
Light Blue USA-Rayhil

Client:

LumCAT: INV-16-CCT-UNV-**-3500K-F

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.020

LampCAT:

Current(A): 0.199

Lamp flux(lm): 1984.0

Power (W): 23.680

Number of Lamps: 1

PF: 0.993

Length(mm): -380

Width(mm): -380

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1984.03, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 83.79

Central intensity(cd): 685.377, Maximum intensity(cd): 685.377

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=113.4

[C90/270]Total=114.2

Field angle(10%Imax): [C0/180]Total=162.4

[C90/270]Total=161.8

Maximum s/h(1/2): C0_180=1.27 C90_270=1.26

Maximum s/h(1/4): C0_180=1.39 C90_270=1.38

Up flux rate of lamp(%): 0.39%

Down flux rate of lamp(%): 99.61%

Up flux rate of LUM(%): 0.39%

Down flux rate of LUM(%): 99.61%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 78.263%

Light Blue USA-Rayhil INV-16-CCT-UNV-**-3500K-F

Zonal flux distribution table

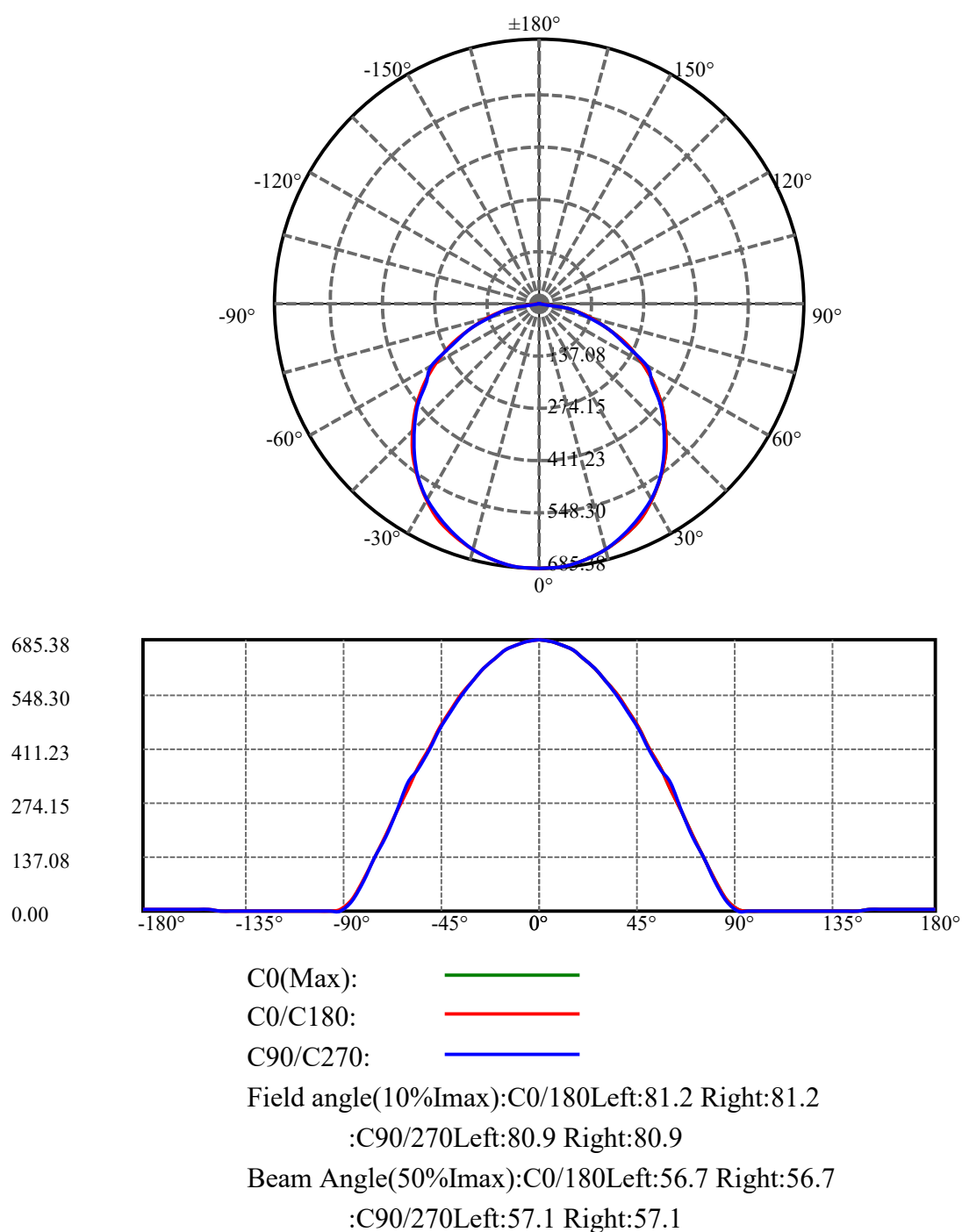
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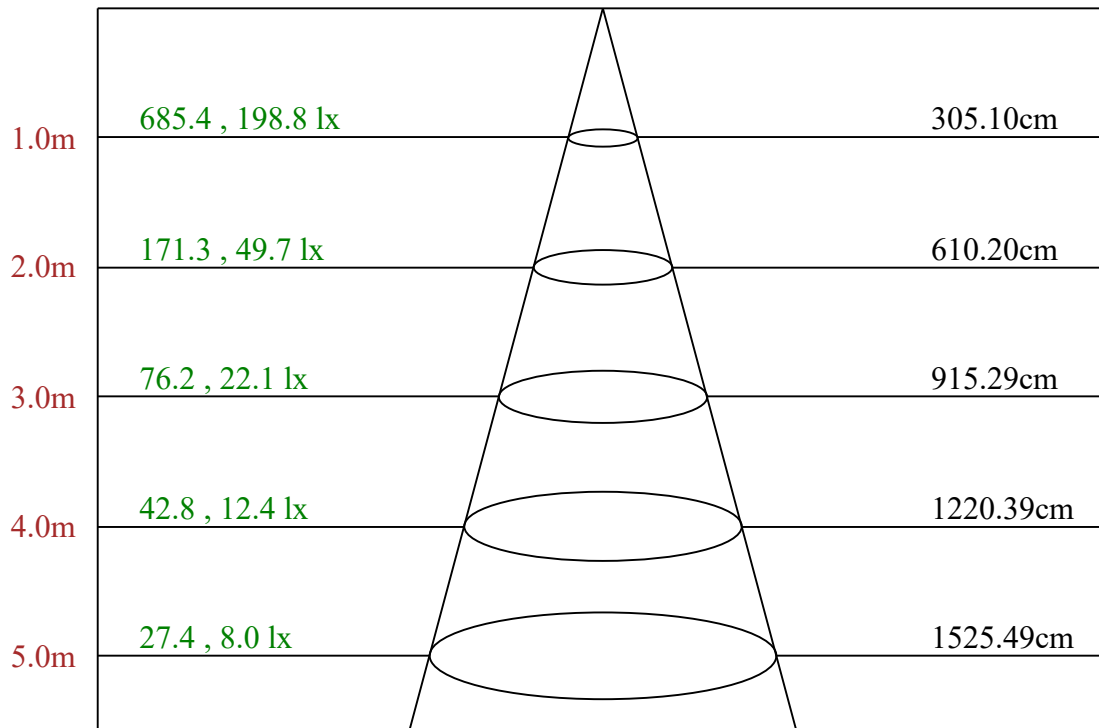
| $\gamma(^{\circ})$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(%) | Eff Sum(%) |
|--------------------|---------------|-------------|-----------|-------------|------------|
| 0.0 | 685.377 | 0.000 | 0 | 0.00% | 0.00% |
| 5.0 | 682.440 | 16.352 | 16.352 | 0.82% | 0.82% |
| 10.0 | 673.512 | 48.507 | 64.859 | 2.44% | 3.27% |
| 15.0 | 659.318 | 79.063 | 143.921 | 3.98% | 7.25% |
| 20.0 | 638.945 | 106.995 | 250.916 | 5.39% | 12.65% |
| 25.0 | 613.841 | 131.394 | 382.31 | 6.62% | 19.27% |
| 30.0 | 583.586 | 151.535 | 533.846 | 7.64% | 26.91% |
| 35.0 | 547.722 | 166.593 | 700.439 | 8.40% | 35.30% |
| 40.0 | 508.232 | 176.178 | 876.617 | 8.88% | 44.18% |
| 45.0 | 461.000 | 179.461 | 1056.078 | 9.05% | 53.23% |
| 50.0 | 411.247 | 176.250 | 1232.328 | 8.88% | 62.11% |
| 55.0 | 358.024 | 167.265 | 1399.593 | 8.43% | 70.54% |
| 60.0 | 304.613 | 153.167 | 1552.76 | 7.72% | 78.26% |
| 65.0 | 247.076 | 134.117 | 1686.876 | 6.76% | 85.02% |
| 70.0 | 189.887 | 110.642 | 1797.518 | 5.58% | 90.60% |
| 75.0 | 133.879 | 84.627 | 1882.146 | 4.27% | 94.86% |
| 80.0 | 80.541 | 57.373 | 1939.518 | 2.89% | 97.76% |
| 85.0 | 26.628 | 29.120 | 1968.639 | 1.47% | 99.22% |
| 90.0 | 1.486 | 7.698 | 1976.336 | 0.39% | 99.61% |
| 95.0 | 0.763 | 0.616 | 1976.952 | 0.03% | 99.64% |
| 100.0 | 0.686 | 0.394 | 1977.346 | 0.02% | 99.66% |
| 105.0 | 0.534 | 0.326 | 1977.672 | 0.02% | 99.68% |
| 110.0 | 0.496 | 0.269 | 1977.941 | 0.01% | 99.69% |
| 115.0 | 0.648 | 0.290 | 1978.231 | 0.01% | 99.71% |
| 120.0 | 1.068 | 0.417 | 1978.648 | 0.02% | 99.73% |
| 125.0 | 0.916 | 0.459 | 1979.107 | 0.02% | 99.75% |
| 130.0 | 0.916 | 0.398 | 1979.505 | 0.02% | 99.77% |
| 135.0 | 0.916 | 0.370 | 1979.875 | 0.02% | 99.79% |
| 140.0 | 0.916 | 0.339 | 1980.214 | 0.02% | 99.81% |
| 145.0 | 1.831 | 0.458 | 1980.673 | 0.02% | 99.83% |
| 150.0 | 2.365 | 0.618 | 1981.29 | 0.03% | 99.86% |
| 155.0 | 3.205 | 0.705 | 1981.995 | 0.04% | 99.90% |
| 160.0 | 3.243 | 0.676 | 1982.671 | 0.03% | 99.93% |
| 165.0 | 3.395 | 0.547 | 1983.219 | 0.03% | 99.96% |
| 170.0 | 4.044 | 0.441 | 1983.66 | 0.02% | 99.98% |
| 175.0 | 4.197 | 0.295 | 1983.955 | 0.01% | 100.00% |
| 180.0 | 2.289 | 0.078 | 1984.032 | 0.00% | 100.00% |

| ZONAL LUMEN SUMMARY | | | |
|---------------------|---------|---------|---------|
| Zone | Lumens | %Lamp | %Fixt |
| 0-30 | 533.85 | 26.91% | 26.91% |
| 0-40 | 876.62 | 44.18% | 44.18% |
| 0-60 | 1552.76 | 78.26% | 78.26% |
| 0-90 | 1976.34 | 99.61% | 99.61% |
| 0-120 | 1978.65 | 99.73% | 99.73% |
| 0-180 | 1984.03 | 100.00% | 100.00% |
| 60-90 | 423.58 | 21.35% | 21.35% |
| 90-120 | 2.31 | 0.12% | 0.12% |
| 90-130 | 3.17 | 0.16% | 0.16% |
| 90-150 | 4.95 | 0.25% | 0.25% |
| 90-180 | 7.62 | 0.38% | 0.38% |
| 0-61.28 | 1587.23 | 80.00% | 80.00% |

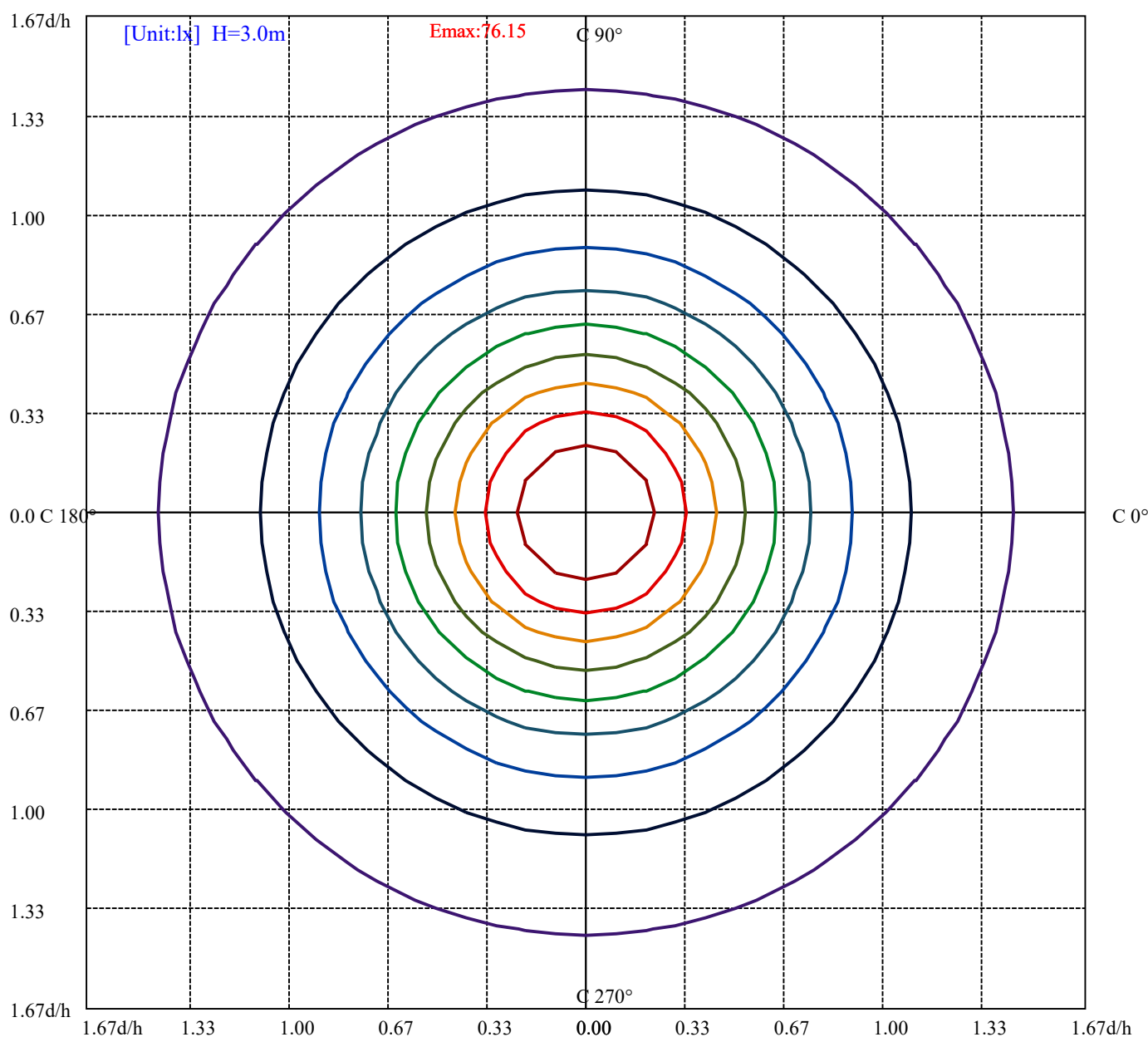
ZONAL LUMEN SUMMARY

| | |
|---------|--------|
| 0-10 | 64.86 |
| 10-20 | 186.06 |
| 20-30 | 282.93 |
| 30-40 | 342.77 |
| 40-50 | 355.71 |
| 50-60 | 320.43 |
| 60-70 | 244.76 |
| 70-80 | 142.00 |
| 80-90 | 36.82 |
| 90-100 | 1.01 |
| 100-110 | 0.60 |
| 110-120 | 0.71 |
| 120-130 | 0.86 |
| 130-140 | 0.71 |
| 140-150 | 1.08 |
| 150-160 | 1.38 |
| 160-170 | 0.99 |
| 170-180 | 0.29 |

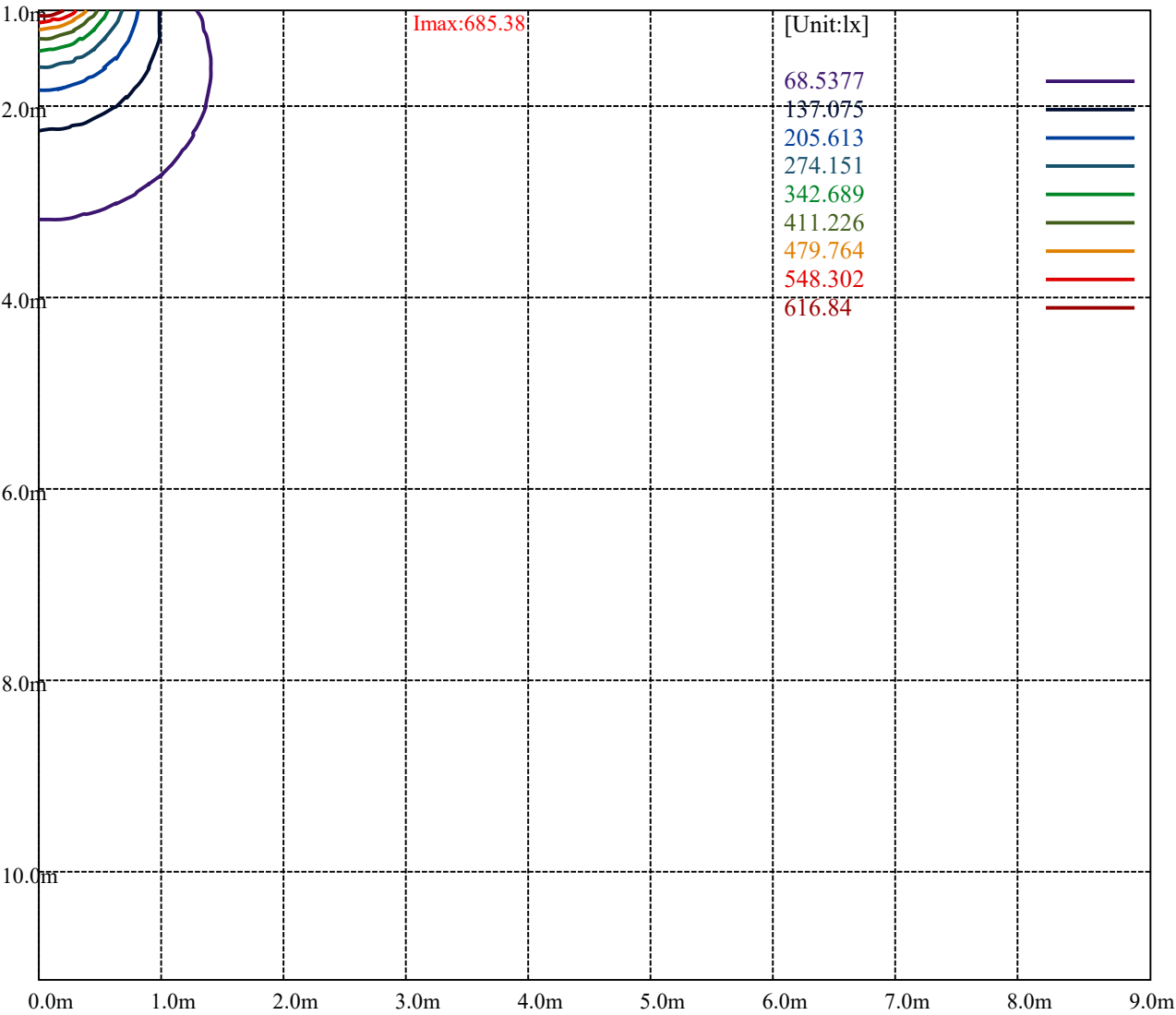




Max , Ave Beam angle of C0 plane 113.51



| | |
|--------------------|---|
| (10%Emax) 7.6153 | — |
| (20%Emax) 15.23056 | — |
| (30%Emax) 22.84589 | — |
| (40%Emax) 30.46122 | — |
| (50%Emax) 38.07655 | — |
| (60%Emax) 45.69178 | — |
| (70%Emax) 53.30711 | — |
| (80%Emax) 60.92244 | — |
| (90%Emax) 68.53778 | — |

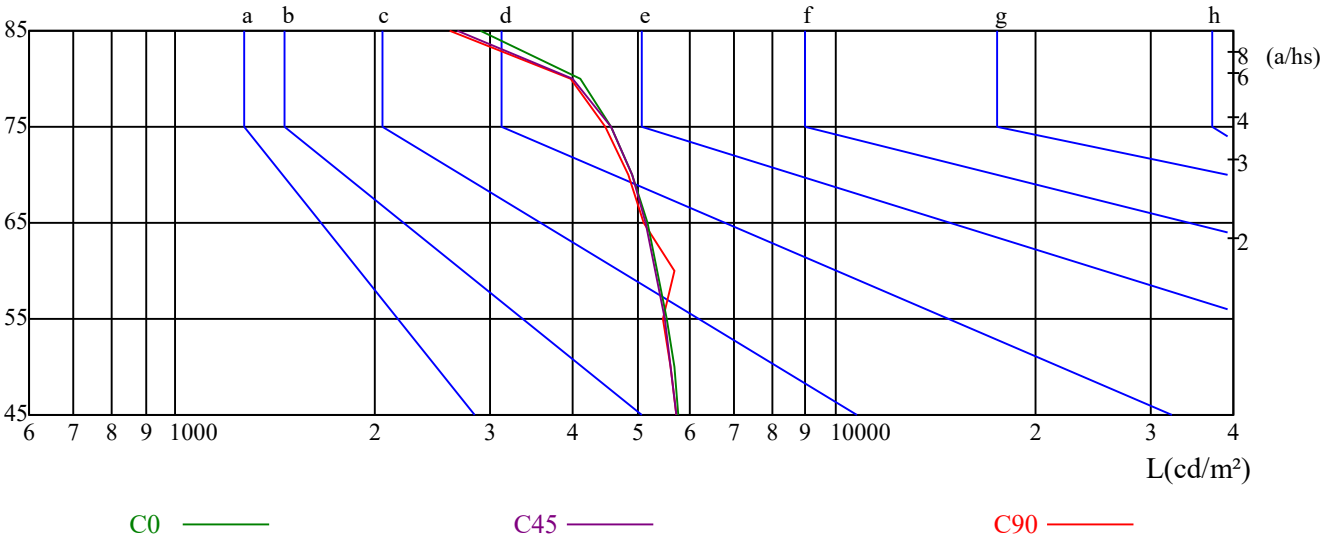


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| | | | | | | | | | |
|----------|------|------|------|------|------|------|------|------|------|
| γ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
| C0 | 5773 | 5685 | 5554 | 5379 | 5180 | 4915 | 4562 | 4102 | 2893 |
| C45 | 5745 | 5632 | 5501 | 5320 | 5141 | 4911 | 4576 | 4004 | 2667 |
| C90 | 5730 | 5606 | 5479 | 5696 | 5114 | 4854 | 4479 | 3955 | 2596 |

| | | | | | | | | |
|------------|------------|---------|------------|------------|---------|------------|------------|---------|
| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
| 5180 | 5114 | 5141 | 4562 | 4479 | 4576 | 2893 | 2596 | 2667 |

| 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 |

 $\gamma(^{\circ})$ 

| RHOC | 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 | 1.19 | 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 | 1.04 | 0.99 | 0.96 | 1.01 | 0.97 | 0.94 | 0.97 | 0.94 | 0.91 | 0.93 | 0.90 | 0.88 | 0.89 | 0.87 | 0.85 | 0.83 |
| 2 | 0.90 | 0.83 | 0.78 | 0.88 | 0.82 | 0.77 | 0.85 | 0.79 | 0.75 | 0.81 | 0.77 | 0.73 | 0.78 | 0.75 | 0.71 | 0.69 |
| 3 | 0.79 | 0.71 | 0.64 | 0.78 | 0.70 | 0.64 | 0.74 | 0.68 | 0.63 | 0.72 | 0.66 | 0.61 | 0.69 | 0.64 | 0.60 | 0.58 |
| 4 | 0.70 | 0.61 | 0.54 | 0.69 | 0.60 | 0.54 | 0.66 | 0.59 | 0.53 | 0.64 | 0.57 | 0.52 | 0.62 | 0.56 | 0.52 | 0.49 |
| 5 | 0.63 | 0.53 | 0.47 | 0.61 | 0.53 | 0.46 | 0.59 | 0.52 | 0.46 | 0.57 | 0.51 | 0.45 | 0.55 | 0.50 | 0.45 | 0.43 |
| 6 | 0.56 | 0.47 | 0.41 | 0.55 | 0.47 | 0.41 | 0.53 | 0.46 | 0.40 | 0.52 | 0.45 | 0.40 | 0.50 | 0.44 | 0.39 | 0.37 |
| 7 | 0.51 | 0.42 | 0.36 | 0.50 | 0.42 | 0.36 | 0.49 | 0.41 | 0.36 | 0.47 | 0.40 | 0.35 | 0.46 | 0.40 | 0.35 | 0.33 |
| 8 | 0.46 | 0.38 | 0.32 | 0.46 | 0.38 | 0.32 | 0.44 | 0.37 | 0.32 | 0.43 | 0.36 | 0.31 | 0.42 | 0.36 | 0.31 | 0.29 |
| 9 | 0.43 | 0.34 | 0.29 | 0.42 | 0.34 | 0.29 | 0.41 | 0.34 | 0.29 | 0.40 | 0.33 | 0.28 | 0.39 | 0.33 | 0.28 | 0.26 |
| 10 | 0.39 | 0.31 | 0.26 | 0.39 | 0.31 | 0.26 | 0.38 | 0.31 | 0.26 | 0.37 | 0.30 | 0.26 | 0.36 | 0.30 | 0.26 | 0.24 |

Light Blue USA-Rayhil INV-16-CCT-UNV-**-3500K-F

| Intensity data(cd) | | | | | | | | | Appendix Page: 10 Total:12 | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------|--|--|
| C/γ(°) | 0.0 | 5.0 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | | |
| 0.0 | 685.38 | 685.38 | 679.93 | 668.13 | 649.97 | 628.19 | 599.14 | 565.55 | 528.33 | | |
| 15.0 | 685.38 | 685.38 | 679.01 | 666.26 | 648.06 | 627.12 | 598.00 | 565.23 | 527.00 | | |
| 30.0 | 685.38 | 684.46 | 678.99 | 667.12 | 647.96 | 626.06 | 596.85 | 564.00 | 525.67 | | |
| 45.0 | 685.38 | 684.46 | 677.15 | 665.27 | 647.91 | 621.41 | 594.91 | 561.10 | 521.80 | | |
| 60.0 | 685.38 | 683.54 | 676.21 | 666.14 | 646.89 | 622.15 | 591.92 | 557.10 | 518.61 | | |
| 75.0 | 685.38 | 683.54 | 675.30 | 662.47 | 643.23 | 618.49 | 587.34 | 555.27 | 515.87 | | |
| 90.0 | 685.38 | 682.63 | 675.30 | 662.47 | 643.23 | 616.66 | 587.34 | 552.52 | 512.20 | | |
| 105.0 | 685.38 | 682.63 | 674.38 | 659.72 | 640.48 | 614.82 | 586.42 | 548.85 | 511.28 | | |
| 120.0 | 685.38 | 683.54 | 675.27 | 660.57 | 641.28 | 616.47 | 586.15 | 552.16 | 509.90 | | |
| 135.0 | 685.38 | 684.46 | 674.34 | 660.54 | 640.30 | 616.38 | 586.02 | 552.90 | 508.74 | | |
| 150.0 | 685.38 | 682.62 | 674.34 | 660.54 | 621.90 | 617.30 | 588.78 | 550.14 | 509.66 | | |
| 165.0 | 685.38 | 682.62 | 674.34 | 658.70 | 641.22 | 616.38 | 586.02 | 550.14 | 506.90 | | |
| 180.0 | 685.38 | 680.84 | 669.04 | 652.70 | 630.00 | 601.86 | 570.09 | 531.05 | 490.20 | | |
| 195.0 | 685.38 | 679.01 | 667.17 | 651.70 | 628.04 | 603.46 | 571.60 | 532.46 | 488.78 | | |
| 210.0 | 685.38 | 679.90 | 668.95 | 652.52 | 629.71 | 602.33 | 570.39 | 534.80 | 490.99 | | |
| 225.0 | 685.38 | 680.81 | 668.93 | 652.48 | 630.55 | 603.13 | 571.15 | 533.68 | 490.73 | | |
| 240.0 | 685.38 | 681.71 | 670.72 | 654.22 | 632.23 | 604.74 | 572.67 | 536.02 | 494.79 | | |
| 255.0 | 685.38 | 679.88 | 670.72 | 655.14 | 632.23 | 606.58 | 575.42 | 536.94 | 494.79 | | |
| 270.0 | 685.38 | 681.71 | 670.72 | 655.14 | 634.07 | 606.58 | 576.34 | 538.77 | 497.54 | | |
| 285.0 | 685.38 | 679.88 | 670.72 | 657.89 | 634.98 | 608.41 | 579.09 | 540.61 | 531.44 | | |
| 300.0 | 685.38 | 681.70 | 672.52 | 657.82 | 653.22 | 611.88 | 581.56 | 544.81 | 505.31 | | |
| 315.0 | 685.38 | 682.62 | 673.42 | 658.70 | 638.46 | 614.54 | 582.34 | 547.38 | 505.98 | | |
| 330.0 | 685.38 | 682.62 | 673.42 | 658.70 | 638.46 | 613.62 | 583.26 | 547.38 | 505.06 | | |
| 345.0 | 685.38 | 682.62 | 673.42 | 658.70 | 640.30 | 613.62 | 583.26 | 546.46 | 505.98 | | |
| 360.0 | 685.38 | 685.38 | 679.93 | 668.13 | 649.97 | 628.19 | 599.14 | 565.55 | 528.33 | | |
| C/γ(°) | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 | | |
| 0.0 | 482.94 | 436.64 | 384.90 | 329.53 | 272.34 | 215.14 | 157.95 | 103.49 | 49.93 | | |
| 15.0 | 481.49 | 432.34 | 379.55 | 327.67 | 272.15 | 213.90 | 157.46 | 101.94 | 47.33 | | |
| 30.0 | 478.21 | 431.67 | 379.65 | 323.98 | 267.40 | 209.90 | 153.32 | 101.30 | 46.54 | | |
| 45.0 | 477.94 | 427.68 | 375.59 | 320.76 | 265.93 | 206.53 | 151.70 | 95.95 | 42.04 | | |
| 60.0 | 475.55 | 427.90 | 375.67 | 318.87 | 262.06 | 205.25 | 147.52 | 94.38 | 38.48 | | |
| 75.0 | 470.97 | 421.49 | 368.34 | 312.45 | 258.39 | 201.58 | 145.69 | 89.80 | 36.65 | | |
| 90.0 | 469.14 | 416.91 | 366.51 | 312.45 | 254.73 | 197.92 | 140.19 | 87.96 | 32.07 | | |
| 105.0 | 465.47 | 416.91 | 364.68 | 308.79 | 253.81 | 194.25 | 140.19 | 84.30 | 31.15 | | |
| 120.0 | 465.80 | 413.43 | 362.90 | 307.78 | 251.73 | 194.77 | 137.81 | 84.52 | 31.24 | | |
| 135.0 | 463.66 | 413.99 | 359.71 | 305.43 | 248.39 | 195.03 | 138.92 | 82.80 | 28.52 | | |
| 150.0 | 462.74 | 415.83 | 359.71 | 308.19 | 251.15 | 194.11 | 138.00 | 80.04 | 30.36 | | |
| 165.0 | 463.66 | 415.83 | 362.47 | 307.27 | 251.15 | 194.11 | 138.92 | 82.80 | 28.52 | | |
| 180.0 | 443.00 | 392.16 | 337.70 | 280.51 | 224.22 | 166.12 | 109.84 | 58.10 | 7.26 | | |
| 195.0 | 440.53 | 389.56 | 334.95 | 279.43 | 225.73 | 168.39 | 112.86 | 56.43 | 7.28 | | |
| 210.0 | 442.62 | 391.51 | 336.76 | 281.09 | 225.42 | 168.83 | 114.99 | 56.58 | 9.13 | | |
| 225.0 | 443.21 | 392.95 | 341.77 | 282.38 | 229.37 | 172.72 | 115.14 | 60.31 | 10.97 | | |
| 240.0 | 448.06 | 396.75 | 342.69 | 286.80 | 229.99 | 173.18 | 119.12 | 62.31 | 12.83 | | |
| 255.0 | 448.06 | 399.50 | 341.77 | 289.54 | 232.74 | 175.93 | 120.03 | 107.20 | 15.58 | | |
| 270.0 | 449.89 | 400.41 | 346.35 | 333.53 | 235.48 | 178.67 | 122.78 | 67.80 | 19.24 | | |
| 285.0 | 455.39 | 404.08 | 350.02 | 294.13 | 240.98 | 179.59 | 127.36 | 72.39 | 20.16 | | |
| 300.0 | 454.77 | 407.00 | 354.63 | 298.59 | 242.55 | 185.58 | 127.70 | 72.58 | 22.97 | | |
| 315.0 | 458.14 | 407.55 | 354.19 | 298.07 | 241.95 | 187.67 | 131.56 | 76.36 | 23.92 | | |
| 330.0 | 461.82 | 407.55 | 356.03 | 301.75 | 245.63 | 187.67 | 131.56 | 75.44 | 23.00 | | |
| 345.0 | 460.90 | 410.31 | 356.03 | 301.75 | 246.55 | 190.43 | 132.48 | 78.20 | 23.92 | | |
| 360.0 | 482.94 | 436.64 | 384.90 | 329.53 | 272.34 | 215.14 | 157.95 | 103.49 | 49.93 | | |

Light Blue USA-Rayhil INV-16-CCT-UNV-**-3500K-F

| Intensity data(cd) | | | | | | | | Appendix Page: 11 Total:12 | |
|--------------------|------|------|-------|-------|-------|-------|-------|----------------------------|-------|
| C/γ(°) | 90.0 | 95.0 | 100.0 | 105.0 | 110.0 | 115.0 | 120.0 | 125.0 | 130.0 |
| 0.0 | 3.63 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| 15.0 | 3.64 | 0.91 | 0.00 | 0.00 | 0.00 | 0.91 | 0.91 | 0.91 | 0.91 |
| 30.0 | 3.65 | 0.91 | 0.91 | 0.91 | 0.00 | 0.91 | 0.91 | 0.91 | 0.91 |
| 45.0 | 2.74 | 0.91 | 0.91 | 0.00 | 0.00 | 0.00 | 0.91 | 0.91 | 0.91 |
| 60.0 | 2.75 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 0.92 | 0.92 |
| 75.0 | 2.75 | 0.92 | 0.92 | 0.00 | 0.00 | 0.00 | 0.92 | 0.92 | 0.92 |
| 90.0 | 0.92 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 0.92 | 0.92 |
| 105.0 | 0.92 | 0.00 | 0.92 | 0.00 | 0.00 | 0.92 | 0.92 | 0.92 | 0.92 |
| 120.0 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 0.92 | 0.92 | 0.92 |
| 135.0 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 0.92 | 0.92 |
| 150.0 | 0.92 | 0.92 | 0.92 | 0.00 | 0.00 | 0.00 | 0.92 | 0.92 | 0.92 |
| 165.0 | 0.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 0.92 | 0.92 |
| 180.0 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| 195.0 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| 210.0 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| 225.0 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| 240.0 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| 255.0 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| 270.0 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 2.75 | 0.92 | 0.92 |
| 285.0 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 2.75 | 0.92 | 0.92 |
| 300.0 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| 315.0 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| 330.0 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| 345.0 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| 360.0 | 3.63 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |

| C/γ(°) | 135.0 | 140.0 | 145.0 | 150.0 | 155.0 | 160.0 | 165.0 | 170.0 | 175.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.91 | 0.91 | 2.72 | 2.72 | 3.63 | 3.63 | 3.63 | 4.54 | 4.54 |
| 15.0 | 0.91 | 0.91 | 2.73 | 2.73 | 3.64 | 3.64 | 3.64 | 4.55 | 4.55 |
| 30.0 | 0.91 | 0.91 | 2.74 | 2.74 | 3.65 | 3.65 | 3.65 | 4.56 | 4.56 |
| 45.0 | 0.91 | 0.91 | 2.74 | 2.74 | 3.66 | 3.66 | 3.66 | 4.57 | 4.57 |
| 60.0 | 0.92 | 0.92 | 2.75 | 2.75 | 3.67 | 3.67 | 3.67 | 4.58 | 4.58 |
| 75.0 | 0.92 | 0.92 | 2.75 | 2.75 | 3.67 | 3.67 | 3.67 | 4.58 | 4.58 |
| 90.0 | 0.92 | 0.92 | 2.75 | 2.75 | 3.67 | 3.67 | 3.67 | 3.67 | 4.58 |
| 105.0 | 0.92 | 0.92 | 2.75 | 2.75 | 3.67 | 3.67 | 3.67 | 3.67 | 4.58 |
| 120.0 | 0.92 | 0.92 | 2.76 | 2.76 | 3.67 | 3.67 | 3.67 | 4.59 | 4.59 |
| 135.0 | 0.92 | 0.92 | 2.76 | 2.76 | 3.68 | 3.68 | 3.68 | 4.60 | 4.60 |
| 150.0 | 0.92 | 0.92 | 2.76 | 2.76 | 3.68 | 3.68 | 3.68 | 4.60 | 4.60 |
| 165.0 | 0.92 | 0.92 | 2.76 | 2.76 | 3.68 | 3.68 | 3.68 | 4.60 | 4.60 |
| 180.0 | 0.91 | 0.91 | 0.91 | 2.72 | 2.72 | 3.63 | 3.63 | 3.63 | 3.63 |
| 195.0 | 0.91 | 0.91 | 0.91 | 2.73 | 2.73 | 2.73 | 3.64 | 3.64 | 3.64 |
| 210.0 | 0.91 | 0.91 | 0.91 | 2.74 | 2.74 | 2.74 | 3.65 | 3.65 | 3.65 |
| 225.0 | 0.91 | 0.91 | 0.91 | 0.91 | 2.74 | 2.74 | 2.74 | 3.66 | 3.66 |
| 240.0 | 0.92 | 0.92 | 0.92 | 0.92 | 2.75 | 2.75 | 2.75 | 3.67 | 3.67 |
| 255.0 | 0.92 | 0.92 | 0.92 | 2.75 | 2.75 | 2.75 | 3.67 | 3.67 | 3.67 |
| 270.0 | 0.92 | 0.92 | 0.92 | 2.75 | 2.75 | 2.75 | 2.75 | 3.67 | 3.67 |
| 285.0 | 0.92 | 0.92 | 0.92 | 2.75 | 2.75 | 2.75 | 2.75 | 3.67 | 3.67 |
| 300.0 | 0.92 | 0.92 | 0.92 | 0.92 | 2.76 | 2.76 | 2.76 | 3.67 | 4.59 |
| 315.0 | 0.92 | 0.92 | 0.92 | 2.76 | 2.76 | 2.76 | 2.76 | 3.68 | 4.60 |
| 330.0 | 0.92 | 0.92 | 0.92 | 0.92 | 2.76 | 2.76 | 2.76 | 3.68 | 3.68 |
| 345.0 | 0.92 | 0.92 | 0.92 | 0.92 | 2.76 | 2.76 | 3.68 | 3.68 | 3.68 |
| 360.0 | 0.91 | 0.91 | 2.72 | 2.72 | 3.63 | 3.63 | 3.63 | 4.54 | 4.54 |

Intensity data(cd)

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| | |
|--------|-------|
| C/γ(°) | 180.0 |
| 0.0 | 4.54 |
| 15.0 | 4.55 |
| 30.0 | 4.56 |
| 45.0 | 4.57 |
| 60.0 | 4.58 |
| 75.0 | 4.58 |
| 90.0 | 4.58 |
| 105.0 | 4.58 |
| 120.0 | 4.59 |
| 135.0 | 4.60 |
| 150.0 | 4.60 |
| 165.0 | 4.60 |
| 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 | 4.54 |