
AFX

Client:

LumCAT: JUNP18LAJUDBK

Luminaire: LED Lamp

Report No:

Ballast type:

Test No: LCZP25080173

Voltage(V): 120.040

LampCAT:

Current(A): 0.246

Lamp flux(lm): 2219.6

Power (W): 29.310

Number of Lamps: 1

PF: 0.992

Length(mm): -450

Width(mm): -450

Phm Type: C

Height(mm): 50

Photometric Results

Lumens(lm): 2219.60, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 75.73

Central intensity(cd): 503.319, Maximum intensity(cd): 503.319

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=123.8

[C90/270]Total=125.6

Field angle(10%Imax): [C0/180]Total=358.8

[C90/270]Total=358.8

Maximum s/h(1/2): C0_180=1.29 C90_270=1.29

Maximum s/h(1/4): C0_180=1.42 C90_270=1.42

Up flux rate of lamp(%): 23.17%

Down flux rate of lamp(%): 76.83%

Up flux rate of LUM(%): 23.17%

Down flux rate of LUM(%): 76.83%

CIE Type : Semidirect lighting

Output flux ratio in π solid angle : 53.373%

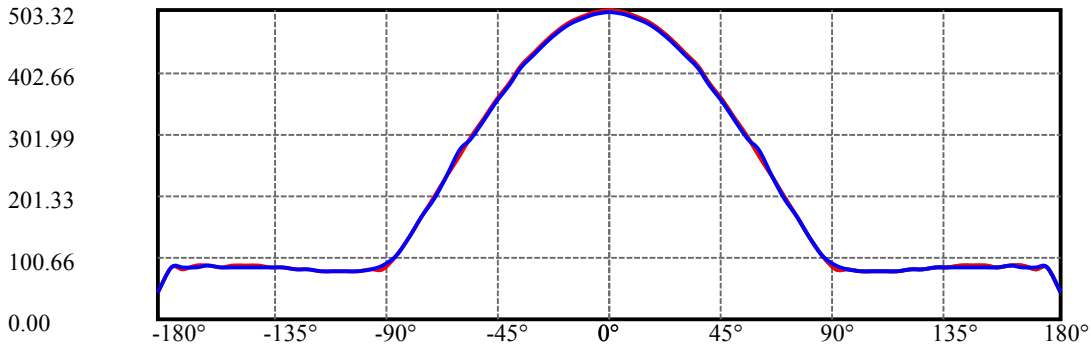
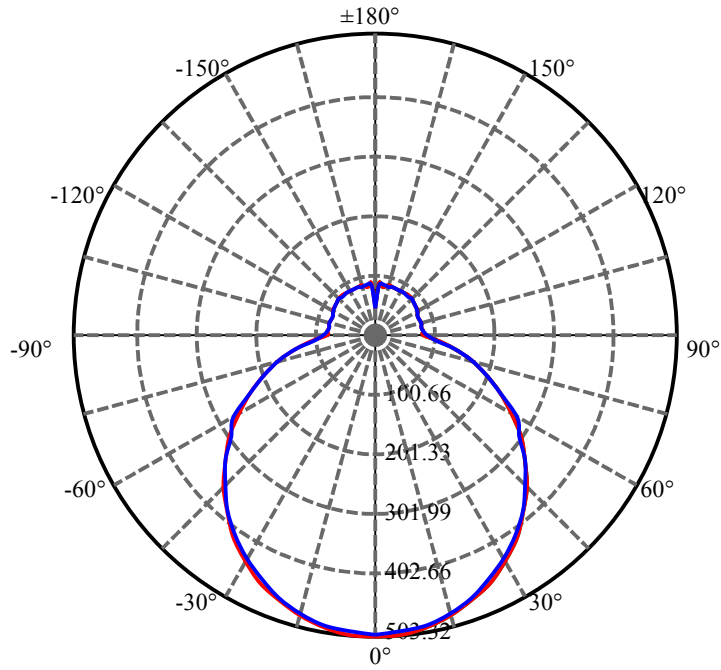
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 499.394 | 0.000 | 0 | 0.00% | 0.00% |
| 5.0 | 497.200 | 11.914 | 11.914 | 0.54% | 0.54% |
| 10.0 | 491.211 | 35.359 | 47.273 | 1.59% | 2.13% |
| 15.0 | 481.387 | 57.694 | 104.966 | 2.60% | 4.73% |
| 20.0 | 468.183 | 78.258 | 183.224 | 3.53% | 8.25% |
| 25.0 | 451.174 | 96.424 | 279.648 | 4.34% | 12.60% |
| 30.0 | 431.182 | 111.663 | 391.311 | 5.03% | 17.63% |
| 35.0 | 408.154 | 123.598 | 514.909 | 5.57% | 23.20% |
| 40.0 | 383.497 | 132.081 | 646.99 | 5.95% | 29.15% |
| 45.0 | 354.765 | 136.695 | 783.685 | 6.16% | 35.31% |
| 50.0 | 325.191 | 137.395 | 921.08 | 6.19% | 41.50% |
| 55.0 | 294.294 | 134.697 | 1055.777 | 6.07% | 47.57% |
| 60.0 | 263.278 | 128.881 | 1184.658 | 5.81% | 53.37% |
| 65.0 | 230.138 | 119.950 | 1304.609 | 5.40% | 58.78% |
| 70.0 | 197.279 | 108.225 | 1412.834 | 4.88% | 63.65% |
| 75.0 | 165.388 | 94.795 | 1507.629 | 4.27% | 67.92% |
| 80.0 | 135.018 | 80.380 | 1588.009 | 3.62% | 71.54% |
| 85.0 | 104.694 | 65.136 | 1653.145 | 2.93% | 74.48% |
| 90.0 | 86.227 | 52.275 | 1705.42 | 2.36% | 76.83% |
| 95.0 | 79.950 | 45.501 | 1750.921 | 2.05% | 78.88% |
| 100.0 | 79.008 | 43.193 | 1794.114 | 1.95% | 80.83% |
| 105.0 | 78.388 | 42.115 | 1836.228 | 1.90% | 82.73% |
| 110.0 | 78.350 | 40.969 | 1877.197 | 1.85% | 84.57% |
| 115.0 | 79.023 | 39.848 | 1917.045 | 1.80% | 86.37% |
| 120.0 | 80.189 | 38.705 | 1955.75 | 1.74% | 88.11% |
| 125.0 | 81.685 | 37.417 | 1993.167 | 1.69% | 89.80% |
| 130.0 | 83.128 | 35.836 | 2029.002 | 1.61% | 91.41% |
| 135.0 | 84.485 | 33.869 | 2062.871 | 1.53% | 92.94% |
| 140.0 | 85.726 | 31.516 | 2094.387 | 1.42% | 94.36% |
| 145.0 | 86.122 | 28.671 | 2123.058 | 1.29% | 95.65% |
| 150.0 | 85.872 | 25.327 | 2148.385 | 1.14% | 96.79% |
| 155.0 | 85.864 | 21.733 | 2170.119 | 0.98% | 97.77% |
| 160.0 | 85.064 | 17.927 | 2188.046 | 0.81% | 98.58% |
| 165.0 | 84.242 | 13.953 | 2201.999 | 0.63% | 99.21% |
| 170.0 | 83.711 | 9.963 | 2211.962 | 0.45% | 99.66% |
| 175.0 | 85.969 | 6.070 | 2218.032 | 0.27% | 99.93% |
| 180.0 | 44.968 | 1.565 | 2219.597 | 0.07% | 100.00% |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|---------|---------|
| 0-30 | 391.31 | 17.63% | 17.63% |
| 0-40 | 646.99 | 29.15% | 29.15% |
| 0-60 | 1184.66 | 53.37% | 53.37% |
| 0-90 | 1705.42 | 76.83% | 76.83% |
| 0-120 | 1955.75 | 88.11% | 88.11% |
| 0-180 | 2219.60 | 100.00% | 100.00% |
| 60-90 | 520.76 | 23.46% | 23.46% |
| 90-120 | 250.33 | 11.28% | 11.28% |
| 90-130 | 323.58 | 14.58% | 14.58% |
| 90-150 | 442.96 | 19.96% | 19.96% |
| 90-180 | 512.61 | 23.09% | 23.09% |
| 0-97.87 | 1775.68 | 80.00% | 80.00% |

ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 47.27 |
| 10-20 | 135.95 |
| 20-30 | 208.09 |
| 30-40 | 255.68 |
| 40-50 | 274.09 |
| 50-60 | 263.58 |
| 60-70 | 228.18 |
| 70-80 | 175.18 |
| 80-90 | 117.41 |
| 90-100 | 88.69 |
| 100-110 | 83.08 |
| 110-120 | 78.55 |
| 120-130 | 73.25 |
| 130-140 | 65.38 |
| 140-150 | 54.00 |
| 150-160 | 39.66 |
| 160-170 | 23.92 |
| 170-180 | 6.07 |



C0(Max): ———

C0/C180: ———

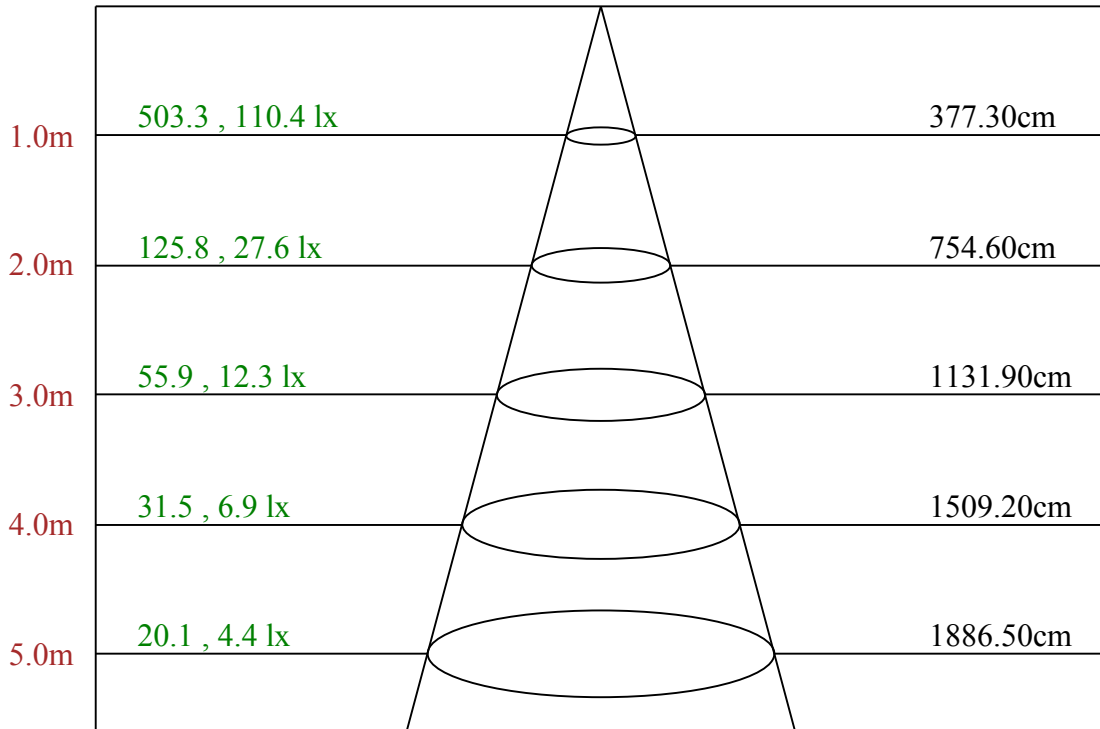
C90/C270: ———

Field angle(10%Imax):C0/180Left:179.4 Right:179.4

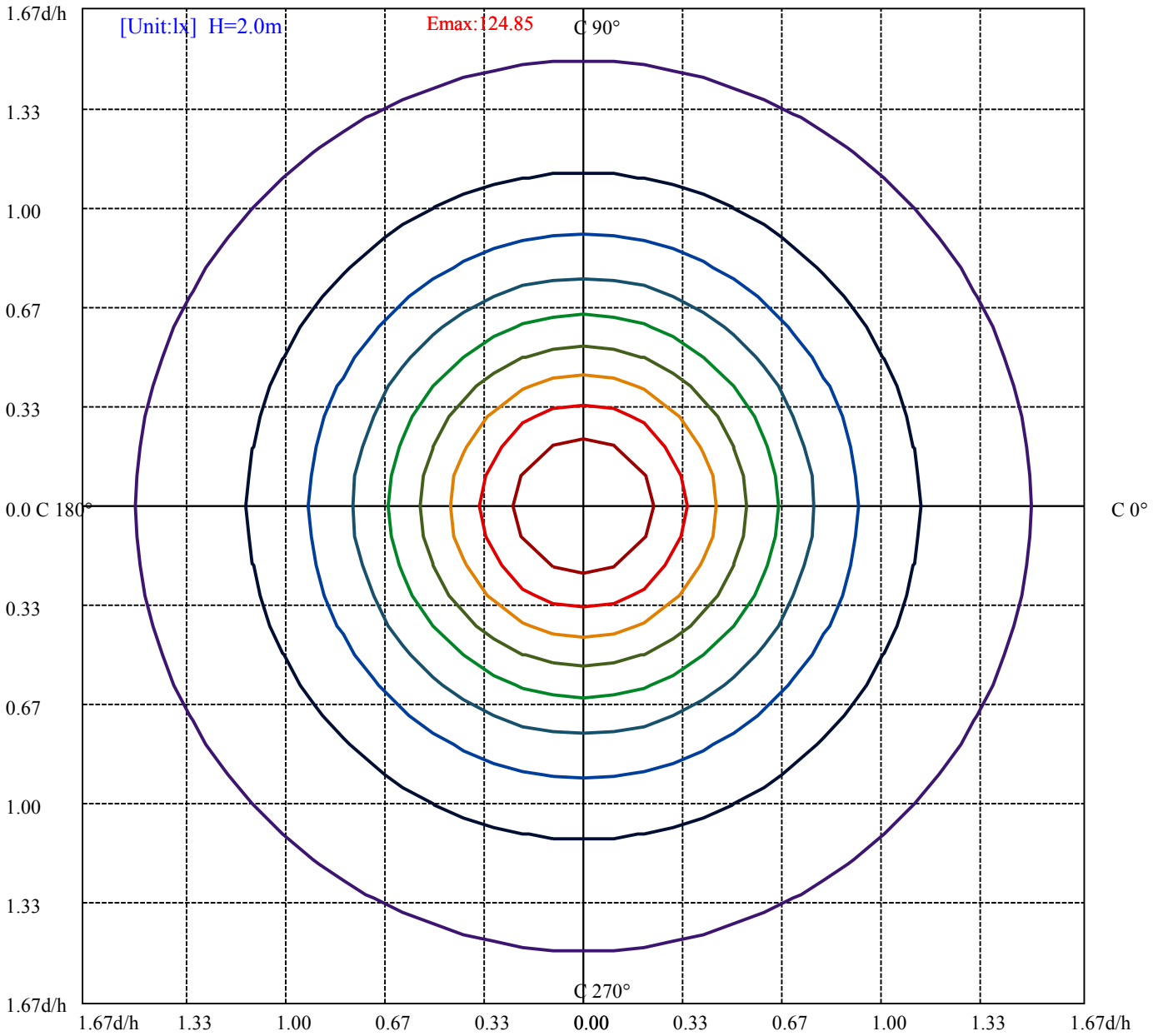
:C90/270Left:179.4 Right:179.4










Beam Angle(50%Imax):C0/180Left:61.9 Right:61.9

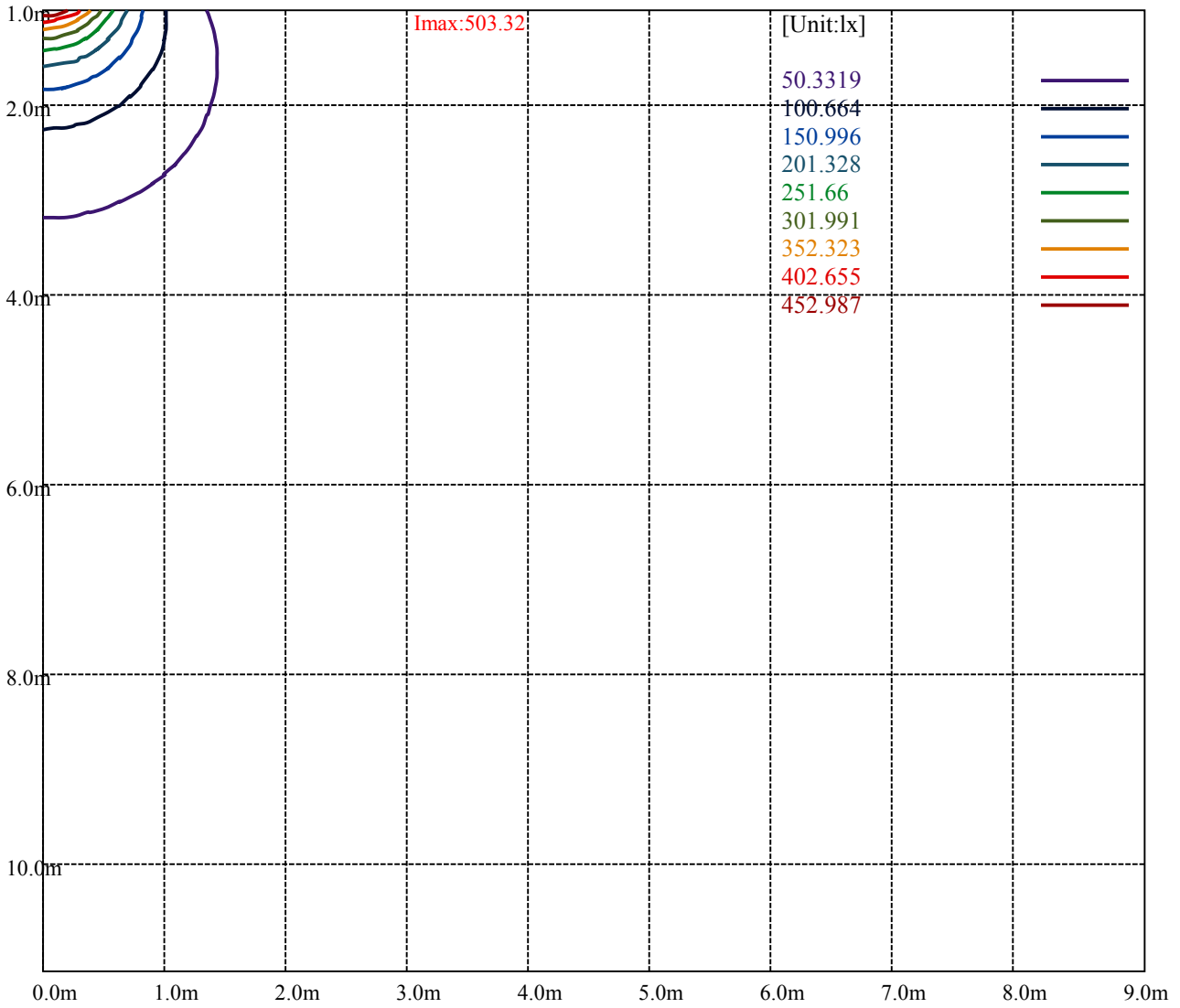
:C90/270Left:62.8 Right:62.8



Max , Ave Beam angle of C0 plane 124.15



| | |
|--------------------|---|
| (10%Emax) 12.4854 |  |
| (20%Emax) 24.9708 |  |
| (30%Emax) 37.45625 |  |
| (40%Emax) 49.9415 |  |
| (50%Emax) 62.427 |  |
| (60%Emax) 74.9125 |  |
| (70%Emax) 87.39775 |  |
| (80%Emax) 99.88325 |  |
| (90%Emax) 112.3688 |  |



Luminance Table

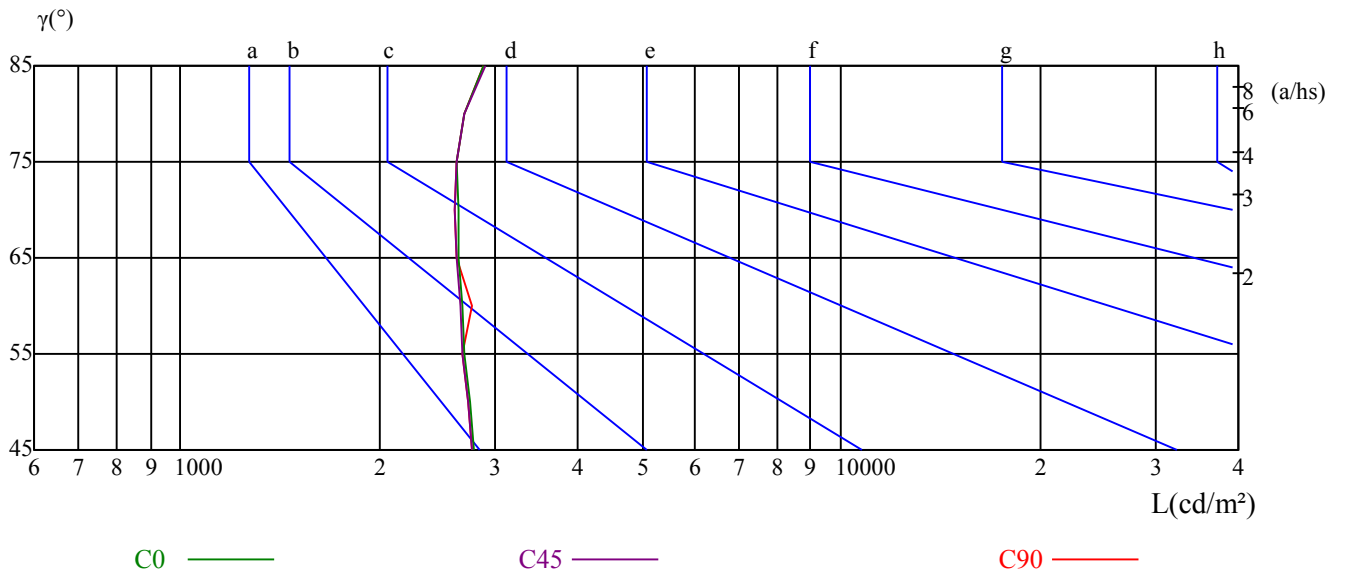
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|----------|------|------|------|------|------|------|------|------|------|
| C0 | 2786 | 2741 | 2697 | 2672 | 2636 | 2630 | 2627 | 2696 | 2884 |
| C45 | 2756 | 2727 | 2678 | 2651 | 2623 | 2609 | 2626 | 2692 | 2896 |
| C90 | 2761 | 2718 | 2680 | 2768 | 2624 | 2610 | 2622 | 2690 | 2883 |

| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| 3436 | 3420 | 3418 | 4014 | 4006 | 4013 | 7547 | 7544 | 7578 |

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 | 1.14 | 1.14 | 1.14 | 1.08 | 1.08 | 1.08 | 0.98 | 0.98 | 0.98 | 0.89 | 0.89 | 0.89 | 0.81 | 0.81 | 0.81 | 0.77 |
| 1 | 0.96 | 0.91 | 0.87 | 0.92 | 0.87 | 0.83 | 0.83 | 0.79 | 0.76 | 0.75 | 0.72 | 0.70 | 0.68 | 0.66 | 0.64 | 0.60 |
| 2 | 0.83 | 0.75 | 0.69 | 0.79 | 0.72 | 0.66 | 0.71 | 0.66 | 0.61 | 0.65 | 0.60 | 0.57 | 0.58 | 0.55 | 0.52 | 0.49 |
| 3 | 0.72 | 0.63 | 0.57 | 0.69 | 0.61 | 0.55 | 0.62 | 0.56 | 0.51 | 0.56 | 0.51 | 0.47 | 0.51 | 0.47 | 0.43 | 0.40 |
| 4 | 0.63 | 0.54 | 0.47 | 0.60 | 0.52 | 0.46 | 0.55 | 0.48 | 0.43 | 0.50 | 0.44 | 0.40 | 0.45 | 0.41 | 0.37 | 0.34 |
| 5 | 0.56 | 0.47 | 0.40 | 0.54 | 0.45 | 0.39 | 0.49 | 0.42 | 0.37 | 0.45 | 0.39 | 0.34 | 0.41 | 0.36 | 0.32 | 0.29 |
| 6 | 0.50 | 0.41 | 0.35 | 0.48 | 0.40 | 0.34 | 0.44 | 0.37 | 0.32 | 0.40 | 0.34 | 0.30 | 0.37 | 0.32 | 0.28 | 0.25 |
| 7 | 0.46 | 0.37 | 0.31 | 0.44 | 0.35 | 0.30 | 0.40 | 0.33 | 0.28 | 0.37 | 0.31 | 0.26 | 0.33 | 0.28 | 0.24 | 0.22 |
| 8 | 0.41 | 0.33 | 0.27 | 0.40 | 0.32 | 0.26 | 0.36 | 0.30 | 0.25 | 0.33 | 0.28 | 0.23 | 0.31 | 0.26 | 0.22 | 0.20 |
| 9 | 0.38 | 0.30 | 0.24 | 0.36 | 0.29 | 0.23 | 0.33 | 0.27 | 0.22 | 0.31 | 0.25 | 0.21 | 0.28 | 0.23 | 0.20 | 0.18 |
| 10 | 0.35 | 0.27 | 0.22 | 0.33 | 0.26 | 0.21 | 0.31 | 0.24 | 0.20 | 0.28 | 0.23 | 0.19 | 0.26 | 0.21 | 0.18 | 0.16 |

AFX JUNP18LAJUDBK

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 | 503.32 | 500.81 | 494.26 | 484.03 | 471.11 | 452.90 | 433.43 | 410.10 | 384.44 |
| 15.0 | 502.06 | 501.35 | 497.04 | 488.96 | 477.21 | 461.78 | 442.94 | 421.05 | 397.18 |
| 30.0 | 500.72 | 500.45 | 496.23 | 488.43 | 476.58 | 461.15 | 442.67 | 420.87 | 396.46 |
| 45.0 | 500.18 | 499.82 | 495.96 | 487.80 | 476.04 | 460.61 | 442.04 | 420.33 | 397.27 |
| 60.0 | 499.28 | 499.19 | 495.33 | 487.53 | 477.39 | 460.79 | 443.84 | 422.21 | 397.36 |
| 75.0 | 498.47 | 499.73 | 494.80 | 488.07 | 476.58 | 461.78 | 443.12 | 421.59 | 396.91 |
| 90.0 | 499.01 | 499.64 | 495.87 | 488.70 | 478.02 | 462.59 | 445.36 | 423.92 | 399.69 |
| 105.0 | 498.65 | 499.46 | 495.78 | 488.52 | 477.93 | 463.57 | 445.45 | 423.65 | 399.78 |
| 120.0 | 498.03 | 499.10 | 496.23 | 489.05 | 478.20 | 463.84 | 445.72 | 424.64 | 400.32 |
| 135.0 | 498.65 | 498.74 | 495.87 | 488.78 | 478.29 | 463.93 | 445.81 | 424.55 | 400.59 |
| 150.0 | 497.22 | 498.65 | 495.96 | 488.70 | 467.25 | 464.20 | 447.34 | 425.17 | 402.12 |
| 165.0 | 497.13 | 498.65 | 495.78 | 488.96 | 478.38 | 465.64 | 446.44 | 427.06 | 400.59 |
| 180.0 | 503.32 | 501.61 | 495.96 | 486.27 | 472.82 | 456.22 | 436.39 | 413.24 | 387.31 |
| 195.0 | 502.06 | 497.31 | 490.76 | 478.20 | 464.47 | 445.81 | 424.10 | 399.69 | 372.78 |
| 210.0 | 500.72 | 496.77 | 488.96 | 477.39 | 462.32 | 443.75 | 423.83 | 399.34 | 372.69 |
| 225.0 | 500.18 | 496.05 | 488.07 | 476.58 | 461.78 | 443.30 | 421.68 | 397.27 | 370.45 |
| 240.0 | 499.28 | 494.98 | 487.17 | 475.51 | 460.43 | 441.95 | 420.42 | 396.11 | 369.28 |
| 255.0 | 498.47 | 494.53 | 486.36 | 474.61 | 459.45 | 440.61 | 418.89 | 394.31 | 368.29 |
| 270.0 | 499.01 | 494.17 | 485.56 | 473.17 | 457.83 | 438.72 | 416.92 | 392.16 | 365.24 |
| 285.0 | 498.65 | 493.72 | 485.11 | 472.55 | 456.67 | 437.47 | 415.04 | 389.92 | 383.81 |
| 300.0 | 498.03 | 492.73 | 483.76 | 471.11 | 467.43 | 435.49 | 412.70 | 387.76 | 362.55 |
| 315.0 | 498.65 | 492.01 | 482.77 | 470.93 | 453.71 | 434.95 | 412.34 | 387.31 | 360.13 |
| 330.0 | 497.22 | 491.75 | 482.59 | 469.67 | 453.17 | 433.52 | 410.82 | 387.40 | 360.04 |
| 345.0 | 497.13 | 491.57 | 482.86 | 469.76 | 453.35 | 433.61 | 411.09 | 386.06 | 358.60 |
| 360.0 | 503.32 | 500.81 | 494.26 | 484.03 | 471.11 | 452.90 | 433.43 | 410.10 | 384.44 |

| C/γ(°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 355.91 | 325.50 | 293.65 | 262.52 | 229.50 | 196.75 | 164.09 | 132.42 | 103.80 |
| 15.0 | 370.00 | 340.48 | 309.89 | 277.86 | 246.73 | 212.00 | 180.69 | 148.48 | 117.53 |
| 30.0 | 369.10 | 339.49 | 308.81 | 278.49 | 245.92 | 212.81 | 179.97 | 149.65 | 116.90 |
| 45.0 | 368.47 | 341.20 | 310.16 | 278.04 | 245.56 | 212.54 | 181.41 | 148.84 | 117.89 |
| 60.0 | 370.45 | 341.20 | 312.40 | 278.58 | 247.53 | 214.70 | 181.77 | 149.38 | 119.68 |
| 75.0 | 371.61 | 342.81 | 312.22 | 280.28 | 247.44 | 215.95 | 181.50 | 150.82 | 119.59 |
| 90.0 | 372.87 | 344.07 | 314.01 | 281.80 | 250.67 | 217.66 | 184.82 | 152.25 | 122.38 |
| 105.0 | 373.68 | 344.16 | 314.91 | 283.33 | 250.76 | 217.75 | 186.43 | 153.96 | 121.30 |
| 120.0 | 373.77 | 345.24 | 316.80 | 283.51 | 252.65 | 219.45 | 186.70 | 154.23 | 123.00 |
| 135.0 | 374.12 | 346.85 | 316.80 | 285.21 | 252.56 | 219.63 | 186.97 | 156.29 | 124.80 |
| 150.0 | 375.65 | 346.94 | 316.88 | 285.48 | 254.62 | 221.51 | 188.86 | 156.29 | 126.59 |
| 165.0 | 375.56 | 346.85 | 318.77 | 287.19 | 254.53 | 221.51 | 190.47 | 157.90 | 126.50 |
| 180.0 | 359.41 | 329.45 | 297.77 | 266.55 | 232.37 | 200.52 | 166.34 | 135.92 | 105.42 |
| 195.0 | 345.24 | 312.94 | 282.34 | 249.69 | 216.67 | 183.65 | 151.44 | 121.48 | 91.06 |
| 210.0 | 343.62 | 313.03 | 280.91 | 248.16 | 217.03 | 182.40 | 151.98 | 120.67 | 91.60 |
| 225.0 | 341.56 | 312.76 | 278.93 | 248.25 | 215.41 | 182.49 | 150.37 | 119.15 | 91.96 |
| 240.0 | 340.30 | 309.71 | 278.04 | 245.56 | 214.52 | 181.59 | 149.56 | 118.61 | 90.08 |
| 255.0 | 338.60 | 309.08 | 277.41 | 244.84 | 212.18 | 179.89 | 149.56 | 138.97 | 88.10 |
| 270.0 | 335.91 | 305.40 | 273.82 | 266.37 | 209.13 | 176.66 | 144.98 | 115.56 | 86.76 |
| 285.0 | 334.02 | 303.52 | 273.37 | 239.19 | 208.33 | 174.32 | 144.45 | 113.85 | 86.67 |
| 300.0 | 333.57 | 302.89 | 271.04 | 238.65 | 206.17 | 174.05 | 144.09 | 111.97 | 86.67 |
| 315.0 | 330.88 | 302.26 | 268.62 | 238.29 | 205.54 | 173.52 | 142.02 | 111.70 | 85.50 |
| 330.0 | 330.70 | 300.20 | 268.44 | 236.14 | 203.66 | 171.63 | 140.32 | 111.79 | 84.42 |
| 345.0 | 329.36 | 298.58 | 267.09 | 234.70 | 203.84 | 171.72 | 140.50 | 110.26 | 84.42 |
| 360.0 | 355.91 | 325.50 | 293.65 | 262.52 | 229.50 | 196.75 | 164.09 | 132.42 | 103.80 |

AFX JUNP18LAJUDBK

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 | 81.73 | 80.12 | 79.40 | 78.77 | 78.77 | 79.49 | 80.84 | 82.36 | 84.07 |
| 15.0 | 89.18 | 80.66 | 79.67 | 78.77 | 78.59 | 78.77 | 79.94 | 81.64 | 83.17 |
| 30.0 | 89.81 | 80.57 | 79.31 | 78.50 | 78.32 | 78.68 | 79.85 | 81.55 | 82.90 |
| 45.0 | 89.45 | 80.48 | 79.22 | 78.41 | 78.14 | 78.41 | 79.67 | 81.11 | 82.63 |
| 60.0 | 89.63 | 80.21 | 79.04 | 78.23 | 77.88 | 78.23 | 79.13 | 80.93 | 82.27 |
| 75.0 | 90.79 | 80.12 | 78.86 | 77.97 | 77.61 | 77.88 | 78.77 | 80.66 | 82.54 |
| 90.0 | 91.96 | 79.94 | 78.68 | 77.61 | 77.34 | 77.61 | 78.50 | 80.21 | 82.09 |
| 105.0 | 93.40 | 79.76 | 78.50 | 77.43 | 77.07 | 77.43 | 78.41 | 80.03 | 81.91 |
| 120.0 | 93.58 | 79.76 | 78.41 | 77.34 | 76.89 | 77.16 | 78.14 | 79.94 | 81.64 |
| 135.0 | 95.28 | 79.58 | 78.23 | 77.25 | 76.80 | 77.16 | 77.97 | 79.58 | 81.55 |
| 150.0 | 95.37 | 79.67 | 78.14 | 77.16 | 76.62 | 76.98 | 77.88 | 79.49 | 81.28 |
| 165.0 | 96.72 | 79.40 | 77.88 | 76.89 | 76.53 | 76.71 | 77.70 | 79.31 | 81.02 |
| 180.0 | 81.37 | 79.67 | 78.68 | 78.14 | 78.05 | 78.68 | 80.12 | 81.37 | 83.08 |
| 195.0 | 80.66 | 79.22 | 78.50 | 78.05 | 78.41 | 79.49 | 81.11 | 82.36 | 83.80 |
| 210.0 | 80.57 | 79.22 | 78.59 | 78.23 | 78.41 | 79.67 | 81.11 | 82.54 | 83.80 |
| 225.0 | 80.57 | 79.49 | 78.68 | 78.32 | 78.59 | 79.76 | 80.12 | 82.63 | 83.62 |
| 240.0 | 80.75 | 79.76 | 79.31 | 78.50 | 78.77 | 79.85 | 81.37 | 82.72 | 83.53 |
| 255.0 | 80.75 | 79.67 | 79.04 | 78.77 | 78.95 | 80.12 | 81.55 | 82.99 | 83.62 |
| 270.0 | 81.02 | 79.85 | 79.31 | 79.04 | 79.40 | 80.21 | 81.64 | 82.81 | 83.89 |
| 285.0 | 81.11 | 80.12 | 79.40 | 79.31 | 79.58 | 80.57 | 81.73 | 83.08 | 84.07 |
| 300.0 | 81.46 | 80.30 | 79.85 | 79.58 | 79.85 | 80.84 | 82.18 | 83.26 | 84.42 |
| 315.0 | 81.37 | 80.48 | 79.76 | 79.67 | 80.03 | 80.93 | 82.27 | 83.17 | 84.60 |
| 330.0 | 81.55 | 80.48 | 79.85 | 79.67 | 79.85 | 81.02 | 82.27 | 83.26 | 84.78 |
| 345.0 | 81.37 | 80.30 | 79.85 | 79.67 | 79.94 | 80.93 | 82.27 | 83.44 | 84.78 |
| 360.0 | 81.73 | 80.12 | 79.40 | 78.77 | 78.77 | 79.49 | 80.84 | 82.36 | 84.07 |
| C/γ(°) | 135.0 | 140.0 | 145.0 | 150.0 | 155.0 | 160.0 | 165.0 | 170.0 | 175.0 |
| 0.0 | 85.41 | 86.94 | 87.12 | 87.21 | 87.65 | 87.21 | 85.59 | 81.11 | 88.10 |
| 15.0 | 84.69 | 86.49 | 87.39 | 86.85 | 86.58 | 86.49 | 85.41 | 80.84 | 88.01 |
| 30.0 | 84.42 | 86.13 | 87.21 | 86.31 | 85.86 | 86.13 | 85.32 | 80.03 | 86.76 |
| 45.0 | 83.98 | 85.59 | 87.12 | 85.95 | 85.23 | 85.41 | 86.40 | 80.84 | 84.42 |
| 60.0 | 83.62 | 85.23 | 86.40 | 85.95 | 85.23 | 85.14 | 89.72 | 81.55 | 78.68 |
| 75.0 | 83.53 | 84.87 | 85.68 | 86.13 | 85.77 | 86.04 | 90.71 | 82.54 | 76.44 |
| 90.0 | 83.35 | 84.87 | 85.59 | 86.49 | 86.49 | 87.83 | 89.99 | 83.80 | 76.89 |
| 105.0 | 83.35 | 85.05 | 86.04 | 86.94 | 87.56 | 88.37 | 89.27 | 84.51 | 78.23 |
| 120.0 | 83.44 | 84.87 | 86.22 | 86.67 | 88.37 | 88.37 | 88.91 | 85.86 | 79.49 |
| 135.0 | 83.26 | 84.87 | 86.22 | 86.58 | 87.56 | 88.37 | 88.46 | 87.12 | 80.12 |
| 150.0 | 83.17 | 84.96 | 86.13 | 86.22 | 86.49 | 87.30 | 88.55 | 88.10 | 80.75 |
| 165.0 | 83.08 | 84.87 | 86.31 | 85.95 | 85.95 | 85.41 | 88.64 | 88.37 | 81.55 |
| 180.0 | 84.69 | 86.22 | 85.59 | 84.96 | 84.07 | 84.96 | 90.08 | 82.36 | 83.62 |
| 195.0 | 85.05 | 86.40 | 85.23 | 83.98 | 83.71 | 83.53 | 84.42 | 78.68 | 90.17 |
| 210.0 | 84.87 | 85.14 | 84.78 | 83.98 | 83.26 | 83.71 | 82.54 | 77.70 | 90.79 |
| 225.0 | 84.87 | 86.22 | 85.95 | 84.42 | 83.26 | 83.26 | 82.09 | 76.08 | 90.97 |
| 240.0 | 84.69 | 85.95 | 86.22 | 84.69 | 83.44 | 83.26 | 80.84 | 77.52 | 91.15 |
| 255.0 | 84.87 | 85.86 | 86.04 | 84.51 | 83.80 | 84.34 | 79.22 | 83.53 | 91.24 |
| 270.0 | 85.14 | 85.95 | 85.95 | 85.23 | 84.69 | 84.34 | 78.77 | 87.12 | 91.33 |
| 285.0 | 84.96 | 86.13 | 85.68 | 85.86 | 86.58 | 83.80 | 77.70 | 88.10 | 91.24 |
| 300.0 | 85.50 | 86.40 | 85.86 | 86.49 | 87.65 | 83.17 | 77.79 | 88.19 | 91.06 |
| 315.0 | 85.77 | 86.40 | 86.04 | 86.76 | 88.01 | 82.72 | 77.79 | 88.55 | 91.06 |
| 330.0 | 85.86 | 86.04 | 86.22 | 86.85 | 87.21 | 81.64 | 76.89 | 88.55 | 90.71 |
| 345.0 | 86.04 | 85.95 | 85.95 | 85.95 | 86.31 | 80.75 | 76.71 | 88.01 | 90.44 |
| 360.0 | 85.41 | 86.94 | 87.12 | 87.21 | 87.65 | 87.21 | 85.59 | 81.11 | 88.10 |

Intensity data(cd)

| | |
|--------|-------|
| C/γ(°) | 180.0 |
| 0.0 | 90.35 |
| 15.0 | 91.33 |
| 30.0 | 91.42 |
| 45.0 | 91.33 |
| 60.0 | 91.24 |
| 75.0 | 91.06 |
| 90.0 | 90.53 |
| 105.0 | 89.99 |
| 120.0 | 88.91 |
| 135.0 | 88.37 |
| 150.0 | 87.48 |
| 165.0 | 87.21 |
| 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 | 90.35 |