

Luminaire Property

Luminaire: E22440-11MS

Report NO.: 20160711001

Test NO.:

Lamp: 2835

Sum Lumens: 1316.59 lm

Number of Lamps: 1

Diameter: 200mm

Length: mm

Photometric Type: Type C

Voltage: 120.6 V

Current: 0.215 A

Power: 25.2 W

Power Factor: 0.972

Ballast Type:

Width: 200mm

Height: 200mm

Remark:

Photometric Results

Lumens: 1316.59 lm

Efficiency: 52.2456 lm/W

Central Intensity: 520.359cd

Maximum Intensity: 527.733cd

Angle of maximum intensity: C:135.0 G:4.0

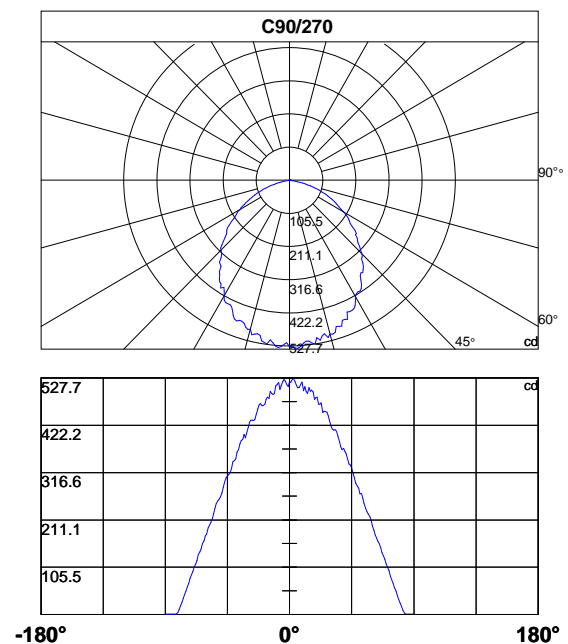
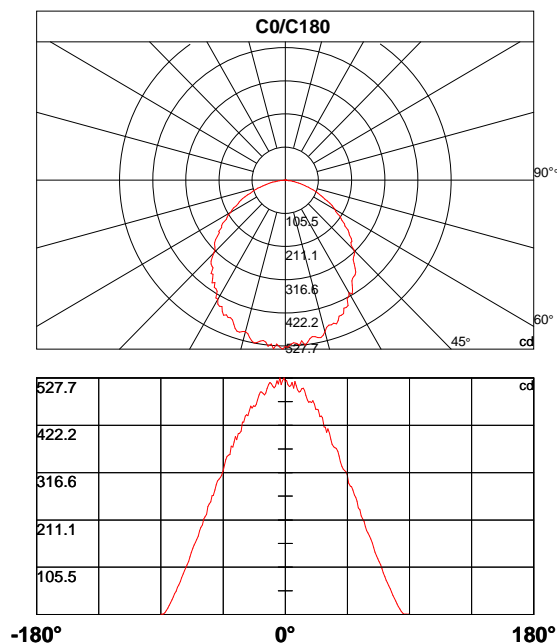
Half Peak Side Angle(50%): Left: -54.5 Right:49.1

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -80.6 Right:74.9



Photometric Data Table [cd]

| C\G | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 520.4 | 522.0 | 513.2 | 508.7 | 510.9 | 517.6 | 504.8 | 519.9 | 511.1 | 501.2 |
| 45.0 | 520.4 | 517.6 | 525.0 | 526.1 | 520.2 | 511.1 | 505.6 | 507.1 | 513.5 | 518.4 |
| 90.0 | 520.4 | 517.6 | 525.0 | 526.1 | 520.2 | 511.1 | 505.6 | 507.1 | 513.5 | 518.4 |
| 135.0 | 520.4 | 527.7 | 521.2 | 512.9 | 527.7 | 514.2 | 521.7 | 509.5 | 505.8 | 509.1 |
| 180.0 | 520.4 | 527.7 | 521.2 | 512.9 | 527.7 | 514.2 | 521.7 | 509.5 | 505.8 | 509.1 |
| 225.0 | 520.4 | 508.3 | 513.3 | 520.7 | 524.0 | 519.9 | 510.8 | 502.4 | 517.6 | 512.9 |
| 270.0 | 520.4 | 508.3 | 513.3 | 520.7 | 524.0 | 519.9 | 510.8 | 502.4 | 517.6 | 512.9 |
| 315.0 | 520.4 | 522.0 | 513.2 | 508.7 | 510.9 | 517.6 | 504.8 | 519.9 | 511.1 | 501.2 |
| 360.0 | 520.4 | 522.0 | 513.2 | 508.7 | 510.9 | 517.6 | 504.8 | 519.9 | 511.1 | 501.2 |

| C\G | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 496.2 | 498.2 | 503.3 | 505.1 | 500.0 | 489.6 | 478.7 | 473.5 | 474.8 | 473.3 |
| 45.0 | 499.4 | 508.7 | 498.0 | 492.4 | 506.6 | 497.6 | 500.6 | 496.1 | 480.3 | 483.8 |
| 90.0 | 499.4 | 508.7 | 498.0 | 492.4 | 506.6 | 497.6 | 500.6 | 496.1 | 480.3 | 483.8 |
| 135.0 | 515.2 | 518.1 | 513.6 | 504.1 | 494.0 | 490.1 | 492.4 | 496.8 | 496.8 | 490.1 |
| 180.0 | 515.2 | 518.1 | 513.6 | 504.1 | 494.0 | 490.1 | 492.4 | 496.8 | 496.8 | 490.1 |
| 225.0 | 509.9 | 493.8 | 490.5 | 493.8 | 498.0 | 482.1 | 484.9 | 479.7 | 469.8 | 466.4 |
| 270.0 | 509.9 | 493.8 | 490.5 | 493.8 | 498.0 | 482.1 | 484.9 | 479.7 | 469.8 | 466.4 |
| 315.0 | 496.2 | 498.2 | 503.3 | 505.1 | 500.0 | 489.6 | 478.7 | 473.5 | 474.8 | 473.3 |
| 360.0 | 496.2 | 498.2 | 503.3 | 505.1 | 500.0 | 489.6 | 478.7 | 473.5 | 474.8 | 473.3 |

| C\G | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 477.2 | 469.7 | 457.6 | 458.0 | 456.4 | 441.7 | 442.6 | 439.5 | 418.6 | 417.7 |
| 45.0 | 485.2 | 469.4 | 469.6 | 472.2 | 451.0 | 453.2 | 452.8 | 451.3 | 443.7 | 431.8 |
| 90.0 | 485.2 | 469.4 | 469.6 | 472.2 | 451.0 | 453.2 | 452.8 | 451.3 | 443.7 | 431.8 |
| 135.0 | 478.6 | 468.4 | 464.1 | 465.6 | 460.5 | 465.1 | 456.1 | 443.8 | 446.0 | 442.6 |
| 180.0 | 478.6 | 468.4 | 464.1 | 465.6 | 460.5 | 465.1 | 456.1 | 443.8 | 446.0 | 442.6 |
| 225.0 | 465.7 | 470.6 | 467.8 | 458.3 | 446.2 | 436.1 | 432.8 | 433.4 | 433.4 | 428.2 |
| 270.0 | 465.7 | 470.6 | 467.8 | 458.3 | 446.2 | 436.1 | 432.8 | 433.4 | 433.4 | 428.2 |
| 315.0 | 477.2 | 469.7 | 457.6 | 458.0 | 456.4 | 441.7 | 442.6 | 439.5 | 418.6 | 417.7 |
| 360.0 | 477.2 | 469.7 | 457.6 | 458.0 | 456.4 | 441.7 | 442.6 | 439.5 | 418.6 | 417.7 |

| C\G | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 | 36.0 | 37.0 | 38.0 | 39.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 406.2 | 413.9 | 404.2 | 391.4 | 379.9 | 373.9 | 372.2 | 370.5 | 364.6 | 353.5 |
| 45.0 | 420.1 | 413.3 | 411.6 | 412.4 | 408.2 | 398.9 | 386.2 | 374.5 | 368.1 | 370.7 |
| 90.0 | 420.1 | 413.3 | 411.6 | 412.4 | 408.2 | 398.9 | 386.2 | 374.5 | 368.1 | 370.7 |
| 135.0 | 429.2 | 429.2 | 409.4 | 404.4 | 403.5 | 390.2 | 397.1 | 384.8 | 373.3 | 375.7 |
| 180.0 | 429.2 | 429.2 | 409.4 | 404.4 | 403.5 | 390.2 | 397.1 | 384.8 | 373.3 | 375.7 |
| 225.0 | 417.1 | 404.5 | 394.6 | 402.1 | 390.3 | 388.2 | 380.7 | 368.7 | 361.9 | 347.0 |
| 270.0 | 417.1 | 404.5 | 394.6 | 402.1 | 390.3 | 388.2 | 380.7 | 368.7 | 361.9 | 347.0 |
| 315.0 | 406.2 | 413.9 | 404.2 | 391.4 | 379.9 | 373.9 | 372.2 | 370.5 | 364.6 | 353.5 |
| 360.0 | 406.2 | 413.9 | 404.2 | 391.4 | 379.9 | 373.9 | 372.2 | 370.5 | 364.6 | 353.5 |

Photometric Data Table [cd]

| C\G | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 340.7 | 329.8 | 324.2 | 321.0 | 317.8 | 309.9 | 293.0 | 286.1 | 285.2 | 277.8 |
| 45.0 | 364.2 | 358.3 | 347.7 | 336.0 | 333.3 | 327.3 | 314.3 | 304.0 | 292.7 | 286.2 |
| 90.0 | 364.2 | 358.3 | 347.7 | 336.0 | 333.3 | 327.3 | 314.3 | 304.0 | 292.7 | 286.2 |
| 135.0 | 357.5 | 355.7 | 352.7 | 345.4 | 333.8 | 321.1 | 311.1 | 305.8 | 302.4 | 298.3 |
| 180.0 | 357.5 | 355.7 | 352.7 | 345.4 | 333.8 | 321.1 | 311.1 | 305.8 | 302.4 | 298.3 |
| 225.0 | 343.3 | 340.7 | 326.6 | 317.0 | 312.3 | 309.3 | 304.9 | 295.2 | 283.5 | 271.5 |
| 270.0 | 343.3 | 340.7 | 326.6 | 317.0 | 312.3 | 309.3 | 304.9 | 295.2 | 283.5 | 271.5 |
| 315.0 | 340.7 | 329.8 | 324.2 | 321.0 | 317.8 | 309.9 | 293.0 | 286.1 | 285.2 | 277.8 |
| 360.0 | 340.7 | 329.8 | 324.2 | 321.0 | 317.8 | 309.9 | 293.0 | 286.1 | 285.2 | 277.8 |

| C\G | 50.0 | 51.0 | 52.0 | 53.0 | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 266.2 | 261.2 | 253.0 | 237.9 | 233.4 | 220.1 | 214.0 | 207.9 | 196.6 | 187.2 |
| 45.0 | 282.1 | 269.2 | 270.3 | 259.2 | 246.9 | 236.4 | 229.2 | 224.3 | 218.4 | 209.6 |
| 90.0 | 282.1 | 269.2 | 270.3 | 259.2 | 246.9 | 236.4 | 229.2 | 224.3 | 218.4 | 209.6 |
| 135.0 | 289.6 | 277.7 | 265.4 | 265.1 | 251.1 | 246.6 | 240.7 | 223.8 | 218.1 | 212.8 |
| 180.0 | 289.6 | 277.7 | 265.4 | 265.1 | 251.1 | 246.6 | 240.7 | 223.8 | 218.1 | 212.8 |
| 225.0 | 262.5 | 257.4 | 253.2 | 247.1 | 237.0 | 225.1 | 213.7 | 205.2 | 199.0 | 193.6 |
| 270.0 | 262.5 | 257.4 | 253.2 | 247.1 | 237.0 | 225.1 | 213.7 | 205.2 | 199.0 | 193.6 |
| 315.0 | 266.2 | 261.2 | 253.0 | 237.9 | 233.4 | 220.1 | 214.0 | 207.9 | 196.6 | 187.2 |
| 360.0 | 266.2 | 261.2 | 253.0 | 237.9 | 233.4 | 220.1 | 214.0 | 207.9 | 196.6 | 187.2 |

| C\G | 60.0 | 61.0 | 62.0 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 182.5 | 175.2 | 168.6 | 159.5 | 149.1 | 139.0 | 130.7 | 124.4 | 118.0 | 110.8 |
| 45.0 | 198.3 | 186.8 | 177.3 | 170.3 | 163.7 | 157.5 | 148.7 | 138.0 | 130.2 | 123.1 |
| 90.0 | 198.3 | 186.8 | 177.3 | 170.3 | 163.7 | 157.5 | 148.7 | 138.0 | 130.2 | 123.1 |
| 135.0 | 199.7 | 193.9 | 186.2 | 175.1 | 166.8 | 161.0 | 154.6 | 147.5 | 137.9 | 128.2 |
| 180.0 | 199.7 | 193.9 | 186.2 | 175.1 | 166.8 | 161.0 | 154.6 | 147.5 | 137.9 | 128.2 |
| 225.0 | 179.4 | 175.8 | 164.6 | 158.4 | 146.2 | 139.8 | 133.5 | 120.8 | 113.0 | 105.4 |
| 270.0 | 179.4 | 175.8 | 164.6 | 158.4 | 146.2 | 139.8 | 133.5 | 120.8 | 113.0 | 105.4 |
| 315.0 | 182.5 | 175.2 | 168.6 | 159.5 | 149.1 | 139.0 | 130.7 | 124.4 | 118.0 | 110.8 |
| 360.0 | 182.5 | 175.2 | 168.6 | 159.5 | 149.1 | 139.0 | 130.7 | 124.4 | 118.0 | 110.8 |

| C\G | 70.0 | 71.0 | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 |
|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 0.0 | 102.0 | 92.9 | 84.3 | 76.8 | 70.6 | 64.4 | 57.4 | 49.8 | 42.5 | 35.3 |
| 45.0 | 112.7 | 105.7 | 97.7 | 85.3 | 77.7 | 69.6 | 59.2 | 52.1 | 42.2 | 33.6 |
| 90.0 | 112.7 | 105.7 | 97.7 | 85.3 | 77.7 | 69.6 | 59.2 | 52.1 | 42.2 | 33.6 |
| 135.0 | 118.5 | 110.8 | 104.3 | 98.1 | 90.5 | 82.3 | 73.6 | 65.3 | 60.4 | 52.4 |
| 180.0 | 118.5 | 110.8 | 104.3 | 98.1 | 90.5 | 82.3 | 73.6 | 65.3 | 60.4 | 52.4 |
| 225.0 | 95.7 | 89.5 | 79.8 | 69.4 | 62.4 | 51.6 | 44.0 | 35.6 | 27.3 | 18.5 |
| 270.0 | 95.7 | 89.5 | 79.8 | 69.4 | 62.4 | 51.6 | 44.0 | 35.6 | 27.3 | 18.5 |
| 315.0 | 102.0 | 92.9 | 84.3 | 76.8 | 70.6 | 64.4 | 57.4 | 49.8 | 42.5 | 35.3 |
| 360.0 | 102.0 | 92.9 | 84.3 | 76.8 | 70.6 | 64.4 | 57.4 | 49.8 | 42.5 | 35.3 |

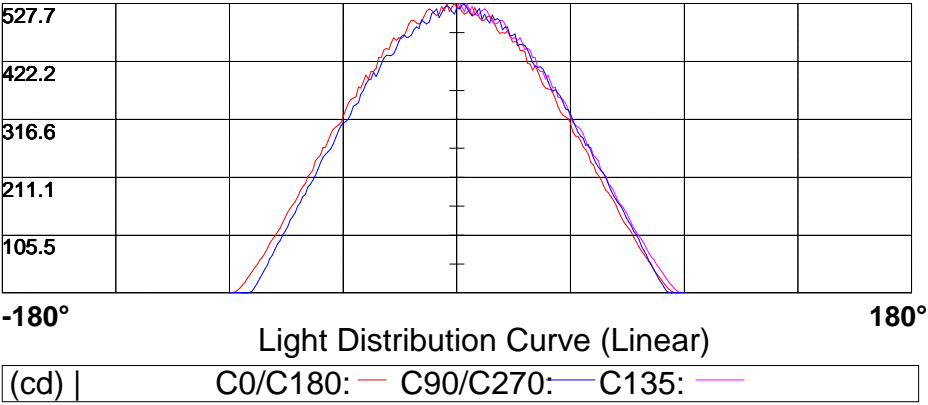
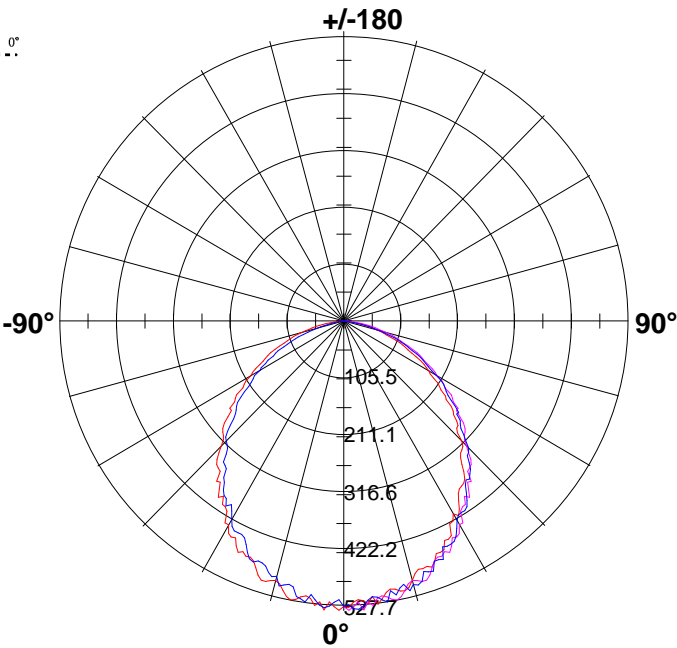
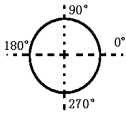
Photometric Data Table [cd]

| C\G | 80.0 | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0.0 | 30.1 | 23.5 | 17.4 | 11.8 | 6.8 | 3.3 | 0.9 | 0.7 | 0.6 | 0.7 |
| 45.0 | 25.1 | 17.7 | 10.0 | 3.7 | 0.7 | 0.6 | 0.7 | 0.6 | 0.7 | 0.7 |
| 90.0 | 25.1 | 17.7 | 10.0 | 3.7 | 0.7 | 0.6 | 0.7 | 0.6 | 0.7 | 0.7 |
| 135.0 | 46.2 | 39.5 | 32.7 | 25.8 | 19.8 | 14.1 | 8.6 | 4.2 | 1.5 | 0.9 |
| 180.0 | 46.2 | 39.5 | 32.7 | 25.8 | 19.8 | 14.1 | 8.6 | 4.2 | 1.5 | 0.9 |
| 225.0 | 10.8 | 4.0 | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 |
| 270.0 | 10.8 | 4.0 | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 |
| 315.0 | 30.1 | 23.5 | 17.4 | 11.8 | 6.8 | 3.3 | 0.9 | 0.7 | 0.6 | 0.7 |
| 360.0 | 30.1 | 23.5 | 17.4 | 11.8 | 6.8 | 3.3 | 0.9 | 0.7 | 0.6 | 0.7 |

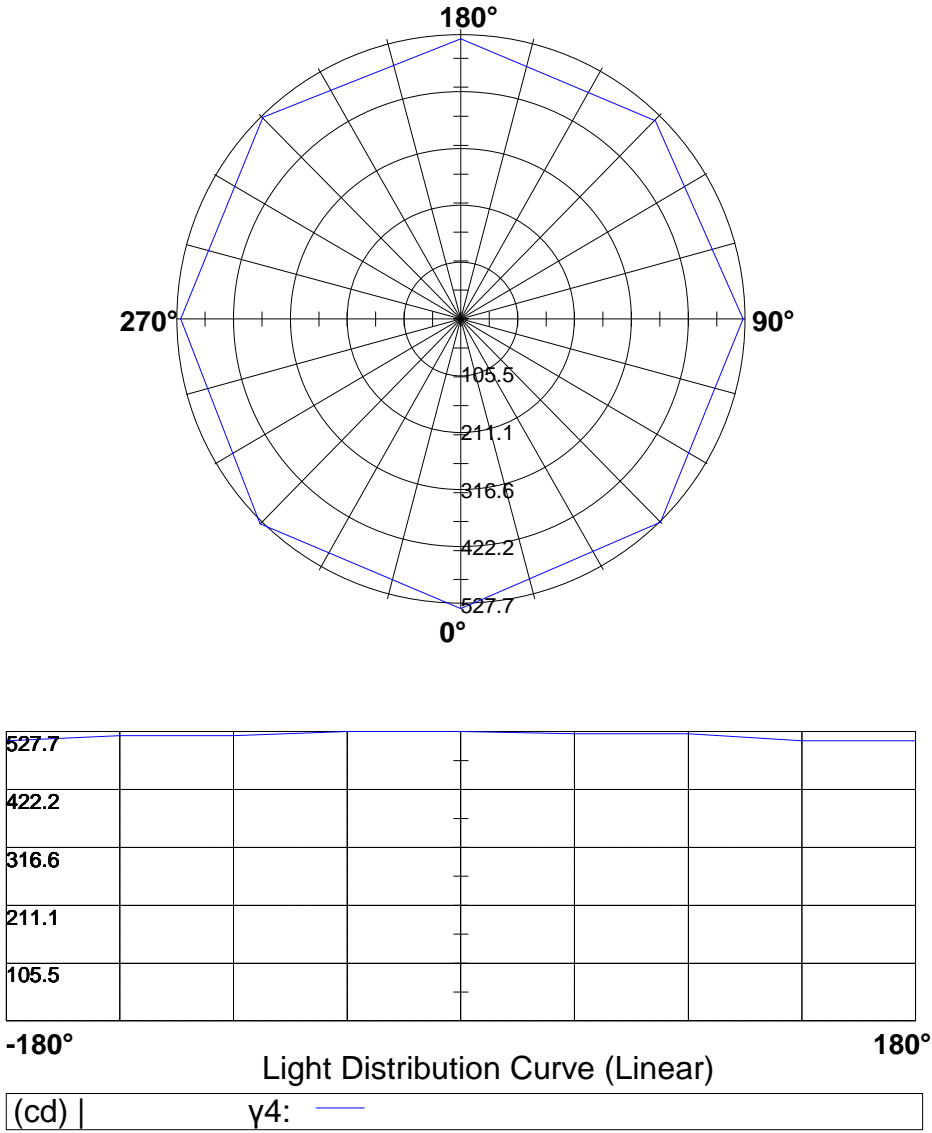
| C\G | 90.0 |
|-------|------|
| 0.0 | 0.7 |
| 45.0 | 0.7 |
| 90.0 | 0.7 |
| 135.0 | 0.7 |
| 180.0 | 0.7 |
| 225.0 | 0.6 |
| 270.0 | 0.6 |
| 315.0 | 0.7 |
| 360.0 | 0.7 |

Light Distribution Curve [Unit: cd]

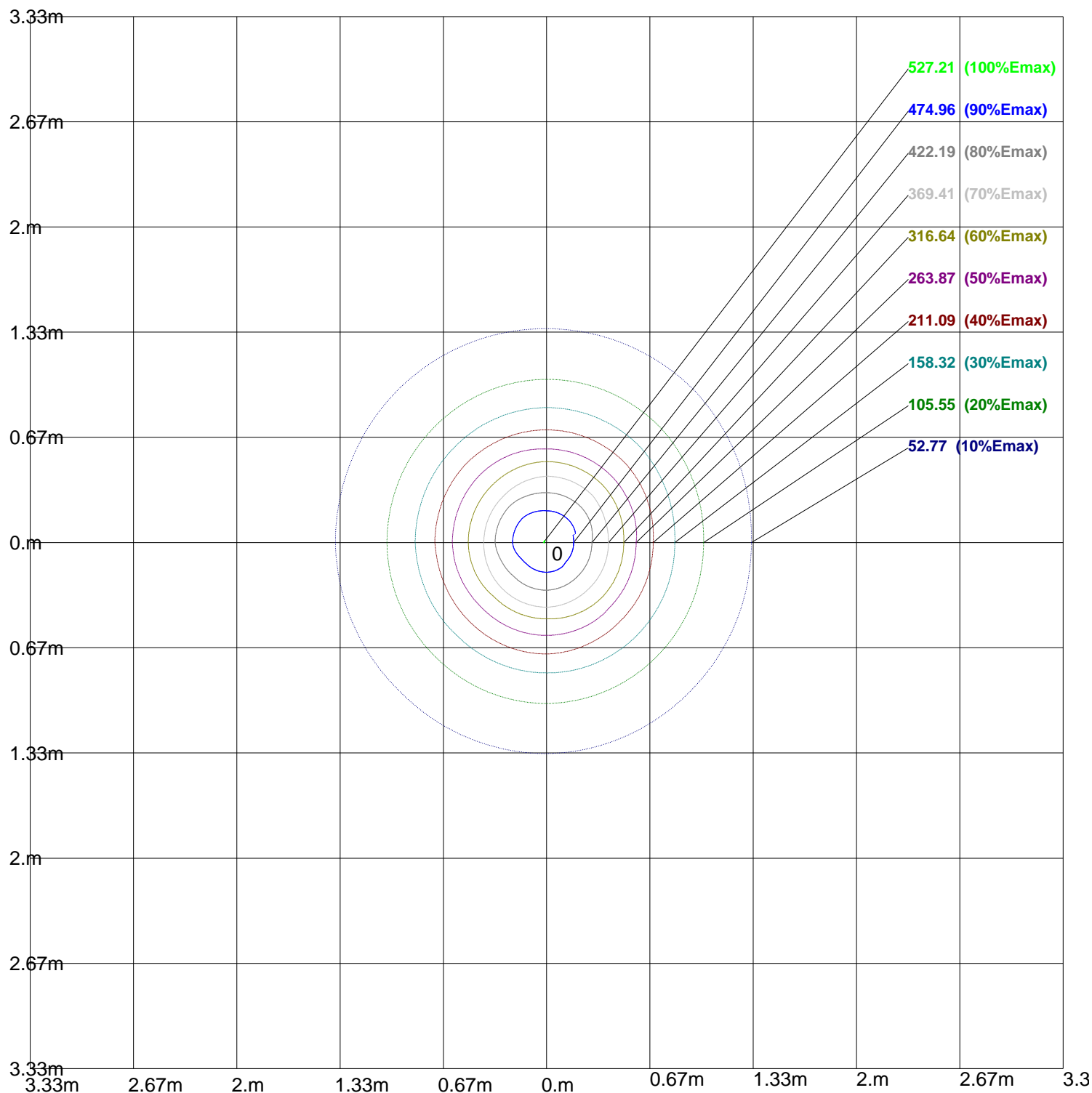
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 527.73lx

Luminance Limiting Curve

Diameter: 200mm

Length: mm

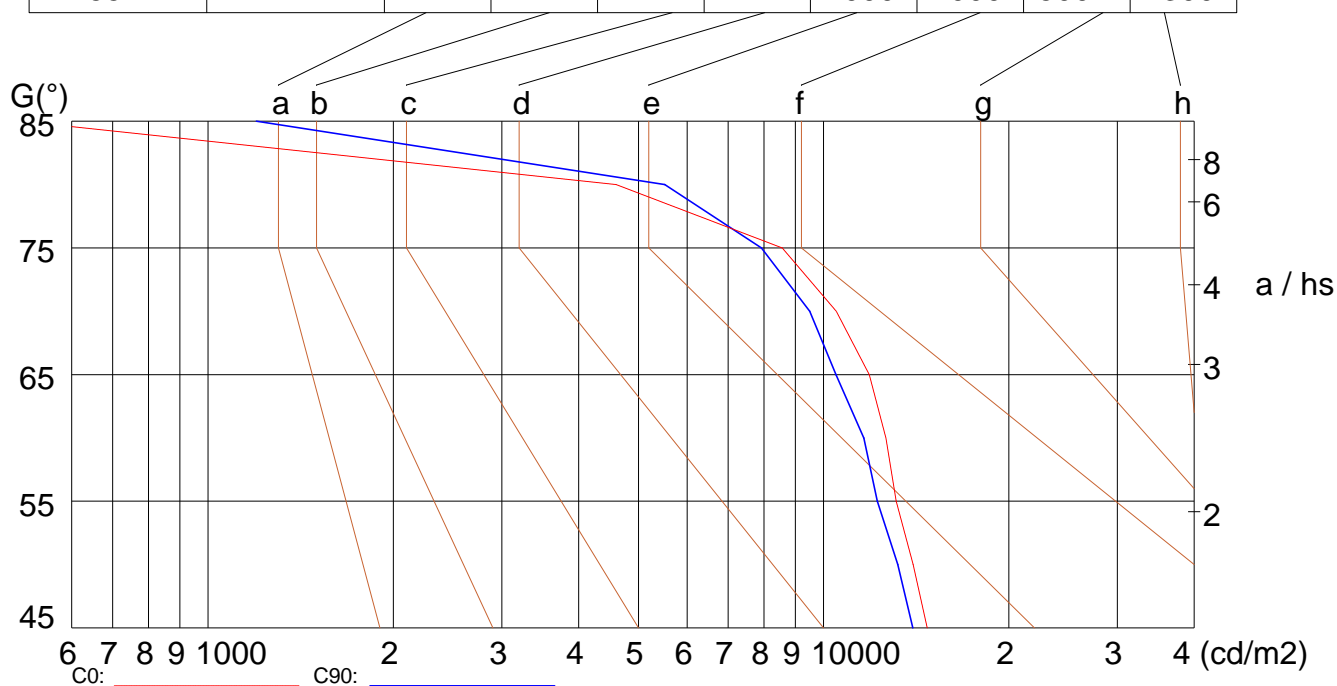
Width: 200mm

Height: 200mm

(cd/m²)

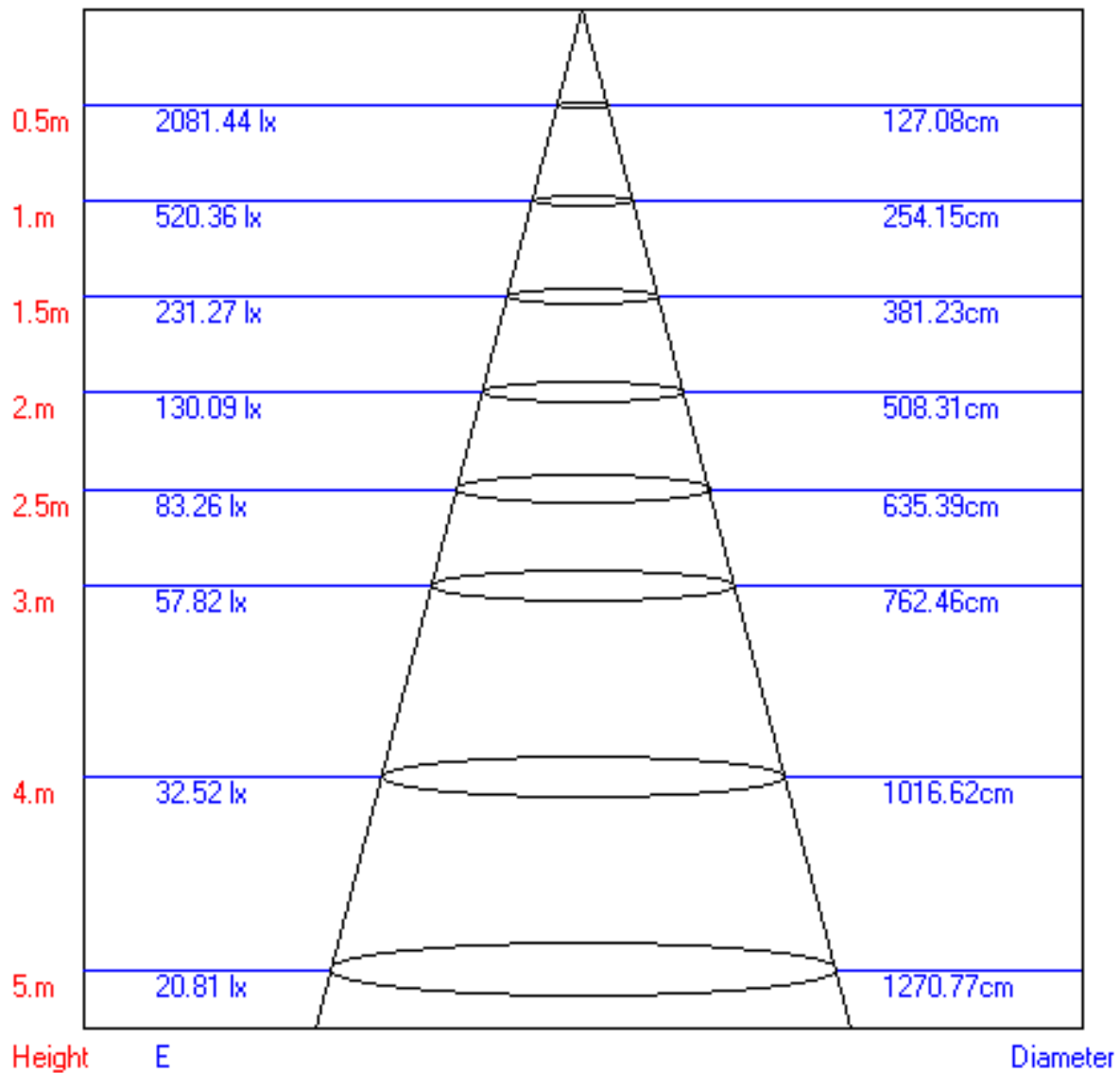
| γ | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|
| C0 | 14739 | 13978 | 13125 | 12629 | 11867 | 10492 | 8565 | 4600 | 221 |
| C90 | 13956 | 13189 | 12222 | 11624 | 10476 | 9495 | 7924 | 5518 | 1198 |

| 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 |



Lum. Limiting Curve (C0/C90)

Lux-Distance Curve



Beam Angle:103.60°

Utilization Coefficient Table

| 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 FOR RHOFC=20 | | | | | | | | | | | | | | | |
| 0 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1 | 1.06 | 1.04 | 1.03 | 1.05 | 1.03 | 1.01 | 1.01 | 0.99 | 0.97 | 0.96 | 0.94 | 0.92 | 0.90 | 0.87 | 0.85 | 0.80 |
| 2 | 0.91 | 0.89 | 0.87 | 0.90 | 0.87 | 0.85 | 0.88 | 0.84 | 0.82 | 0.84 | 0.81 | 0.77 | 0.80 | 0.76 | 0.72 | 0.68 |
| 3 | 0.78 | 0.76 | 0.74 | 0.78 | 0.75 | 0.72 | 0.77 | 0.73 | 0.69 | 0.74 | 0.70 | 0.66 | 0.71 | 0.66 | 0.62 | 0.57 |
| 4 | 0.68 | 0.65 | 0.63 | 0.68 | 0.65 | 0.62 | 0.68 | 0.63 | 0.60 | 0.66 | 0.61 | 0.57 | 0.64 | 0.58 | 0.53 | 0.49 |
| 5 | 0.60 | 0.57 | 0.55 | 0.60 | 0.57 | 0.54 | 0.60 | 0.55 | 0.52 | 0.59 | 0.54 | 0.49 | 0.58 | 0.52 | 0.47 | 0.43 |
| 6 | 0.53 | 0.50 | 0.48 | 0.54 | 0.50 | 0.48 | 0.54 | 0.49 | 0.46 | 0.54 | 0.48 | 0.44 | 0.53 | 0.46 | 0.41 | 0.38 |
| 7 | 0.47 | 0.45 | 0.43 | 0.48 | 0.44 | 0.42 | 0.49 | 0.44 | 0.41 | 0.49 | 0.43 | 0.39 | 0.49 | 0.42 | 0.37 | 0.33 |
| 8 | 0.42 | 0.40 | 0.38 | 0.43 | 0.40 | 0.38 | 0.44 | 0.40 | 0.36 | 0.45 | 0.39 | 0.35 | 0.45 | 0.38 | 0.33 | 0.30 |
| 9 | 0.39 | 0.36 | 0.35 | 0.39 | 0.36 | 0.34 | 0.41 | 0.36 | 0.33 | 0.41 | 0.35 | 0.31 | 0.41 | 0.35 | 0.30 | 0.27 |
| 10 | 0.35 | 0.33 | 0.32 | 0.36 | 0.33 | 0.31 | 0.37 | 0.33 | 0.30 | 0.38 | 0.32 | 0.29 | 0.39 | 0.32 | 0.27 | 0.25 |

