



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

| | |
|-------------------------|----------------------|
| LumCAT: 2-1745-N | |
| Luminaire: 92.70.124.00 | |
| Report No: 200406-B042 | Voltage(V): 220.4000 |
| Test No: 200406-C042 | Current(A): 0.0410 |
| LampCAT: CITIZEN CLU028 | Power (W): 8.2400 |
| Lamp flux(lm): 956.0 | PF: 0.8960 |
| Number of Lamps: 1 | Ballast type: AC |
| Length(mm): 0 | Width(mm): 0 |
| Phm Type: C | Height(mm): 0 |

Photometric Results

Lumens(lm): 805.36
Efficiency(%): 84.24%
Lumens(lm)/Power(W): 97.74
Central intensity(cd): 4851.980
Maximum intensity(cd): 4851.980
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=14.8
 [C90/270]Total=14.8
Field angle(10%Imax): [C0/180]Total=42.9
 [C90/270]Total=42.9
Maximum s/h(1/2): C0_180=0.25 C90_270=0.25
Maximum s/h(1/4): C0_180=0.29 C90_270=0.29
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.24%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.463%

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 4851.980 | 0.000 | 0 | .000% | .000% |
| 1.0 | 4782.781 | 4.610 | 4.61 | .482% | .572% |
| 2.0 | 4579.128 | 13.437 | 18.047 | 1.406% | 2.241% |
| 3.0 | 4261.323 | 21.143 | 39.191 | 2.212% | 4.866% |
| 4.0 | 3867.591 | 27.210 | 66.401 | 2.846% | 8.245% |
| 5.0 | 3447.931 | 31.471 | 97.872 | 3.292% | 12.153% |
| 6.0 | 2995.846 | 33.864 | 131.735 | 3.542% | 16.357% |
| 7.0 | 2559.945 | 34.485 | 166.22 | 3.607% | 20.639% |
| 8.0 | 2229.089 | 34.274 | 200.494 | 3.585% | 24.895% |
| 9.0 | 1895.391 | 33.427 | 233.921 | 3.497% | 29.046% |
| 10.0 | 1633.212 | 31.933 | 265.854 | 3.340% | 33.011% |
| 11.0 | 1400.122 | 30.309 | 296.163 | 3.170% | 36.774% |
| 12.0 | 1232.020 | 28.773 | 324.936 | 3.010% | 40.347% |
| 13.0 | 1062.706 | 27.233 | 352.169 | 2.849% | 43.728% |
| 14.0 | 963.809 | 25.939 | 378.108 | 2.713% | 46.949% |
| 15.0 | 867.557 | 25.142 | 403.25 | 2.630% | 50.071% |
| 16.0 | 789.930 | 24.287 | 427.536 | 2.540% | 53.087% |
| 17.0 | 720.772 | 23.526 | 451.062 | 2.461% | 56.008% |
| 18.0 | 654.235 | 22.671 | 473.733 | 2.371% | 58.823% |
| 19.0 | 595.929 | 21.750 | 495.483 | 2.275% | 61.523% |
| 20.0 | 544.590 | 20.875 | 516.358 | 2.184% | 64.115% |
| 21.0 | 500.750 | 20.073 | 536.431 | 2.100% | 66.608% |
| 22.0 | 465.518 | 19.418 | 555.848 | 2.031% | 69.019% |
| 23.0 | 431.232 | 18.816 | 574.664 | 1.968% | 71.355% |
| 24.0 | 404.046 | 18.262 | 592.927 | 1.910% | 73.623% |
| 25.0 | 381.760 | 17.868 | 610.794 | 1.869% | 75.841% |
| 26.0 | 358.895 | 17.483 | 628.277 | 1.829% | 78.012% |
| 27.0 | 341.152 | 17.127 | 645.404 | 1.792% | 80.139% |
| 28.0 | 320.409 | 16.749 | 662.153 | 1.752% | 82.219% |
| 29.0 | 303.449 | 16.322 | 678.475 | 1.707% | 84.245% |
| 30.0 | 278.333 | 15.708 | 694.183 | 1.643% | 86.196% |
| 31.0 | 252.069 | 14.760 | 708.944 | 1.544% | 88.028% |
| 32.0 | 223.740 | 13.631 | 722.575 | 1.426% | 89.721% |
| 33.0 | 189.517 | 12.175 | 734.75 | 1.274% | 91.233% |
| 34.0 | 146.722 | 10.176 | 744.925 | 1.064% | 92.496% |
| 35.0 | 115.040 | 8.129 | 753.055 | .850% | 93.506% |
| 36.0 | 91.345 | 6.571 | 759.626 | .687% | 94.322% |
| 37.0 | 61.450 | 4.983 | 764.609 | .521% | 94.940% |

| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 38.0 | 45.736 | 3.578 | 768.187 | .374% | 95.385% |
| 39.0 | 34.971 | 2.755 | 770.942 | .288% | 95.727% |
| 40.0 | 27.506 | 2.179 | 773.121 | .228% | 95.997% |
| 41.0 | 22.807 | 1.792 | 774.912 | .187% | 96.220% |
| 42.0 | 19.716 | 1.545 | 776.457 | .162% | 96.411% |
| 43.0 | 17.709 | 1.386 | 777.843 | .145% | 96.584% |
| 44.0 | 15.876 | 1.268 | 779.111 | .133% | 96.741% |
| 45.0 | 14.292 | 1.159 | 780.27 | .121% | 96.885% |
| 46.0 | 13.335 | 1.080 | 781.351 | .113% | 97.019% |
| 47.0 | 12.448 | 1.025 | 782.376 | .107% | 97.146% |
| 48.0 | 11.717 | 0.977 | 783.353 | .102% | 97.268% |
| 49.0 | 11.038 | 0.934 | 784.288 | .098% | 97.384% |
| 50.0 | 10.487 | 0.897 | 785.185 | .094% | 97.495% |
| 51.0 | 9.983 | 0.866 | 786.051 | .091% | 97.603% |
| 52.0 | 9.542 | 0.838 | 786.889 | .088% | 97.707% |
| 53.0 | 9.199 | 0.815 | 787.704 | .085% | 97.808% |
| 54.0 | 8.927 | 0.799 | 788.503 | .084% | 97.907% |
| 55.0 | 8.648 | 0.785 | 789.288 | .082% | 98.005% |
| 56.0 | 8.416 | 0.771 | 790.059 | .081% | 98.100% |
| 57.0 | 8.121 | 0.756 | 790.815 | .079% | 98.194% |
| 58.0 | 7.825 | 0.737 | 791.552 | .077% | 98.286% |
| 59.0 | 7.587 | 0.721 | 792.273 | .075% | 98.375% |
| 60.0 | 7.314 | 0.704 | 792.977 | .074% | 98.463% |
| 61.0 | 7.048 | 0.685 | 793.662 | .072% | 98.548% |
| 62.0 | 6.833 | 0.669 | 794.331 | .070% | 98.631% |
| 63.0 | 6.607 | 0.654 | 794.985 | .068% | 98.712% |
| 64.0 | 6.357 | 0.636 | 795.621 | .067% | 98.791% |
| 65.0 | 6.154 | 0.619 | 796.24 | .065% | 98.868% |
| 66.0 | 5.969 | 0.605 | 796.845 | .063% | 98.943% |
| 67.0 | 5.731 | 0.588 | 797.433 | .062% | 99.016% |
| 68.0 | 5.505 | 0.569 | 798.002 | .060% | 99.087% |
| 69.0 | 5.232 | 0.548 | 798.55 | .057% | 99.155% |
| 70.0 | 5.000 | 0.525 | 799.075 | .055% | 99.220% |
| 71.0 | 4.762 | 0.505 | 799.58 | .053% | 99.283% |
| 72.0 | 4.536 | 0.483 | 800.063 | .051% | 99.343% |
| 73.0 | 4.287 | 0.461 | 800.525 | .048% | 99.400% |
| 74.0 | 4.078 | 0.440 | 800.964 | .046% | 99.454% |
| 75.0 | 3.863 | 0.420 | 801.384 | .044% | 99.507% |

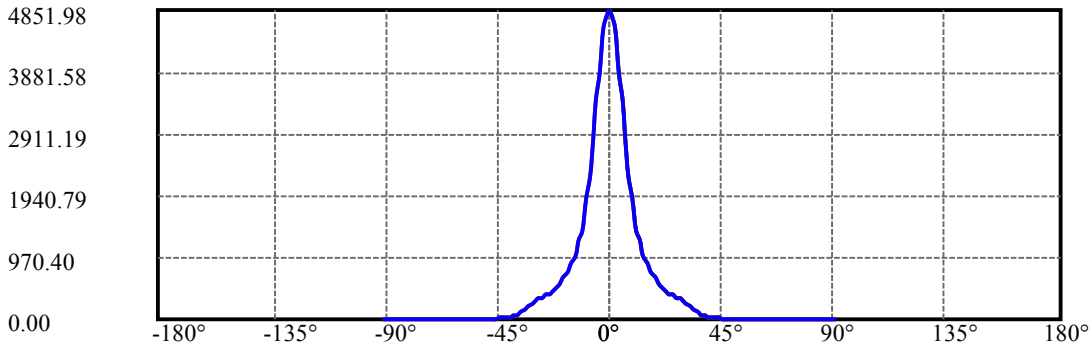
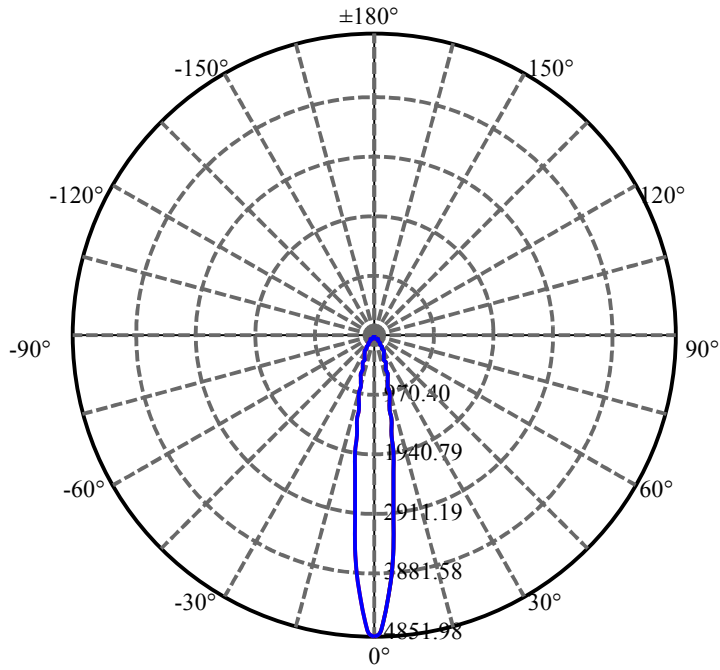
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 76.0 | 3.654 | 0.399 | 801.783 | .042% | 99.556% |
| 77.0 | 3.457 | 0.379 | 802.162 | .040% | 99.603% |
| 78.0 | 3.248 | 0.359 | 802.521 | .038% | 99.648% |
| 79.0 | 3.045 | 0.338 | 802.859 | .035% | 99.690% |
| 80.0 | 2.848 | 0.318 | 803.177 | .033% | 99.729% |
| 81.0 | 2.657 | 0.298 | 803.475 | .031% | 99.766% |
| 82.0 | 2.459 | 0.277 | 803.752 | .029% | 99.801% |
| 83.0 | 2.274 | 0.257 | 804.009 | .027% | 99.833% |
| 84.0 | 2.100 | 0.238 | 804.248 | .025% | 99.862% |
| 85.0 | 1.966 | 0.222 | 804.47 | .023% | 99.890% |
| 86.0 | 1.804 | 0.206 | 804.676 | .022% | 99.915% |
| 87.0 | 1.676 | 0.190 | 804.866 | .020% | 99.939% |
| 88.0 | 1.537 | 0.176 | 805.042 | .018% | 99.961% |
| 89.0 | 1.427 | 0.162 | 805.205 | .017% | 99.981% |
| 90.0 | 1.369 | 0.153 | 805.358 | .016% | 100.000% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|--------|---------|
| 0-30 | 694.18 | 72.61% | 86.20% |
| 0-40 | 773.12 | 80.87% | 96.00% |
| 0-60 | 792.98 | 82.95% | 98.46% |
| 0-90 | 805.20 | 84.23% | 99.98% |
| 0-120 | 805.20 | 84.23% | 99.98% |
| 0-180 | 805.36 | 84.24% | 100.00% |
| 60-90 | 12.93 | 1.35% | 1.61% |
| 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% |
| 0-26.93 | 644.29 | 67.39% | 80.00% |

ZONAL LUMEN SUMMARY

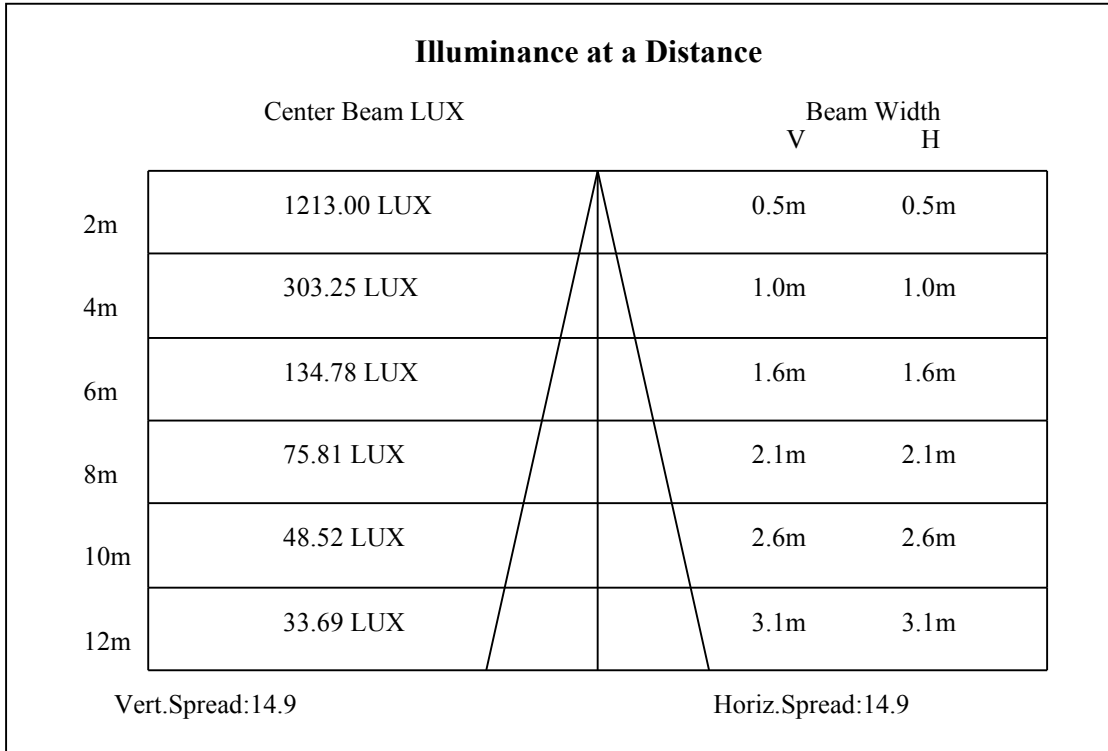
| | |
|---------|--------|
| 0-10 | 265.85 |
| 10-20 | 250.50 |
| 20-30 | 177.83 |
| 30-40 | 78.94 |
| 40-50 | 12.06 |
| 50-60 | 7.79 |
| 60-70 | 6.10 |
| 70-80 | 4.10 |
| 80-90 | 2.03 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

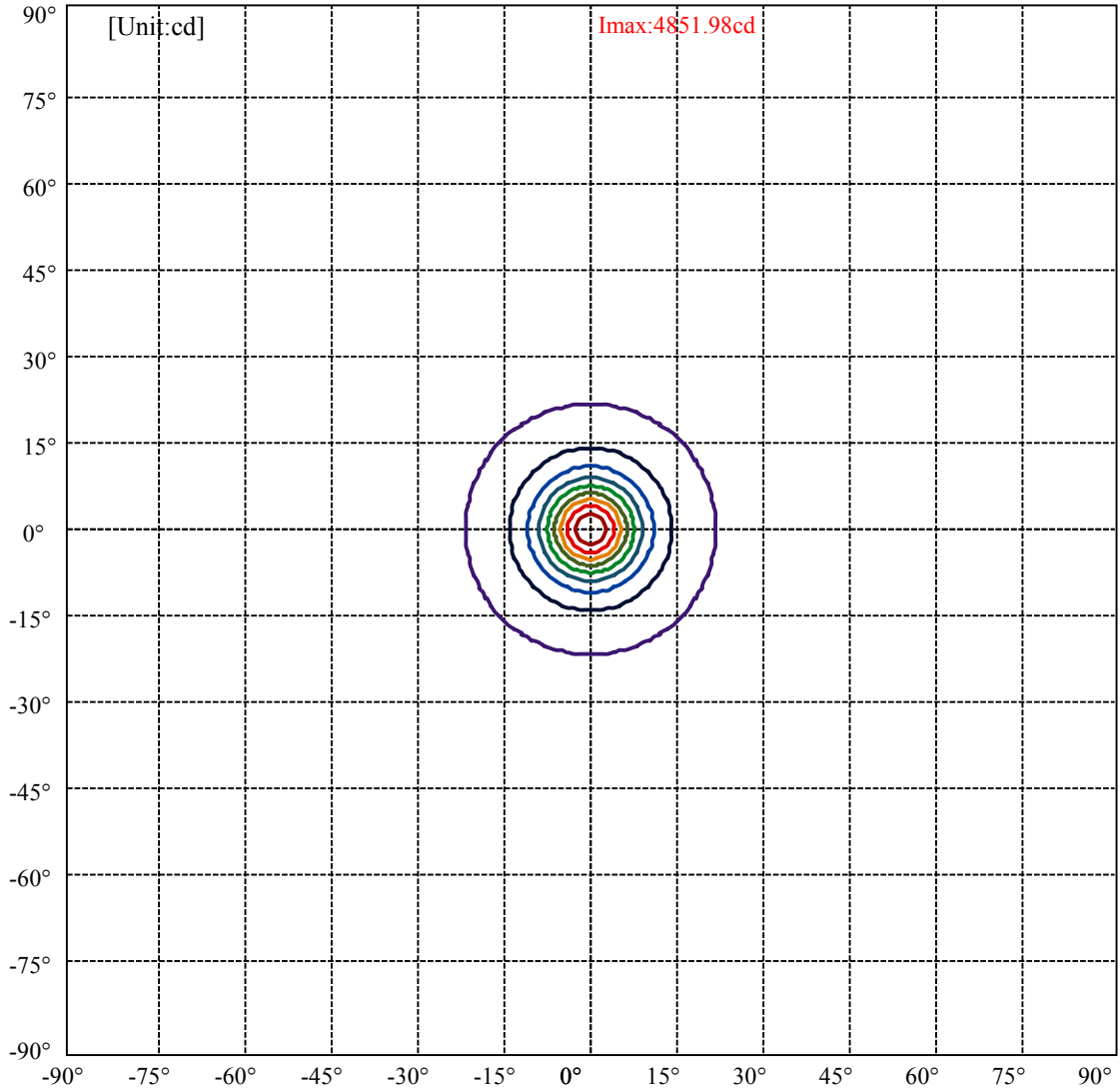


C0(Max): —————
C0/C180: —————
C90/C270: —————

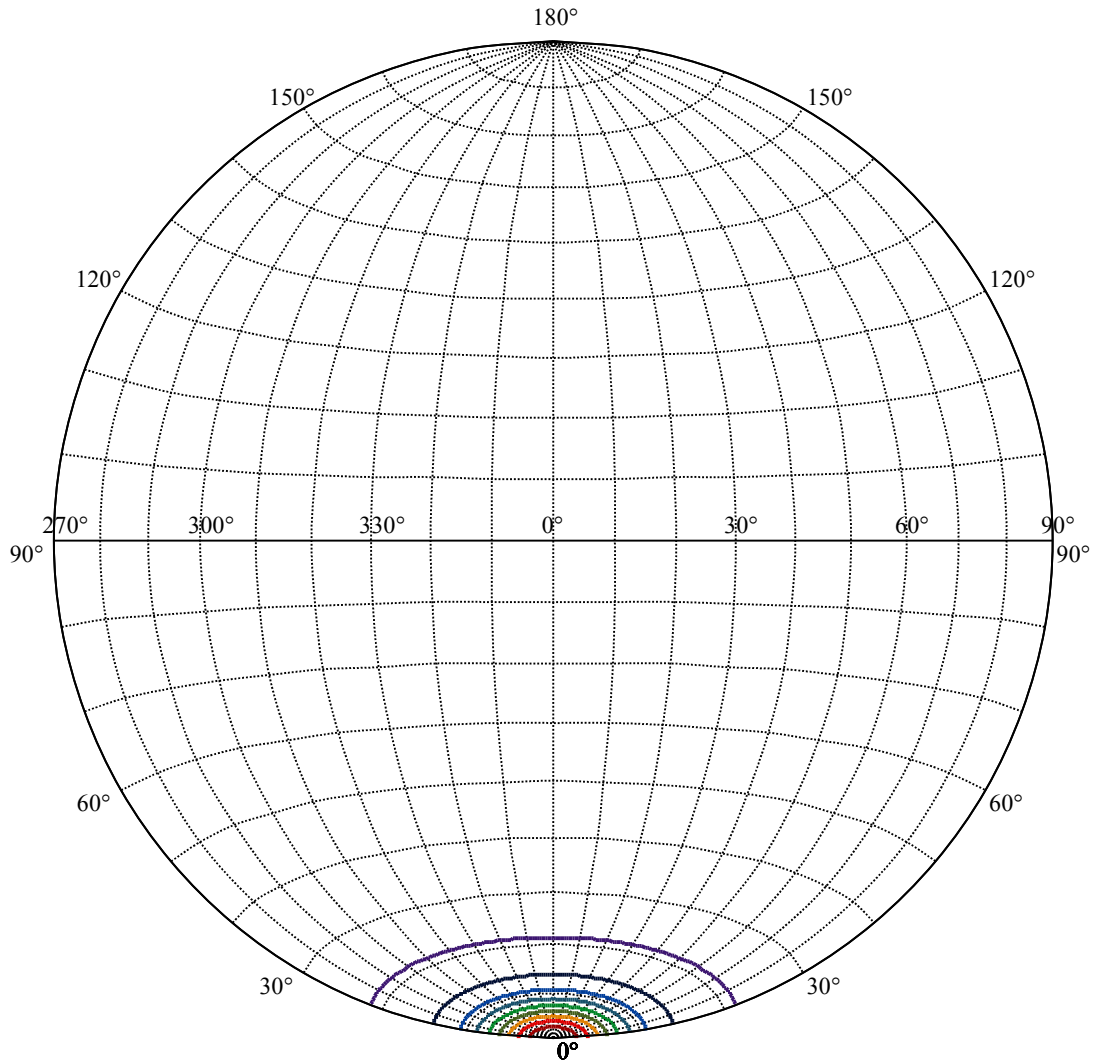
Field angle(10%Imax):C0/180Left:21.4 Right:21.4
:C90/270Left:21.4 Right:21.4

Beam Angle(50%Imax):C0/180Left:7.4 Right:7.4
:C90/270Left:7.4 Right:7.4





| | |
|-------------------|---|
| (10%Imax) 485.198 | — |
| (20%Imax) 970.396 | — |
| (30%Imax) 1455.59 | — |
| (40%Imax) 1940.79 | — |
| (50%Imax) 2425.99 | — |
| (60%Imax) 2911.19 | — |
| (70%Imax) 3396.39 | — |
| (80%Imax) 3881.58 | — |
| (90%Imax) 4366.78 | — |



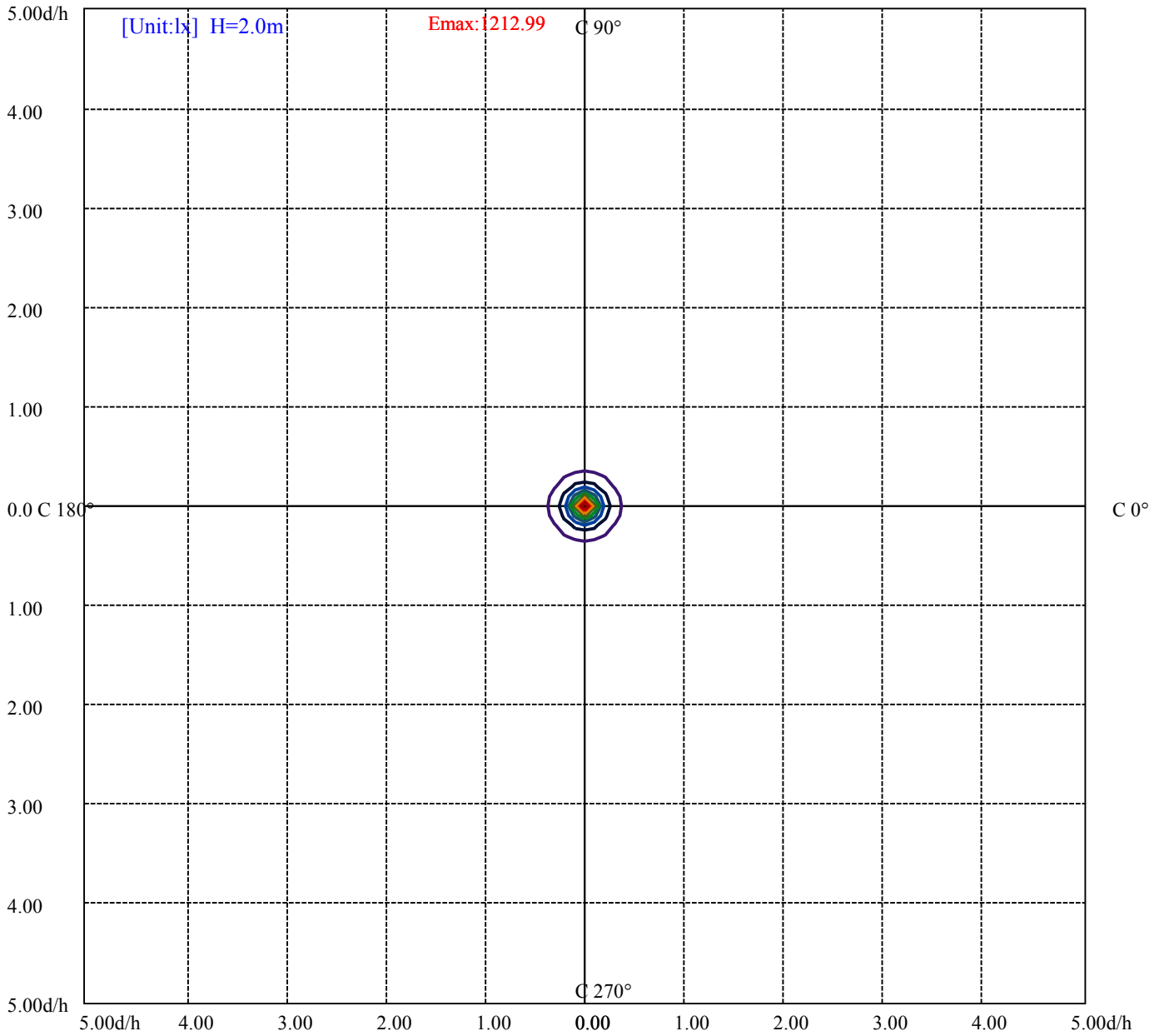
House

[Unit:cd]

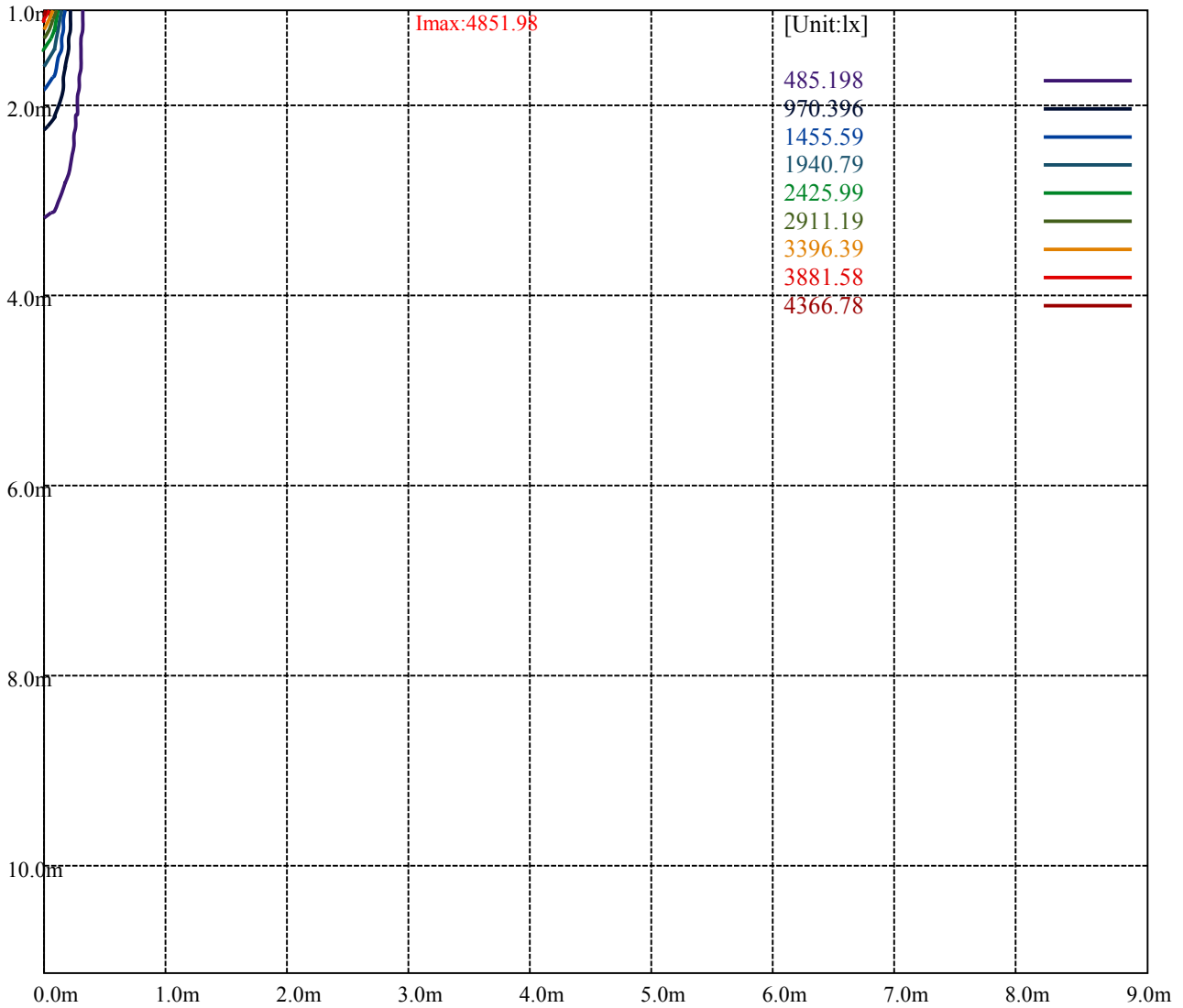
Road

Imax:4851.98

| | |
|-------------------|---|
| (10%Imax) 485.198 | — |
| (20%Imax) 970.396 | — |
| (30%Imax) 1455.59 | — |
| (40%Imax) 1940.79 | — |
| (50%Imax) 2425.99 | — |
| (60%Imax) 2911.19 | — |
| (70%Imax) 3396.39 | — |
| (80%Imax) 3881.58 | — |
| (90%Imax) 4366.78 | — |



- (10%Emax) 121.2992
- (20%Emax) 242.5985
- (30%Emax) 363.8975
- (40%Emax) 485.1975
- (50%Emax) 606.495
- (60%Emax) 727.795
- (70%Emax) 849.095
- (80%Emax) 970.395
- (90%Emax) 1091.693



Luminance Table

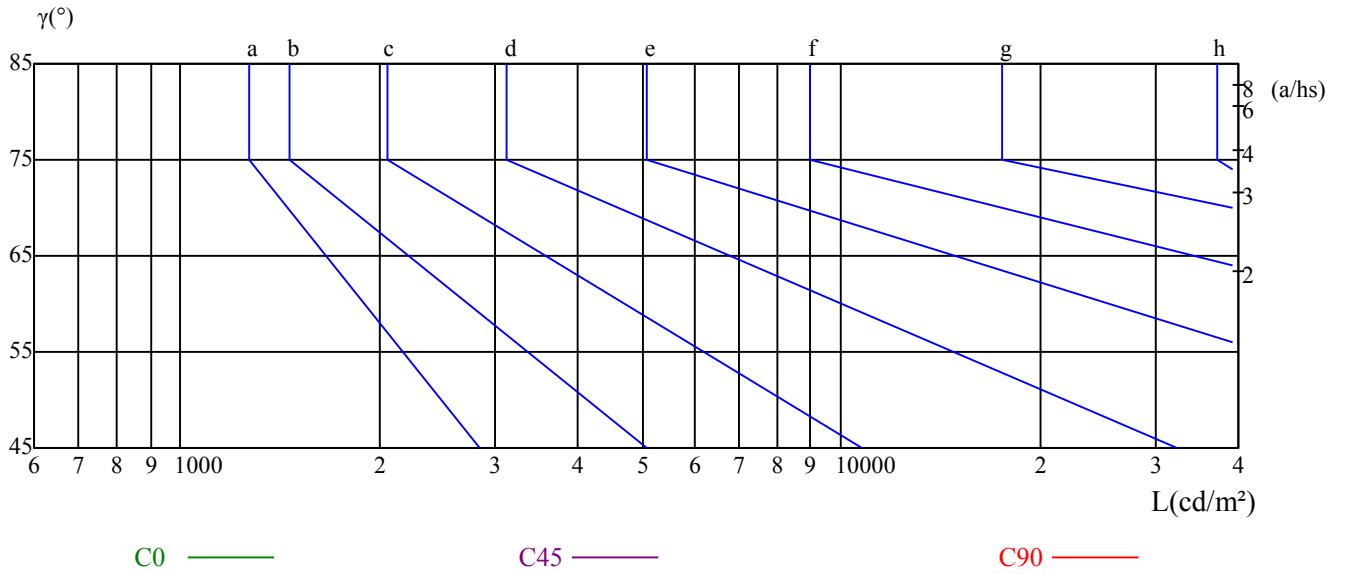
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|----|----|----|----|----|----|----|----|----|
| C0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C90 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

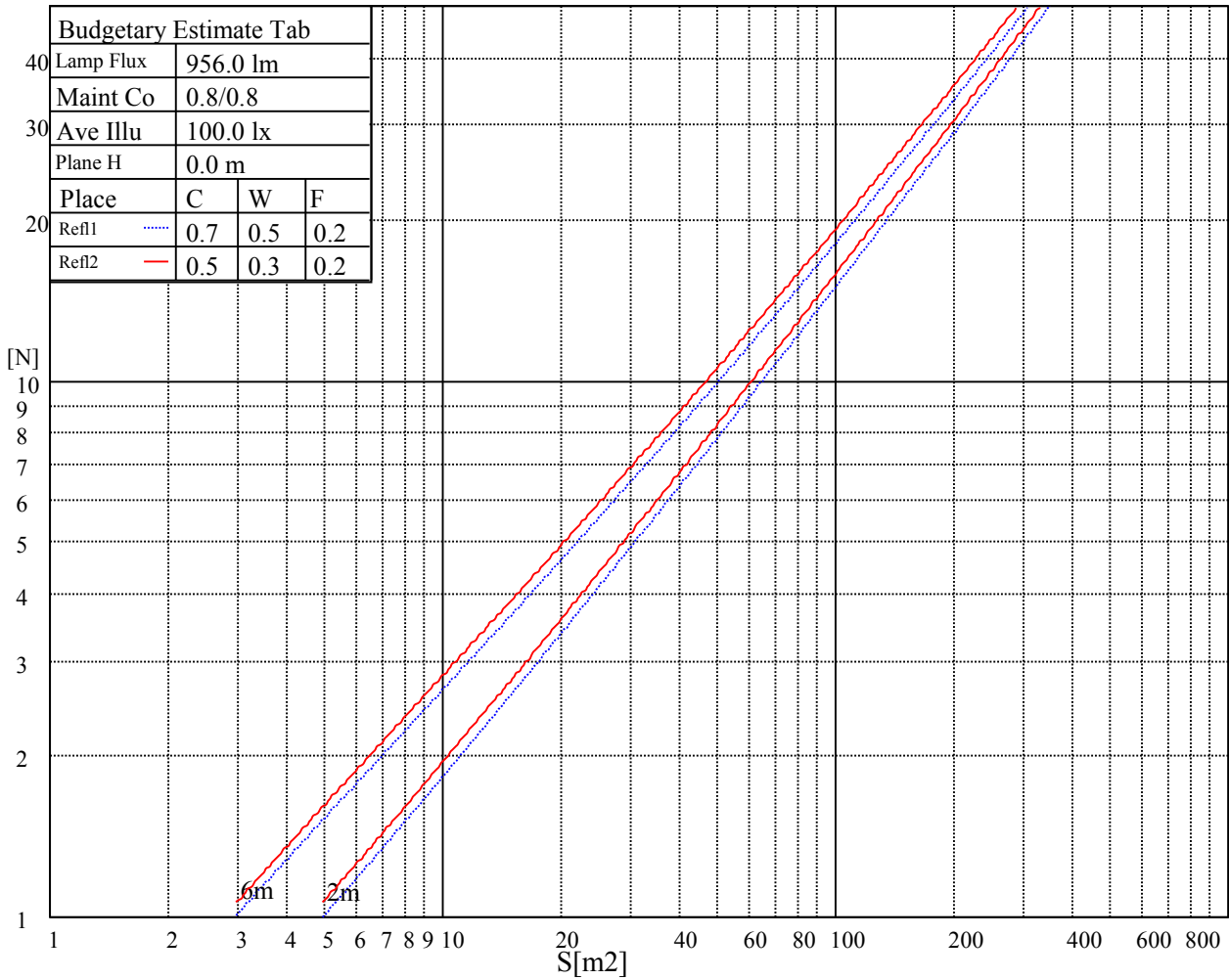
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Glare Table

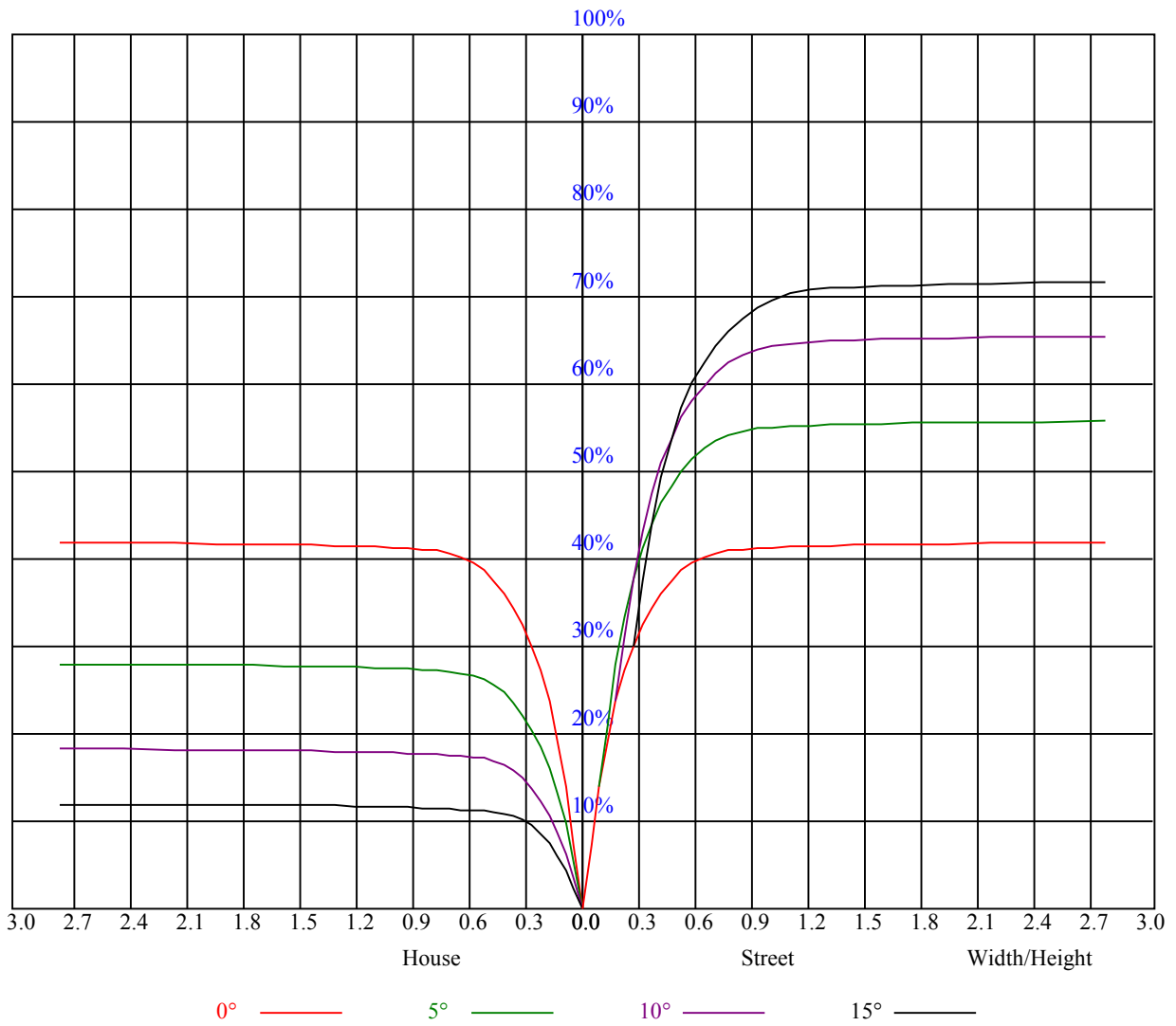
| Glare | Quality | Service Values Illuminance(lx) | | | | | | | |
|-------|---------|--------------------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.5 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 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 | 0.89 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.80 |
| 2 | 0.89 | 0.86 | 0.84 | 0.88 | 0.85 | 0.83 | 0.85 | 0.83 | 0.81 | 0.83 | 0.81 | 0.79 | 0.80 | 0.79 | 0.78 | 0.77 |
| 3 | 0.85 | 0.81 | 0.79 | 0.84 | 0.80 | 0.78 | 0.81 | 0.79 | 0.77 | 0.79 | 0.77 | 0.75 | 0.78 | 0.76 | 0.74 | 0.73 |
| 4 | 0.81 | 0.77 | 0.74 | 0.80 | 0.76 | 0.74 | 0.78 | 0.75 | 0.73 | 0.77 | 0.74 | 0.72 | 0.75 | 0.73 | 0.71 | 0.70 |
| 5 | 0.77 | 0.73 | 0.70 | 0.76 | 0.73 | 0.70 | 0.75 | 0.72 | 0.70 | 0.74 | 0.71 | 0.69 | 0.73 | 0.70 | 0.68 | 0.67 |
| 6 | 0.74 | 0.70 | 0.67 | 0.73 | 0.70 | 0.67 | 0.72 | 0.69 | 0.67 | 0.71 | 0.68 | 0.66 | 0.70 | 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 | 0.64 | 0.68 | 0.65 | 0.63 | 0.62 |
| 8 | 0.69 | 0.65 | 0.62 | 0.68 | 0.64 | 0.62 | 0.67 | 0.64 | 0.62 | 0.67 | 0.64 | 0.61 | 0.66 | 0.63 | 0.61 | 0.60 |
| 9 | 0.66 | 0.62 | 0.60 | 0.66 | 0.62 | 0.60 | 0.65 | 0.62 | 0.59 | 0.65 | 0.61 | 0.59 | 0.64 | 0.61 | 0.59 | 0.58 |
| 10 | 0.64 | 0.60 | 0.58 | 0.64 | 0.60 | 0.58 | 0.63 | 0.60 | 0.58 | 0.63 | 0.60 | 0.57 | 0.62 | 0.59 | 0.57 | 0.56 |



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 | 4873.79 | 4841.31 | 4643.63 | 4312.31 | 3890.50 | 3424.15 | 2948.05 | 2495.15 | 2098.41 |
| 45.0 | 4896.06 | 4750.82 | 4464.98 | 4064.52 | 3606.05 | 3131.34 | 2751.30 | 2238.54 | 1945.74 |
| 90.0 | 4598.62 | 4129.48 | 3609.76 | 3096.08 | 2627.40 | 2211.17 | 1857.11 | 1580.08 | 1371.73 |
| 135.0 | 5039.45 | 4684.46 | 4230.64 | 3716.49 | 3204.20 | 2722.53 | 2296.08 | 1942.03 | 1658.97 |
| 180.0 | 4873.79 | 4748.50 | 4473.79 | 4086.32 | 3641.78 | 3179.14 | 2730.42 | 2315.11 | 2089.59 |
| 225.0 | 4896.06 | 4871.01 | 4686.32 | 4380.99 | 3988.41 | 3539.69 | 3075.20 | 2628.33 | 2214.88 |
| 270.0 | 4598.62 | 4975.41 | 5226.46 | 5301.16 | 5184.23 | 5030.63 | 4489.11 | 4000.48 | 3683.54 |
| 315.0 | 5039.45 | 5261.26 | 5297.45 | 5132.72 | 4798.15 | 4344.79 | 3819.51 | 3279.83 | 2769.86 |
| 360.0 | 4873.79 | 4841.31 | 4643.63 | 4312.31 | 3890.50 | 3424.15 | 2948.05 | 2495.15 | 2098.41 |
| C/γ(°) | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 1768.94 | 1507.69 | 1306.30 | 1149.46 | 907.00 | 907.00 | 850.48 | 765.33 | 689.65 |
| 45.0 | 1640.87 | 1406.07 | 1226.02 | 1084.03 | 968.48 | 868.72 | 780.55 | 703.06 | 638.09 |
| 90.0 | 1212.10 | 1042.27 | 905.14 | 886.54 | 815.86 | 735.63 | 666.12 | 605.80 | 553.31 |
| 135.0 | 1440.41 | 1332.75 | 1129.04 | 1009.32 | 946.67 | 817.21 | 770.81 | 696.56 | 634.84 |
| 180.0 | 1775.44 | 1533.68 | 1349.46 | 1203.29 | 1078.46 | 968.48 | 872.43 | 788.44 | 715.12 |
| 225.0 | 1856.64 | 1576.37 | 1363.84 | 1197.25 | 915.03 | 894.56 | 894.56 | 803.20 | 722.87 |
| 270.0 | 3151.30 | 2655.25 | 2213.49 | 1848.29 | 1568.02 | 1358.27 | 1196.79 | 1066.86 | 958.74 |
| 315.0 | 2317.43 | 2011.63 | 1729.69 | 1477.99 | 1302.12 | 1160.59 | 908.72 | 890.20 | 853.54 |
| 360.0 | 1768.94 | 1507.69 | 1306.30 | 1149.46 | 907.00 | 907.00 | 850.48 | 765.33 | 689.65 |
| C/γ(°) | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 623.75 | 565.15 | 516.79 | 476.47 | 442.78 | 414.89 | 394.06 | 377.54 | 363.29 |
| 45.0 | 582.87 | 534.61 | 490.53 | 452.94 | 422.32 | 396.79 | 374.99 | 357.35 | 341.58 |
| 90.0 | 508.16 | 468.12 | 433.08 | 404.17 | 380.93 | 361.02 | 344.36 | 328.58 | 312.57 |
| 135.0 | 580.55 | 532.76 | 488.67 | 451.09 | 418.14 | 390.76 | 367.56 | 347.61 | 330.90 |
| 180.0 | 652.01 | 596.79 | 549.00 | 505.84 | 467.33 | 435.31 | 406.54 | 382.87 | 362.92 |
| 225.0 | 651.46 | 587.05 | 530.16 | 483.06 | 443.11 | 411.50 | 383.85 | 356.56 | 329.70 |
| 270.0 | 865.47 | 786.58 | 716.51 | 655.26 | 600.97 | 552.25 | 509.09 | 470.58 | 436.70 |
| 315.0 | 769.60 | 696.37 | 631.97 | 577.16 | 548.58 | 487.33 | 451.92 | 432.99 | 393.50 |
| 360.0 | 623.75 | 565.15 | 516.79 | 476.47 | 442.78 | 414.89 | 394.06 | 377.54 | 363.29 |
| C/γ(°) | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 350.35 | 335.45 | 326.08 | 297.82 | 279.86 | 242.64 | 183.80 | 158.24 | 118.00 |
| 45.0 | 332.29 | 312.34 | 303.06 | 282.64 | 235.78 | 235.78 | 199.67 | 130.95 | 94.62 |
| 90.0 | 290.30 | 256.56 | 232.06 | 173.50 | 132.71 | 109.33 | 63.80 | 50.25 | 37.31 |
| 135.0 | 316.52 | 297.49 | 268.26 | 246.45 | 246.45 | 157.21 | 117.31 | 81.35 | 53.92 |
| 180.0 | 345.29 | 329.51 | 312.34 | 299.35 | 253.87 | 238.10 | 238.10 | 134.57 | 95.31 |
| 225.0 | 307.70 | 289.74 | 277.03 | 256.15 | 232.20 | 209.37 | 170.95 | 144.18 | 110.72 |
| 270.0 | 407.47 | 383.80 | 368.49 | 347.14 | 329.97 | 316.05 | 295.17 | 265.47 | 241.81 |
| 315.0 | 379.30 | 358.37 | 340.28 | 323.62 | 305.71 | 281.44 | 247.33 | 208.77 | 168.63 |
| 360.0 | 350.35 | 335.45 | 326.08 | 297.82 | 279.86 | 242.64 | 183.80 | 158.24 | 118.00 |
| C/γ(°) | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 83.06 | 56.75 | 41.53 | 33.55 | 27.38 | 23.25 | 20.46 | 18.24 | 16.43 |
| 45.0 | 64.45 | 44.96 | 35.22 | 28.82 | 24.04 | 21.07 | 18.84 | 17.03 | 15.82 |
| 90.0 | 30.35 | 24.83 | 21.21 | 18.70 | 16.61 | 14.99 | 13.64 | 12.62 | 11.83 |
| 135.0 | 39.03 | 31.55 | 25.66 | 21.81 | 19.03 | 16.89 | 15.08 | 13.74 | 12.67 |
| 180.0 | 62.51 | 41.53 | 32.02 | 25.99 | 21.58 | 18.93 | 16.80 | 15.08 | 14.29 |
| 225.0 | 80.23 | 56.29 | 41.39 | 33.22 | 27.33 | 23.25 | 20.42 | 18.28 | 16.52 |
| 270.0 | 241.81 | 142.37 | 105.06 | 72.90 | 49.05 | 35.68 | 28.82 | 25.52 | 21.35 |
| 315.0 | 129.33 | 93.32 | 63.80 | 44.78 | 35.03 | 28.40 | 23.67 | 21.16 | 18.10 |
| 360.0 | 83.06 | 56.75 | 41.53 | 33.55 | 27.38 | 23.25 | 20.46 | 18.24 | 16.43 |

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 | 15.03 | 13.92 | 12.99 | 12.16 | 11.46 | 11.04 | 10.39 | 9.93 | 9.61 |
| 45.0 | 14.43 | 13.64 | 12.90 | 12.20 | 11.65 | 11.09 | 10.63 | 10.21 | 9.88 |
| 90.0 | 11.09 | 10.44 | 9.88 | 9.42 | 8.91 | 8.58 | 8.31 | 8.21 | 8.12 |
| 135.0 | 11.79 | 11.09 | 10.44 | 10.16 | 9.42 | 8.91 | 8.68 | 8.31 | 8.03 |
| 180.0 | 12.81 | 11.93 | 11.51 | 10.81 | 10.26 | 9.79 | 9.28 | 8.86 | 8.63 |
| 225.0 | 15.17 | 14.01 | 13.09 | 12.44 | 11.83 | 11.09 | 10.49 | 10.07 | 9.74 |
| 270.0 | 17.82 | 16.66 | 14.99 | 13.74 | 12.76 | 11.97 | 11.28 | 10.63 | 10.02 |
| 315.0 | 16.19 | 14.99 | 13.78 | 12.81 | 12.02 | 11.42 | 10.81 | 10.12 | 9.56 |
| 360.0 | 15.03 | 13.92 | 12.99 | 12.16 | 11.46 | 11.04 | 10.39 | 9.93 | 9.61 |
| C/γ(°) | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 9.28 | 9.10 | 8.91 | 8.54 | 8.12 | 7.93 | 7.61 | 7.29 | 7.05 |
| 45.0 | 9.74 | 9.65 | 9.42 | 8.86 | 8.40 | 8.21 | 7.84 | 7.56 | 7.19 |
| 90.0 | 7.84 | 7.38 | 7.29 | 7.05 | 6.87 | 6.73 | 6.50 | 6.26 | 6.03 |
| 135.0 | 7.93 | 7.75 | 7.29 | 7.01 | 6.91 | 6.82 | 6.68 | 6.45 | 6.36 |
| 180.0 | 8.45 | 8.26 | 8.17 | 7.80 | 7.42 | 7.15 | 6.91 | 6.77 | 6.54 |
| 225.0 | 9.47 | 9.14 | 8.91 | 8.72 | 8.31 | 7.98 | 7.66 | 7.33 | 7.10 |
| 270.0 | 9.61 | 9.14 | 8.82 | 8.63 | 8.40 | 8.17 | 7.89 | 7.47 | 7.29 |
| 315.0 | 9.10 | 8.77 | 8.54 | 8.35 | 8.17 | 7.70 | 7.42 | 7.24 | 7.10 |
| 360.0 | 9.28 | 9.10 | 8.91 | 8.54 | 8.12 | 7.93 | 7.61 | 7.29 | 7.05 |
| C/γ(°) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 6.87 | 6.54 | 6.26 | 6.13 | 5.85 | 5.57 | 5.29 | 5.01 | 4.73 |
| 45.0 | 7.01 | 6.73 | 6.54 | 6.31 | 5.94 | 5.66 | 5.43 | 5.06 | 4.78 |
| 90.0 | 5.89 | 5.71 | 5.38 | 5.20 | 4.92 | 4.64 | 4.32 | 4.13 | 3.99 |
| 135.0 | 6.17 | 5.89 | 5.71 | 5.52 | 5.29 | 4.97 | 4.83 | 4.50 | 4.27 |
| 180.0 | 6.31 | 6.17 | 6.03 | 5.85 | 5.66 | 5.52 | 5.20 | 5.06 | 4.73 |
| 225.0 | 6.73 | 6.45 | 6.26 | 6.08 | 5.85 | 5.66 | 5.43 | 5.15 | 4.87 |
| 270.0 | 7.01 | 6.77 | 6.59 | 6.40 | 6.22 | 6.03 | 5.80 | 5.66 | 5.52 |
| 315.0 | 6.87 | 6.59 | 6.45 | 6.26 | 6.13 | 5.99 | 5.57 | 5.43 | 5.20 |
| 360.0 | 6.87 | 6.54 | 6.26 | 6.13 | 5.85 | 5.57 | 5.29 | 5.01 | 4.73 |
| C/γ(°) | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 0.0 | 4.45 | 4.22 | 4.04 | 3.81 | 3.67 | 3.43 | 3.25 | 3.11 | 2.88 |
| 45.0 | 4.59 | 4.36 | 4.13 | 3.85 | 3.67 | 3.48 | 3.25 | 3.02 | 2.78 |
| 90.0 | 3.76 | 3.53 | 3.39 | 3.25 | 3.02 | 2.88 | 2.64 | 2.41 | 2.32 |
| 135.0 | 4.18 | 3.94 | 3.71 | 3.53 | 3.39 | 3.11 | 2.92 | 2.74 | 2.55 |
| 180.0 | 4.50 | 4.27 | 4.08 | 3.81 | 3.62 | 3.48 | 3.25 | 3.02 | 2.78 |
| 225.0 | 4.59 | 4.41 | 4.27 | 4.08 | 3.76 | 3.57 | 3.43 | 3.20 | 2.97 |
| 270.0 | 5.24 | 4.92 | 4.64 | 4.41 | 4.18 | 3.94 | 3.76 | 3.57 | 3.34 |
| 315.0 | 4.97 | 4.64 | 4.36 | 4.18 | 3.94 | 3.76 | 3.48 | 3.29 | 3.16 |
| 360.0 | 4.45 | 4.22 | 4.04 | 3.81 | 3.67 | 3.43 | 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 | 2.46 | 2.27 | 2.18 | 2.00 | 1.76 | 1.67 | 1.53 | 1.44 |
| 45.0 | 2.60 | 2.41 | 2.18 | 1.95 | 1.86 | 1.67 | 1.58 | 1.44 | 1.30 |
| 90.0 | 2.09 | 1.95 | 1.86 | 1.72 | 1.58 | 1.48 | 1.39 | 1.25 | 1.30 |
| 135.0 | 2.37 | 2.18 | 1.95 | 1.86 | 1.76 | 1.62 | 1.53 | 1.39 | 1.21 |
| 180.0 | 2.69 | 2.46 | 2.23 | 2.00 | 1.90 | 1.72 | 1.58 | 1.44 | 1.35 |
| 225.0 | 2.78 | 2.51 | 2.37 | 2.13 | 2.04 | 1.86 | 1.72 | 1.58 | 1.44 |
| 270.0 | 3.16 | 2.97 | 2.78 | 2.60 | 2.37 | 2.23 | 2.00 | 1.90 | 1.76 |
| 315.0 | 2.92 | 2.74 | 2.55 | 2.37 | 2.23 | 2.09 | 1.95 | 1.76 | 1.62 |
| 360.0 | 2.64 | 2.46 | 2.27 | 2.18 | 2.00 | 1.76 | 1.67 | 1.53 | 1.44 |

Intensity data(cd)

| | |
|---------------|-------------|
| C/γ(°) | 90.0 |
| 0.0 | 1.39 |
| 45.0 | 1.25 |
| 90.0 | 1.21 |
| 135.0 | 1.25 |
| 180.0 | 1.25 |
| 225.0 | 1.39 |
| 270.0 | 1.62 |
| 315.0 | 1.58 |
| 360.0 | 1.39 |