



SIRIM
CERTIFIED TO: IEC 60598-1: 2017
IEC 60598-2-2: 2011
CERTIFICATION NO: PC011267

R36 series

R36-129S

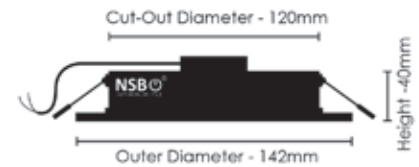
12w

R36-129S-12W

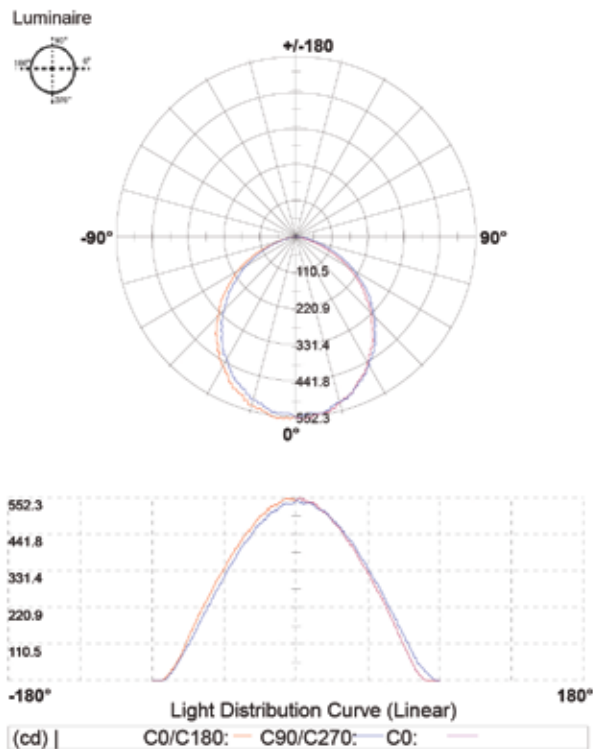
Type Indoor Recessed Downlight
Housing Color White
Material Nylon+PC

Power Factor ≥ 0.95
Power Efficiency 114lm/W
Voltage Input 180 - 240V 50/60Hz
Surge Protector 2.5kv

Beam Angle 120+- Degree
CRI ≥ 85
LED Model 2835
Lumen 6000K 1340lm
Lumen 4000K 1340lm
Lumen 3000K 1250lm
Lumen 3C 1340lm
Life Span 30,000 hours



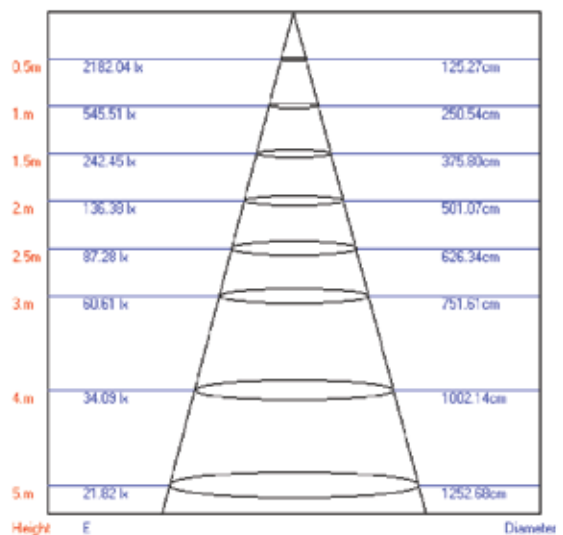
Luminous Intensity Distribution Curve :



Light Temperature :



LUX Distance Diagram :



Luminaire Property

Luminaire:

Report NO.:

Test NO.:

Lamp:

Sum Lumens: 1340.06 lm

Number of Lamps: 1

Diameter: 200mm

Length: mm

Photometric Type: Type C

Voltage: 220.6 V

Current: 0.054 A

Power: 11.4 W

Power Factor: 0.962

Ballast Type:

Width: mm

Height: mm

Remark:

Photometric Results

Lumens: 1340.06 lm

Efficiency: 113.5644 lm/W

Central Intensity: 545.509cd

Maximum Intensity: 552.271cd

Beam Angle(10%): Left: -77.5 Right:69.5

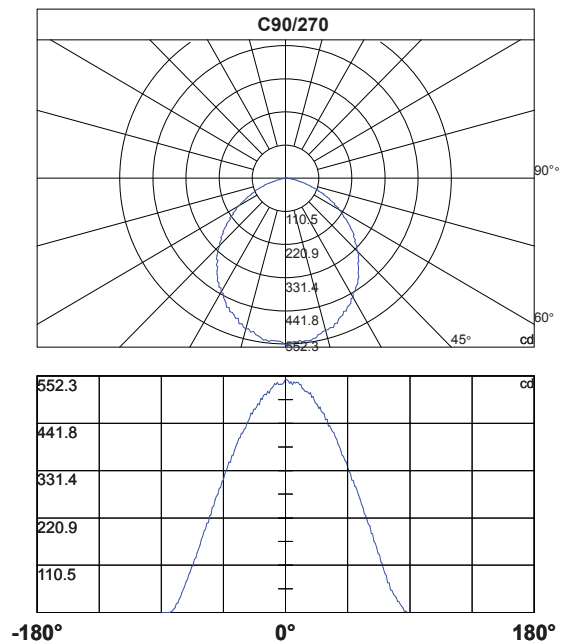
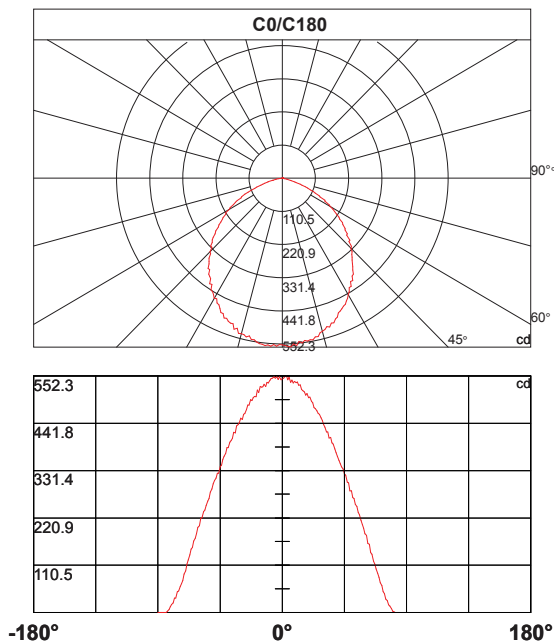
Angle of maximum intensity: C:0.0 G:3.0

Half Peak Side Angle(50%): Left: -55.3 Right:47.5

Light Out Rate(LOR): 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%





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 | 545.5 | 547.5 | 550.7 | 552.3 | 543.6 | 549.3 | 537.2 | 542.5 | 536.1 | 539.4 |
| 45.0 | 545.5 | 543.2 | 540.5 | 534.8 | 538.9 | 532.0 | 537.9 | 536.1 | 537.2 | 537.7 |
| 90.0 | 545.5 | 543.2 | 540.5 | 534.8 | 538.9 | 532.0 | 537.9 | 536.1 | 537.2 | 537.7 |
| 135.0 | 545.5 | 543.6 | 550.3 | 544.4 | 550.3 | 547.3 | 550.5 | 547.3 | 546.3 | 542.0 |
| 180.0 | 545.5 | 543.6 | 550.3 | 544.4 | 550.3 | 547.3 | 550.5 | 547.3 | 546.3 | 542.0 |
| 225.0 | 545.5 | 537.9 | 533.9 | 532.9 | 533.3 | 532.7 | 536.6 | 532.0 | 534.5 | 527.3 |
| 270.0 | 545.5 | 537.9 | 533.9 | 532.9 | 533.3 | 532.7 | 536.6 | 532.0 | 534.5 | 527.3 |
| 315.0 | 545.5 | 547.5 | 550.7 | 552.3 | 543.6 | 549.3 | 537.2 | 542.5 | 536.1 | 539.4 |
| 360.0 | 545.5 | 547.5 | 550.7 | 552.3 | 543.6 | 549.3 | 537.2 | 542.5 | 536.1 | 539.4 |

| C/G | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 536.7 | 538.6 | 530.4 | 531.4 | 521.3 | 518.3 | 515.1 | 507.7 | 511.3 | 501.6 |
| 45.0 | 532.7 | 532.2 | 523.1 | 522.1 | 516.6 | 515.8 | 514.9 | 510.5 | 513.5 | 502.5 |
| 90.0 | 532.7 | 532.2 | 523.1 | 522.1 | 516.6 | 515.8 | 514.9 | 510.5 | 513.5 | 502.5 |
| 135.0 | 536.3 | 537.2 | 527.8 | 533.1 | 527.4 | 526.3 | 527.6 | 513.3 | 519.6 | 504.1 |
| 180.0 | 536.3 | 537.2 | 527.8 | 533.1 | 527.4 | 526.3 | 527.6 | 513.3 | 519.6 | 504.1 |
| 225.0 | 524.2 | 521.5 | 512.1 | 516.3 | 508.0 | 509.8 | 507.1 | 497.5 | 500.0 | 485.1 |
| 270.0 | 524.2 | 521.5 | 512.1 | 516.3 | 508.0 | 509.8 | 507.1 | 497.5 | 500.0 | 485.1 |
| 315.0 | 536.7 | 538.6 | 530.4 | 531.4 | 521.3 | 518.3 | 515.1 | 507.7 | 511.3 | 501.6 |
| 360.0 | 536.7 | 538.6 | 530.4 | 531.4 | 521.3 | 518.3 | 515.1 | 507.7 | 511.3 | 501.6 |

| C/G | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 503.4 | 493.1 | 490.1 | 478.5 | 476.0 | 470.8 | 465.4 | 462.6 | 454.8 | 448.8 |
| 45.0 | 504.8 | 493.6 | 488.3 | 486.3 | 476.4 | 479.6 | 469.4 | 466.2 | 463.4 | 450.0 |
| 90.0 | 504.8 | 493.6 | 488.3 | 486.3 | 476.4 | 479.6 | 469.4 | 466.2 | 463.4 | 450.0 |
| 135.0 | 505.0 | 501.6 | 494.8 | 496.7 | 484.7 | 484.2 | 473.9 | 465.4 | 462.8 | 450.7 |
| 180.0 | 505.0 | 501.6 | 494.8 | 496.7 | 484.7 | 484.2 | 473.9 | 465.4 | 462.8 | 450.7 |
| 225.0 | 487.9 | 479.0 | 474.5 | 474.7 | 463.7 | 465.7 | 453.4 | 447.5 | 441.1 | 430.1 |
| 270.0 | 487.9 | 479.0 | 474.5 | 474.7 | 463.7 | 465.7 | 453.4 | 447.5 | 441.1 | 430.1 |
| 315.0 | 503.4 | 493.1 | 490.1 | 478.5 | 476.0 | 470.8 | 465.4 | 462.6 | 454.8 | 448.8 |
| 360.0 | 503.4 | 493.1 | 490.1 | 478.5 | 476.0 | 470.8 | 465.4 | 462.6 | 454.8 | 448.8 |

| C/G | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 | 36.0 | 37.0 | 38.0 | 39.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 438.9 | 432.9 | 421.3 | 421.8 | 407.5 | 409.2 | 396.2 | 393.2 | 381.7 | 373.0 |
| 45.0 | 451.8 | 435.6 | 436.5 | 428.4 | 422.6 | 420.2 | 409.3 | 405.2 | 393.3 | 386.3 |
| 90.0 | 451.8 | 435.6 | 436.5 | 428.4 | 422.6 | 420.2 | 409.3 | 405.2 | 393.3 | 386.3 |
| 135.0 | 453.5 | 444.3 | 438.4 | 435.8 | 419.3 | 420.8 | 406.4 | 401.5 | 397.7 | 384.7 |
| 180.0 | 453.5 | 444.3 | 438.4 | 435.8 | 419.3 | 420.8 | 406.4 | 401.5 | 397.7 | 384.7 |
| 225.0 | 428.2 | 418.4 | 419.1 | 407.9 | 405.9 | 395.2 | 388.2 | 379.6 | 367.3 | 365.6 |
| 270.0 | 428.2 | 418.4 | 419.1 | 407.9 | 405.9 | 395.2 | 388.2 | 379.6 | 367.3 | 365.6 |
| 315.0 | 438.9 | 432.9 | 421.3 | 421.8 | 407.5 | 409.2 | 396.2 | 393.2 | 381.7 | 373.0 |
| 360.0 | 438.9 | 432.9 | 421.3 | 421.8 | 407.5 | 409.2 | 396.2 | 393.2 | 381.7 | 373.0 |

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 | 364.6 | 355.4 | 347.2 | 340.4 | 335.1 | 323.8 | 320.8 | 304.0 | 302.9 | 284.3 |
| 45.0 | 377.8 | 367.1 | 365.0 | 354.4 | 351.6 | 339.2 | 329.1 | 324.5 | 309.2 | 307.9 |
| 90.0 | 377.8 | 367.1 | 365.0 | 354.4 | 351.6 | 339.2 | 329.1 | 324.5 | 309.2 | 307.9 |
| 135.0 | 384.6 | 372.0 | 365.1 | 357.4 | 343.6 | 340.9 | 325.4 | 325.5 | 313.8 | 308.3 |
| 180.0 | 384.6 | 372.0 | 365.1 | 357.4 | 343.6 | 340.9 | 325.4 | 325.5 | 313.8 | 308.3 |
| 225.0 | 350.8 | 351.3 | 340.4 | 331.6 | 323.0 | 309.7 | 306.4 | 291.6 | 289.8 | 276.3 |
| 270.0 | 350.8 | 351.3 | 340.4 | 331.6 | 323.0 | 309.7 | 306.4 | 291.6 | 289.8 | 276.3 |
| 315.0 | 364.6 | 355.4 | 347.2 | 340.4 | 335.1 | 323.8 | 320.8 | 304.0 | 302.9 | 284.3 |
| 360.0 | 364.6 | 355.4 | 347.2 | 340.4 | 335.1 | 323.8 | 320.8 | 304.0 | 302.9 | 284.3 |

| C/G | 50.0 | 51.0 | 52.0 | 53.0 | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 283.6 | 268.5 | 266.0 | 252.6 | 247.6 | 234.0 | 228.4 | 215.0 | 205.3 | 196.6 |
| 45.0 | 295.3 | 293.0 | 282.2 | 272.6 | 264.7 | 251.6 | 245.3 | 231.5 | 224.7 | 215.4 |
| 90.0 | 295.3 | 293.0 | 282.2 | 272.6 | 264.7 | 251.6 | 245.3 | 231.5 | 224.7 | 215.4 |
| 135.0 | 300.7 | 288.4 | 280.8 | 266.3 | 260.2 | 249.8 | 239.3 | 235.5 | 221.1 | 219.7 |
| 180.0 | 300.7 | 288.4 | 280.8 | 266.3 | 260.2 | 249.8 | 239.3 | 235.5 | 221.1 | 219.7 |
| 225.0 | 271.3 | 263.2 | 249.1 | 245.0 | 227.5 | 226.1 | 210.3 | 208.4 | 193.8 | 191.1 |
| 270.0 | 271.3 | 263.2 | 249.1 | 245.0 | 227.5 | 226.1 | 210.3 | 208.4 | 193.8 | 191.1 |
| 315.0 | 283.6 | 268.5 | 266.0 | 252.6 | 247.6 | 234.0 | 228.4 | 215.0 | 205.3 | 196.6 |
| 360.0 | 283.6 | 268.5 | 266.0 | 252.6 | 247.6 | 234.0 | 228.4 | 215.0 | 205.3 | 196.6 |

| C/G | 60.0 | 61.0 | 62.0 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 183.7 | 179.9 | 161.6 | 159.1 | 140.2 | 135.8 | 120.0 | 112.6 | 101.9 | 91.0 |
| 45.0 | 205.7 | 201.4 | 184.7 | 183.7 | 166.6 | 161.1 | 151.4 | 138.3 | 134.2 | 118.4 |
| 90.0 | 205.7 | 201.4 | 184.7 | 183.7 | 166.6 | 161.1 | 151.4 | 138.3 | 134.2 | 118.4 |
| 135.0 | 202.8 | 198.7 | 184.5 | 173.8 | 166.4 | 152.0 | 148.1 | 134.6 | 122.3 | 112.9 |
| 180.0 | 202.8 | 198.7 | 184.5 | 173.8 | 166.4 | 152.0 | 148.1 | 134.6 | 122.3 | 112.9 |
| 225.0 | 176.9 | 170.3 | 157.5 | 147.0 | 140.1 | 127.6 | 123.1 | 109.3 | 106.8 | 94.2 |
| 270.0 | 176.9 | 170.3 | 157.5 | 147.0 | 140.1 | 127.6 | 123.1 | 109.3 | 106.8 | 94.2 |
| 315.0 | 183.7 | 179.9 | 161.6 | 159.1 | 140.2 | 135.8 | 120.0 | 112.6 | 101.9 | 91.0 |
| 360.0 | 183.7 | 179.9 | 161.6 | 159.1 | 140.2 | 135.8 | 120.0 | 112.6 | 101.9 | 91.0 |

| C/G | 70.0 | 71.0 | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 |
|-------|-------|-------|------|------|------|------|------|------|------|------|
| 0.0 | 82.4 | 69.4 | 62.5 | 48.7 | 43.8 | 31.0 | 27.5 | 17.9 | 15.1 | 9.4 |
| 45.0 | 114.6 | 101.9 | 90.6 | 86.0 | 69.4 | 68.9 | 53.1 | 50.8 | 43.5 | 39.5 |
| 90.0 | 114.6 | 101.9 | 90.6 | 86.0 | 69.4 | 68.9 | 53.1 | 50.8 | 43.5 | 39.5 |
| 135.0 | 96.9 | 89.8 | 74.9 | 67.2 | 60.4 | 49.6 | 48.2 | 33.7 | 33.1 | 22.3 |
| 180.0 | 96.9 | 89.8 | 74.9 | 67.2 | 60.4 | 49.6 | 48.2 | 33.7 | 33.1 | 22.3 |
| 225.0 | 89.0 | 77.9 | 71.3 | 61.4 | 54.3 | 46.2 | 36.1 | 32.3 | 22.3 | 21.1 |
| 270.0 | 89.0 | 77.9 | 71.3 | 61.4 | 54.3 | 46.2 | 36.1 | 32.3 | 22.3 | 21.1 |
| 315.0 | 82.4 | 69.4 | 62.5 | 48.7 | 43.8 | 31.0 | 27.5 | 17.9 | 15.1 | 9.4 |
| 360.0 | 82.4 | 69.4 | 62.5 | 48.7 | 43.8 | 31.0 | 27.5 | 17.9 | 15.1 | 9.4 |

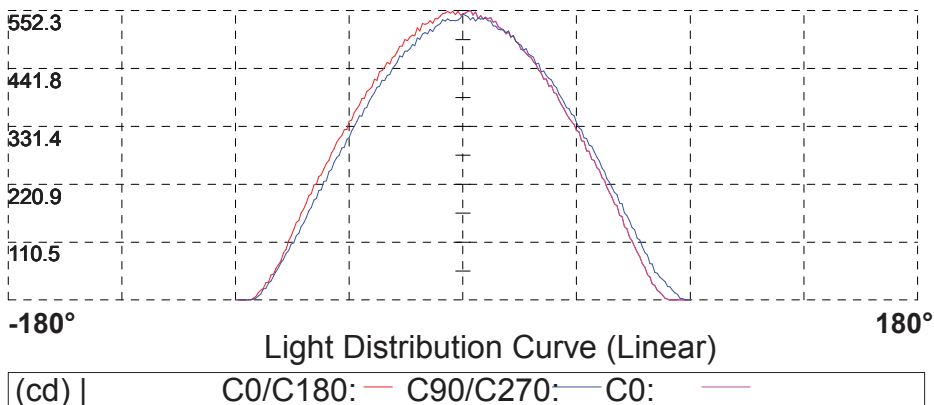
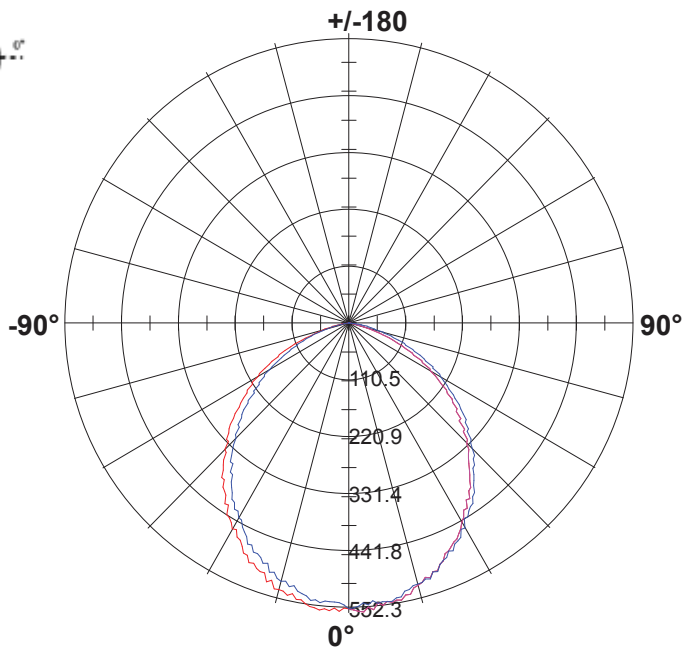
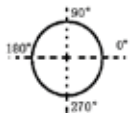
Photometric Data Table [cd]

| C/G | 80.0 | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0.0 | 3.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45.0 | 35.5 | 25.7 | 25.1 | 18.4 | 13.8 | 10.4 | 3.1 | 2.6 | 0.0 | 0.0 |
| 90.0 | 35.5 | 25.7 | 25.1 | 18.4 | 13.8 | 10.4 | 3.1 | 2.6 | 0.0 | 0.0 |
| 135.0 | 18.8 | 13.6 | 6.5 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 18.8 | 13.6 | 6.5 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 225.0 | 11.3 | 7.4 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 270.0 | 11.3 | 7.4 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 315.0 | 3.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 360.0 | 3.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

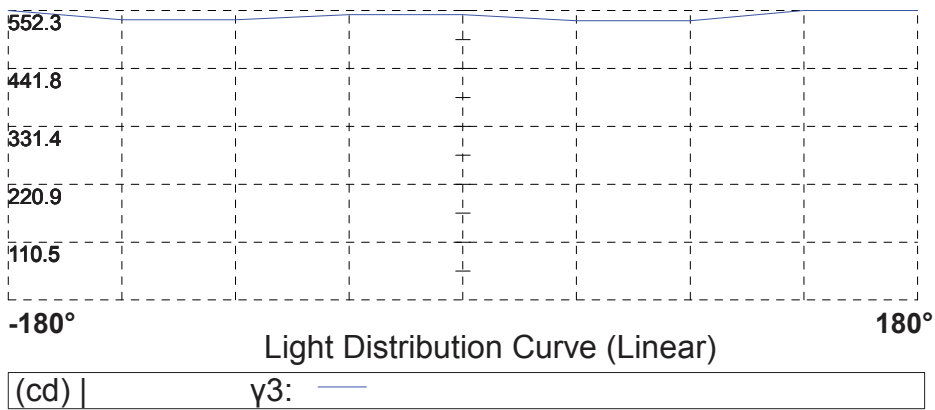
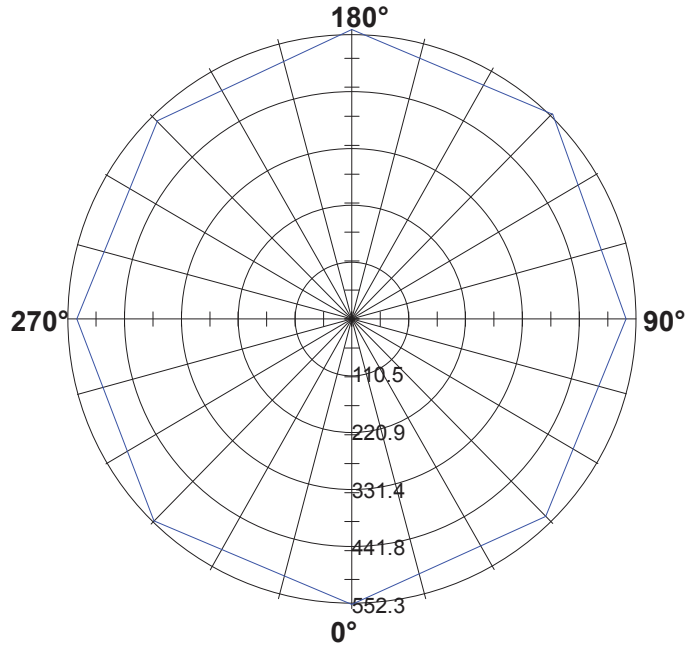
| C/G | 90.0 |
|--------------|-------------|
| 0.0 | 0.0 |
| 45.0 | 0.0 |
| 90.0 | 0.0 |
| 135.0 | 0.0 |
| 180.0 | 0.0 |
| 225.0 | 0.0 |
| 270.0 | 0.0 |
| 315.0 | 0.0 |
| 360.0 | 0.0 |

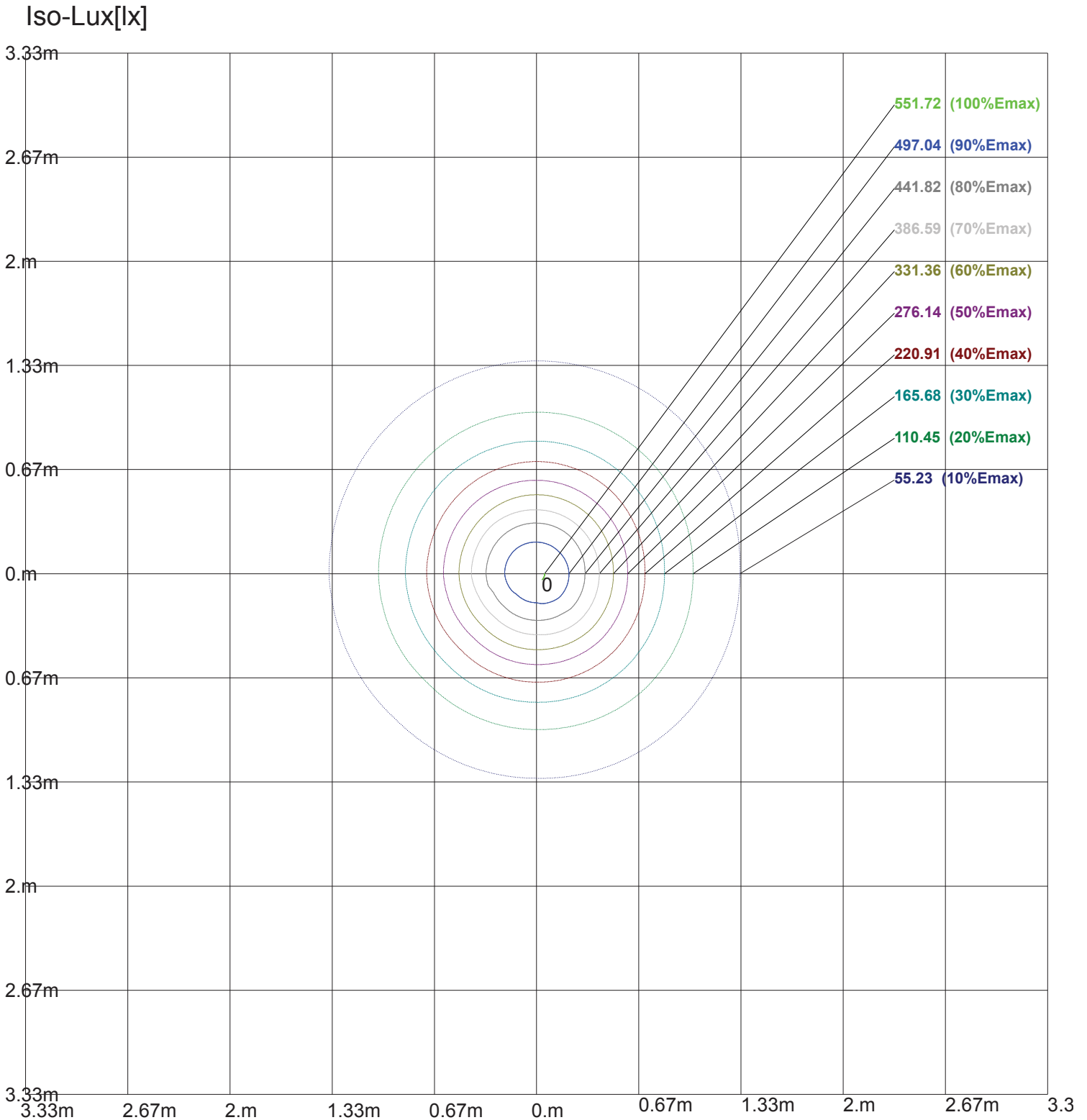
Light Distribution Curve [Unit: cd]

Luminaire



Max Plane Light Distribution Curve [Unit: cd]





Height: 1 m
Max Illuminance : 552.27lx

Luminance Limiting Curve

Diameter: 200mm

Length: mm

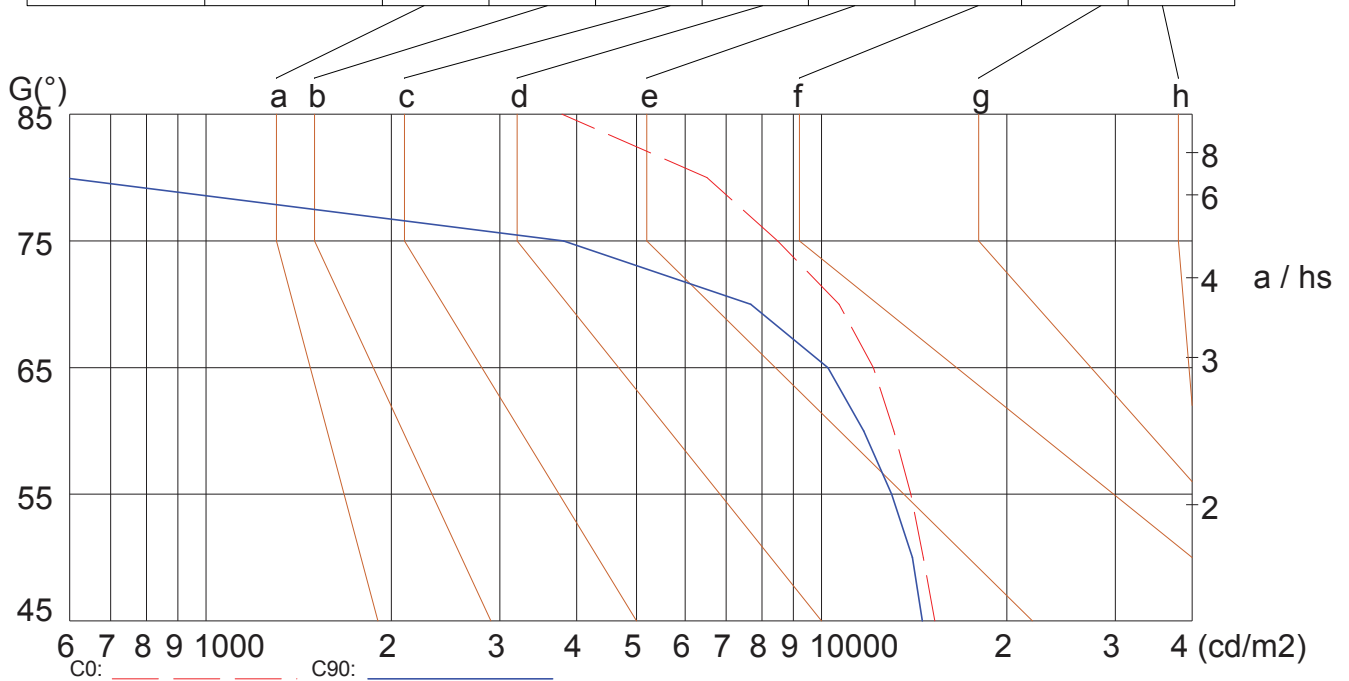
Width: mm

Height: mm

(cd/m²)

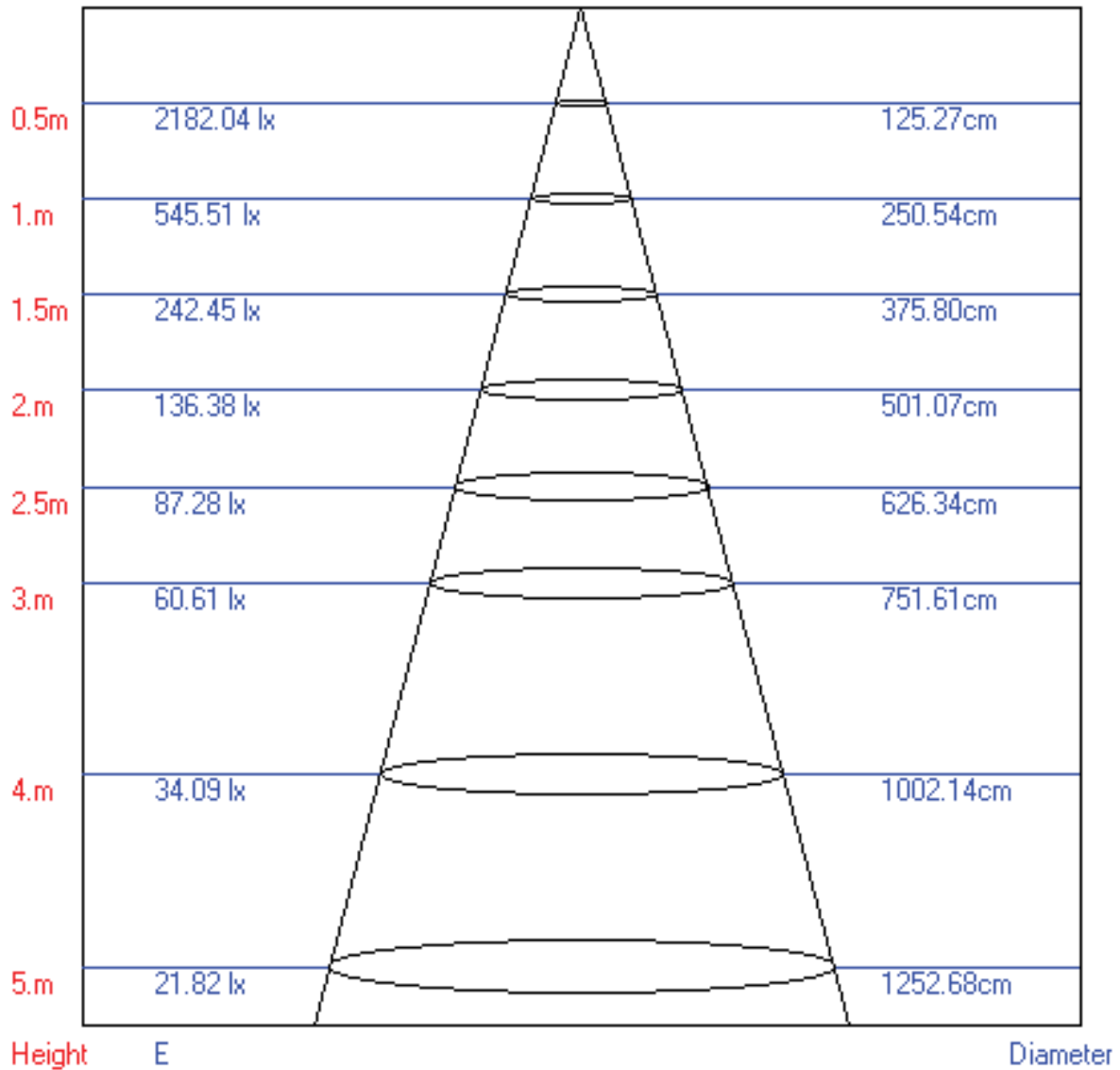
| γ | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° |
|----------|-------|-------|-------|-------|-------|-------|------|------|-----|
| C0 | 15275 | 14632 | 13969 | 13100 | 12139 | 10674 | 8482 | 6506 | |
| C90 | 14583 | 14050 | 12992 | 11700 | 10237 | 7675 | 3809 | 549 | |

| 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: 102.80°

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 RHOF=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 | 1.07 | 1.05 | 1.04 | 1.06 | 1.04 | 1.02 | 1.02 | 1.00 | 0.98 | 0.97 | 0.95 | 0.93 | 0.90 | 0.88 | 0.86 | 0.81 |
| 2 | 0.92 | 0.90 | 0.88 | 0.91 | 0.89 | 0.87 | 0.89 | 0.86 | 0.83 | 0.85 | 0.82 | 0.79 | 0.81 | 0.77 | 0.73 | 0.69 |
| 3 | 0.80 | 0.77 | 0.75 | 0.80 | 0.76 | 0.74 | 0.78 | 0.74 | 0.71 | 0.76 | 0.71 | 0.67 | 0.72 | 0.67 | 0.63 | 0.59 |
| 4 | 0.69 | 0.67 | 0.65 | 0.70 | 0.66 | 0.64 | 0.69 | 0.64 | 0.61 | 0.67 | 0.62 | 0.58 | 0.65 | 0.59 | 0.55 | 0.51 |
| 5 | 0.61 | 0.58 | 0.57 | 0.61 | 0.58 | 0.55 | 0.61 | 0.57 | 0.53 | 0.61 | 0.55 | 0.51 | 0.59 | 0.53 | 0.48 | 0.44 |
| 6 | 0.54 | 0.51 | 0.50 | 0.55 | 0.51 | 0.49 | 0.55 | 0.50 | 0.47 | 0.55 | 0.49 | 0.45 | 0.54 | 0.47 | 0.42 | 0.39 |
| 7 | 0.48 | 0.46 | 0.44 | 0.49 | 0.46 | 0.43 | 0.50 | 0.45 | 0.42 | 0.50 | 0.44 | 0.40 | 0.49 | 0.43 | 0.38 | 0.34 |
| 8 | 0.44 | 0.41 | 0.40 | 0.44 | 0.41 | 0.39 | 0.45 | 0.41 | 0.37 | 0.46 | 0.40 | 0.36 | 0.45 | 0.39 | 0.34 | 0.31 |
| 9 | 0.39 | 0.37 | 0.36 | 0.40 | 0.37 | 0.35 | 0.41 | 0.37 | 0.34 | 0.42 | 0.36 | 0.32 | 0.42 | 0.36 | 0.31 | 0.28 |
| 10 | 0.36 | 0.34 | 0.32 | 0.37 | 0.34 | 0.32 | 0.38 | 0.34 | 0.31 | 0.39 | 0.33 | 0.29 | 0.39 | 0.33 | 0.28 | 0.25 |

