

Luminaire Property

Luminaire: RH-SUS18 9W+9w 3000K

Report NO.:

Voltage: 221.7 V

Test NO.:

Current: 0.132 A

Lamp:

Power: 16.9 W

Sum Lumens: 1246.15 lm

Power Factor: 0.567

Number of Lamps: 1

Ballast Type:

Diameter: mm

Width: 150mm

Length: 150mm

Height: mm

Photometric Type: Type C

Remark:

Photometric Results

Lumens: 1246.15 lm

Angle of maximum intensity: C:135.0 G:1.0

Efficiency: 74.6198 lm/W

Half Peak Side Angle(50%): Left: -39.3 Right:38.6

Central Intensity: 675.942cd

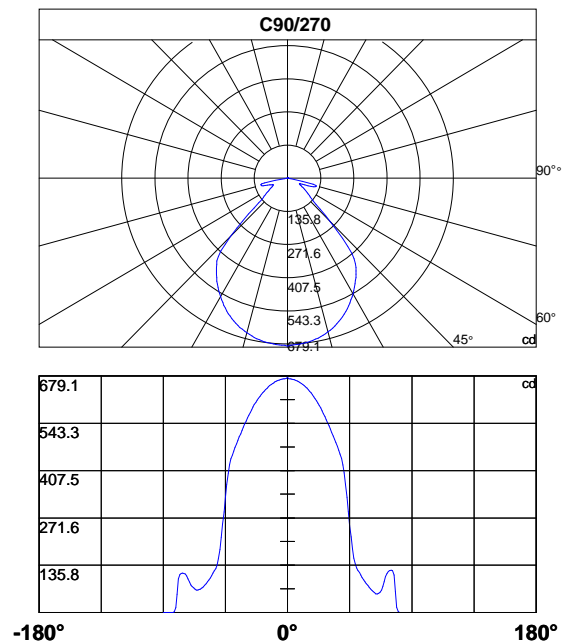
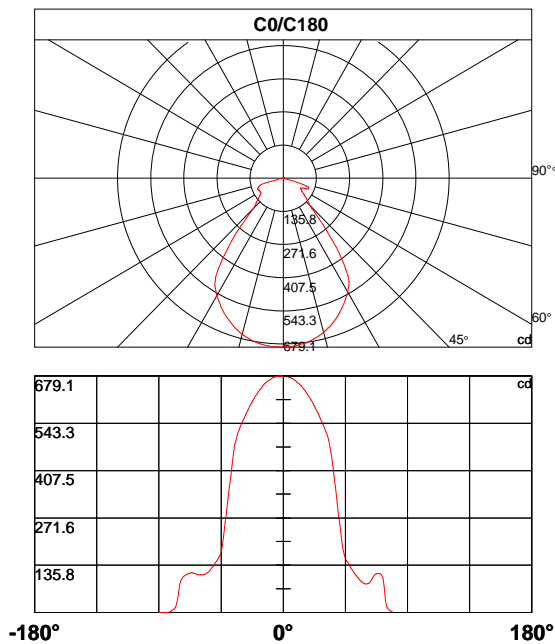
Light Out Rate(LOR) : 100.00%

Maximum Intensity: 679.111cd

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -74.2 Right:74.4



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 | 675.9 | 678.7 | 678.2 | 677.2 | 676.1 | 674.3 | 672.5 | 670.5 | 668.3 | 665.5 |
| 45.0 | 675.9 | 671.1 | 670.9 | 670.0 | 669.0 | 667.9 | 666.5 | 664.6 | 662.6 | 660.2 |
| 90.0 | 675.9 | 671.1 | 670.9 | 670.0 | 669.0 | 667.9 | 666.5 | 664.6 | 662.6 | 660.2 |
| 135.0 | 675.9 | 679.1 | 679.1 | 679.0 | 678.4 | 677.1 | 676.3 | 674.5 | 672.7 | 670.3 |
| 180.0 | 675.9 | 679.1 | 679.1 | 679.0 | 678.4 | 677.1 | 676.3 | 674.5 | 672.7 | 670.3 |
| 225.0 | 675.9 | 671.6 | 671.3 | 670.8 | 670.1 | 669.0 | 667.6 | 666.4 | 664.6 | 662.5 |
| 270.0 | 675.9 | 671.6 | 671.3 | 670.8 | 670.1 | 669.0 | 667.6 | 666.4 | 664.6 | 662.5 |
| 315.0 | 675.9 | 678.7 | 678.2 | 677.2 | 676.1 | 674.3 | 672.5 | 670.5 | 668.3 | 665.5 |
| 360.0 | 675.9 | 678.7 | 678.2 | 677.2 | 676.1 | 674.3 | 672.5 | 670.5 | 668.3 | 665.5 |

| C\G | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 662.3 | 658.6 | 655.1 | 650.8 | 646.3 | 641.3 | 635.7 | 629.9 | 624.4 | 617.8 |
| 45.0 | 657.4 | 654.8 | 651.6 | 648.0 | 644.2 | 639.8 | 635.0 | 630.7 | 625.5 | 619.8 |
| 90.0 | 657.4 | 654.8 | 651.6 | 648.0 | 644.2 | 639.8 | 635.0 | 630.7 | 625.5 | 619.8 |
| 135.0 | 667.6 | 665.4 | 662.0 | 658.0 | 654.3 | 650.0 | 644.4 | 639.3 | 634.4 | 628.1 |
| 180.0 | 667.6 | 665.4 | 662.0 | 658.0 | 654.3 | 650.0 | 644.4 | 639.3 | 634.4 | 628.1 |
| 225.0 | 659.7 | 657.4 | 654.7 | 651.4 | 647.6 | 643.9 | 639.8 | 635.5 | 631.1 | 626.0 |
| 270.0 | 659.7 | 657.4 | 654.7 | 651.4 | 647.6 | 643.9 | 639.8 | 635.5 | 631.1 | 626.0 |
| 315.0 | 662.3 | 658.6 | 655.1 | 650.8 | 646.3 | 641.3 | 635.7 | 629.9 | 624.4 | 617.8 |
| 360.0 | 662.3 | 658.6 | 655.1 | 650.8 | 646.3 | 641.3 | 635.7 | 629.9 | 624.4 | 617.8 |

| C\G | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 610.9 | 603.5 | 595.8 | 588.3 | 581.1 | 572.7 | 564.2 | 555.5 | 546.2 | 538.2 |
| 45.0 | 614.0 | 607.3 | 600.8 | 594.6 | 587.0 | 579.2 | 570.7 | 562.3 | 553.2 | 545.4 |
| 90.0 | 614.0 | 607.3 | 600.8 | 594.6 | 587.0 | 579.2 | 570.7 | 562.3 | 553.2 | 545.4 |
| 135.0 | 621.9 | 615.1 | 608.1 | 601.9 | 594.5 | 586.5 | 578.4 | 569.8 | 561.1 | 553.6 |
| 180.0 | 621.9 | 615.1 | 608.1 | 601.9 | 594.5 | 586.5 | 578.4 | 569.8 | 561.1 | 553.6 |
| 225.0 | 620.8 | 615.1 | 609.2 | 602.9 | 597.0 | 589.6 | 581.7 | 574.3 | 566.1 | 558.7 |
| 270.0 | 620.8 | 615.1 | 609.2 | 602.9 | 597.0 | 589.6 | 581.7 | 574.3 | 566.1 | 558.7 |
| 315.0 | 610.9 | 603.5 | 595.8 | 588.3 | 581.1 | 572.7 | 564.2 | 555.5 | 546.2 | 538.2 |
| 360.0 | 610.9 | 603.5 | 595.8 | 588.3 | 581.1 | 572.7 | 564.2 | 555.5 | 546.2 | 538.2 |

| C\G | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 | 36.0 | 37.0 | 38.0 | 39.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 528.4 | 518.2 | 507.7 | 493.7 | 474.2 | 446.8 | 420.3 | 386.6 | 351.6 | 316.1 |
| 45.0 | 536.1 | 526.5 | 516.9 | 506.7 | 497.0 | 487.9 | 477.1 | 466.0 | 454.7 | 441.9 |
| 90.0 | 536.1 | 526.5 | 516.9 | 506.7 | 497.0 | 487.9 | 477.1 | 466.0 | 454.7 | 441.9 |
| 135.0 | 544.5 | 534.7 | 524.8 | 513.6 | 498.8 | 481.5 | 455.0 | 424.8 | 391.4 | 357.2 |
| 180.0 | 544.5 | 534.7 | 524.8 | 513.6 | 498.8 | 481.5 | 455.0 | 424.8 | 391.4 | 357.2 |
| 225.0 | 550.1 | 541.5 | 532.3 | 522.9 | 513.2 | 504.8 | 494.9 | 484.6 | 474.0 | 463.4 |
| 270.0 | 550.1 | 541.5 | 532.3 | 522.9 | 513.2 | 504.8 | 494.9 | 484.6 | 474.0 | 463.4 |
| 315.0 | 528.4 | 518.2 | 507.7 | 493.7 | 474.2 | 446.8 | 420.3 | 386.6 | 351.6 | 316.1 |
| 360.0 | 528.4 | 518.2 | 507.7 | 493.7 | 474.2 | 446.8 | 420.3 | 386.6 | 351.6 | 316.1 |

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 | 280.7 | 250.5 | 217.8 | 188.6 | 167.5 | 155.0 | 147.0 | 141.4 | 134.6 | 128.0 |
| 45.0 | 423.7 | 401.1 | 368.4 | 330.5 | 289.0 | 248.7 | 216.6 | 182.9 | 156.6 | 138.4 |
| 90.0 | 423.7 | 401.1 | 368.4 | 330.5 | 289.0 | 248.7 | 216.6 | 182.9 | 156.6 | 138.4 |
| 135.0 | 327.1 | 292.0 | 257.1 | 224.4 | 195.2 | 174.2 | 162.0 | 155.7 | 149.3 | 143.1 |
| 180.0 | 327.1 | 292.0 | 257.1 | 224.4 | 195.2 | 174.2 | 162.0 | 155.7 | 149.3 | 143.1 |
| 225.0 | 452.0 | 441.5 | 424.5 | 400.1 | 367.7 | 330.0 | 288.9 | 253.9 | 215.5 | 181.5 |
| 270.0 | 452.0 | 441.5 | 424.5 | 400.1 | 367.7 | 330.0 | 288.9 | 253.9 | 215.5 | 181.5 |
| 315.0 | 280.7 | 250.5 | 217.8 | 188.6 | 167.5 | 155.0 | 147.0 | 141.4 | 134.6 | 128.0 |
| 360.0 | 280.7 | 250.5 | 217.8 | 188.6 | 167.5 | 155.0 | 147.0 | 141.4 | 134.6 | 128.0 |

| C\G | 50.0 | 51.0 | 52.0 | 53.0 | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 121.7 | 115.7 | 110.0 | 105.4 | 99.9 | 95.2 | 90.6 | 87.2 | 84.9 | 82.7 |
| 45.0 | 127.7 | 120.5 | 114.3 | 107.1 | 100.3 | 94.0 | 88.2 | 82.6 | 77.8 | 72.7 |
| 90.0 | 127.7 | 120.5 | 114.3 | 107.1 | 100.3 | 94.0 | 88.2 | 82.6 | 77.8 | 72.7 |
| 135.0 | 137.2 | 131.3 | 126.6 | 121.7 | 117.2 | 114.1 | 111.5 | 109.5 | 108.3 | 108.1 |
| 180.0 | 137.2 | 131.3 | 126.6 | 121.7 | 117.2 | 114.1 | 111.5 | 109.5 | 108.3 | 108.1 |
| 225.0 | 154.4 | 136.0 | 125.8 | 119.6 | 112.7 | 105.4 | 98.9 | 92.8 | 88.2 | 82.9 |
| 270.0 | 154.4 | 136.0 | 125.8 | 119.6 | 112.7 | 105.4 | 98.9 | 92.8 | 88.2 | 82.9 |
| 315.0 | 121.7 | 115.7 | 110.0 | 105.4 | 99.9 | 95.2 | 90.6 | 87.2 | 84.9 | 82.7 |
| 360.0 | 121.7 | 115.7 | 110.0 | 105.4 | 99.9 | 95.2 | 90.6 | 87.2 | 84.9 | 82.7 |

| C\G | 60.0 | 61.0 | 62.0 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 82.0 | 82.1 | 83.7 | 88.2 | 94.8 | 101.4 | 107.1 | 110.4 | 111.9 | 111.8 |
| 45.0 | 68.2 | 63.5 | 59.7 | 56.5 | 53.6 | 53.5 | 54.8 | 58.3 | 64.6 | 75.8 |
| 90.0 | 68.2 | 63.5 | 59.7 | 56.5 | 53.6 | 53.5 | 54.8 | 58.3 | 64.6 | 75.8 |
| 135.0 | 108.2 | 108.8 | 109.6 | 110.5 | 111.7 | 113.0 | 113.6 | 113.7 | 112.4 | 111.0 |
| 180.0 | 108.2 | 108.8 | 109.6 | 110.5 | 111.7 | 113.0 | 113.6 | 113.7 | 112.4 | 111.0 |
| 225.0 | 77.9 | 73.8 | 70.2 | 67.2 | 65.6 | 64.6 | 64.8 | 67.0 | 70.3 | 74.7 |
| 270.0 | 77.9 | 73.8 | 70.2 | 67.2 | 65.6 | 64.6 | 64.8 | 67.0 | 70.3 | 74.7 |
| 315.0 | 82.0 | 82.1 | 83.7 | 88.2 | 94.8 | 101.4 | 107.1 | 110.4 | 111.9 | 111.8 |
| 360.0 | 82.0 | 82.1 | 83.7 | 88.2 | 94.8 | 101.4 | 107.1 | 110.4 | 111.9 | 111.8 |

| C\G | 70.0 | 71.0 | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0.0 | 110.9 | 108.7 | 99.7 | 74.0 | 34.9 | 16.9 | 9.5 | 6.4 | 3.6 | 1.1 |
| 45.0 | 88.1 | 102.8 | 112.3 | 117.7 | 120.4 | 121.4 | 120.2 | 107.5 | 60.6 | 14.6 |
| 90.0 | 88.1 | 102.8 | 112.3 | 117.7 | 120.4 | 121.4 | 120.2 | 107.5 | 60.6 | 14.6 |
| 135.0 | 109.0 | 106.2 | 103.6 | 100.3 | 94.3 | 79.1 | 51.1 | 26.0 | 14.7 | 9.9 |
| 180.0 | 109.0 | 106.2 | 103.6 | 100.3 | 94.3 | 79.1 | 51.1 | 26.0 | 14.7 | 9.9 |
| 225.0 | 79.2 | 87.3 | 96.7 | 104.8 | 109.9 | 111.7 | 112.8 | 111.9 | 109.5 | 96.4 |
| 270.0 | 79.2 | 87.3 | 96.7 | 104.8 | 109.9 | 111.7 | 112.8 | 111.9 | 109.5 | 96.4 |
| 315.0 | 110.9 | 108.7 | 99.7 | 74.0 | 34.9 | 16.9 | 9.5 | 6.4 | 3.6 | 1.1 |
| 360.0 | 110.9 | 108.7 | 99.7 | 74.0 | 34.9 | 16.9 | 9.5 | 6.4 | 3.6 | 1.1 |

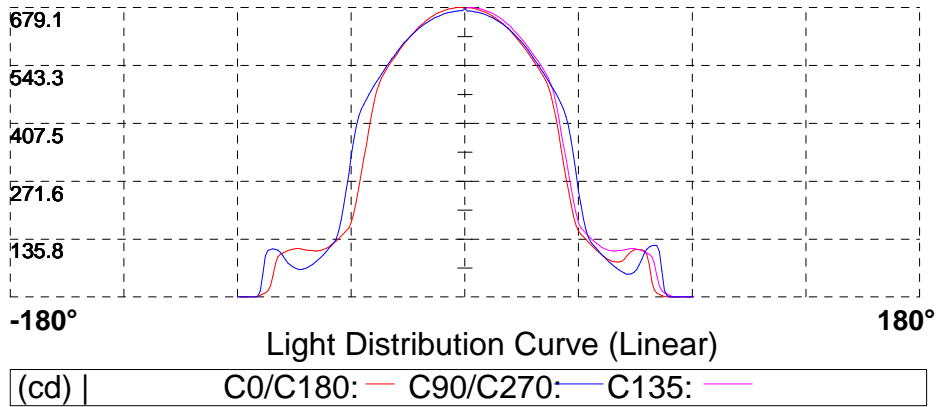
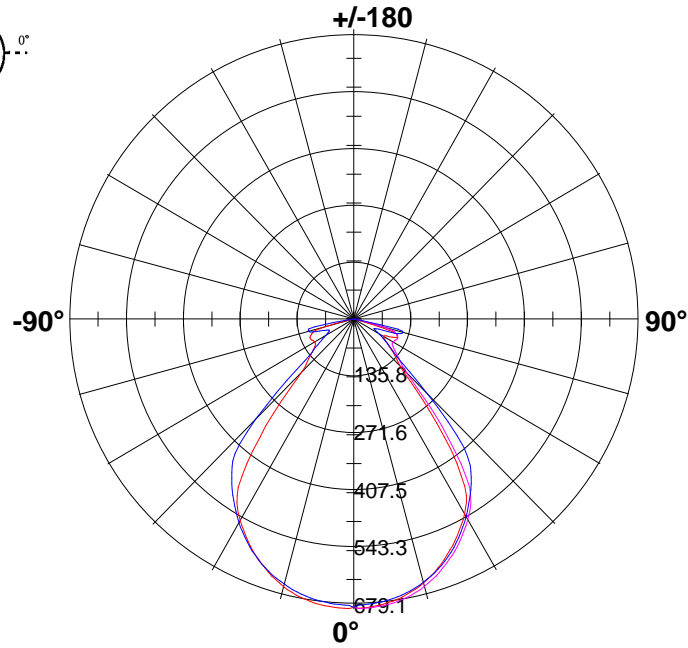
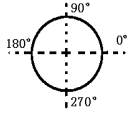
Photometric Data Table [cd]

| C\G | 80.0 | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135.0 | 6.9 | 4.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 6.9 | 4.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 225.0 | 52.6 | 13.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 270.0 | 52.6 | 13.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 315.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 360.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

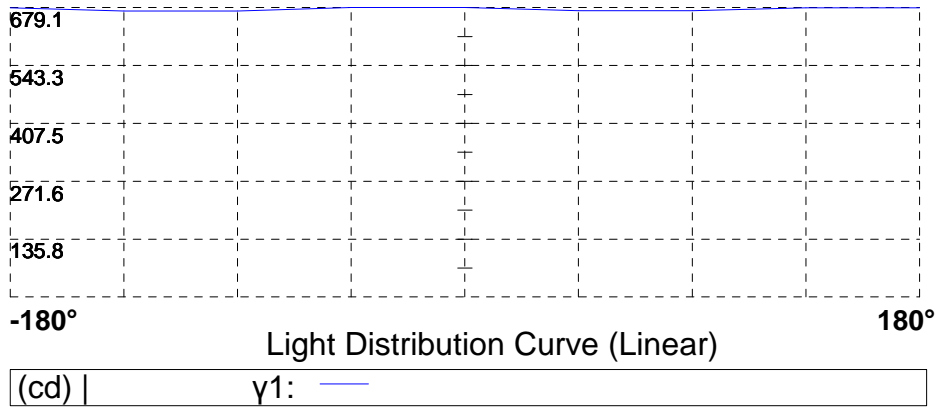
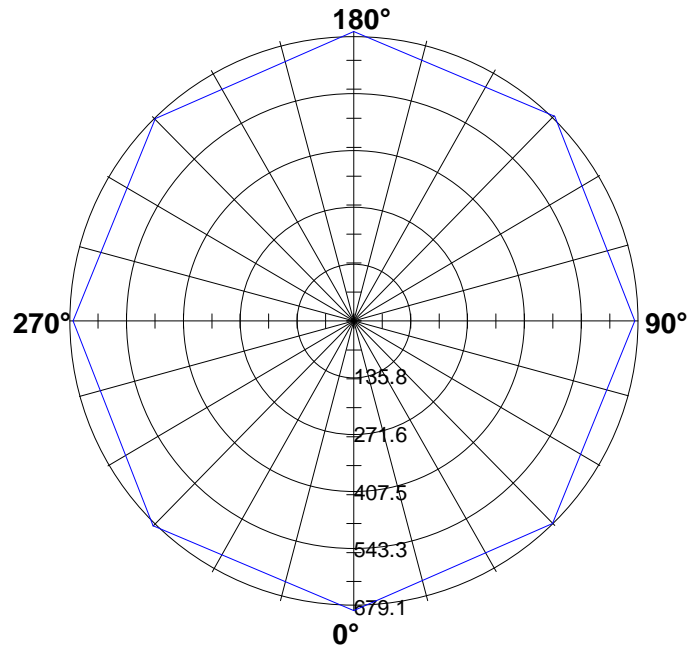
| C\G | 90.0 |
|-------|------|
| 0.0 | 0.0 |
| 45.0 | 0.0 |
| 90.0 | 0.0 |
| 135.0 | 0.0 |
| 180.0 | 0.0 |
| 225.0 | 0.0 |
| 270.0 | 0.0 |
| 315.0 | 0.0 |
| 360.0 | 0.0 |

Light Distribution Curve [Unit: cd]

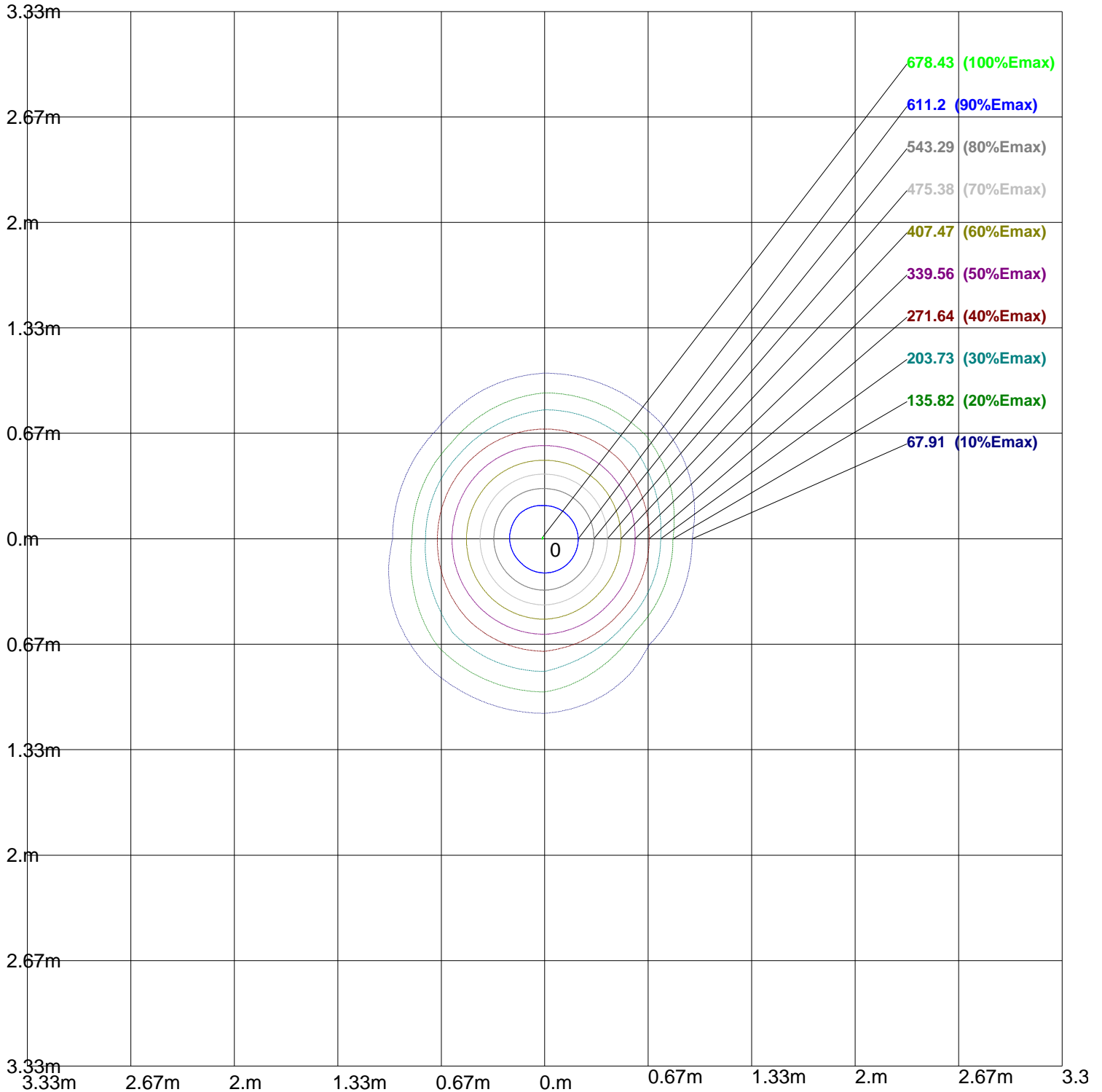
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 679.11lx

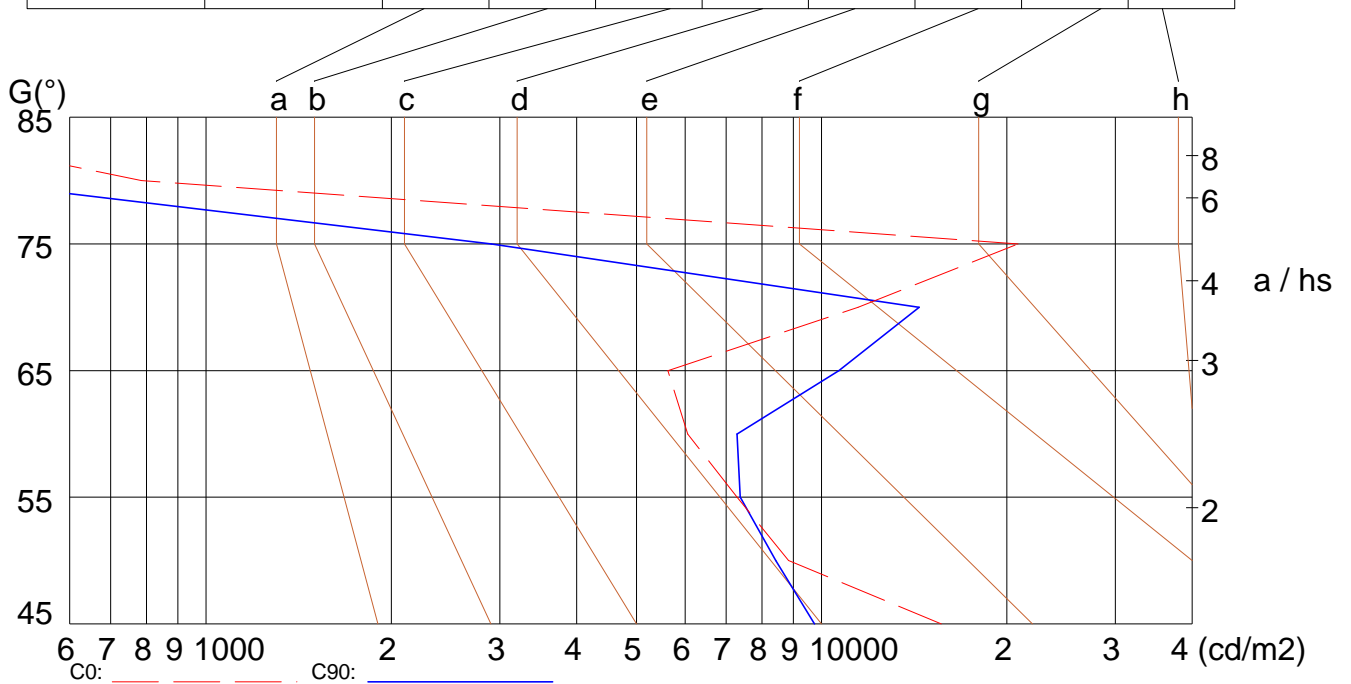
Luminance Limiting Curve

Diameter: mm
Length: 150mm
Width: 150mm
Height: mm

(cd/m²)

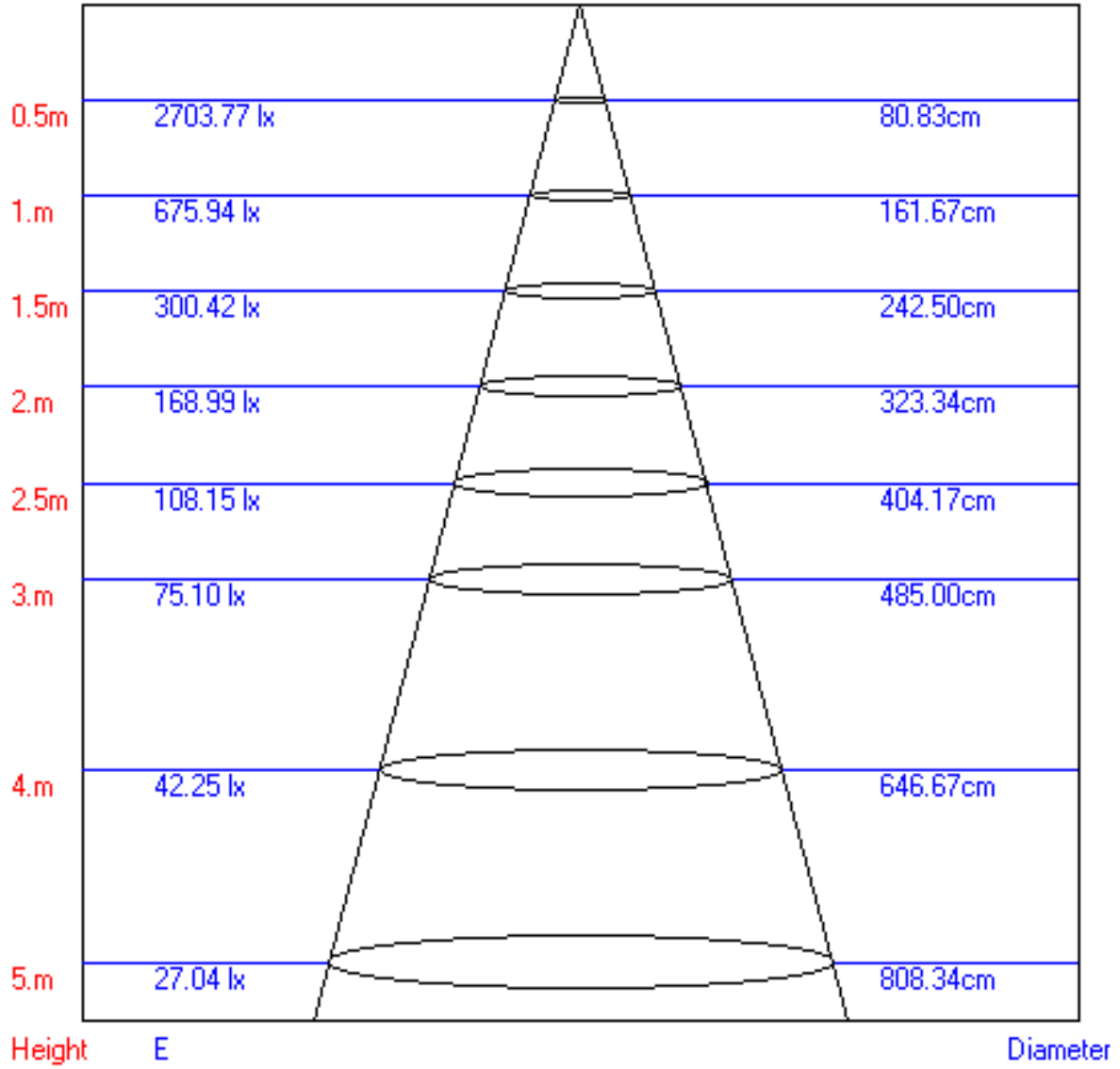
| γ | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° |
|----------|-------|------|------|------|-------|-------|-------|-----|-----|
| C0 | 15632 | 8830 | 7285 | 6062 | 5629 | 11453 | 20850 | | |
| C90 | 9739 | 8416 | 7376 | 7289 | 10661 | 14409 | 2906 | | |

| 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:77.90°

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 | 1.08 | 1.07 | 1.06 | 1.07 | 1.05 | 1.04 | 1.03 | 1.01 | 0.99 | 0.98 | 0.96 | 0.94 | 0.91 | 0.89 | 0.87 | 0.82 |
| 2 | 0.95 | 0.93 | 0.92 | 0.94 | 0.92 | 0.90 | 0.92 | 0.89 | 0.86 | 0.88 | 0.84 | 0.82 | 0.83 | 0.79 | 0.76 | 0.71 |
| 3 | 0.84 | 0.82 | 0.80 | 0.84 | 0.81 | 0.79 | 0.82 | 0.78 | 0.75 | 0.79 | 0.75 | 0.72 | 0.75 | 0.71 | 0.67 | 0.63 |
| 4 | 0.75 | 0.73 | 0.71 | 0.75 | 0.72 | 0.70 | 0.74 | 0.70 | 0.67 | 0.72 | 0.67 | 0.64 | 0.69 | 0.64 | 0.60 | 0.56 |
| 5 | 0.68 | 0.65 | 0.64 | 0.68 | 0.65 | 0.62 | 0.67 | 0.63 | 0.60 | 0.66 | 0.61 | 0.57 | 0.64 | 0.58 | 0.54 | 0.50 |
| 6 | 0.61 | 0.59 | 0.58 | 0.62 | 0.58 | 0.56 | 0.61 | 0.57 | 0.54 | 0.60 | 0.55 | 0.51 | 0.59 | 0.53 | 0.49 | 0.45 |
| 7 | 0.56 | 0.54 | 0.52 | 0.56 | 0.53 | 0.51 | 0.56 | 0.52 | 0.49 | 0.56 | 0.50 | 0.47 | 0.55 | 0.49 | 0.44 | 0.41 |
| 8 | 0.51 | 0.49 | 0.48 | 0.52 | 0.49 | 0.47 | 0.52 | 0.48 | 0.45 | 0.52 | 0.46 | 0.43 | 0.51 | 0.45 | 0.40 | 0.37 |
| 9 | 0.47 | 0.45 | 0.44 | 0.47 | 0.45 | 0.43 | 0.48 | 0.44 | 0.41 | 0.48 | 0.43 | 0.39 | 0.48 | 0.42 | 0.37 | 0.34 |
| 10 | 0.43 | 0.41 | 0.40 | 0.44 | 0.41 | 0.39 | 0.45 | 0.40 | 0.38 | 0.45 | 0.40 | 0.36 | 0.45 | 0.39 | 0.34 | 0.31 |

