
Maxim

Client:

LumCAT: SM24802

Luminaire: LED Lamp

Report No:

Ballast type:

Test No: LCZP22060448

Voltage(V): 120.050

LampCAT:

Current(A): 0.121

Lamp flux(lm): 465.2

Power (W): 14.340

Number of Lamps: 1

PF: 0.991

Length(mm): 440

Width(mm): 140

Phm Type: C

Height(mm): 30

Photometric Results

Lumens(lm): 465.22, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 32.44

Central intensity(cd): 48.258, Maximum intensity(cd): 113.714

Angle of maximum intensity: C=0.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=246.6

[C90/270]Total=113.0

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.26 C90_270=1.25

Maximum s/h(1/4): C0_180=1.39 C90_270=1.37

Up flux rate of lamp(%): 53.26%

Down flux rate of lamp(%): 46.74%

Up flux rate of LUM(%): 53.26%

Down flux rate of LUM(%): 46.74%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 23.606%

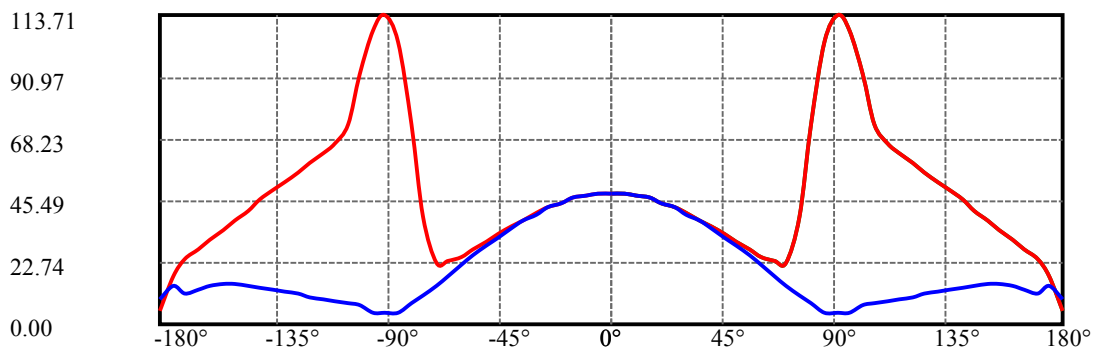
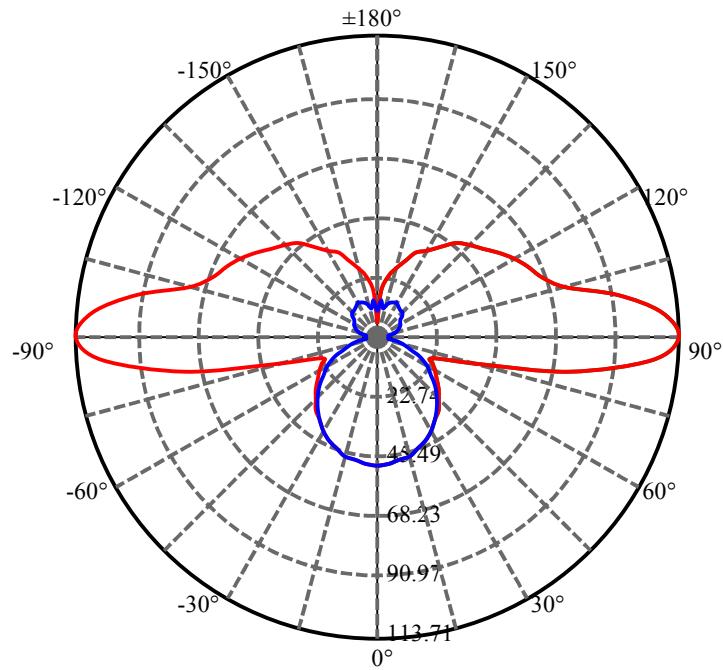
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 48.258 | 0.000 | 0 | 0.00% | 0.00% |
| 5.0 | 48.018 | 1.151 | 1.151 | 0.25% | 0.25% |
| 10.0 | 47.355 | 3.412 | 4.563 | 0.73% | 0.98% |
| 15.0 | 46.263 | 5.553 | 10.116 | 1.19% | 2.17% |
| 20.0 | 44.747 | 7.501 | 17.617 | 1.61% | 3.79% |
| 25.0 | 42.874 | 9.190 | 26.806 | 1.98% | 5.76% |
| 30.0 | 40.669 | 10.572 | 37.379 | 2.27% | 8.03% |
| 35.0 | 38.113 | 11.601 | 48.98 | 2.49% | 10.53% |
| 40.0 | 35.365 | 12.259 | 61.239 | 2.64% | 13.16% |
| 45.0 | 32.492 | 12.564 | 73.803 | 2.70% | 15.86% |
| 50.0 | 29.349 | 12.496 | 86.299 | 2.69% | 18.55% |
| 55.0 | 26.235 | 12.086 | 98.385 | 2.60% | 21.15% |
| 60.0 | 23.244 | 11.437 | 109.822 | 2.46% | 23.61% |
| 65.0 | 20.431 | 10.617 | 120.439 | 2.28% | 25.89% |
| 70.0 | 18.654 | 9.897 | 130.336 | 2.13% | 28.02% |
| 75.0 | 22.081 | 10.647 | 140.983 | 2.29% | 30.30% |
| 80.0 | 39.238 | 16.407 | 157.39 | 3.53% | 33.83% |
| 85.0 | 57.497 | 26.285 | 183.675 | 5.65% | 39.48% |
| 90.0 | 65.759 | 33.749 | 217.424 | 7.25% | 46.74% |
| 95.0 | 61.080 | 34.730 | 252.153 | 7.47% | 54.20% |
| 100.0 | 51.268 | 30.528 | 282.681 | 6.56% | 60.76% |
| 105.0 | 43.049 | 25.237 | 307.918 | 5.42% | 66.19% |
| 110.0 | 40.386 | 21.809 | 329.726 | 4.69% | 70.88% |
| 115.0 | 38.982 | 20.097 | 349.823 | 4.32% | 75.20% |
| 120.0 | 37.656 | 18.631 | 368.454 | 4.00% | 79.20% |
| 125.0 | 36.082 | 17.044 | 385.498 | 3.66% | 82.86% |
| 130.0 | 34.639 | 15.377 | 400.875 | 3.31% | 86.17% |
| 135.0 | 33.305 | 13.729 | 414.604 | 2.95% | 89.12% |
| 140.0 | 31.705 | 12.037 | 426.642 | 2.59% | 91.71% |
| 145.0 | 29.989 | 10.293 | 436.935 | 2.21% | 93.92% |
| 150.0 | 28.090 | 8.552 | 445.487 | 1.84% | 95.76% |
| 155.0 | 26.161 | 6.866 | 452.353 | 1.48% | 97.23% |
| 160.0 | 24.052 | 5.266 | 457.619 | 1.13% | 98.37% |
| 165.0 | 21.643 | 3.766 | 461.385 | 0.81% | 99.18% |
| 170.0 | 17.946 | 2.348 | 463.733 | 0.50% | 99.68% |
| 175.0 | 15.666 | 1.202 | 464.936 | 0.26% | 99.94% |
| 180.0 | 8.021 | 0.283 | 465.219 | 0.06% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|----------|--------|---------|---------|
| 0-30 | 37.38 | 8.03% | 8.03% |
| 0-40 | 61.24 | 13.16% | 13.16% |
| 0-60 | 109.82 | 23.61% | 23.61% |
| 0-90 | 217.42 | 46.74% | 46.74% |
| 0-120 | 368.45 | 79.20% | 79.20% |
| 0-180 | 465.22 | 100.00% | 100.00% |
| 60-90 | 107.60 | 23.13% | 23.13% |
| 90-120 | 151.03 | 32.46% | 32.46% |
| 90-130 | 183.45 | 39.43% | 39.43% |
| 90-150 | 228.06 | 49.02% | 49.02% |
| 90-180 | 247.51 | 53.20% | 53.20% |
| 0-121.09 | 372.18 | 80.00% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|-------|
| 0-10 | 4.56 |
| 10-20 | 13.05 |
| 20-30 | 19.76 |
| 30-40 | 23.86 |
| 40-50 | 25.06 |
| 50-60 | 23.52 |
| 60-70 | 20.51 |
| 70-80 | 27.05 |
| 80-90 | 60.03 |
| 90-100 | 65.26 |
| 100-110 | 47.05 |
| 110-120 | 38.73 |
| 120-130 | 32.42 |
| 130-140 | 25.77 |
| 140-150 | 18.85 |
| 150-160 | 12.13 |
| 160-170 | 6.11 |
| 170-180 | 1.20 |



C0(Max):

C0/C180:

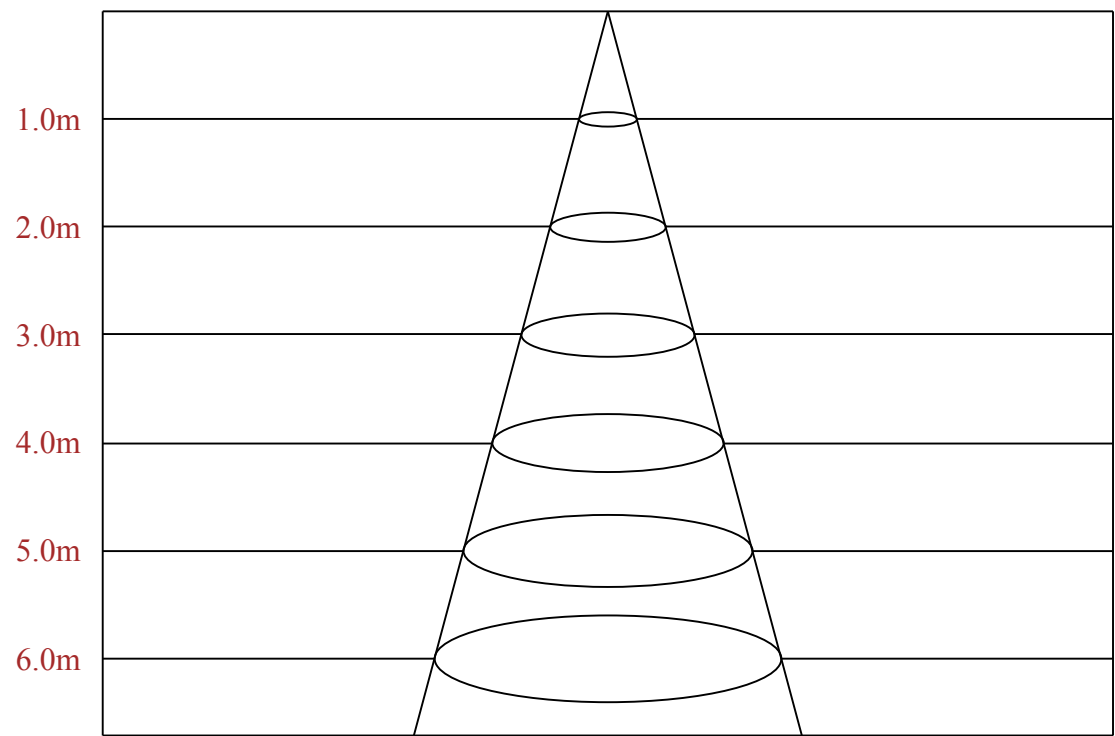
C90/C270:

Field angle(10%Imax):C0/180Left:267.5 Right:87.5

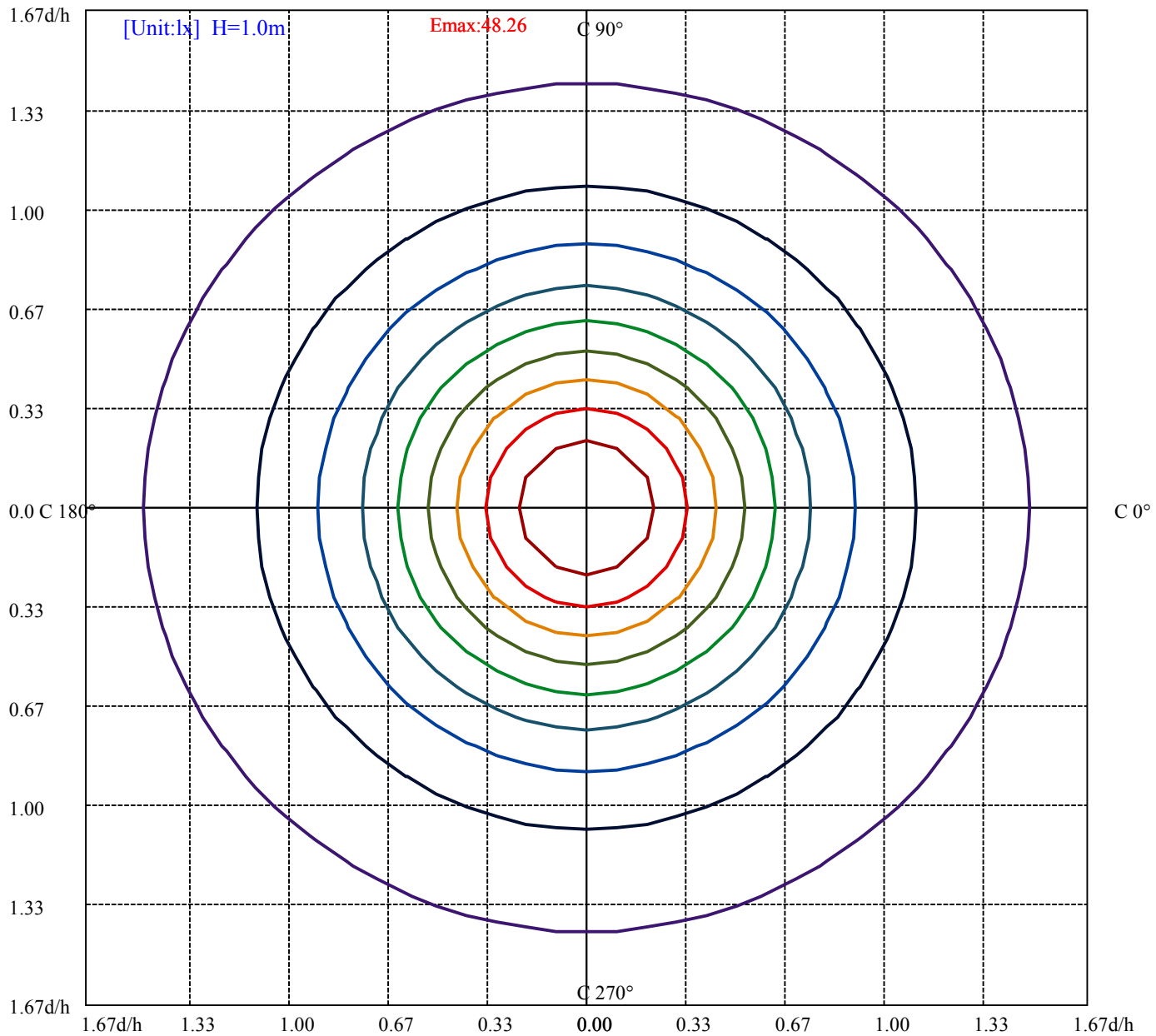
:C90/270Left:0.0 Right:0.0

Beam Angle(50%Imax):C0/180Left:213.3 Right:33.3

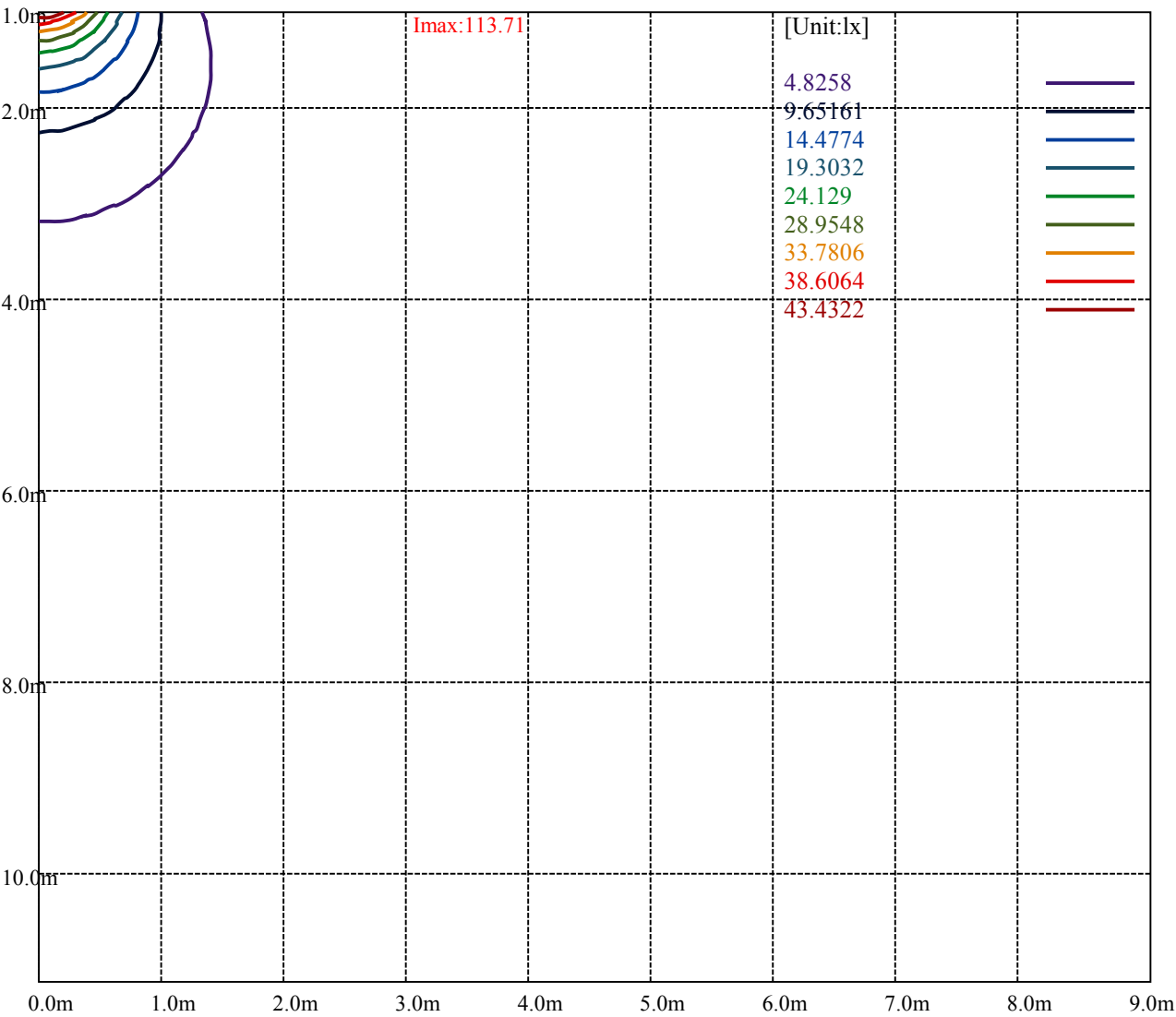
:C90/270Left:56.5 Right:56.5



Max , Ave Beam angle of C0 plane 232.39



| | |
|-------------------|---|
| (10%Emax) 4.8258 | — |
| (20%Emax) 9.65161 | — |
| (30%Emax) 14.4774 | — |
| (40%Emax) 19.3032 | — |
| (50%Emax) 24.129 | — |
| (60%Emax) 28.9548 | — |
| (70%Emax) 33.7806 | — |
| (80%Emax) 38.6064 | — |
| (90%Emax) 43.4322 | — |



Luminance Table

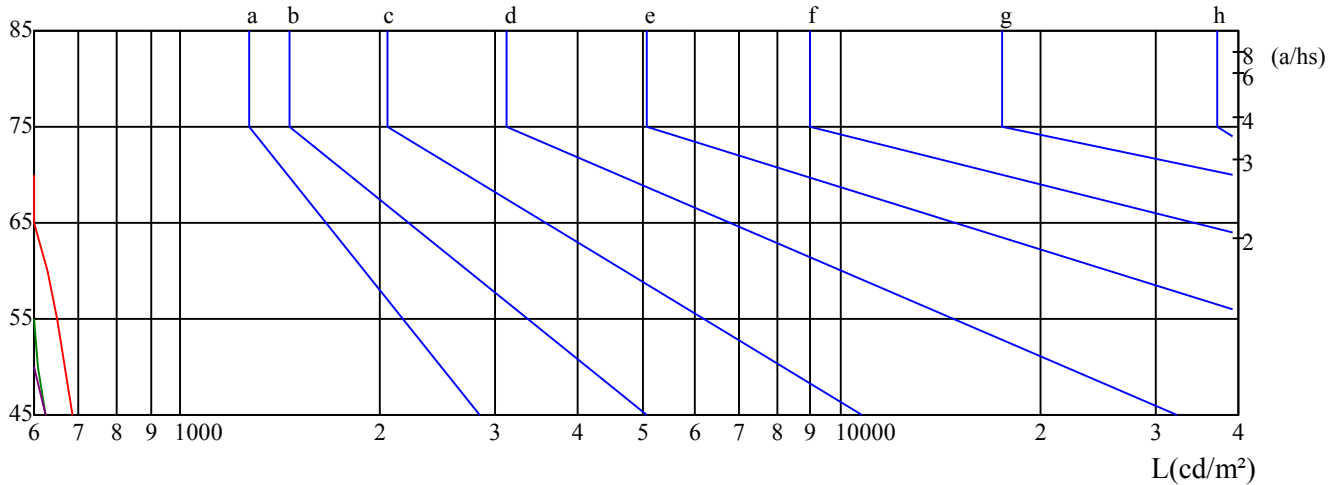
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|-----|-----|-----|-----|-----|-----|------|------|------|
| C0 | 625 | 610 | 597 | 593 | 611 | 670 | 1375 | 3094 | 5596 |
| C45 | 626 | 597 | 575 | 557 | 547 | 578 | 706 | 1690 | 3254 |
| C90 | 688 | 669 | 650 | 627 | 601 | 569 | 525 | 519 | 457 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 891 | 689 | 781 | 2474 | 659 | 1233 | 19301 | 813 | 10682 |

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

 $\gamma(^{\circ})$ 

C0 ———

C45 ———

C90 ———

| RHOC | 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 | 1.06 | 1.06 | 1.06 | 0.98 | 0.98 | 0.98 | 0.82 | 0.82 | 0.82 | 0.67 | 0.67 | 0.67 | 0.53 | 0.53 | 0.53 | 0.47 |
| 1 | 0.86 | 0.80 | 0.75 | 0.78 | 0.73 | 0.68 | 0.64 | 0.60 | 0.56 | 0.51 | 0.48 | 0.45 | 0.39 | 0.37 | 0.35 | 0.29 |
| 2 | 0.73 | 0.65 | 0.59 | 0.67 | 0.60 | 0.54 | 0.55 | 0.49 | 0.45 | 0.43 | 0.39 | 0.36 | 0.33 | 0.30 | 0.27 | 0.22 |
| 3 | 0.64 | 0.55 | 0.48 | 0.58 | 0.50 | 0.44 | 0.48 | 0.42 | 0.37 | 0.38 | 0.33 | 0.30 | 0.29 | 0.25 | 0.23 | 0.18 |
| 4 | 0.56 | 0.47 | 0.40 | 0.51 | 0.43 | 0.37 | 0.42 | 0.36 | 0.31 | 0.33 | 0.29 | 0.25 | 0.25 | 0.22 | 0.19 | 0.15 |
| 5 | 0.50 | 0.41 | 0.34 | 0.46 | 0.38 | 0.32 | 0.38 | 0.31 | 0.26 | 0.30 | 0.25 | 0.21 | 0.23 | 0.19 | 0.16 | 0.13 |
| 6 | 0.45 | 0.36 | 0.29 | 0.41 | 0.33 | 0.27 | 0.34 | 0.28 | 0.23 | 0.27 | 0.22 | 0.19 | 0.21 | 0.17 | 0.14 | 0.11 |
| 7 | 0.40 | 0.32 | 0.26 | 0.37 | 0.29 | 0.24 | 0.31 | 0.24 | 0.20 | 0.25 | 0.20 | 0.16 | 0.19 | 0.15 | 0.13 | 0.10 |
| 8 | 0.36 | 0.28 | 0.23 | 0.33 | 0.26 | 0.21 | 0.28 | 0.22 | 0.18 | 0.22 | 0.18 | 0.14 | 0.17 | 0.14 | 0.11 | 0.09 |
| 9 | 0.33 | 0.25 | 0.20 | 0.31 | 0.23 | 0.19 | 0.25 | 0.20 | 0.16 | 0.21 | 0.16 | 0.13 | 0.16 | 0.13 | 0.10 | 0.08 |
| 10 | 0.30 | 0.23 | 0.18 | 0.28 | 0.21 | 0.17 | 0.23 | 0.18 | 0.14 | 0.19 | 0.15 | 0.12 | 0.15 | 0.12 | 0.09 | 0.07 |

Intensity data(cd)

| C/γ(°) | 0.0 | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0.0 | 48.26 | 48.26 | 47.73 | 47.03 | 45.71 | 43.96 | 42.12 | 39.92 | 37.55 |
| 15.0 | 48.26 | 48.26 | 47.91 | 47.12 | 45.88 | 44.30 | 42.28 | 40.00 | 37.62 |
| 30.0 | 48.26 | 48.35 | 47.91 | 47.20 | 45.96 | 44.38 | 42.35 | 40.14 | 37.67 |
| 45.0 | 48.26 | 48.26 | 47.90 | 47.28 | 46.04 | 44.45 | 42.50 | 40.20 | 37.72 |
| 60.0 | 48.26 | 48.44 | 48.08 | 47.28 | 46.04 | 44.35 | 42.49 | 40.19 | 37.61 |
| 75.0 | 48.26 | 48.35 | 47.99 | 47.37 | 46.13 | 44.44 | 42.40 | 40.10 | 37.52 |
| 90.0 | 48.26 | 48.35 | 48.08 | 47.37 | 46.03 | 44.52 | 42.47 | 40.16 | 37.40 |
| 105.0 | 48.26 | 48.26 | 47.99 | 47.10 | 45.86 | 44.18 | 42.31 | 39.92 | 37.26 |
| 120.0 | 48.26 | 48.26 | 47.99 | 47.02 | 45.77 | 44.09 | 42.14 | 39.65 | 36.90 |
| 135.0 | 48.26 | 48.26 | 47.81 | 46.93 | 45.60 | 43.91 | 41.78 | 39.39 | 36.73 |
| 150.0 | 48.26 | 48.26 | 47.81 | 46.93 | 45.42 | 43.82 | 41.69 | 39.30 | 36.55 |
| 165.0 | 48.26 | 48.17 | 47.55 | 46.67 | 45.34 | 43.57 | 41.28 | 38.89 | 36.24 |
| 180.0 | 48.26 | 47.82 | 46.94 | 45.54 | 43.87 | 41.77 | 39.31 | 36.68 | 34.04 |
| 195.0 | 48.26 | 47.82 | 46.85 | 45.36 | 43.69 | 41.49 | 38.94 | 36.30 | 33.67 |
| 210.0 | 48.26 | 47.82 | 46.76 | 45.26 | 43.58 | 41.46 | 38.82 | 36.00 | 33.17 |
| 225.0 | 48.26 | 47.64 | 46.66 | 45.34 | 43.48 | 41.26 | 38.78 | 35.95 | 32.94 |
| 240.0 | 48.26 | 47.73 | 46.75 | 45.15 | 43.38 | 41.16 | 38.68 | 35.84 | 32.65 |
| 255.0 | 48.26 | 47.55 | 46.66 | 45.15 | 43.38 | 41.16 | 38.68 | 35.84 | 32.73 |
| 270.0 | 48.26 | 47.72 | 46.74 | 45.23 | 43.45 | 41.31 | 38.73 | 35.97 | 32.85 |
| 285.0 | 48.26 | 47.73 | 46.57 | 45.24 | 43.47 | 41.34 | 38.77 | 36.10 | 32.82 |
| 300.0 | 48.26 | 47.81 | 46.75 | 45.42 | 43.65 | 41.60 | 39.12 | 36.19 | 33.35 |
| 315.0 | 48.26 | 47.73 | 46.93 | 45.51 | 43.82 | 41.87 | 39.39 | 36.81 | 33.89 |
| 330.0 | 48.26 | 47.81 | 47.02 | 45.86 | 44.09 | 42.23 | 40.90 | 37.35 | 34.60 |
| 345.0 | 48.26 | 47.82 | 47.11 | 45.96 | 44.28 | 42.34 | 40.13 | 37.83 | 35.27 |
| 360.0 | 48.26 | 48.26 | 47.73 | 47.03 | 45.71 | 43.96 | 42.12 | 39.92 | 37.55 |
| | | | | | | | | | |
| C/γ(°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 |
| 0.0 | 34.92 | 32.11 | 29.31 | 26.59 | 24.22 | 22.55 | 22.37 | 35.62 | 94.85 |
| 15.0 | 34.98 | 32.26 | 29.53 | 26.63 | 24.17 | 22.24 | 22.59 | 29.89 | 82.72 |
| 30.0 | 35.02 | 32.11 | 29.20 | 26.29 | 23.47 | 21.17 | 21.00 | 22.59 | 58.05 |
| 45.0 | 34.89 | 31.88 | 28.78 | 25.50 | 22.49 | 19.83 | 18.42 | 19.92 | 30.55 |
| 60.0 | 34.69 | 31.49 | 28.30 | 25.02 | 21.65 | 18.54 | 15.97 | 14.55 | 16.94 |
| 75.0 | 34.60 | 31.40 | 28.03 | 24.48 | 20.94 | 17.30 | 14.10 | 11.18 | 9.76 |
| 90.0 | 34.55 | 31.25 | 27.87 | 24.40 | 20.75 | 17.01 | 13.18 | 9.53 | 6.23 |
| 105.0 | 34.33 | 31.05 | 27.59 | 24.13 | 20.49 | 16.85 | 13.75 | 10.82 | 10.11 |
| 120.0 | 34.06 | 30.78 | 27.32 | 23.95 | 20.76 | 17.74 | 15.35 | 14.73 | 18.81 |
| 135.0 | 33.80 | 30.60 | 27.50 | 24.40 | 21.20 | 18.90 | 18.01 | 20.58 | 53.49 |
| 150.0 | 33.80 | 30.69 | 27.68 | 24.84 | 22.00 | 20.23 | 21.65 | 35.22 | 88.09 |
| 165.0 | 33.59 | 30.67 | 27.75 | 25.10 | 22.54 | 21.39 | 22.18 | 60.54 | 107.12 |
| 180.0 | 31.15 | 28.52 | 25.80 | 23.51 | 22.20 | 22.29 | 56.51 | 110.99 | 112.40 |
| 195.0 | 30.68 | 27.95 | 25.32 | 22.94 | 21.54 | 22.41 | 57.58 | 106.62 | 106.45 |
| 210.0 | 30.17 | 27.35 | 24.53 | 21.70 | 20.11 | 22.14 | 42.08 | 90.78 | 91.40 |
| 225.0 | 29.75 | 26.65 | 23.38 | 20.54 | 18.42 | 18.42 | 22.31 | 65.79 | 70.75 |
| 240.0 | 29.45 | 25.99 | 22.71 | 19.52 | 16.77 | 14.90 | 15.88 | 33.18 | 46.31 |
| 255.0 | 29.45 | 25.90 | 22.44 | 18.81 | 15.26 | 12.33 | 10.11 | 11.35 | 20.67 |
| 270.0 | 29.47 | 26.00 | 22.53 | 18.79 | 15.14 | 11.49 | 7.84 | 5.88 | 2.49 |
| 285.0 | 29.72 | 26.26 | 22.71 | 19.25 | 15.88 | 12.69 | 11.27 | 11.00 | 22.89 |
| 300.0 | 30.16 | 26.97 | 23.60 | 21.73 | 17.30 | 15.26 | 15.08 | 22.44 | 49.06 |
| 315.0 | 32.38 | 27.85 | 24.75 | 21.91 | 19.25 | 18.27 | 19.87 | 47.90 | 74.60 |
| 330.0 | 31.85 | 29.01 | 26.08 | 23.33 | 21.20 | 21.11 | 24.48 | 69.55 | 95.81 |
| 345.0 | 32.35 | 29.61 | 26.96 | 24.48 | 22.63 | 22.63 | 28.37 | 81.05 | 110.39 |
| 360.0 | 34.92 | 32.11 | 29.31 | 26.59 | 24.22 | 22.55 | 22.37 | 35.62 | 94.85 |

Intensity data(cd)

| C/ γ (°) | 90.0 | 95.0 | 100.0 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 |
|-----------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 0.0 | 114.42 | 115.12 | 106.26 | 80.11 | 67.82 | 63.96 | 60.54 | 57.03 | 53.87 |
| 15.0 | 110.32 | 109.35 | 102.41 | 77.00 | 64.70 | 61.71 | 58.45 | 55.29 | 51.69 |
| 30.0 | 96.16 | 94.05 | 87.16 | 64.58 | 57.17 | 54.08 | 50.82 | 48.35 | 45.61 |
| 45.0 | 73.85 | 72.34 | 64.55 | 47.28 | 44.18 | 41.53 | 39.67 | 37.99 | 35.77 |
| 60.0 | 41.87 | 46.93 | 36.55 | 29.81 | 27.94 | 27.06 | 25.73 | 25.46 | 25.64 |
| 75.0 | 12.86 | 20.67 | 14.99 | 13.93 | 13.84 | 14.37 | 15.26 | 16.23 | 16.94 |
| 90.0 | 5.34 | 2.31 | 5.88 | 6.77 | 7.57 | 8.37 | 9.26 | 10.15 | 11.22 |
| 105.0 | 16.32 | 20.31 | 14.37 | 13.84 | 13.93 | 14.90 | 15.44 | 15.70 | 16.94 |
| 120.0 | 48.44 | 46.75 | 33.18 | 29.10 | 27.94 | 24.93 | 27.15 | 25.90 | 25.90 |
| 135.0 | 72.56 | 71.50 | 57.40 | 45.33 | 43.56 | 42.05 | 39.83 | 35.40 | 36.55 |
| 150.0 | 92.08 | 92.17 | 78.51 | 59.70 | 55.53 | 53.76 | 51.10 | 48.17 | 43.91 |
| 165.0 | 105.00 | 106.24 | 90.42 | 70.09 | 62.84 | 60.46 | 57.72 | 54.89 | 51.26 |
| 180.0 | 113.01 | 100.55 | 77.21 | 67.12 | 64.40 | 61.33 | 57.73 | 54.31 | 50.89 |
| 195.0 | 107.86 | 92.56 | 71.02 | 63.73 | 61.27 | 58.72 | 55.91 | 52.92 | 48.79 |
| 210.0 | 92.63 | 74.55 | 58.93 | 55.76 | 53.99 | 51.79 | 49.40 | 47.02 | 43.14 |
| 225.0 | 70.13 | 52.15 | 45.16 | 43.92 | 42.41 | 40.91 | 39.85 | 37.10 | 35.68 |
| 240.0 | 42.05 | 30.25 | 29.27 | 28.30 | 28.21 | 28.30 | 28.39 | 27.50 | 27.85 |
| 255.0 | 15.70 | 14.19 | 14.28 | 14.46 | 15.88 | 16.68 | 17.48 | 18.19 | 18.54 |
| 270.0 | 3.47 | 6.86 | 7.75 | 8.55 | 9.44 | 10.51 | 11.22 | 11.84 | 12.82 |
| 285.0 | 17.56 | 15.17 | 14.73 | 15.70 | 16.77 | 17.48 | 17.74 | 18.81 | 19.07 |
| 300.0 | 46.31 | 32.38 | 30.34 | 29.10 | 28.83 | 28.83 | 28.48 | 28.74 | 27.59 |
| 315.0 | 74.52 | 59.44 | 47.19 | 44.98 | 43.11 | 41.60 | 40.10 | 38.50 | 37.17 |
| 330.0 | 96.07 | 86.40 | 63.43 | 57.84 | 55.09 | 52.52 | 50.12 | 47.55 | 44.62 |
| 345.0 | 109.69 | 103.68 | 79.46 | 66.20 | 62.84 | 59.75 | 56.39 | 52.94 | 49.85 |
| 360.0 | 114.42 | 115.12 | 106.26 | 80.11 | 67.82 | 63.96 | 60.54 | 57.03 | 53.87 |
| | | | | | | | | | |
| C/ γ (°) | 135.0 | 140.0 | 145.0 | 150.0 | 155.0 | 160.0 | 165.0 | 170.0 | 175.0 |
| 0.0 | 50.71 | 47.21 | 43.61 | 39.92 | 36.33 | 32.20 | 28.17 | 24.83 | 20.44 |
| 15.0 | 48.35 | 45.09 | 41.49 | 37.89 | 34.55 | 31.03 | 27.60 | 24.35 | 21.10 |
| 30.0 | 42.70 | 39.44 | 37.14 | 34.41 | 31.76 | 29.11 | 26.03 | 23.29 | 20.56 |
| 45.0 | 33.82 | 33.03 | 31.61 | 29.66 | 27.54 | 25.94 | 23.91 | 21.61 | 19.66 |
| 60.0 | 25.81 | 25.46 | 24.57 | 23.77 | 23.06 | 21.47 | 20.31 | 18.54 | 17.39 |
| 75.0 | 17.39 | 17.74 | 17.56 | 17.30 | 16.94 | 15.79 | 15.70 | 14.90 | 15.08 |
| 90.0 | 12.11 | 12.82 | 13.53 | 13.89 | 14.07 | 13.53 | 13.09 | 11.49 | 12.20 |
| 105.0 | 17.56 | 17.92 | 17.74 | 17.56 | 17.30 | 17.03 | 15.97 | 12.06 | 11.71 |
| 120.0 | 25.10 | 23.42 | 24.31 | 23.60 | 22.71 | 21.73 | 20.23 | 13.93 | 11.53 |
| 135.0 | 34.24 | 32.56 | 30.69 | 28.56 | 27.32 | 25.90 | 24.04 | 17.83 | 11.89 |
| 150.0 | 42.85 | 40.10 | 37.52 | 33.53 | 32.20 | 29.36 | 26.61 | 22.00 | 13.31 |
| 165.0 | 47.64 | 45.16 | 42.25 | 37.39 | 34.12 | 31.55 | 28.11 | 24.92 | 18.56 |
| 180.0 | 47.91 | 44.66 | 39.31 | 35.89 | 33.52 | 29.92 | 26.23 | 22.64 | 14.65 |
| 195.0 | 46.06 | 43.07 | 38.33 | 36.13 | 32.61 | 29.18 | 27.25 | 19.78 | 11.43 |
| 210.0 | 41.55 | 37.85 | 36.35 | 34.76 | 30.26 | 27.44 | 24.35 | 16.32 | 11.29 |
| 225.0 | 35.51 | 33.38 | 31.52 | 29.31 | 27.36 | 24.97 | 21.16 | 13.19 | 12.75 |
| 240.0 | 27.32 | 26.70 | 25.64 | 24.40 | 22.89 | 21.38 | 17.30 | 12.06 | 14.19 |
| 255.0 | 18.90 | 18.90 | 18.72 | 18.54 | 18.10 | 17.39 | 14.37 | 11.18 | 14.90 |
| 270.0 | 13.62 | 14.51 | 15.31 | 15.85 | 15.14 | 14.33 | 12.91 | 11.22 | 15.85 |
| 285.0 | 19.25 | 19.16 | 18.98 | 18.19 | 17.48 | 16.59 | 15.35 | 13.84 | 16.77 |
| 300.0 | 27.59 | 26.70 | 25.73 | 24.31 | 22.53 | 21.11 | 18.72 | 17.03 | 17.12 |
| 315.0 | 34.60 | 33.62 | 31.49 | 29.36 | 26.97 | 24.40 | 22.35 | 20.05 | 17.83 |
| 330.0 | 42.14 | 39.12 | 36.55 | 33.62 | 30.43 | 27.15 | 24.31 | 21.38 | 18.45 |
| 345.0 | 46.58 | 43.31 | 39.77 | 36.33 | 32.70 | 28.73 | 25.37 | 22.27 | 17.32 |
| 360.0 | 50.71 | 47.21 | 43.61 | 39.92 | 36.33 | 32.20 | 28.17 | 24.83 | 20.44 |

Intensity data(cd)

| | |
|-----------------------|-------|
| C/ $\gamma(^{\circ})$ | 180.0 |
| 0.0 | 10.27 |
| 15.0 | 14.59 |
| 30.0 | 17.03 |
| 45.0 | 18.24 |
| 60.0 | 18.63 |
| 75.0 | 18.63 |
| 90.0 | 18.79 |
| 105.0 | 18.10 |
| 120.0 | 17.65 |
| 135.0 | 16.15 |
| 150.0 | 13.40 |
| 165.0 | 11.05 |
| 180.0 | 0.00 |
| 195.0 | 0.00 |
| 210.0 | 0.00 |
| 225.0 | 0.00 |
| 240.0 | 0.00 |
| 255.0 | 0.00 |
| 270.0 | 0.00 |
| 285.0 | 0.00 |
| 300.0 | 0.00 |
| 315.0 | 0.00 |
| 330.0 | 0.00 |
| 345.0 | 0.00 |
| 360.0 | 10.27 |