
乐达凯

Client:

LumCAT: FTNW0436LAJUDBK-2700K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 120.010

LampCAT:

Current(A): 0.247

Lamp flux(lm): 1509.4

Power (W): 29.360

Number of Lamps: 1

PF: 0.992

Length(mm): 70

Width(mm): 45

Phm Type: C

Height(mm): 840

Photometric Results

Lumens(lm): 1509.42, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 51.41

Central intensity(cd): 5.204, Maximum intensity(cd): 269.200

Angle of maximum intensity: C=15.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=291.8

[C90/270]Total=114.4

Field angle(10%Imax): [C0/180]Total=344.2

[C90/270]Total=163.2

Maximum s/h(1/2): C0_180=9.26 C90_270=12.47

Maximum s/h(1/4): C0_180=8.07 C90_270=12.06

Up flux rate of lamp(%): 50.27%

Down flux rate of lamp(%): 49.73%

Up flux rate of LUM(%): 50.27%

Down flux rate of LUM(%): 49.73%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 18.614%

乐达凯 FTNW0436LAJUDBK-2700K

Zonal flux distribution table

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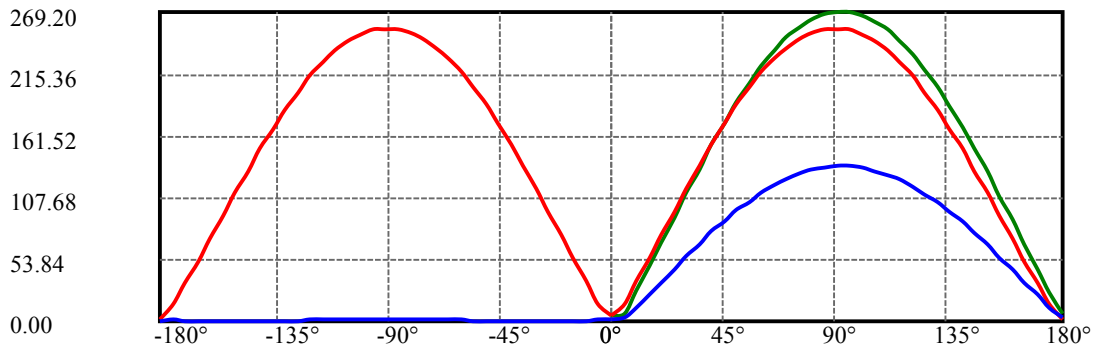
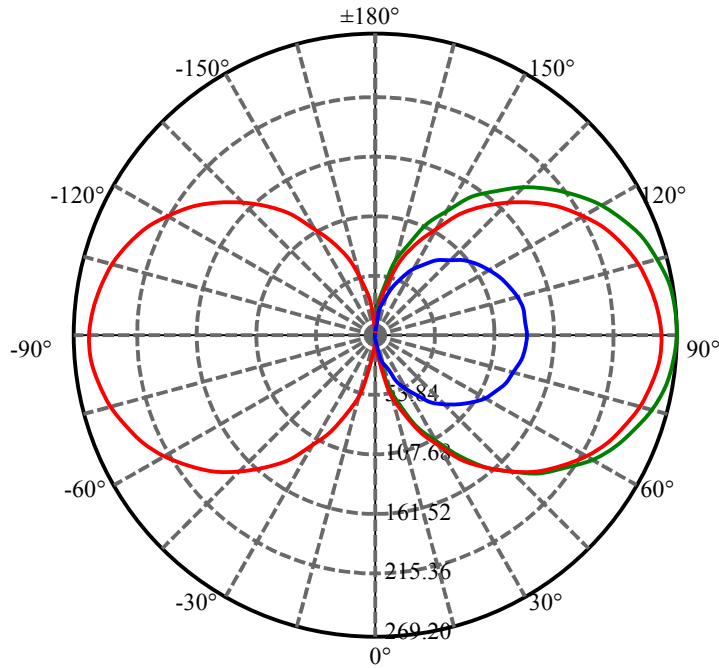
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 2.437 | 0.000 | 0 | 0.00% | 0.00% |
| 5.0 | 7.342 | 0.117 | 0.117 | 0.01% | 0.01% |
| 10.0 | 19.162 | 0.948 | 1.065 | 0.06% | 0.07% |
| 15.0 | 31.678 | 3.016 | 4.081 | 0.20% | 0.27% |
| 20.0 | 44.990 | 6.319 | 10.399 | 0.42% | 0.69% |
| 25.0 | 57.057 | 10.703 | 21.102 | 0.71% | 1.40% |
| 30.0 | 69.427 | 16.007 | 37.109 | 1.06% | 2.46% |
| 35.0 | 81.659 | 22.248 | 59.357 | 1.47% | 3.93% |
| 40.0 | 93.427 | 29.212 | 88.569 | 1.94% | 5.87% |
| 45.0 | 104.454 | 36.639 | 125.208 | 2.43% | 8.30% |
| 50.0 | 114.843 | 44.312 | 169.52 | 2.94% | 11.23% |
| 55.0 | 124.338 | 52.006 | 221.526 | 3.45% | 14.68% |
| 60.0 | 132.832 | 59.444 | 280.97 | 3.94% | 18.61% |
| 65.0 | 140.245 | 66.385 | 347.356 | 4.40% | 23.01% |
| 70.0 | 146.379 | 72.575 | 419.931 | 4.81% | 27.82% |
| 75.0 | 151.314 | 77.812 | 497.743 | 5.16% | 32.98% |
| 80.0 | 154.884 | 81.930 | 579.673 | 5.43% | 38.40% |
| 85.0 | 157.067 | 84.764 | 664.437 | 5.62% | 44.02% |
| 90.0 | 157.930 | 86.249 | 750.686 | 5.71% | 49.73% |
| 95.0 | 157.205 | 86.286 | 836.972 | 5.72% | 55.45% |
| 100.0 | 155.160 | 84.877 | 921.849 | 5.62% | 61.07% |
| 105.0 | 151.751 | 82.121 | 1003.97 | 5.44% | 66.51% |
| 110.0 | 146.947 | 78.075 | 1082.045 | 5.17% | 71.69% |
| 115.0 | 140.820 | 72.865 | 1154.909 | 4.83% | 76.51% |
| 120.0 | 133.845 | 66.772 | 1221.681 | 4.42% | 80.94% |
| 125.0 | 125.366 | 59.916 | 1281.597 | 3.97% | 84.91% |
| 130.0 | 116.256 | 52.537 | 1334.134 | 3.48% | 88.39% |
| 135.0 | 106.170 | 44.945 | 1379.078 | 2.98% | 91.36% |
| 140.0 | 95.804 | 37.397 | 1416.475 | 2.48% | 93.84% |
| 145.0 | 84.126 | 30.020 | 1446.495 | 1.99% | 95.83% |
| 150.0 | 72.234 | 23.025 | 1469.52 | 1.53% | 97.36% |
| 155.0 | 60.178 | 16.757 | 1486.277 | 1.11% | 98.47% |
| 160.0 | 48.369 | 11.385 | 1497.662 | 0.75% | 99.22% |
| 165.0 | 35.379 | 6.902 | 1504.564 | 0.46% | 99.68% |
| 170.0 | 22.987 | 3.462 | 1508.026 | 0.23% | 99.91% |
| 175.0 | 11.364 | 1.229 | 1509.255 | 0.08% | 99.99% |
| 180.0 | 2.493 | 0.166 | 1509.421 | 0.01% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|----------|---------|---------|---------|
| 0-30 | 37.11 | 2.46% | 2.46% |
| 0-40 | 88.57 | 5.87% | 5.87% |
| 0-60 | 280.97 | 18.61% | 18.61% |
| 0-90 | 750.69 | 49.73% | 49.73% |
| 0-120 | 1221.68 | 80.94% | 80.94% |
| 0-180 | 1509.42 | 100.00% | 100.00% |
| 60-90 | 469.72 | 31.12% | 31.12% |
| 90-120 | 471.00 | 31.20% | 31.20% |
| 90-130 | 583.45 | 38.65% | 38.65% |
| 90-150 | 718.83 | 47.62% | 47.62% |
| 90-180 | 758.57 | 50.26% | 50.26% |
| 0-118.94 | 1207.54 | 80.00% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 1.07 |
| 10-20 | 9.33 |
| 20-30 | 26.71 |
| 30-40 | 51.46 |
| 40-50 | 80.95 |
| 50-60 | 111.45 |
| 60-70 | 138.96 |
| 70-80 | 159.74 |
| 80-90 | 171.01 |
| 90-100 | 171.16 |
| 100-110 | 160.20 |
| 110-120 | 139.64 |
| 120-130 | 112.45 |
| 130-140 | 82.34 |
| 140-150 | 53.05 |
| 150-160 | 28.14 |
| 160-170 | 10.36 |
| 170-180 | 1.23 |



C15(Max): ——

C0/C180: ——

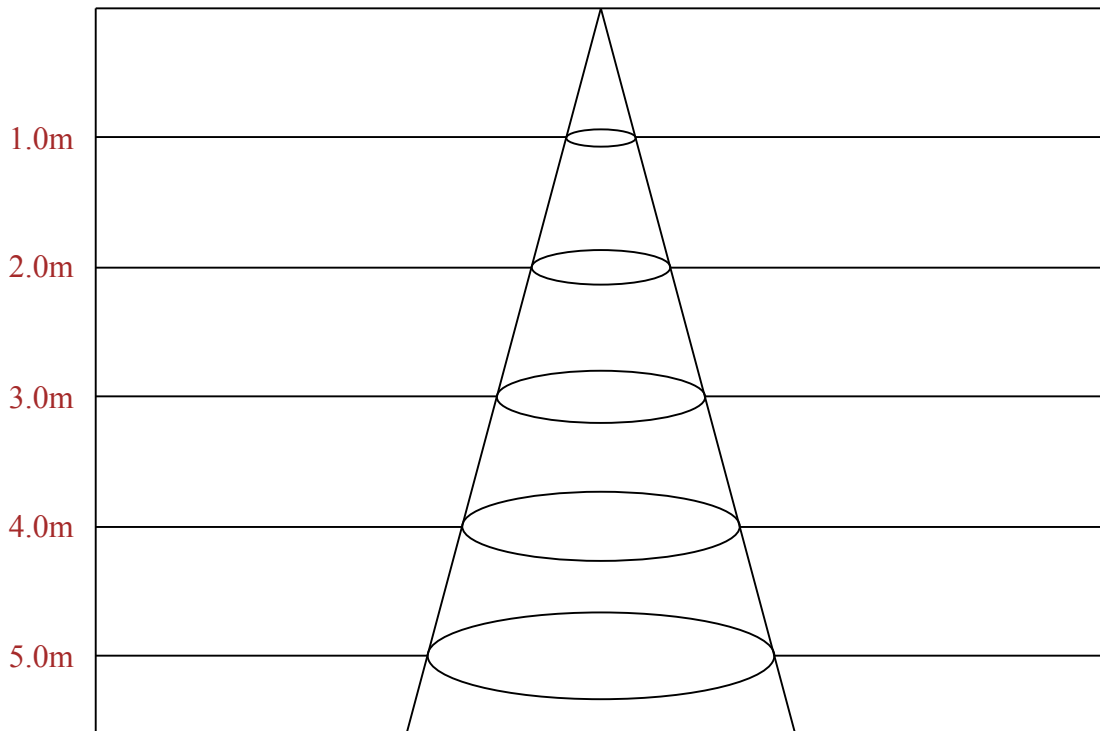
C90/C270: ——

Field angle(10%Imax):C0/180Left:262.1 Right:82.1

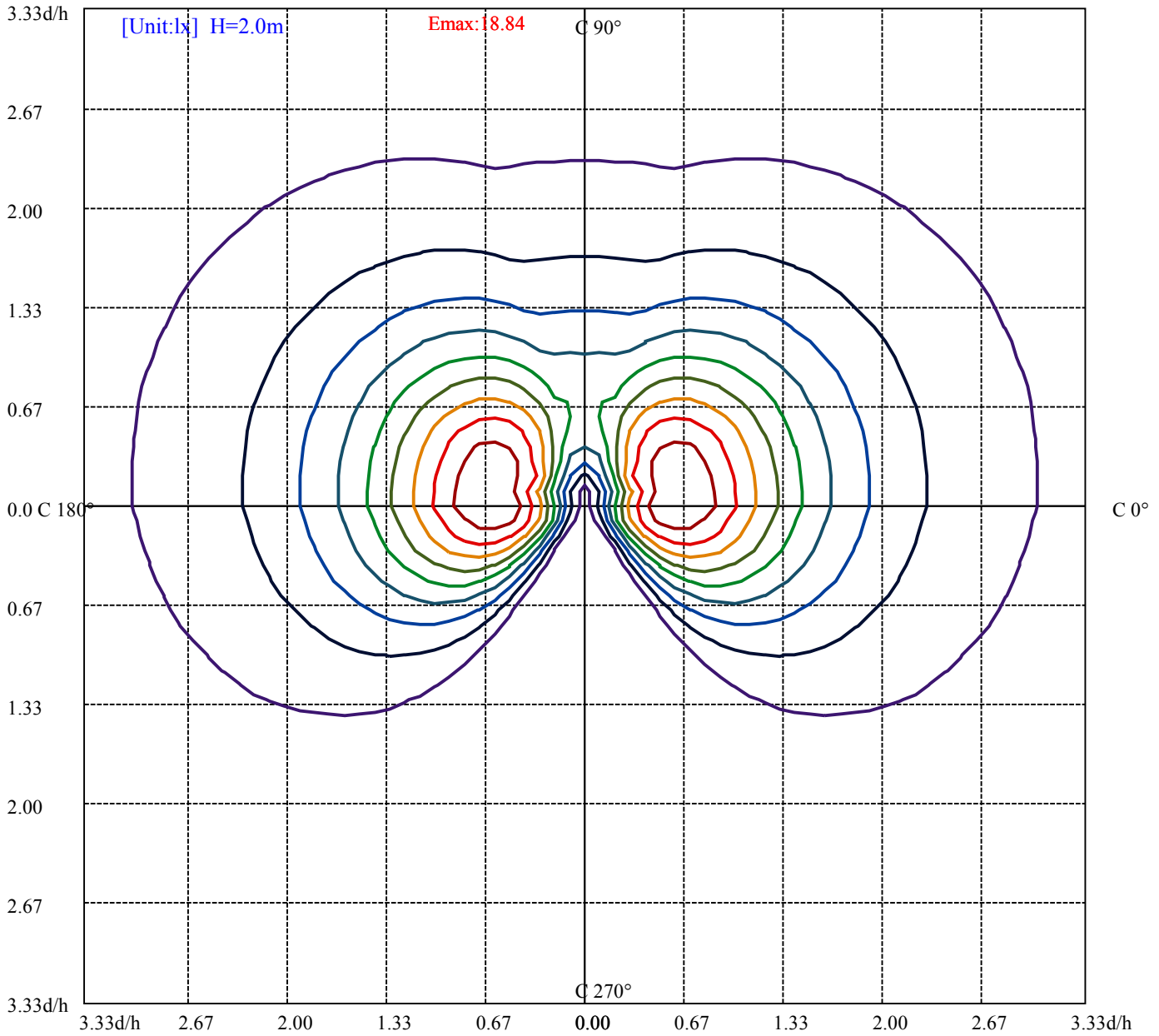
:C90/270Left:79.0 Right:84.2

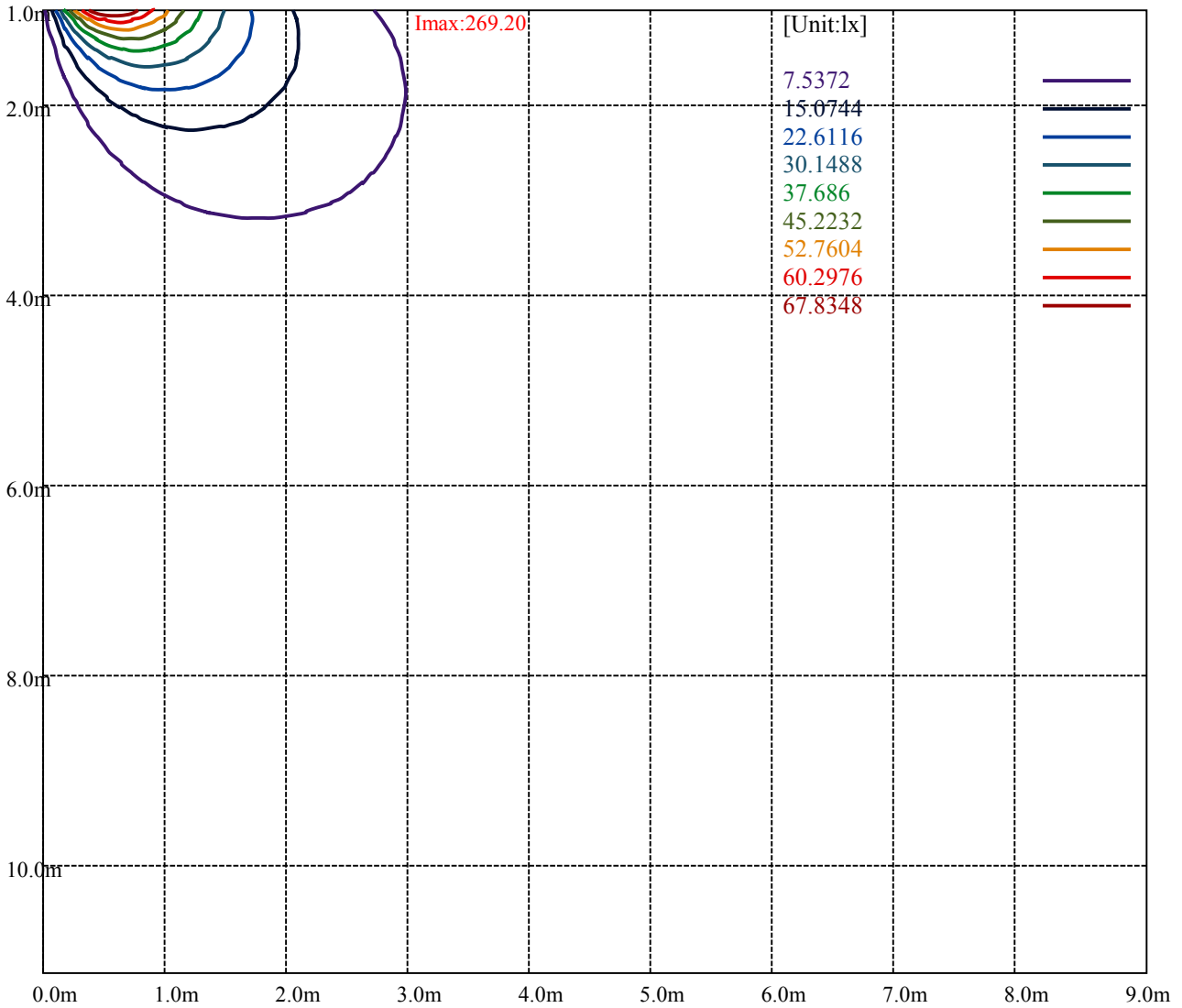
Beam Angle(50%Imax):C0/180Left:235.9 Right:55.9

:C90/270Left:54.9 Right:59.5



Max , Ave Beam angle of C15 plane 351.92





Luminance Table

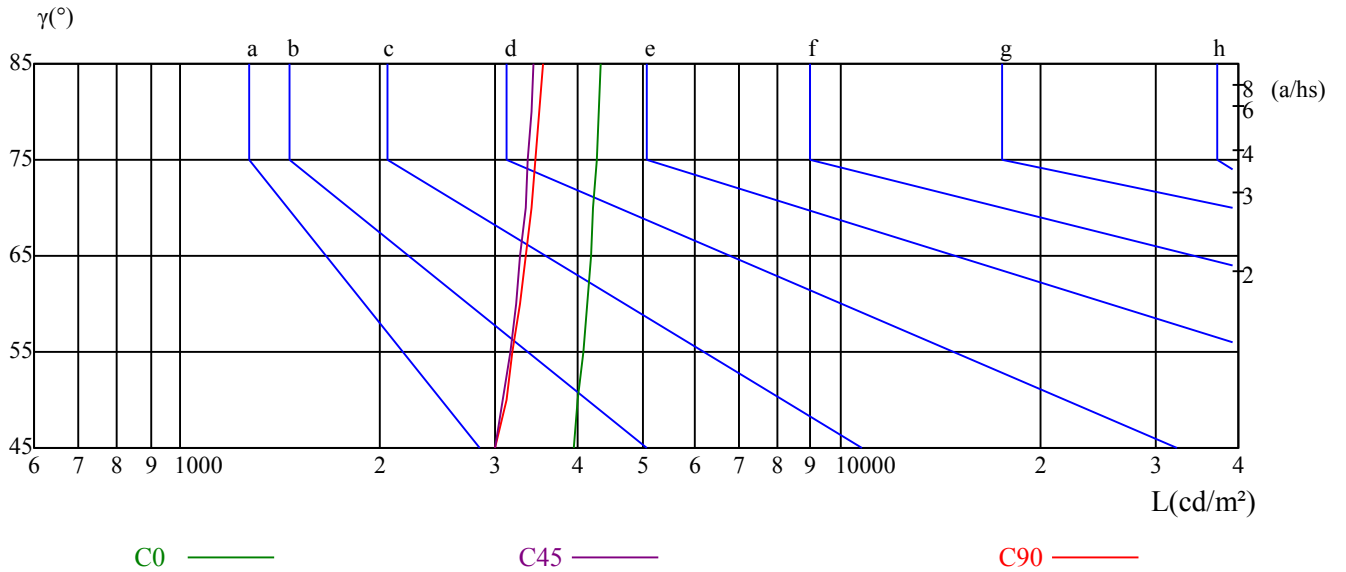
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|------|------|------|------|------|------|------|------|------|
| C0 | 3930 | 4005 | 4075 | 4134 | 4185 | 4226 | 4264 | 4292 | 4317 |
| C45 | 2993 | 3084 | 3158 | 3218 | 3272 | 3323 | 3365 | 3401 | 3432 |
| C90 | 3002 | 3116 | 3187 | 3269 | 3333 | 3390 | 3442 | 3489 | 3534 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 171720 | 45019 | 107999 | 301306 | 79783 | 190627 | 925480 | 247710 | 588066 |

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 | 1.07 | 1.07 | 1.07 | 0.99 | 0.99 | 0.99 | 0.83 | 0.83 | 0.83 | 0.69 | 0.69 | 0.69 | 0.56 | 0.56 | 0.56 | 0.50 |
| 1 | 0.85 | 0.79 | 0.73 | 0.78 | 0.72 | 0.68 | 0.64 | 0.60 | 0.56 | 0.52 | 0.49 | 0.46 | 0.40 | 0.38 | 0.36 | 0.30 |
| 2 | 0.71 | 0.63 | 0.55 | 0.65 | 0.57 | 0.51 | 0.53 | 0.47 | 0.42 | 0.42 | 0.38 | 0.34 | 0.32 | 0.29 | 0.26 | 0.21 |
| 3 | 0.61 | 0.51 | 0.43 | 0.55 | 0.47 | 0.40 | 0.45 | 0.38 | 0.33 | 0.35 | 0.30 | 0.26 | 0.27 | 0.23 | 0.19 | 0.15 |
| 4 | 0.52 | 0.43 | 0.35 | 0.48 | 0.39 | 0.32 | 0.39 | 0.32 | 0.26 | 0.30 | 0.25 | 0.21 | 0.23 | 0.19 | 0.15 | 0.11 |
| 5 | 0.46 | 0.36 | 0.29 | 0.42 | 0.33 | 0.27 | 0.34 | 0.27 | 0.22 | 0.27 | 0.21 | 0.17 | 0.20 | 0.16 | 0.12 | 0.09 |
| 6 | 0.41 | 0.31 | 0.24 | 0.37 | 0.28 | 0.22 | 0.30 | 0.23 | 0.18 | 0.24 | 0.18 | 0.14 | 0.18 | 0.13 | 0.10 | 0.07 |
| 7 | 0.36 | 0.27 | 0.21 | 0.33 | 0.25 | 0.19 | 0.27 | 0.20 | 0.15 | 0.21 | 0.16 | 0.12 | 0.16 | 0.12 | 0.08 | 0.06 |
| 8 | 0.33 | 0.24 | 0.18 | 0.30 | 0.22 | 0.16 | 0.24 | 0.18 | 0.13 | 0.19 | 0.14 | 0.10 | 0.14 | 0.10 | 0.07 | 0.05 |
| 9 | 0.29 | 0.21 | 0.15 | 0.27 | 0.19 | 0.14 | 0.22 | 0.16 | 0.11 | 0.17 | 0.12 | 0.09 | 0.13 | 0.09 | 0.06 | 0.04 |
| 10 | 0.27 | 0.19 | 0.14 | 0.24 | 0.17 | 0.12 | 0.20 | 0.14 | 0.10 | 0.16 | 0.11 | 0.08 | 0.12 | 0.08 | 0.05 | 0.03 |

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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 | 5.20 | 7.54 | 25.84 | 45.94 | 66.57 | 86.94 | 106.14 | 125.96 | 145.97 |
| 15.0 | 3.77 | 7.63 | 27.90 | 49.35 | 70.07 | 91.60 | 113.04 | 134.31 | 154.85 |
| 30.0 | 2.60 | 8.07 | 26.74 | 47.82 | 69.08 | 90.26 | 111.25 | 131.17 | 152.16 |
| 45.0 | 1.35 | 6.82 | 24.58 | 43.78 | 62.98 | 81.11 | 99.77 | 118.52 | 136.55 |
| 60.0 | 1.17 | 5.29 | 20.55 | 35.35 | 51.05 | 66.75 | 82.00 | 96.99 | 110.89 |
| 75.0 | 1.17 | 4.04 | 14.62 | 25.66 | 36.34 | 48.09 | 58.59 | 69.80 | 79.49 |
| 90.0 | 1.17 | 2.87 | 11.30 | 22.70 | 33.55 | 45.13 | 56.34 | 67.29 | 77.79 |
| 105.0 | 1.08 | 2.69 | 12.20 | 23.60 | 35.08 | 46.12 | 57.96 | 68.37 | 78.95 |
| 120.0 | 1.17 | 3.95 | 17.50 | 31.67 | 48.00 | 62.62 | 77.70 | 92.95 | 107.57 |
| 135.0 | 1.61 | 4.40 | 20.99 | 39.66 | 58.86 | 77.70 | 95.55 | 115.20 | 132.24 |
| 150.0 | 3.86 | 4.93 | 23.69 | 44.68 | 81.91 | 87.74 | 107.84 | 128.75 | 148.93 |
| 165.0 | 5.11 | 5.20 | 24.85 | 46.20 | 66.84 | 88.55 | 110.17 | 131.53 | 153.24 |
| 180.0 | 5.20 | 22.88 | 44.05 | 63.79 | 84.51 | 105.06 | 125.34 | 144.98 | 163.02 |
| 195.0 | 3.77 | 19.74 | 36.96 | 54.64 | 71.60 | 89.99 | 106.23 | 122.11 | 138.61 |
| 210.0 | 2.60 | 14.09 | 27.63 | 40.46 | 53.92 | 67.47 | 80.48 | 92.68 | 103.98 |
| 225.0 | 1.35 | 6.19 | 13.10 | 20.37 | 27.36 | 35.17 | 42.44 | 49.43 | 55.63 |
| 240.0 | 1.17 | 1.08 | 1.17 | 1.17 | 1.26 | 1.35 | 1.44 | 1.61 | 1.88 |
| 255.0 | 1.17 | 0.81 | 0.72 | 0.63 | 0.54 | 0.54 | 0.45 | 0.54 | 0.54 |
| 270.0 | 1.17 | 0.90 | 0.72 | 0.63 | 0.54 | 0.45 | 0.36 | 0.45 | 0.45 |
| 285.0 | 1.08 | 0.90 | 0.72 | 0.54 | 0.63 | 0.54 | 0.45 | 0.45 | 0.36 |
| 300.0 | 1.17 | 1.17 | 1.35 | 1.53 | 1.61 | 1.97 | 2.06 | 2.33 | 2.60 |
| 315.0 | 1.61 | 8.07 | 15.25 | 22.52 | 29.43 | 37.05 | 43.69 | 50.24 | 56.34 |
| 330.0 | 3.86 | 15.61 | 29.25 | 41.90 | 55.27 | 68.10 | 80.84 | 92.77 | 103.62 |
| 345.0 | 5.11 | 21.35 | 38.22 | 55.72 | 72.76 | 89.09 | 106.14 | 121.39 | 136.55 |
| 360.0 | 5.20 | 7.54 | 25.84 | 45.94 | 66.57 | 86.94 | 106.14 | 125.96 | 145.97 |
| C/ γ (°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 |
| 0.0 | 163.02 | 179.97 | 195.50 | 209.40 | 221.42 | 231.47 | 240.00 | 246.10 | 250.31 |
| 15.0 | 174.14 | 192.27 | 207.43 | 223.76 | 236.32 | 247.35 | 256.32 | 263.05 | 267.36 |
| 30.0 | 170.20 | 188.05 | 204.56 | 219.27 | 232.28 | 242.96 | 251.75 | 258.12 | 262.61 |
| 45.0 | 152.97 | 169.66 | 184.37 | 197.11 | 208.68 | 218.46 | 226.27 | 232.01 | 235.69 |
| 60.0 | 125.43 | 137.72 | 149.65 | 160.24 | 169.57 | 177.37 | 183.38 | 188.14 | 190.92 |
| 75.0 | 89.36 | 98.51 | 107.03 | 114.57 | 120.76 | 126.32 | 130.81 | 134.13 | 136.19 |
| 90.0 | 86.94 | 96.54 | 104.43 | 112.15 | 118.61 | 124.08 | 128.48 | 131.80 | 134.04 |
| 105.0 | 89.09 | 98.51 | 107.12 | 114.57 | 121.66 | 127.13 | 131.71 | 135.12 | 137.36 |
| 120.0 | 121.39 | 133.59 | 145.61 | 156.38 | 165.80 | 173.69 | 180.15 | 185.00 | 188.32 |
| 135.0 | 149.47 | 165.53 | 180.42 | 193.79 | 205.10 | 215.23 | 223.22 | 229.23 | 233.27 |
| 150.0 | 167.32 | 186.26 | 202.22 | 217.12 | 230.31 | 241.34 | 250.31 | 257.04 | 261.62 |
| 165.0 | 171.09 | 189.66 | 206.71 | 221.78 | 235.15 | 246.01 | 255.07 | 261.98 | 266.55 |
| 180.0 | 181.32 | 197.02 | 211.74 | 224.65 | 235.78 | 244.66 | 251.30 | 255.70 | 257.85 |
| 195.0 | 153.42 | 166.61 | 180.06 | 189.75 | 199.08 | 206.44 | 212.18 | 216.04 | 217.75 |
| 210.0 | 115.47 | 125.34 | 134.67 | 142.83 | 149.92 | 155.57 | 159.88 | 162.84 | 164.36 |
| 225.0 | 61.91 | 67.56 | 72.67 | 77.16 | 81.19 | 84.42 | 87.03 | 88.91 | 89.81 |
| 240.0 | 2.15 | 2.60 | 2.96 | 3.50 | 3.95 | 4.40 | 4.76 | 5.11 | 5.38 |
| 255.0 | 0.72 | 0.81 | 0.99 | 1.26 | 1.44 | 1.61 | 1.88 | 1.97 | 2.15 |
| 270.0 | 0.54 | 0.63 | 0.81 | 0.90 | 1.26 | 1.44 | 1.61 | 1.97 | 1.97 |
| 285.0 | 0.63 | 0.81 | 0.99 | 1.17 | 1.44 | 1.53 | 1.97 | 1.97 | 2.06 |
| 300.0 | 2.69 | 3.05 | 3.32 | 3.59 | 3.95 | 4.04 | 4.22 | 4.31 | 4.40 |
| 315.0 | 62.26 | 67.65 | 72.31 | 76.44 | 80.12 | 82.99 | 85.14 | 86.58 | 87.03 |
| 330.0 | 114.66 | 124.08 | 132.96 | 140.77 | 147.50 | 152.97 | 157.01 | 159.61 | 160.60 |
| 345.0 | 150.73 | 163.83 | 175.58 | 185.81 | 194.60 | 201.60 | 207.07 | 210.48 | 212.00 |
| 360.0 | 163.02 | 179.97 | 195.50 | 209.40 | 221.42 | 231.47 | 240.00 | 246.10 | 250.31 |

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 | 252.20 | 251.39 | 249.06 | 244.03 | 236.86 | 227.62 | 216.49 | 203.57 | 189.66 |
| 15.0 | 269.69 | 269.06 | 266.10 | 260.54 | 253.10 | 242.69 | 231.47 | 217.84 | 202.49 |
| 30.0 | 264.31 | 263.77 | 261.26 | 256.06 | 248.70 | 238.92 | 227.26 | 213.89 | 199.53 |
| 45.0 | 237.57 | 236.95 | 234.52 | 229.86 | 223.22 | 214.43 | 204.65 | 192.63 | 179.26 |
| 60.0 | 192.36 | 192.00 | 189.75 | 186.34 | 180.96 | 174.05 | 165.62 | 156.20 | 145.07 |
| 75.0 | 137.18 | 137.09 | 135.74 | 133.23 | 129.37 | 124.53 | 118.97 | 112.15 | 104.43 |
| 90.0 | 135.03 | 134.85 | 133.77 | 131.08 | 127.76 | 123.09 | 117.44 | 110.71 | 103.53 |
| 105.0 | 138.61 | 138.35 | 137.18 | 134.67 | 130.90 | 126.14 | 120.22 | 113.85 | 106.14 |
| 120.0 | 189.84 | 189.75 | 187.87 | 184.73 | 179.71 | 172.98 | 164.99 | 155.48 | 144.98 |
| 135.0 | 235.06 | 235.15 | 232.55 | 228.51 | 221.96 | 213.53 | 203.30 | 192.09 | 178.99 |
| 150.0 | 263.86 | 263.59 | 260.90 | 255.70 | 248.97 | 238.74 | 228.06 | 214.88 | 200.61 |
| 165.0 | 268.71 | 268.44 | 266.19 | 261.17 | 253.72 | 244.12 | 232.46 | 219.63 | 204.56 |
| 180.0 | 257.67 | 255.25 | 250.31 | 243.23 | 233.99 | 222.86 | 210.39 | 194.78 | 179.17 |
| 195.0 | 218.10 | 215.41 | 211.38 | 205.81 | 198.01 | 188.50 | 177.55 | 164.90 | 151.00 |
| 210.0 | 164.81 | 162.93 | 159.88 | 155.48 | 149.83 | 142.38 | 134.49 | 124.53 | 114.75 |
| 225.0 | 90.17 | 89.36 | 87.74 | 85.59 | 82.45 | 78.59 | 77.16 | 68.81 | 63.16 |
| 240.0 | 5.65 | 5.74 | 5.65 | 5.65 | 5.47 | 5.20 | 4.93 | 4.58 | 4.13 |
| 255.0 | 2.15 | 2.15 | 1.97 | 1.97 | 1.61 | 1.44 | 1.26 | 0.99 | 0.81 |
| 270.0 | 2.06 | 1.97 | 1.97 | 1.61 | 1.44 | 1.26 | 1.08 | 0.81 | 0.63 |
| 285.0 | 2.06 | 2.06 | 2.06 | 1.79 | 1.53 | 1.35 | 1.08 | 0.81 | 0.54 |
| 300.0 | 4.31 | 4.22 | 4.04 | 3.86 | 3.50 | 3.14 | 2.69 | 2.24 | 1.97 |
| 315.0 | 86.94 | 85.77 | 83.89 | 81.28 | 77.97 | 74.02 | 69.35 | 63.97 | 58.23 |
| 330.0 | 160.42 | 158.62 | 155.30 | 150.64 | 144.89 | 137.81 | 130.00 | 120.31 | 110.71 |
| 345.0 | 211.56 | 209.04 | 204.74 | 199.17 | 190.83 | 182.31 | 171.36 | 159.16 | 145.79 |
| 360.0 | 252.20 | 251.39 | 249.06 | 244.03 | 236.86 | 227.62 | 216.49 | 203.57 | 189.66 |
| C/ γ (°) | 135.0 | 140.0 | 145.0 | 150.0 | 155.0 | 160.0 | 165.0 | 170.0 | 175.0 |
| 0.0 | 173.96 | 156.65 | 138.61 | 119.86 | 101.29 | 81.28 | 60.83 | 41.00 | 22.61 |
| 15.0 | 185.45 | 167.77 | 148.48 | 128.48 | 107.57 | 86.49 | 64.69 | 44.77 | 24.40 |
| 30.0 | 183.11 | 165.35 | 146.42 | 126.59 | 107.30 | 86.58 | 65.14 | 44.14 | 24.67 |
| 45.0 | 164.54 | 148.48 | 132.24 | 115.47 | 96.45 | 77.70 | 59.57 | 40.46 | 21.80 |
| 60.0 | 133.59 | 120.94 | 107.39 | 92.95 | 78.86 | 63.79 | 48.27 | 32.75 | 17.50 |
| 75.0 | 96.00 | 86.85 | 77.61 | 67.47 | 56.88 | 46.03 | 34.72 | 24.22 | 13.28 |
| 90.0 | 94.83 | 86.31 | 76.71 | 66.57 | 55.89 | 45.40 | 34.18 | 22.79 | 11.66 |
| 105.0 | 97.52 | 88.37 | 78.95 | 68.54 | 57.87 | 46.83 | 36.16 | 24.40 | 14.09 |
| 120.0 | 133.86 | 120.58 | 107.75 | 93.67 | 79.67 | 63.97 | 49.43 | 34.27 | 19.29 |
| 135.0 | 164.45 | 148.75 | 131.98 | 115.02 | 96.90 | 78.50 | 59.93 | 42.17 | 23.78 |
| 150.0 | 183.65 | 166.79 | 148.04 | 128.39 | 107.93 | 88.19 | 67.47 | 46.47 | 26.11 |
| 165.0 | 187.96 | 170.11 | 151.71 | 130.72 | 110.80 | 89.54 | 69.35 | 47.01 | 27.27 |
| 180.0 | 161.76 | 143.19 | 123.72 | 103.45 | 84.16 | 63.70 | 44.14 | 24.85 | 7.45 |
| 195.0 | 136.19 | 121.30 | 104.79 | 87.83 | 70.43 | 66.30 | 36.61 | 20.28 | 3.23 |
| 210.0 | 103.71 | 100.75 | 79.40 | 66.57 | 53.56 | 41.18 | 27.54 | 14.62 | 1.08 |
| 225.0 | 56.97 | 50.60 | 43.69 | 36.96 | 29.88 | 22.61 | 15.16 | 6.64 | 0.99 |
| 240.0 | 3.77 | 3.41 | 3.23 | 2.87 | 2.60 | 2.33 | 1.97 | 1.08 | 0.90 |
| 255.0 | 0.63 | 0.54 | 0.63 | 0.63 | 0.72 | 0.72 | 0.81 | 0.72 | 0.99 |
| 270.0 | 0.54 | 0.45 | 0.54 | 0.54 | 0.45 | 0.63 | 0.54 | 0.63 | 0.99 |
| 285.0 | 0.45 | 0.36 | 0.36 | 0.36 | 0.45 | 0.54 | 0.54 | 0.72 | 1.08 |
| 300.0 | 1.53 | 1.26 | 1.08 | 0.90 | 0.90 | 0.81 | 0.81 | 0.99 | 1.26 |
| 315.0 | 52.31 | 45.58 | 39.30 | 32.48 | 25.39 | 18.48 | 11.93 | 5.02 | 1.53 |
| 330.0 | 99.95 | 88.10 | 75.72 | 63.16 | 50.96 | 38.04 | 25.21 | 13.10 | 2.87 |
| 345.0 | 131.35 | 116.81 | 100.66 | 84.16 | 67.38 | 51.23 | 34.09 | 18.57 | 3.95 |
| 360.0 | 173.96 | 156.65 | 138.61 | 119.86 | 101.29 | 81.28 | 60.83 | 41.00 | 22.61 |

Intensity data(cd)

| | |
|--------|-------|
| C/γ(°) | 180.0 |
| 0.0 | 2.06 |
| 15.0 | 5.20 |
| 30.0 | 5.65 |
| 45.0 | 4.93 |
| 60.0 | 3.86 |
| 75.0 | 3.32 |
| 90.0 | 3.14 |
| 105.0 | 4.40 |
| 120.0 | 5.47 |
| 135.0 | 6.82 |
| 150.0 | 7.18 |
| 165.0 | 7.81 |
| 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 | 2.06 |