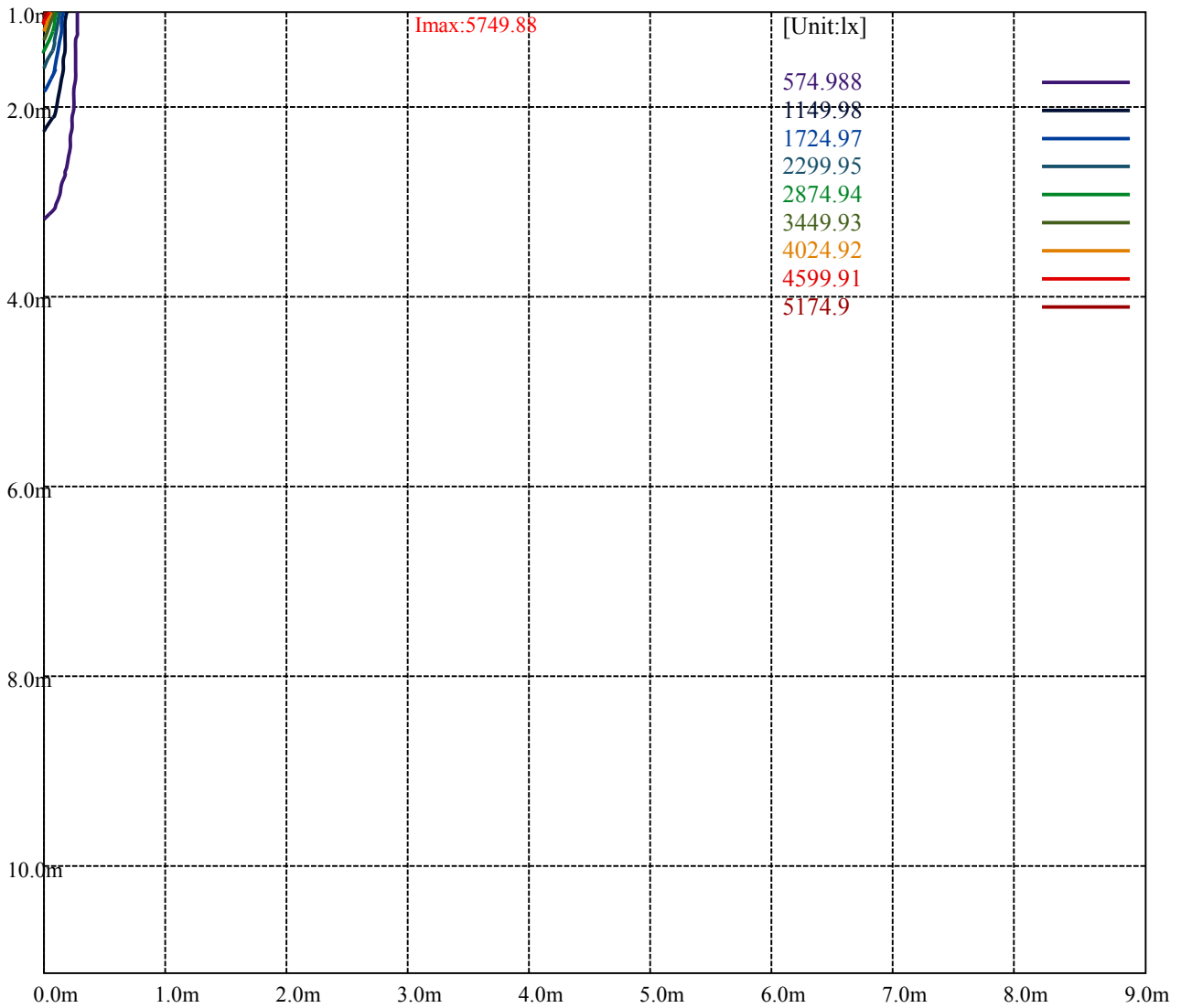
Road

Imax:5749.88

| | |
|-------------------|---|
| (10%Imax) 574.988 | — |
| (20%Imax) 1149.98 | — |
| (30%Imax) 1724.97 | — |
| (40%Imax) 2299.95 | — |
| (50%Imax) 2874.94 | — |
| (60%Imax) 3449.93 | — |
| (70%Imax) 4024.92 | — |
| (80%Imax) 4599.91 | — |
| (90%Imax) 5174.9 | — |



| | |
|--------------------|---|
| (10%Emax) 143.7467 | — |
| (20%Emax) 287.4925 | — |
| (30%Emax) 431.24 | — |
| (40%Emax) 574.9875 | — |
| (50%Emax) 718.7325 | — |
| (60%Emax) 862.48 | — |
| (70%Emax) 1006.227 | — |
| (80%Emax) 1149.973 | — |
| (90%Emax) 1293.72 | — |



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 |

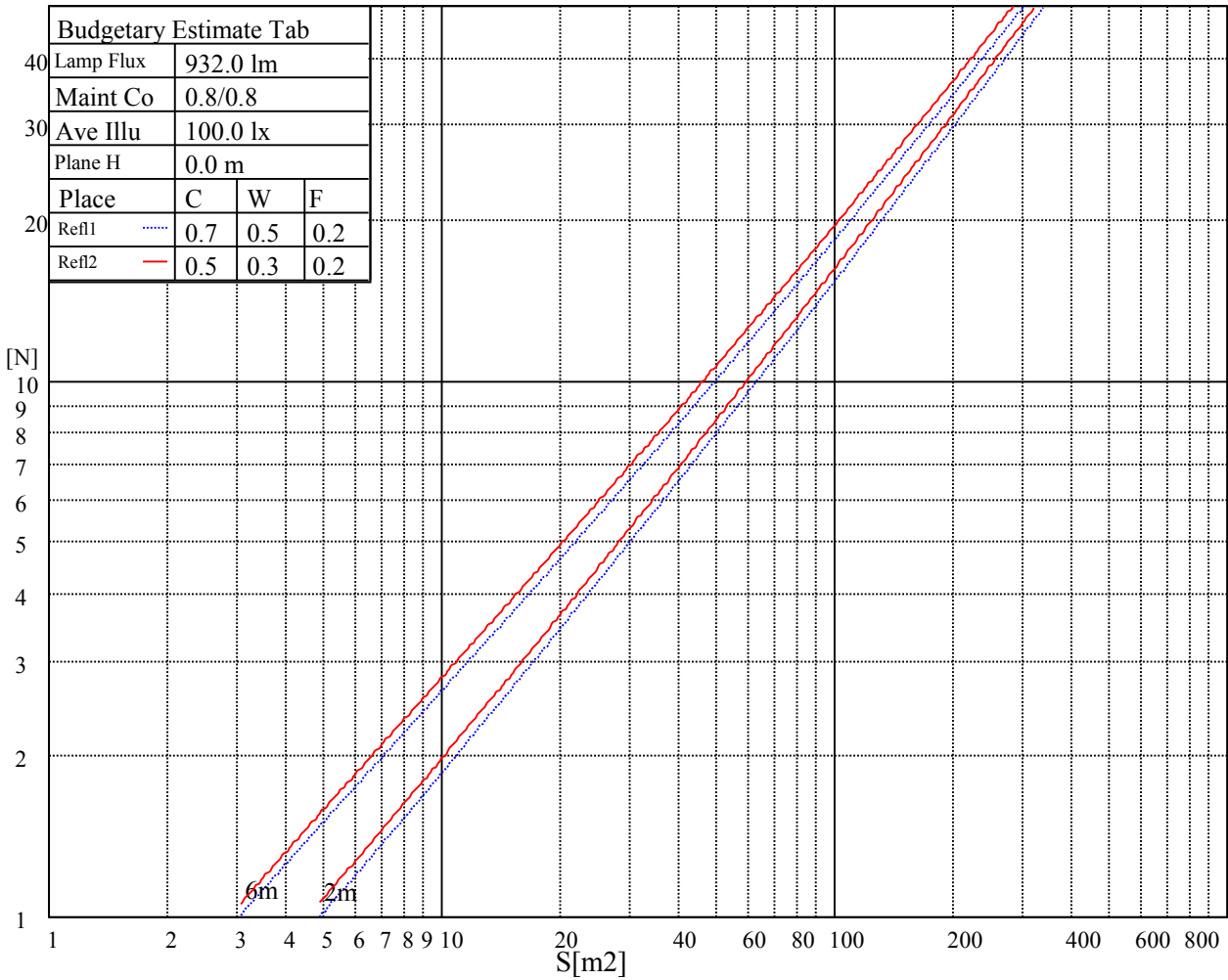
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Glare Table

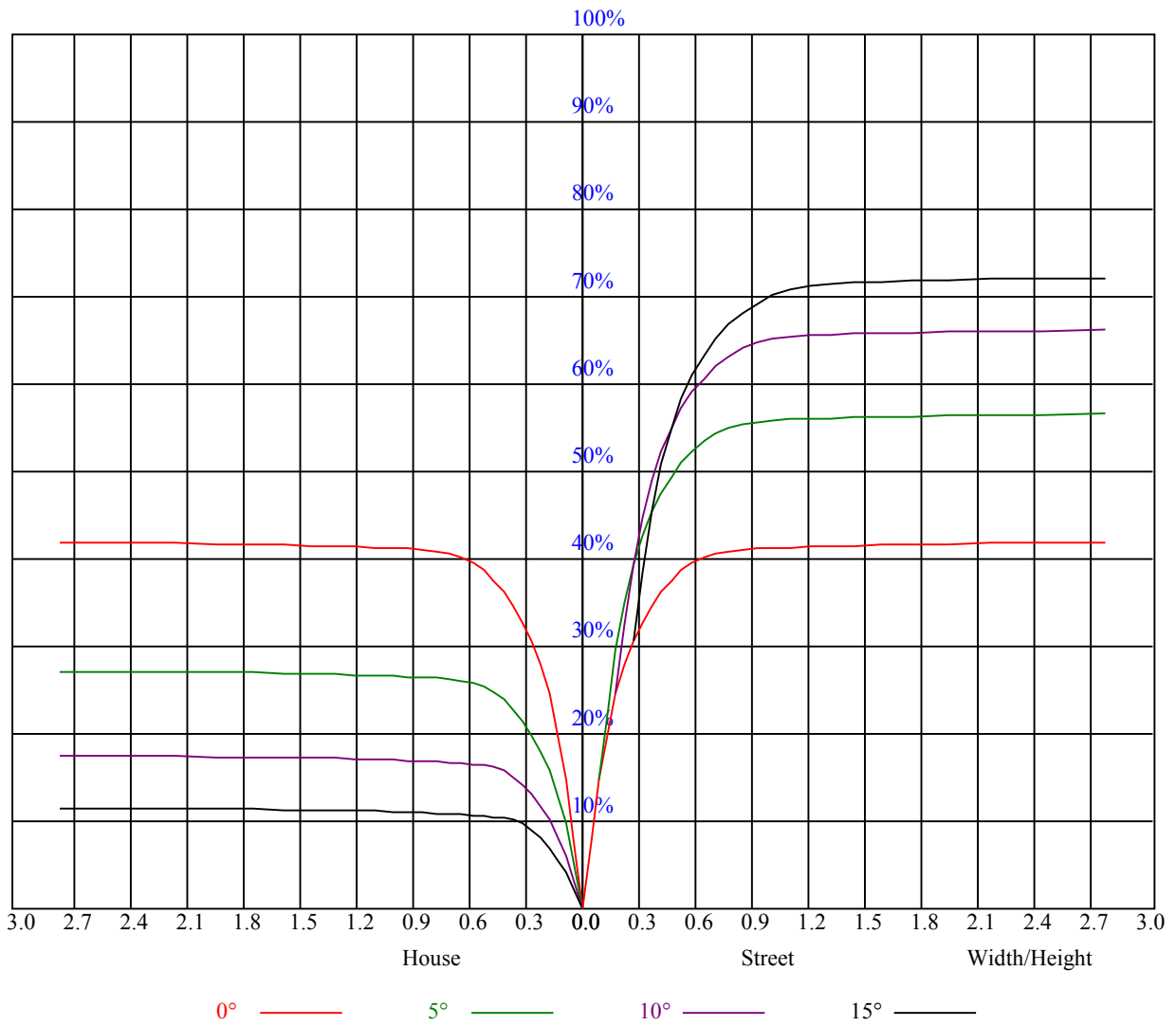
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 |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





| 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 | 1.00 | 1.00 | 1.00 | 0.98 | 0.98 | 0.98 | 0.94 | 0.94 | 0.94 | 0.90 | 0.90 | 0.90 | 0.86 | 0.86 | 0.86 | 0.84 |
| 1 | 0.94 | 0.93 | 0.91 | 0.93 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.83 | 0.82 | 0.80 |
| 2 | 0.89 | 0.87 | 0.84 | 0.88 | 0.85 | 0.83 | 0.85 | 0.83 | 0.81 | 0.83 | 0.81 | 0.80 | 0.81 | 0.79 | 0.78 | 0.77 |
| 3 | 0.85 | 0.82 | 0.79 | 0.84 | 0.81 | 0.78 | 0.82 | 0.79 | 0.77 | 0.80 | 0.78 | 0.76 | 0.78 | 0.76 | 0.75 | 0.74 |
| 4 | 0.81 | 0.77 | 0.75 | 0.80 | 0.77 | 0.74 | 0.79 | 0.76 | 0.73 | 0.77 | 0.74 | 0.72 | 0.75 | 0.73 | 0.72 | 0.71 |
| 5 | 0.78 | 0.74 | 0.71 | 0.77 | 0.73 | 0.71 | 0.76 | 0.72 | 0.70 | 0.74 | 0.72 | 0.69 | 0.73 | 0.71 | 0.69 | 0.68 |
| 6 | 0.75 | 0.71 | 0.68 | 0.74 | 0.70 | 0.68 | 0.73 | 0.70 | 0.67 | 0.72 | 0.69 | 0.67 | 0.71 | 0.68 | 0.66 | 0.65 |
| 7 | 0.72 | 0.68 | 0.65 | 0.71 | 0.68 | 0.65 | 0.70 | 0.67 | 0.65 | 0.69 | 0.67 | 0.64 | 0.69 | 0.66 | 0.64 | 0.63 |
| 8 | 0.69 | 0.66 | 0.63 | 0.69 | 0.65 | 0.63 | 0.68 | 0.65 | 0.62 | 0.67 | 0.64 | 0.62 | 0.67 | 0.64 | 0.62 | 0.61 |
| 9 | 0.67 | 0.63 | 0.61 | 0.67 | 0.63 | 0.61 | 0.66 | 0.63 | 0.60 | 0.65 | 0.62 | 0.60 | 0.65 | 0.62 | 0.60 | 0.59 |
| 10 | 0.65 | 0.61 | 0.59 | 0.65 | 0.61 | 0.59 | 0.64 | 0.61 | 0.59 | 0.64 | 0.61 | 0.58 | 0.63 | 0.60 | 0.58 | 0.57 |



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 | 5821.81 | 5716.01 | 5382.37 | 4910.91 | 4354.07 | 3766.14 | 3199.56 | 2667.77 | 2205.60 |
| 45.0 | 5691.88 | 5769.84 | 5602.79 | 5404.18 | 4747.11 | 4412.08 | 3819.51 | 3243.18 | 2713.25 |
| 90.0 | 5678.42 | 5386.55 | 4939.68 | 4398.62 | 3821.36 | 3260.81 | 2744.34 | 2280.77 | 1900.26 |
| 135.0 | 5807.42 | 5684.92 | 5351.74 | 4873.33 | 4309.52 | 3710.46 | 3127.63 | 2601.42 | 2160.12 |
| 180.0 | 5821.81 | 5678.42 | 5329.01 | 4836.67 | 4263.59 | 3907.21 | 3092.37 | 2559.19 | 2272.42 |
| 225.0 | 5691.88 | 5396.29 | 4953.60 | 4410.22 | 3825.07 | 3232.04 | 2684.94 | 2200.03 | 1800.96 |
| 270.0 | 5678.42 | 5750.81 | 5584.22 | 5207.43 | 4698.38 | 4112.77 | 3513.24 | 3055.24 | 2527.17 |
| 315.0 | 5807.42 | 5675.64 | 5318.80 | 4818.11 | 4228.32 | 3611.15 | 3040.86 | 2534.60 | 2106.76 |
| 360.0 | 5821.81 | 5716.01 | 5382.37 | 4910.91 | 4354.07 | 3766.14 | 3199.56 | 2667.77 | 2205.60 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 1829.27 | 1536.93 | 1317.44 | 1146.21 | 901.52 | 901.52 | 820.27 | 732.38 | 659.11 |
| 45.0 | 2254.32 | 1870.10 | 1574.51 | 1350.38 | 1173.12 | 1030.20 | 904.91 | 798.18 | 708.16 |
| 90.0 | 1610.71 | 1392.61 | 1222.31 | 1032.52 | 909.27 | 909.27 | 813.17 | 726.58 | 650.53 |
| 135.0 | 1940.17 | 1553.17 | 1353.17 | 1252.47 | 1106.77 | 980.55 | 869.65 | 770.81 | 684.96 |
| 180.0 | 1873.35 | 1569.87 | 1348.53 | 1180.08 | 1043.66 | 928.11 | 826.95 | 736.93 | 658.97 |
| 225.0 | 1497.48 | 1271.50 | 920.13 | 920.13 | 876.33 | 778.42 | 666.40 | 625.70 | 562.50 |
| 270.0 | 2076.60 | 1725.79 | 1465.93 | 1274.28 | 1124.40 | 1002.82 | 897.02 | 802.82 | 716.98 |
| 315.0 | 1773.12 | 1516.04 | 1394.00 | 1166.63 | 925.28 | 925.28 | 841.99 | 749.65 | 670.44 |
| 360.0 | 1829.27 | 1536.93 | 1317.44 | 1146.21 | 901.52 | 901.52 | 820.27 | 732.38 | 659.11 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 598.05 | 545.42 | 499.90 | 460.27 | 426.31 | 397.26 | 372.85 | 352.53 | 334.06 |
| 45.0 | 629.74 | 563.85 | 509.56 | 480.79 | 428.35 | 397.72 | 381.95 | 350.39 | 339.72 |
| 90.0 | 585.01 | 528.95 | 482.73 | 443.80 | 411.41 | 385.10 | 363.43 | 344.73 | 328.77 |
| 135.0 | 611.64 | 549.46 | 497.49 | 453.87 | 417.68 | 386.59 | 361.99 | 343.90 | 328.58 |
| 180.0 | 592.62 | 536.93 | 491.46 | 454.34 | 423.24 | 397.72 | 376.38 | 358.28 | 341.11 |
| 225.0 | 503.38 | 447.37 | 396.33 | 351.46 | 314.80 | 287.05 | 268.72 | 256.47 | 247.52 |
| 270.0 | 641.34 | 575.91 | 520.23 | 472.90 | 432.53 | 399.58 | 374.06 | 354.57 | 341.11 |
| 315.0 | 602.78 | 543.99 | 493.45 | 451.41 | 417.17 | 389.23 | 367.38 | 356.75 | 335.73 |
| 360.0 | 598.05 | 545.42 | 499.90 | 460.27 | 426.31 | 397.26 | 372.85 | 352.53 | 334.06 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 317.86 | 305.33 | 294.38 | 280.93 | 254.75 | 232.90 | 175.08 | 149.60 | 109.33 |
| 45.0 | 323.48 | 311.41 | 301.67 | 291.46 | 279.86 | 261.30 | 235.31 | 235.31 | 139.81 |
| 90.0 | 314.66 | 301.30 | 287.14 | 270.21 | 230.21 | 197.96 | 154.99 | 104.87 | 76.15 |
| 135.0 | 314.66 | 301.67 | 288.68 | 274.75 | 251.09 | 238.10 | 238.10 | 144.64 | 105.85 |
| 180.0 | 324.87 | 309.56 | 297.03 | 280.79 | 250.16 | 236.70 | 236.70 | 139.95 | 101.44 |
| 225.0 | 238.88 | 229.09 | 214.57 | 192.20 | 164.64 | 146.73 | 105.01 | 88.91 | 66.26 |
| 270.0 | 330.44 | 320.69 | 314.20 | 297.49 | 286.82 | 257.58 | 242.74 | 234.38 | 131.41 |
| 315.0 | 323.06 | 315.91 | 303.06 | 287.24 | 260.97 | 224.68 | 183.11 | 140.60 | 100.37 |
| 360.0 | 317.86 | 305.33 | 294.38 | 280.93 | 254.75 | 232.90 | 175.08 | 149.60 | 109.33 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 61.81 | 48.72 | 36.84 | 30.44 | 25.06 | 21.48 | 18.98 | 16.94 | 15.27 |
| 45.0 | 99.44 | 65.43 | 43.85 | 34.06 | 28.21 | 25.15 | 21.53 | 19.16 | 17.26 |
| 90.0 | 49.09 | 34.80 | 28.35 | 23.39 | 20.05 | 17.73 | 15.87 | 14.43 | 13.36 |
| 135.0 | 72.06 | 48.17 | 35.54 | 29.61 | 24.55 | 21.02 | 18.56 | 16.57 | 15.03 |
| 180.0 | 69.28 | 47.70 | 36.75 | 30.67 | 25.61 | 23.25 | 19.44 | 17.35 | 16.33 |
| 225.0 | 46.54 | 41.48 | 34.57 | 29.23 | 25.34 | 22.32 | 20.05 | 18.24 | 16.71 |
| 270.0 | 92.99 | 61.99 | 42.97 | 34.25 | 28.54 | 23.85 | 20.70 | 18.84 | 16.57 |
| 315.0 | 67.01 | 45.24 | 35.68 | 29.65 | 24.64 | 21.25 | 18.84 | 16.84 | 15.22 |
| 360.0 | 61.81 | 48.72 | 36.84 | 30.44 | 25.06 | 21.48 | 18.98 | 16.94 | 15.27 |

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 | 14.01 | 13.04 | 12.20 | 11.51 | 10.90 | 10.35 | 9.84 | 9.37 | 9.19 |
| 45.0 | 15.68 | 14.52 | 13.55 | 12.81 | 12.16 | 11.55 | 11.00 | 10.58 | 10.07 |
| 90.0 | 12.30 | 11.55 | 10.95 | 10.39 | 9.84 | 9.33 | 9.10 | 8.63 | 8.35 |
| 135.0 | 14.20 | 12.71 | 12.20 | 11.46 | 10.67 | 10.26 | 9.79 | 9.28 | 8.82 |
| 180.0 | 14.52 | 13.87 | 12.95 | 12.16 | 11.51 | 11.04 | 10.58 | 10.07 | 9.70 |
| 225.0 | 15.50 | 14.52 | 13.50 | 12.62 | 11.88 | 11.28 | 10.86 | 10.39 | 10.07 |
| 270.0 | 15.13 | 14.20 | 13.09 | 12.44 | 11.69 | 11.04 | 10.44 | 9.98 | 9.61 |
| 315.0 | 13.97 | 13.36 | 12.53 | 11.46 | 11.04 | 10.39 | 9.84 | 9.37 | 9.00 |
| 360.0 | 14.01 | 13.04 | 12.20 | 11.51 | 10.90 | 10.35 | 9.84 | 9.37 | 9.19 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 8.82 | 8.68 | 8.54 | 7.93 | 7.80 | 7.52 | 7.29 | 7.05 | 6.82 |
| 45.0 | 9.70 | 9.47 | 9.42 | 9.28 | 8.72 | 8.17 | 7.93 | 7.56 | 7.42 |
| 90.0 | 8.26 | 8.03 | 7.84 | 7.47 | 7.24 | 7.05 | 6.77 | 6.64 | 6.50 |
| 135.0 | 8.58 | 8.40 | 8.21 | 8.07 | 7.56 | 7.42 | 7.24 | 7.05 | 6.87 |
| 180.0 | 9.51 | 9.37 | 9.10 | 8.82 | 8.21 | 7.93 | 7.66 | 7.38 | 7.15 |
| 225.0 | 9.74 | 9.47 | 9.05 | 8.68 | 8.35 | 8.07 | 7.66 | 7.47 | 7.19 |
| 270.0 | 9.37 | 9.23 | 9.05 | 8.77 | 8.40 | 8.07 | 7.80 | 7.52 | 7.33 |
| 315.0 | 8.72 | 8.63 | 8.49 | 8.07 | 7.70 | 7.52 | 7.33 | 7.19 | 6.96 |
| 360.0 | 8.82 | 8.68 | 8.54 | 7.93 | 7.80 | 7.52 | 7.29 | 7.05 | 6.82 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 6.54 | 6.31 | 6.13 | 5.94 | 5.71 | 5.48 | 5.29 | 4.97 | 4.69 |
| 45.0 | 7.24 | 6.96 | 6.68 | 6.45 | 6.26 | 6.03 | 5.80 | 5.52 | 5.24 |
| 90.0 | 6.36 | 6.08 | 5.94 | 5.75 | 5.61 | 5.29 | 5.06 | 4.78 | 4.55 |
| 135.0 | 6.77 | 6.54 | 6.31 | 6.03 | 5.85 | 5.66 | 5.43 | 5.06 | 4.83 |
| 180.0 | 6.96 | 6.68 | 6.50 | 6.26 | 5.99 | 5.75 | 5.48 | 5.20 | 4.92 |
| 225.0 | 6.87 | 6.50 | 6.26 | 6.03 | 5.75 | 5.48 | 5.20 | 5.01 | 4.73 |
| 270.0 | 7.10 | 6.96 | 6.59 | 6.36 | 6.22 | 5.89 | 5.75 | 5.48 | 5.10 |
| 315.0 | 6.73 | 6.50 | 6.36 | 6.08 | 5.85 | 5.66 | 5.38 | 5.15 | 4.83 |
| 360.0 | 6.54 | 6.31 | 6.13 | 5.94 | 5.71 | 5.48 | 5.29 | 4.97 | 4.69 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 4.45 | 4.32 | 4.13 | 3.85 | 3.57 | 3.48 | 3.25 | 3.11 | 2.88 |
| 45.0 | 4.97 | 4.64 | 4.45 | 4.27 | 3.99 | 3.81 | 3.57 | 3.43 | 3.20 |
| 90.0 | 4.27 | 4.04 | 3.85 | 3.71 | 3.48 | 3.39 | 3.11 | 2.92 | 2.69 |
| 135.0 | 4.59 | 4.41 | 4.18 | 3.94 | 3.71 | 3.53 | 3.29 | 3.11 | 2.88 |
| 180.0 | 4.69 | 4.45 | 4.18 | 3.99 | 3.81 | 3.57 | 3.34 | 3.11 | 2.97 |
| 225.0 | 4.45 | 4.22 | 4.04 | 3.81 | 3.57 | 3.39 | 3.20 | 2.92 | 2.83 |
| 270.0 | 4.78 | 4.55 | 4.36 | 4.08 | 3.85 | 3.67 | 3.53 | 3.25 | 3.02 |
| 315.0 | 4.55 | 4.36 | 4.18 | 3.94 | 3.67 | 3.48 | 3.34 | 3.06 | 2.88 |
| 360.0 | 4.45 | 4.32 | 4.13 | 3.85 | 3.57 | 3.48 | 3.25 | 3.11 | 2.88 |
| C/γ(°) | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
| 0.0 | 2.64 | 2.51 | 2.32 | 2.13 | 1.95 | 1.81 | 1.62 | 1.48 | 1.39 |
| 45.0 | 2.97 | 2.74 | 2.51 | 2.27 | 2.04 | 1.95 | 1.76 | 1.58 | 1.44 |
| 90.0 | 2.60 | 2.32 | 2.23 | 2.00 | 1.86 | 1.62 | 1.58 | 1.48 | 1.39 |
| 135.0 | 2.69 | 2.55 | 2.27 | 2.13 | 1.95 | 1.81 | 1.62 | 1.58 | 1.48 |
| 180.0 | 2.74 | 2.51 | 2.32 | 2.09 | 1.90 | 1.86 | 1.62 | 1.48 | 1.35 |
| 225.0 | 2.51 | 2.32 | 2.13 | 2.04 | 1.81 | 1.67 | 1.48 | 1.39 | 1.25 |
| 270.0 | 2.83 | 2.69 | 2.41 | 2.23 | 2.09 | 1.90 | 1.76 | 1.58 | 1.48 |
| 315.0 | 2.69 | 2.55 | 2.37 | 2.18 | 2.00 | 1.86 | 1.67 | 1.53 | 1.44 |
| 360.0 | 2.64 | 2.51 | 2.32 | 2.13 | 1.95 | 1.81 | 1.62 | 1.48 | 1.39 |

Intensity data(cd)

| | |
|-----------------|------|
| C/ γ (°) | 90.0 |
| 0.0 | 1.35 |
| 45.0 | 1.30 |
| 90.0 | 1.30 |
| 135.0 | 1.30 |
| 180.0 | 1.25 |
| 225.0 | 1.21 |
| 270.0 | 1.30 |
| 315.0 | 1.39 |
| 360.0 | 1.35 |