

Luminaire Property

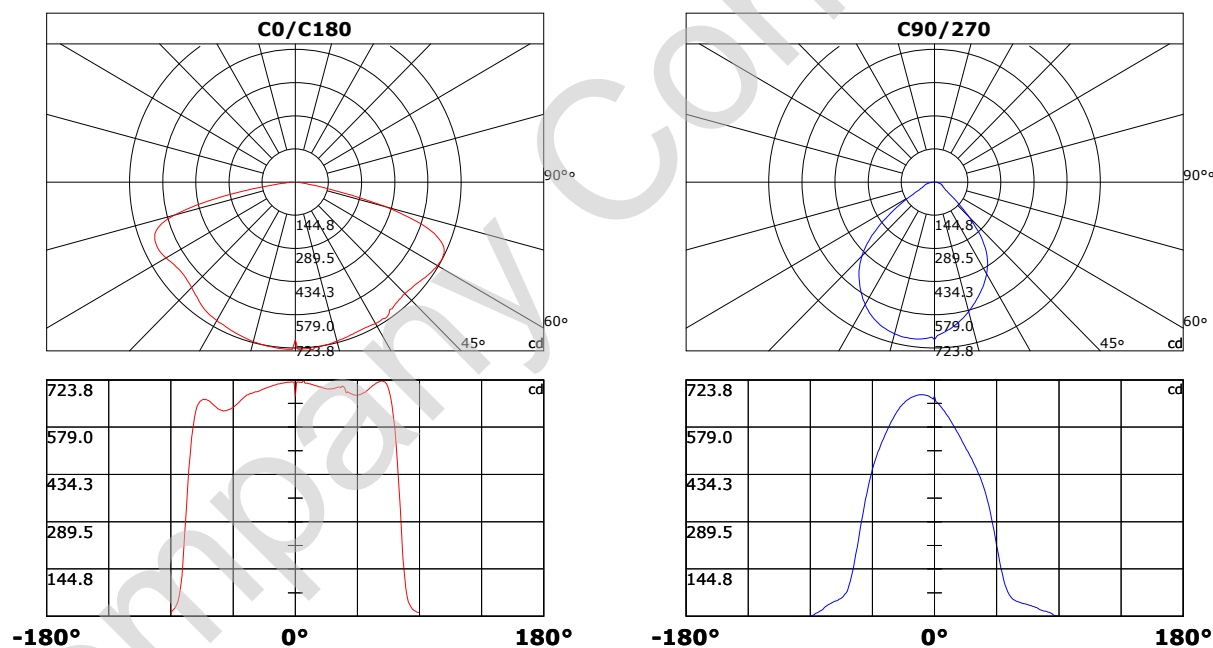
Luminaire Description: Y2-20W
 Luminaire Category:
 Lamp Category:
 Lamp Description:
 Number of Lamp:
 Lamp Lumens(lm): NA
 Luminous Length(m): 0.0
 Luminous Width(m): 0.0
 Luminous Height(m): 0.0

Voltage: 0.0 V
 Current: 0.0 A
 Power: 0.0 W
 Power Factor: 0.000
 Test Lab:
 Photometric Type: Type C
 Manufacture:

Photometric Results

CIE Class: Direct
 Luminaire Lumens: 1973.70 lm
 Efficiency: NA...!
 Central Intensity: 674.924cd
 Max. Intensity: 723.813cd
 Field Angle(10%Imax): NA

Max.Intensity Angle: C:0.0 G:6.0
 Beam Angle(50%Imax): L: -84.4 R:69.6
 Luminaire Efficacy Rating(LER) : 100.00%
 Upward Ratio: NA
 Downward Ratio: NA
 Beamwidth(50%Imax): H=135.69V=101.96



Light intensity data Unit[cd]

| C\G | G0.0 | G1.0 | G2.0 | G3.0 | G4.0 | G5.0 | G6.0 | G7.0 | G8.0 | G9.0 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0.0 | 674.9 | 716.5 | 717.2 | 716.3 | 716.1 | 715.6 | 723.8 | 714.2 | 714.2 | 713.4 |
| C30.0 | 674.9 | 661.0 | 658.7 | 657.1 | 654.6 | 651.9 | 649.6 | 646.7 | 644.5 | 641.6 |
| C60.0 | 674.9 | 659.8 | 656.5 | 652.9 | 648.4 | 644.4 | 640.0 | 635.6 | 630.2 | 625.4 |
| C90.0 | 674.9 | 657.6 | 653.9 | 649.4 | 644.5 | 638.8 | 633.8 | 627.9 | 621.5 | 615.6 |
| C120.0 | 674.9 | 662.4 | 659.7 | 656.3 | 651.6 | 647.2 | 643.5 | 638.7 | 634.6 | 629.2 |
| C150.0 | 674.9 | 660.0 | 656.0 | 656.3 | 653.8 | 651.7 | 648.8 | 645.8 | 643.0 | 640.1 |
| C180.0 | 674.9 | 716.7 | 717.2 | 717.6 | 717.0 | 716.5 | 716.0 | 715.4 | 714.5 | 713.6 |
| C210.0 | 674.9 | 663.5 | 664.6 | 666.1 | 667.1 | 667.1 | 668.4 | 668.2 | 668.8 | 668.4 |
| C240.0 | 674.9 | 665.2 | 667.5 | 669.4 | 671.0 | 672.3 | 673.4 | 673.9 | 674.4 | 674.1 |
| C270.0 | 674.9 | 665.3 | 668.4 | 671.0 | 673.1 | 675.2 | 676.2 | 677.6 | 678.2 | 678.4 |
| C300.0 | 674.9 | 668.1 | 670.6 | 672.8 | 674.7 | 676.0 | 677.6 | 677.5 | 678.6 | 678.7 |
| C330.0 | 674.9 | 665.2 | 665.5 | 667.3 | 668.8 | 670.0 | 671.1 | 671.7 | 672.1 | 672.8 |
| C360.0 | 674.9 | 716.5 | 717.2 | 716.3 | 716.1 | 715.6 | 723.8 | 714.2 | 714.2 | 713.4 |
| | | | | | | | | | | |
| C\G | G10.0 | G11.0 | G12.0 | G13.0 | G14.0 | G15.0 | G16.0 | G17.0 | G18.0 | G19.0 |
| C0.0 | 711.5 | 711.1 | 709.9 | 708.5 | 706.7 | 705.9 | 704.5 | 702.8 | 701.7 | 701.3 |
| C30.0 | 638.8 | 635.3 | 632.4 | 628.3 | 625.1 | 622.4 | 619.0 | 616.8 | 614.4 | 612.7 |
| C60.0 | 619.8 | 615.0 | 609.3 | 603.4 | 598.5 | 592.1 | 587.5 | 581.6 | 576.2 | 569.5 |
| C90.0 | 609.4 | 602.7 | 596.3 | 589.2 | 581.8 | 574.9 | 567.1 | 560.3 | 551.9 | 544.6 |
| C120.0 | 624.0 | 619.0 | 612.7 | 607.1 | 601.6 | 596.1 | 589.2 | 583.4 | 576.6 | 570.1 |
| C150.0 | 637.0 | 633.9 | 631.0 | 627.1 | 623.6 | 620.0 | 616.3 | 612.4 | 609.4 | 605.7 |
| C180.0 | 713.2 | 712.1 | 711.5 | 710.6 | 709.3 | 708.0 | 706.3 | 704.8 | 703.3 | 702.1 |
| C210.0 | 668.8 | 668.2 | 668.4 | 667.3 | 666.6 | 666.3 | 664.9 | 664.1 | 663.2 | 661.6 |
| C240.0 | 674.3 | 673.2 | 673.1 | 672.2 | 670.5 | 669.0 | 667.2 | 664.7 | 661.7 | 659.6 |
| C270.0 | 678.2 | 678.1 | 677.2 | 676.2 | 674.9 | 673.3 | 671.4 | 669.1 | 667.2 | 663.5 |
| C300.0 | 678.3 | 678.4 | 677.6 | 677.5 | 676.8 | 675.8 | 674.5 | 672.2 | 671.2 | 669.1 |
| C330.0 | 673.6 | 674.2 | 674.8 | 675.0 | 674.9 | 674.6 | 674.0 | 673.5 | 672.9 | 672.6 |
| C360.0 | 711.5 | 711.1 | 709.9 | 708.5 | 706.7 | 705.9 | 704.5 | 702.8 | 701.7 | 701.3 |
| | | | | | | | | | | |
| C\G | G20.0 | G21.0 | G22.0 | G23.0 | G24.0 | G25.0 | G26.0 | G27.0 | G28.0 | G29.0 |
| C0.0 | 699.2 | 698.3 | 697.1 | 696.0 | 696.3 | 696.0 | 695.7 | 696.7 | 697.2 | 698.6 |
| C30.0 | 610.3 | 608.2 | 605.5 | 602.1 | 599.1 | 594.8 | 590.5 | 586.2 | 582.3 | 577.6 |
| C60.0 | 564.0 | 556.8 | 549.8 | 543.8 | 536.4 | 530.4 | 523.2 | 519.6 | 511.2 | 505.9 |
| C90.0 | 536.4 | 527.9 | 520.3 | 512.0 | 504.9 | 496.9 | 489.0 | 480.8 | 472.0 | 463.8 |
| C120.0 | 563.0 | 554.5 | 551.8 | 541.6 | 534.8 | 527.8 | 525.6 | 521.1 | 513.5 | 505.3 |
| C150.0 | 602.4 | 598.9 | 594.8 | 591.1 | 587.2 | 583.7 | 577.5 | 572.0 | 573.1 | 564.5 |
| C180.0 | 700.4 | 698.5 | 697.6 | 695.7 | 693.7 | 692.2 | 690.6 | 688.1 | 687.3 | 686.7 |
| C210.0 | 659.4 | 657.7 | 655.6 | 653.3 | 651.0 | 648.5 | 646.4 | 643.6 | 641.0 | 638.6 |
| C240.0 | 656.2 | 653.0 | 649.3 | 644.4 | 640.2 | 634.5 | 630.0 | 624.2 | 619.0 | 612.6 |
| C270.0 | 661.2 | 657.8 | 653.3 | 649.6 | 644.5 | 639.6 | 633.1 | 627.7 | 620.7 | 613.8 |
| C300.0 | 668.0 | 665.8 | 663.9 | 661.0 | 658.8 | 655.1 | 650.3 | 646.3 | 640.9 | 635.8 |
| C330.0 | 671.7 | 671.4 | 671.1 | 671.0 | 670.5 | 670.3 | 670.3 | 670.2 | 670.4 | 670.0 |
| C360.0 | 699.2 | 698.3 | 697.1 | 696.0 | 696.3 | 696.0 | 695.7 | 696.7 | 697.2 | 698.6 |

Light intensity data Unit[cd]

| C\G | G30.0 | G31.0 | G32.0 | G33.0 | G34.0 | G35.0 | G36.0 | G37.0 | G38.0 | G39.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0.0 | 700.3 | 701.3 | 701.4 | 699.7 | 704.6 | 702.8 | 697.0 | 684.8 | 687.5 | 684.5 |
| C30.0 | 573.3 | 568.8 | 564.6 | 561.2 | 556.8 | 554.2 | 550.7 | 548.1 | 545.2 | 542.1 |
| C60.0 | 497.7 | 491.1 | 485.9 | 478.7 | 472.4 | 463.8 | 456.7 | 448.5 | 439.2 | 429.1 |
| C90.0 | 454.6 | 445.2 | 434.6 | 425.3 | 413.5 | 402.4 | 388.4 | 376.0 | 360.1 | 342.4 |
| C120.0 | 498.7 | 490.8 | 483.2 | 475.5 | 466.2 | 458.9 | 450.1 | 440.9 | 431.0 | 419.7 |
| C150.0 | 559.2 | 554.3 | 549.7 | 544.7 | 539.1 | 534.9 | 529.8 | 524.3 | 520.0 | 513.8 |
| C180.0 | 685.3 | 683.6 | 682.1 | 681.2 | 678.7 | 677.0 | 673.2 | 670.2 | 666.9 | 663.0 |
| C210.0 | 635.3 | 631.9 | 629.2 | 626.0 | 622.5 | 620.0 | 613.7 | 614.2 | 606.7 | 599.2 |
| C240.0 | 606.5 | 599.8 | 592.8 | 586.3 | 579.1 | 572.2 | 565.2 | 558.6 | 550.6 | 543.8 |
| C270.0 | 606.1 | 597.8 | 590.5 | 581.7 | 573.4 | 563.1 | 554.7 | 544.2 | 534.3 | 524.0 |
| C300.0 | 629.5 | 623.6 | 616.2 | 610.2 | 603.0 | 595.8 | 588.3 | 581.0 | 573.4 | 565.1 |
| C330.0 | 668.4 | 665.7 | 663.3 | 659.6 | 655.9 | 651.8 | 648.0 | 643.4 | 639.1 | 634.6 |
| C360.0 | 700.3 | 701.3 | 701.4 | 699.7 | 704.6 | 702.8 | 697.0 | 684.8 | 687.5 | 684.5 |
| | | | | | | | | | | |
| C\G | G40.0 | G41.0 | G42.0 | G43.0 | G44.0 | G45.0 | G46.0 | G47.0 | G48.0 | G49.0 |
| C0.0 | 682.0 | 680.3 | 678.4 | 677.7 | 676.6 | 676.8 | 677.2 | 679.0 | 680.7 | 682.9 |
| C30.0 | 540.2 | 537.9 | 535.6 | 532.7 | 530.0 | 526.5 | 522.5 | 516.8 | 510.5 | 501.5 |
| C60.0 | 416.7 | 403.2 | 387.8 | 382.8 | 371.4 | 351.8 | 331.8 | 308.4 | 284.0 | 259.5 |
| C90.0 | 325.3 | 305.0 | 285.2 | 262.6 | 240.5 | 216.3 | 193.5 | 170.8 | 148.9 | 130.2 |
| C120.0 | 409.3 | 397.7 | 384.6 | 370.1 | 355.5 | 337.5 | 320.6 | 305.4 | 271.7 | 270.3 |
| C150.0 | 508.8 | 504.1 | 497.8 | 492.0 | 485.8 | 480.0 | 473.0 | 465.2 | 456.4 | 448.2 |
| C180.0 | 658.5 | 653.9 | 650.4 | 646.3 | 643.3 | 639.4 | 637.4 | 634.5 | 632.8 | 631.3 |
| C210.0 | 598.5 | 594.0 | 590.4 | 586.7 | 583.0 | 579.6 | 576.0 | 572.7 | 569.7 | 566.8 |
| C240.0 | 537.5 | 530.4 | 524.3 | 516.8 | 510.0 | 501.6 | 493.6 | 484.7 | 474.3 | 463.4 |
| C270.0 | 512.7 | 502.9 | 490.1 | 478.1 | 463.9 | 450.0 | 433.7 | 415.0 | 397.0 | 376.9 |
| C300.0 | 556.1 | 546.7 | 537.7 | 526.8 | 516.0 | 502.5 | 488.4 | 472.9 | 454.8 | 435.2 |
| C330.0 | 630.4 | 626.8 | 622.7 | 619.2 | 615.6 | 612.3 | 608.9 | 605.7 | 602.1 | 598.2 |
| C360.0 | 682.0 | 680.3 | 678.4 | 677.7 | 676.6 | 676.8 | 677.2 | 679.0 | 680.7 | 682.9 |
| | | | | | | | | | | |
| C\G | G50.0 | G51.0 | G52.0 | G53.0 | G54.0 | G55.0 | G56.0 | G57.0 | G58.0 | G59.0 |
| C0.0 | 685.2 | 687.4 | 691.0 | 694.4 | 698.6 | 702.4 | 705.9 | 708.2 | 711.5 | 714.3 |
| C30.0 | 490.3 | 476.8 | 461.4 | 443.3 | 419.9 | 393.7 | 366.2 | 336.3 | 304.3 | 270.8 |
| C60.0 | 231.7 | 207.8 | 182.6 | 159.3 | 137.6 | 118.9 | 99.8 | 86.4 | 75.0 | 66.5 |
| C90.0 | 112.2 | 97.4 | 84.3 | 74.9 | 66.4 | 59.5 | 55.6 | 51.3 | 49.1 | 46.6 |
| C120.0 | 234.8 | 213.2 | 191.8 | 168.7 | 147.6 | 128.6 | 110.3 | 96.4 | 83.8 | 74.1 |
| C150.0 | 436.3 | 424.6 | 409.8 | 395.0 | 375.9 | 355.8 | 333.7 | 308.9 | 284.6 | 256.8 |
| C180.0 | 629.6 | 629.6 | 628.8 | 630.1 | 631.4 | 633.5 | 635.8 | 638.8 | 642.8 | 647.0 |
| C210.0 | 565.2 | 562.0 | 560.5 | 558.1 | 556.5 | 554.5 | 553.6 | 551.4 | 548.8 | 545.2 |
| C240.0 | 450.2 | 437.0 | 420.8 | 404.1 | 383.9 | 363.9 | 341.1 | 316.7 | 292.0 | 265.1 |
| C270.0 | 357.1 | 333.5 | 311.2 | 286.4 | 263.4 | 237.6 | 213.3 | 190.4 | 167.0 | 145.7 |
| C300.0 | 412.9 | 390.2 | 366.0 | 339.9 | 312.7 | 284.9 | 257.0 | 228.2 | 200.2 | 173.4 |
| C330.0 | 594.9 | 590.6 | 586.5 | 580.8 | 574.2 | 565.7 | 556.1 | 545.2 | 530.7 | 514.7 |
| C360.0 | 685.2 | 687.4 | 691.0 | 694.4 | 698.6 | 702.4 | 705.9 | 708.2 | 711.5 | 714.3 |

Light intensity data Unit[cd]

| C\G | G60.0 | G61.0 | G62.0 | G63.0 | G64.0 | G65.0 | G66.0 | G67.0 | G68.0 | G69.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C0.0 | 716.7 | 718.5 | 720.0 | 720.3 | 718.9 | 717.3 | 711.7 | 702.8 | 689.8 | 669.7 |
| C30.0 | 239.7 | 207.7 | 178.0 | 149.9 | 126.3 | 105.2 | 86.9 | 72.6 | 61.2 | 52.0 |
| C60.0 | 59.4 | 53.5 | 49.6 | 46.9 | 44.3 | 42.3 | 41.1 | 38.9 | 38.2 | 35.8 |
| C90.0 | 45.3 | 43.2 | 42.2 | 40.3 | 39.7 | 38.7 | 37.3 | 36.2 | 34.7 | 33.7 |
| C120.0 | 65.8 | 59.6 | 54.8 | 51.2 | 48.1 | 45.8 | 43.7 | 42.3 | 40.6 | 39.1 |
| C150.0 | 231.2 | 203.8 | 178.4 | 153.2 | 129.6 | 110.6 | 91.4 | 77.1 | 64.4 | 55.6 |
| C180.0 | 650.5 | 654.8 | 658.5 | 660.9 | 663.1 | 664.3 | 663.7 | 663.2 | 660.6 | 657.3 |
| C210.0 | 540.6 | 535.5 | 527.4 | 517.1 | 503.1 | 487.2 | 468.2 | 445.7 | 420.4 | 391.3 |
| C240.0 | 240.0 | 212.7 | 187.6 | 163.1 | 140.2 | 118.8 | 100.8 | 86.4 | 74.1 | 64.7 |
| C270.0 | 124.9 | 108.1 | 95.5 | 77.4 | 71.9 | 68.1 | 61.1 | 56.8 | 54.1 | 51.8 |
| C300.0 | 149.4 | 125.7 | 105.5 | 89.5 | 76.9 | 67.4 | 59.4 | 54.8 | 51.1 | 48.2 |
| C330.0 | 495.4 | 474.8 | 449.6 | 421.6 | 393.6 | 361.9 | 329.8 | 294.6 | 261.1 | 226.6 |
| C360.0 | 716.7 | 718.5 | 720.0 | 720.3 | 718.9 | 717.3 | 711.7 | 702.8 | 689.8 | 669.7 |
| | | | | | | | | | | |
| C\G | G70.0 | G71.0 | G72.0 | G73.0 | G74.0 | G75.0 | G76.0 | G77.0 | G78.0 | G79.0 |
| C0.0 | 645.9 | 613.4 | 575.4 | 525.6 | 468.7 | 406.6 | 330.8 | 254.1 | 180.2 | 127.6 |
| C30.0 | 45.1 | 39.9 | 36.3 | 33.7 | 30.9 | 29.4 | 28.1 | 26.5 | 25.2 | 24.2 |
| C60.0 | 34.9 | 33.0 | 31.6 | 30.3 | 29.3 | 27.4 | 25.6 | 23.8 | 22.6 | 21.8 |
| C90.0 | 32.1 | 31.0 | 29.9 | 28.2 | 26.5 | 23.7 | 20.8 | 18.6 | 17.9 | 16.5 |
| C120.0 | 37.4 | 36.4 | 34.7 | 33.5 | 32.1 | 30.4 | 29.6 | 27.4 | 26.6 | 25.1 |
| C150.0 | 47.1 | 42.5 | 38.0 | 35.6 | 33.0 | 30.5 | 29.6 | 27.7 | 26.8 | 25.1 |
| C180.0 | 651.9 | 643.1 | 628.1 | 608.7 | 581.8 | 546.8 | 500.0 | 448.0 | 385.7 | 319.9 |
| C210.0 | 360.0 | 326.0 | 292.4 | 259.4 | 226.0 | 194.5 | 165.8 | 140.5 | 117.9 | 97.5 |
| C240.0 | 57.8 | 52.2 | 48.3 | 45.8 | 42.9 | 40.9 | 38.7 | 36.9 | 34.5 | 32.6 |
| C270.0 | 49.5 | 47.2 | 45.9 | 44.2 | 41.9 | 39.4 | 37.4 | 35.1 | 32.3 | 29.7 |
| C300.0 | 45.8 | 43.7 | 41.5 | 38.9 | 37.2 | 35.1 | 30.9 | 25.1 | 30.0 | 26.1 |
| C330.0 | 194.2 | 161.5 | 132.7 | 108.3 | 86.2 | 68.9 | 55.9 | 46.9 | 40.2 | 35.9 |
| C360.0 | 645.9 | 613.4 | 575.4 | 525.6 | 468.7 | 406.6 | 330.8 | 254.1 | 180.2 | 127.6 |
| | | | | | | | | | | |
| C\G | G80.0 | G81.0 | G82.0 | G83.0 | G84.0 | G85.0 | G86.0 | G87.0 | G88.0 | G89.0 |
| C0.0 | 87.2 | 62.1 | 44.1 | 34.1 | 27.5 | 21.6 | 18.1 | 15.6 | 13.2 | 12.0 |
| C30.0 | 22.7 | 21.2 | 18.8 | 17.1 | 14.2 | 12.8 | 10.9 | 9.8 | 7.6 | 5.5 |
| C60.0 | 20.8 | 18.4 | 16.6 | 15.7 | 13.0 | 11.3 | 9.6 | 8.5 | 7.2 | 5.4 |
| C90.0 | 16.1 | 15.0 | 13.4 | 12.2 | 10.2 | 8.1 | 3.9 | 2.3 | 1.5 | 1.6 |
| C120.0 | 23.8 | 22.1 | 20.0 | 18.0 | 15.3 | 13.7 | 11.9 | 10.5 | 8.9 | 7.6 |
| C150.0 | 24.0 | 23.3 | 26.1 | 17.9 | 16.3 | 16.4 | 16.6 | 14.8 | 12.8 | 10.9 |
| C180.0 | 248.9 | 183.6 | 123.2 | 85.3 | 61.2 | 44.3 | 33.6 | 25.9 | 20.4 | 17.4 |
| C210.0 | 80.1 | 65.6 | 54.7 | 46.0 | 39.0 | 34.7 | 30.9 | 28.0 | 25.6 | 22.7 |
| C240.0 | 29.9 | 27.9 | 25.6 | 23.7 | 22.5 | 20.7 | 18.6 | 17.1 | 15.5 | 12.8 |
| C270.0 | 25.9 | 21.0 | 17.4 | 15.7 | 13.3 | 11.5 | 9.2 | 5.5 | 3.6 | 2.3 |
| C300.0 | 23.4 | 21.6 | 19.4 | 18.1 | 16.3 | 13.7 | 10.8 | 8.8 | 7.4 | 5.7 |
| C330.0 | 33.3 | 31.2 | 29.0 | 27.4 | 25.5 | 23.2 | 20.5 | 17.7 | 15.1 | 13.1 |
| C360.0 | 87.2 | 62.1 | 44.1 | 34.1 | 27.5 | 21.6 | 18.1 | 15.6 | 13.2 | 12.0 |

Light intensity data Unit[cd]

| C\G | G90.0 | | | | | | | | | |
|---------------|-------|--|--|--|--|--|--|--|--|--|
| C0.0 | 10.8 | | | | | | | | | |
| C30.0 | 4.3 | | | | | | | | | |
| C60.0 | 3.6 | | | | | | | | | |
| C90.0 | 1.6 | | | | | | | | | |
| C120.0 | 6.6 | | | | | | | | | |
| C150.0 | 11.5 | | | | | | | | | |
| C180.0 | 9.3 | | | | | | | | | |
| C210.0 | 20.0 | | | | | | | | | |
| C240.0 | 11.9 | | | | | | | | | |
| C270.0 | 1.0 | | | | | | | | | |
| C300.0 | 5.8 | | | | | | | | | |
| C330.0 | 11.3 | | | | | | | | | |
| C360.0 | 10.8 | | | | | | | | | |

Zonal Luminous Flux Data

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Flux [lm] | Zonal Flux [%] | Sum Flux [%] |
|--------------|---------------------------|--------------------|------------------|-------------------|-----------------|
| 0.0 | 674.92 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.0-1.0 | 671.77 | 0.64 | 0.64 | 0.03 | 0.03 |
| 1.0-2.0 | 671.33 | 1.93 | 2.57 | 0.10 | 0.13 |
| 2.0-3.0 | 671.03 | 3.21 | 5.78 | 0.16 | 0.29 |
| 3.0-4.0 | 670.05 | 4.49 | 10.27 | 0.23 | 0.52 |
| 4.0-5.0 | 668.88 | 5.76 | 16.03 | 0.29 | 0.81 |
| 5.0-6.0 | 668.52 | 7.03 | 23.06 | 0.36 | 1.17 |
| 6.0-7.0 | 666.10 | 8.28 | 31.34 | 0.42 | 1.59 |
| 7.0-8.0 | 664.55 | 9.52 | 40.87 | 0.48 | 2.07 |
| 8.0-9.0 | 662.60 | 10.76 | 51.62 | 0.54 | 2.62 |
| 9.0-10.0 | 660.59 | 11.97 | 63.60 | 0.61 | 3.22 |
| 10.0-11.0 | 658.42 | 13.18 | 76.78 | 0.67 | 3.89 |
| 11.0-12.0 | 656.18 | 14.37 | 91.15 | 0.73 | 4.62 |
| 12.0-13.0 | 653.53 | 15.54 | 106.69 | 0.79 | 5.41 |
| 13.0-14.0 | 650.86 | 16.70 | 123.39 | 0.85 | 6.25 |
| 14.0-15.0 | 648.22 | 17.83 | 141.22 | 0.90 | 7.16 |
| 15.0-16.0 | 645.15 | 18.95 | 160.17 | 0.96 | 8.12 |
| 16.0-17.0 | 642.15 | 20.05 | 180.22 | 1.02 | 9.13 |
| 17.0-18.0 | 639.14 | 21.13 | 201.34 | 1.07 | 10.20 |
| 18.0-19.0 | 636.03 | 22.19 | 223.53 | 1.12 | 11.33 |
| 19.0-20.0 | 632.69 | 23.22 | 246.75 | 1.18 | 12.50 |
| 20.0-21.0 | 629.08 | 24.23 | 270.98 | 1.23 | 13.73 |
| 21.0-22.0 | 625.84 | 25.22 | 296.20 | 1.28 | 15.01 |
| 22.0-23.0 | 621.79 | 26.18 | 322.38 | 1.33 | 16.33 |
| 23.0-24.0 | 618.12 | 27.11 | 349.49 | 1.37 | 17.71 |
| 24.0-25.0 | 614.16 | 28.02 | 377.50 | 1.42 | 19.13 |
| 25.0-26.0 | 610.19 | 28.90 | 406.41 | 1.46 | 20.59 |
| 26.0-27.0 | 606.39 | 29.76 | 436.17 | 1.51 | 22.10 |
| 27.0-28.0 | 602.40 | 30.60 | 466.77 | 1.55 | 23.65 |
| 28.0-29.0 | 597.75 | 31.40 | 498.17 | 1.59 | 25.24 |
| 29.0-30.0 | 592.91 | 32.15 | 530.32 | 1.63 | 26.87 |
| 30.0-31.0 | 587.82 | 32.86 | 563.18 | 1.66 | 28.53 |
| 31.0-32.0 | 582.77 | 33.54 | 596.71 | 1.70 | 30.23 |
| 32.0-33.0 | 577.50 | 34.18 | 630.90 | 1.73 | 31.97 |
| 33.0-34.0 | 572.10 | 34.79 | 665.69 | 1.76 | 33.73 |
| 34.0-35.0 | 566.40 | 35.36 | 701.04 | 1.79 | 35.52 |
| 35.0-36.0 | 559.67 | 35.85 | 736.90 | 1.82 | 37.34 |
| 36.0-37.0 | 552.86 | 36.28 | 773.18 | 1.84 | 39.17 |
| 37.0-38.0 | 546.18 | 36.68 | 809.87 | 1.86 | 41.03 |
| 38.0-39.0 | 538.46 | 37.02 | 846.89 | 1.88 | 42.91 |
| 39.0-40.0 | 531.32 | 37.31 | 884.20 | 1.89 | 44.80 |

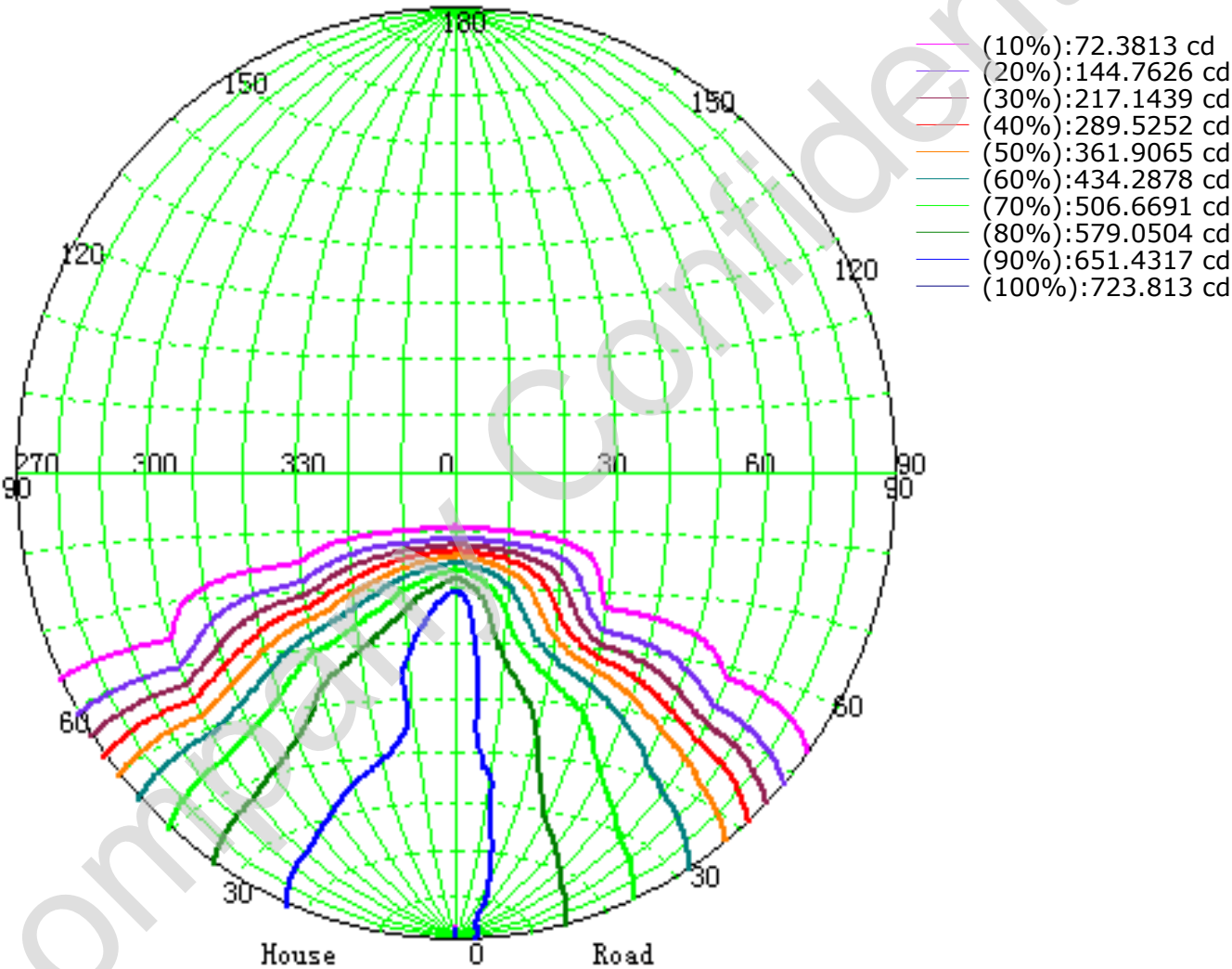
Zonal Luminous Flux Data

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Flux [lm] | Zonal Flux [%] | Sum Flux [%] |
|--------------|---------------------------|--------------------|------------------|-------------------|-----------------|
| 40.0-41.0 | 523.57 | 37.56 | 921.76 | 1.90 | 46.70 |
| 41.0-42.0 | 515.42 | 37.75 | 959.51 | 1.91 | 48.61 |
| 42.0-43.0 | 507.66 | 37.90 | 997.41 | 1.92 | 50.53 |
| 43.0-44.0 | 499.30 | 38.01 | 1035.42 | 1.93 | 52.46 |
| 44.0-45.0 | 489.53 | 38.00 | 1073.42 | 1.93 | 54.39 |
| 45.0-46.0 | 479.72 | 37.91 | 1111.32 | 1.92 | 56.31 |
| 46.0-47.0 | 469.26 | 37.74 | 1149.07 | 1.91 | 58.22 |
| 47.0-48.0 | 456.91 | 37.44 | 1186.51 | 1.90 | 60.12 |
| 48.0-49.0 | 447.04 | 37.12 | 1223.63 | 1.88 | 62.00 |
| 49.0-50.0 | 433.36 | 36.71 | 1260.33 | 1.86 | 63.86 |
| 50.0-51.0 | 420.84 | 36.14 | 1296.47 | 1.83 | 65.69 |
| 51.0-52.0 | 407.89 | 35.56 | 1332.04 | 1.80 | 67.49 |
| 52.0-53.0 | 394.58 | 34.91 | 1366.94 | 1.77 | 69.26 |
| 53.0-54.0 | 380.67 | 34.17 | 1401.11 | 1.73 | 70.99 |
| 54.0-55.0 | 366.59 | 33.36 | 1434.47 | 1.69 | 72.68 |
| 55.0-56.0 | 352.37 | 32.49 | 1466.96 | 1.65 | 74.33 |
| 56.0-57.0 | 338.18 | 31.57 | 1498.53 | 1.60 | 75.92 |
| 57.0-58.0 | 324.15 | 30.63 | 1529.16 | 1.55 | 77.48 |
| 58.0-59.0 | 310.02 | 29.65 | 1558.81 | 1.50 | 78.98 |
| 59.0-60.0 | 296.57 | 28.66 | 1587.46 | 1.45 | 80.43 |
| 60.0-61.0 | 283.15 | 27.67 | 1615.13 | 1.40 | 81.83 |
| 61.0-62.0 | 270.58 | 26.68 | 1641.81 | 1.35 | 83.18 |
| 62.0-63.0 | 257.63 | 25.69 | 1667.50 | 1.30 | 84.49 |
| 63.0-64.0 | 246.30 | 24.73 | 1692.23 | 1.25 | 85.74 |
| 64.0-65.0 | 235.64 | 23.85 | 1716.08 | 1.21 | 86.95 |
| 65.0-66.0 | 224.58 | 22.96 | 1739.04 | 1.16 | 88.11 |
| 66.0-67.0 | 214.29 | 22.07 | 1761.11 | 1.12 | 89.23 |
| 67.0-68.0 | 204.19 | 21.20 | 1782.31 | 1.07 | 90.30 |
| 68.0-69.0 | 193.82 | 20.30 | 1802.61 | 1.03 | 91.33 |
| 69.0-70.0 | 183.48 | 19.38 | 1821.99 | 0.98 | 92.31 |
| 70.0-71.0 | 172.51 | 18.40 | 1840.39 | 0.93 | 93.25 |
| 71.0-72.0 | 161.24 | 17.35 | 1857.74 | 0.88 | 94.12 |
| 72.0-73.0 | 149.35 | 16.24 | 1873.98 | 0.82 | 94.95 |
| 73.0-74.0 | 136.37 | 15.02 | 1889.01 | 0.76 | 95.71 |
| 74.0-75.0 | 122.79 | 13.69 | 1902.70 | 0.69 | 96.40 |
| 75.0-76.0 | 107.77 | 12.24 | 1914.94 | 0.62 | 97.02 |
| 76.0-77.0 | 92.54 | 10.68 | 1925.62 | 0.54 | 97.56 |
| 77.0-78.0 | 78.31 | 9.15 | 1934.76 | 0.46 | 98.03 |
| 78.0-79.0 | 65.16 | 7.71 | 1942.47 | 0.39 | 98.42 |
| 79.0-80.0 | 53.00 | 6.37 | 1948.84 | 0.32 | 98.74 |
| 80.0-81.0 | 42.74 | 5.18 | 1954.02 | 0.26 | 99.00 |

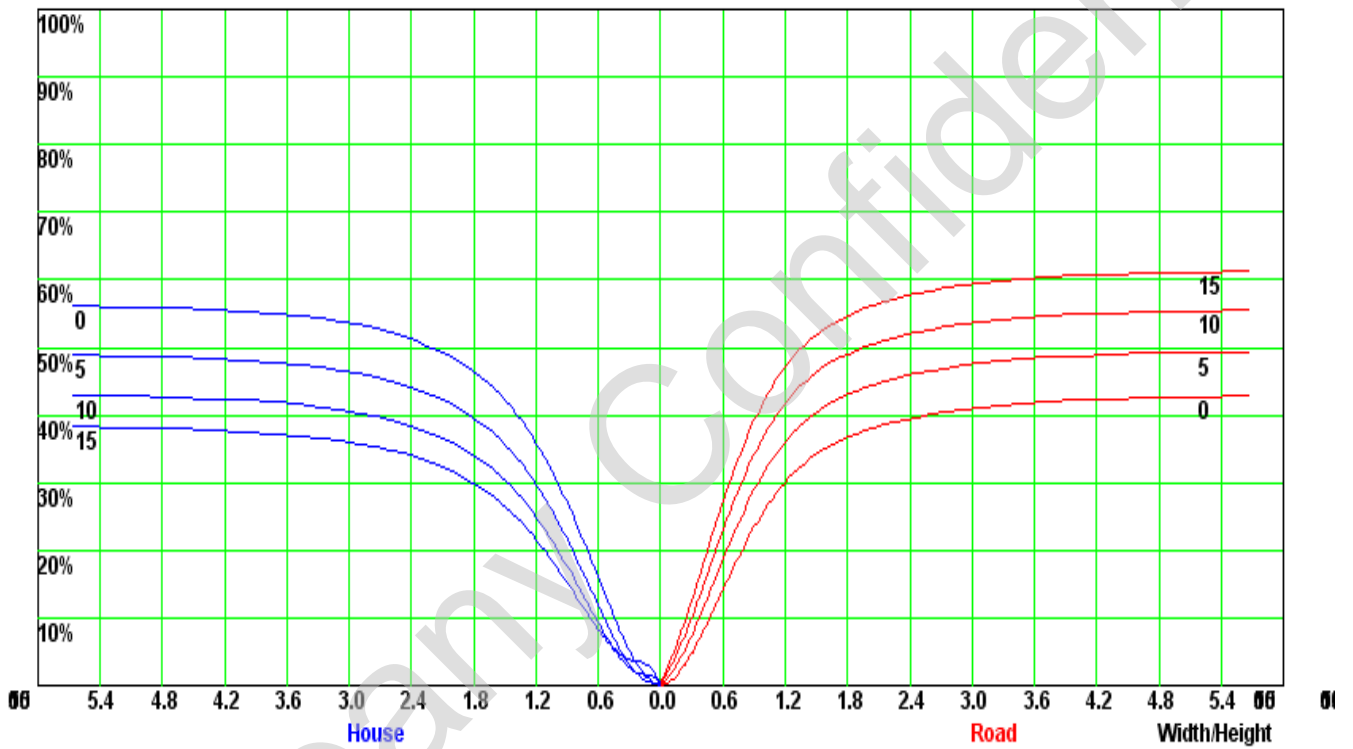
Zonal Luminous Flux Data

| Gamma [°] | I _{mean} [cd] | Zonal Flux [lm] | Sum Flux [lm] | Zonal Flux [%] | Sum Flux [%] |
|-----------|------------------------|-----------------|---------------|----------------|--------------|
| 81.0-82.0 | 34.03 | 4.16 | 1958.18 | 0.21 | 99.21 |
| 82.0-83.0 | 27.58 | 3.35 | 1961.53 | 0.17 | 99.38 |
| 83.0-84.0 | 22.86 | 2.75 | 1964.28 | 0.14 | 99.52 |
| 84.0-85.0 | 19.34 | 2.30 | 1966.58 | 0.12 | 99.64 |
| 85.0-86.0 | 16.21 | 1.94 | 1968.53 | 0.10 | 99.74 |
| 86.0-87.0 | 13.69 | 1.64 | 1970.16 | 0.08 | 99.82 |
| 87.0-88.0 | 11.56 | 1.38 | 1971.55 | 0.07 | 99.89 |
| 88.0-89.0 | 9.76 | 1.17 | 1972.72 | 0.06 | 99.95 |
| 89.0-90.0 | 8.15 | 0.98 | 1973.70 | 0.05 | 100.00 |
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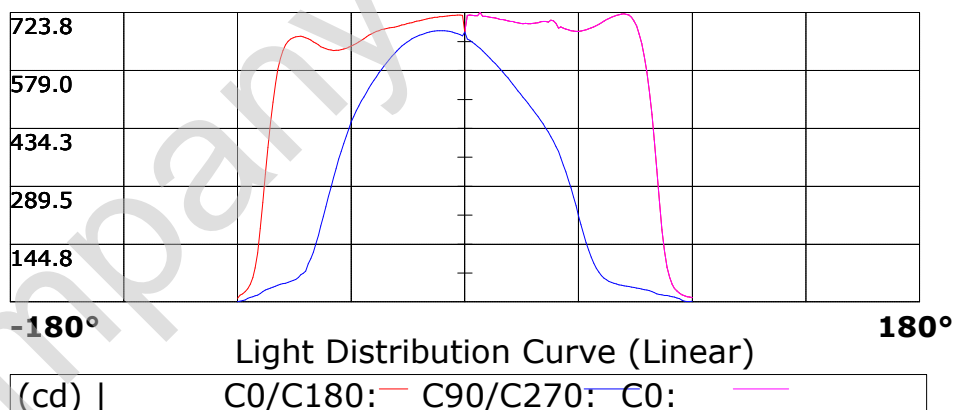
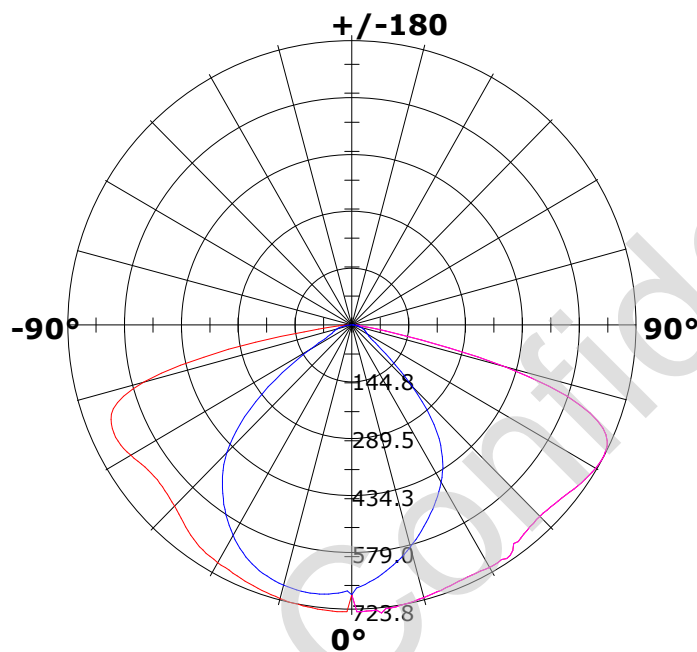
Iso-Candela [cd]

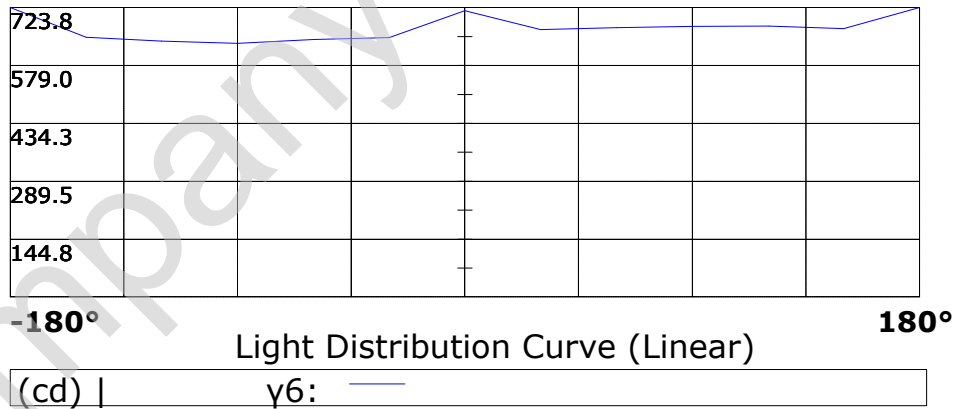
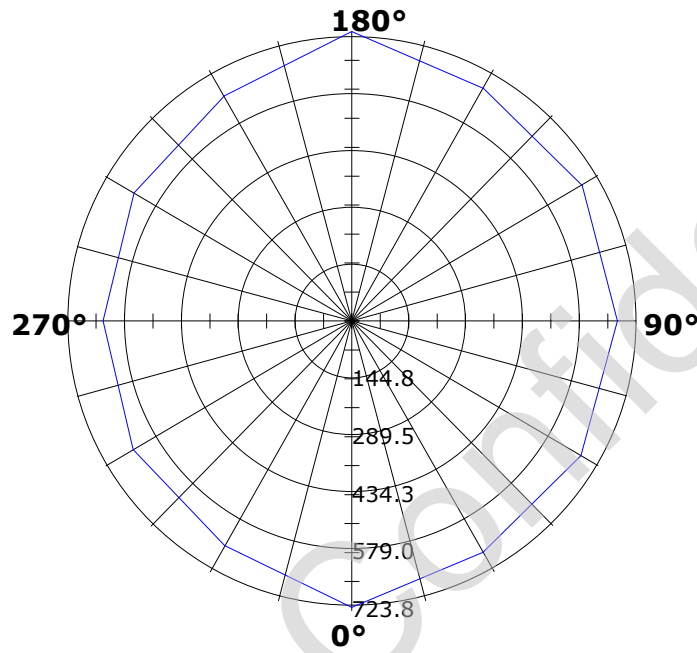


Coefficient Utilization Curve

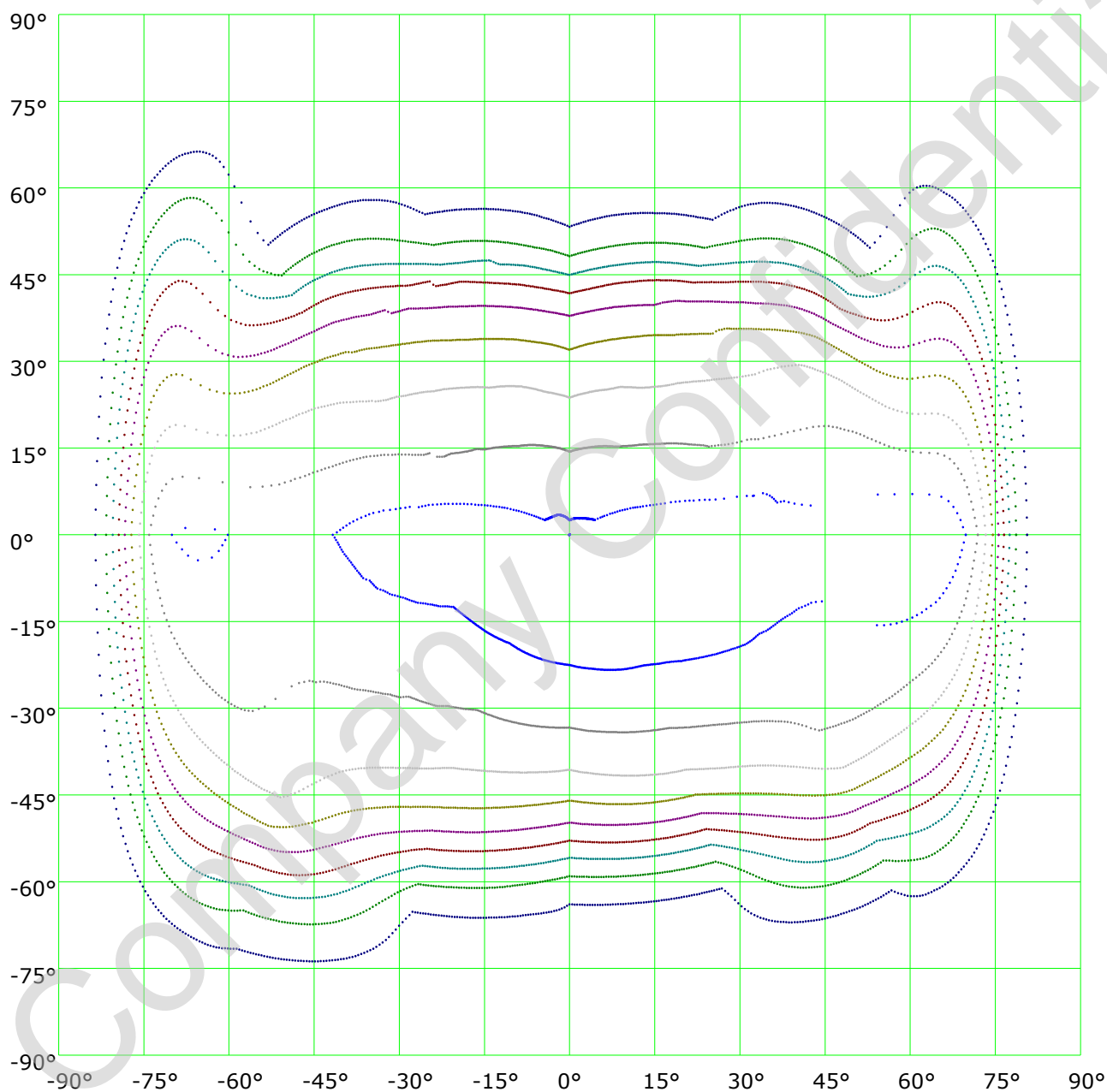


Light Distribution Curve [Unit: cd]



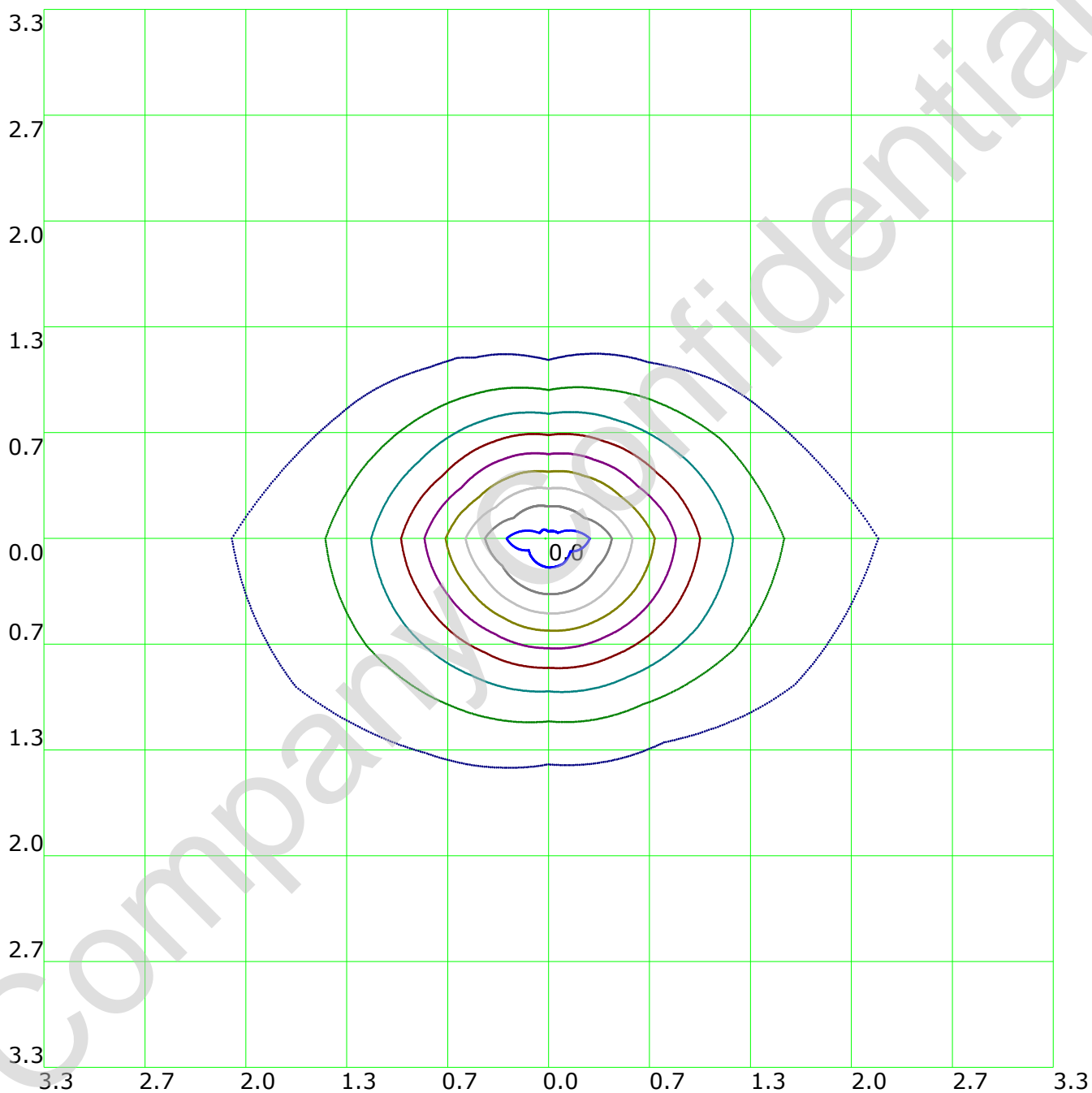


Isocandela(rectangle)



| | | | |
|------------------|-------------------|------------------|------------------|
| — (10%): 72.4cd | — (20%): 144.8cd | — (30%): 217.1cd | — (40%): 289.5cd |
| — (50%): 361.9cd | — (60%): 434.3cd | — (70%): 506.7cd | — (80%): 579.1cd |
| — (90%): 651.4cd | — (100%): 723.8cd | | |

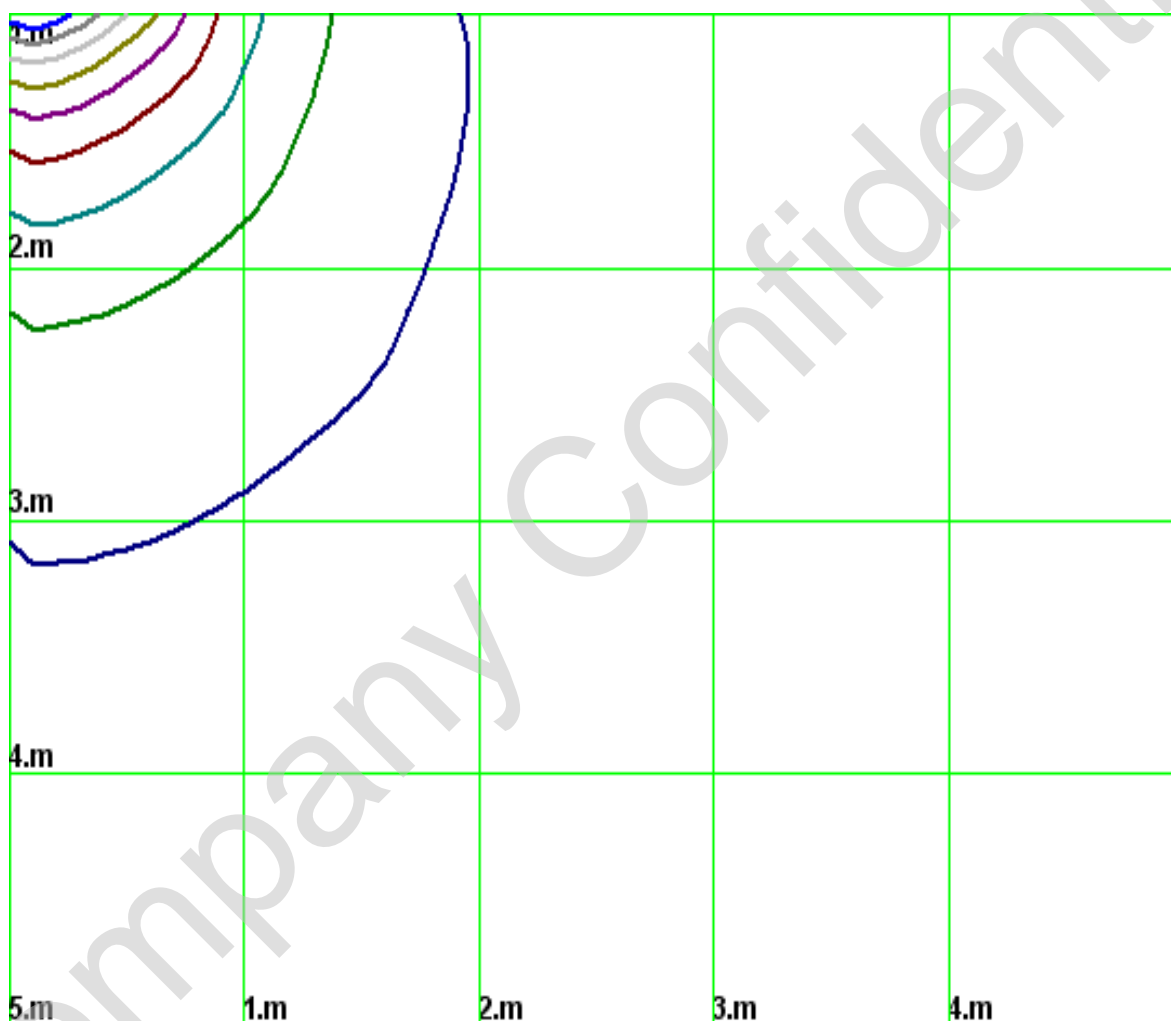
Isolx curve



Height: 1 m

- | | | | |
|------------------|-------------------|------------------|------------------|
| — (10%): 72.4lx | — (20%): 144.8lx | — (30%): 217.1lx | — (40%): 289.5lx |
| — (50%): 361.9lx | — (60%): 434.3lx | — (70%): 506.7lx | — (80%): 579.1lx |
| — (90%): 651.4lx | — (100%): 723.1lx | | |

Space Isolx Curve



| | | | |
|------------------|-------------------|------------------|------------------|
| — (10%): 72.4lx | — (20%): 144.8lx | — (30%): 217.1lx | — (40%): 289.5lx |
| — (50%): 361.9lx | — (60%): 434.3lx | — (70%): 506.7lx | — (80%): 579.1lx |
| — (90%): 651.4lx | — (100%): 723.1lx | | |

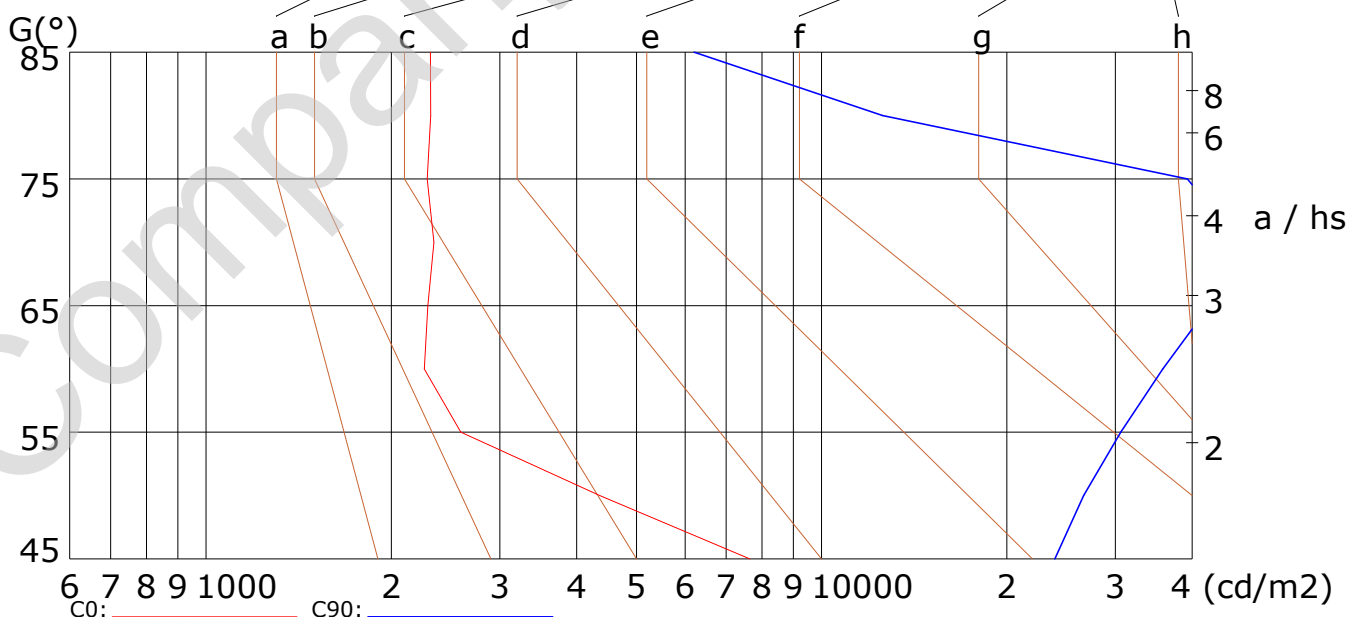
Luminance Limiting Curve

Diameter: 0mm
 Length: 0mm
 Width: 0mm
 Height: 0mm

(cd/m²)

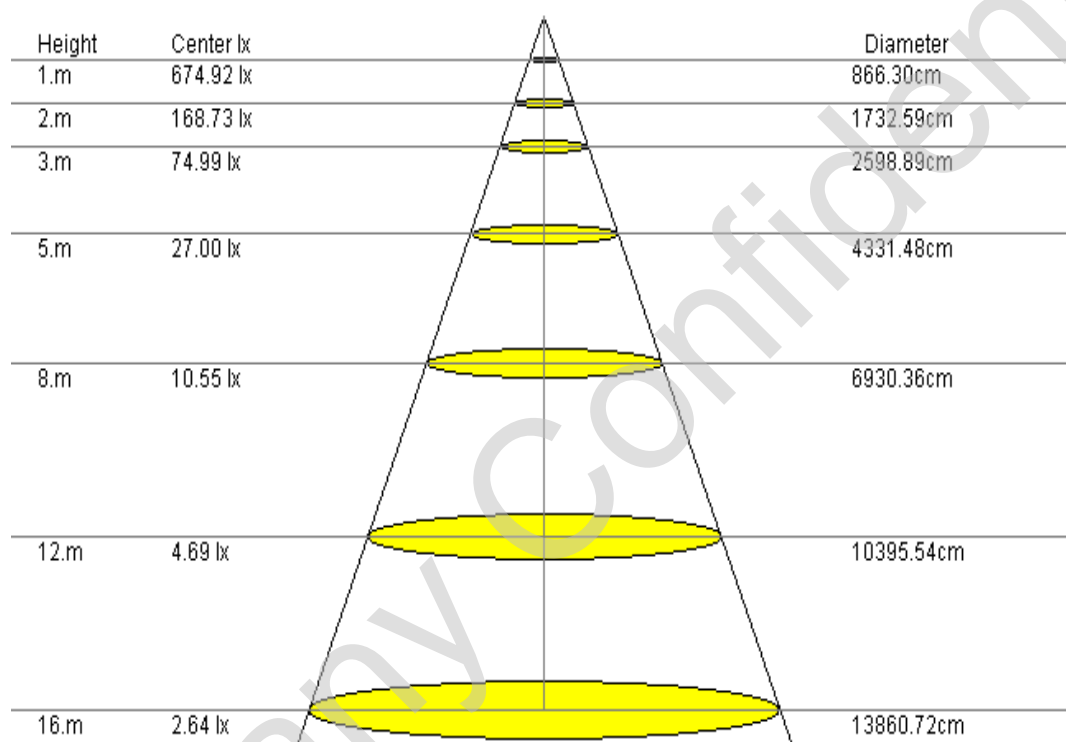
| | | | | | | | | | |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| γ | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° |
| C0 | 7646 | 4362 | 2594 | 2263 | 2292 | 2344 | 2286 | 2316 | 2314 |
| C90 | 23927 | 26650 | 30616 | 35833 | 42434 | 47216 | 39276 | 12559 | 6207 |

| 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

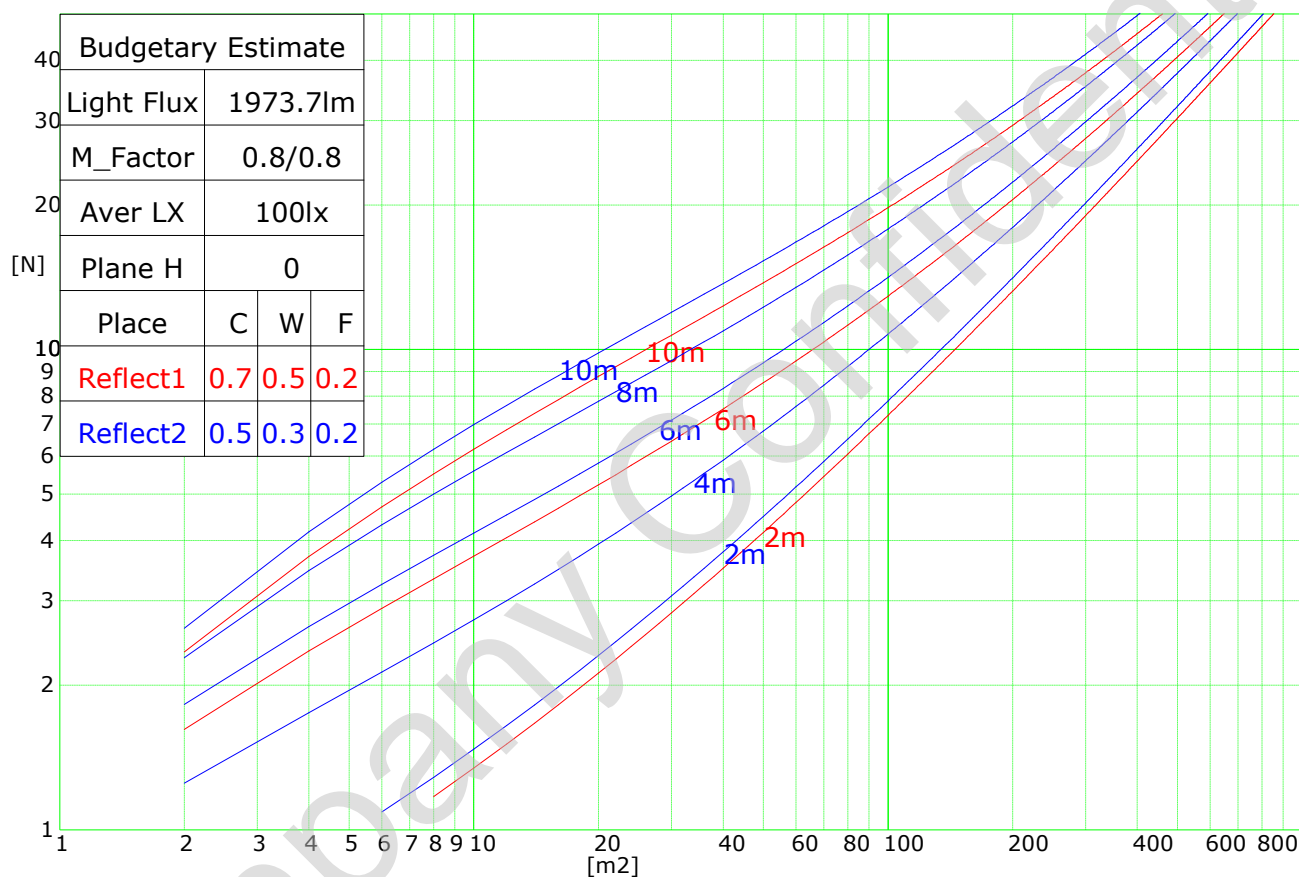


Beam Angle: 154.00°(50%Imax)

Coefficients of Utilization

| RHOCC | 80 | | | 70 | | | 50 | | | 30 | | | 10 | | | 0 |
|-------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RHOW | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RRCR | 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 | 1.05 | 1.03 | 1.02 | 1.04 | 1.02 | 1.00 | 1.00 | 0.98 | 0.96 | 0.95 | 0.93 | 0.91 | 0.89 | 0.86 | 0.84 | 0.79 |
| 2 | 0.89 | 0.87 | 0.85 | 0.89 | 0.85 | 0.83 | 0.86 | 0.83 | 0.80 | 0.83 | 0.79 | 0.76 | 0.78 | 0.74 | 0.71 | 0.66 |
| 3 | 0.76 | 0.73 | 0.71 | 0.76 | 0.73 | 0.70 | 0.75 | 0.71 | 0.67 | 0.73 | 0.68 | 0.64 | 0.70 | 0.64 | 0.60 | 0.55 |
| 4 | 0.66 | 0.63 | 0.61 | 0.66 | 0.62 | 0.60 | 0.66 | 0.61 | 0.57 | 0.64 | 0.59 | 0.54 | 0.62 | 0.56 | 0.51 | 0.47 |
| 5 | 0.57 | 0.54 | 0.52 | 0.58 | 0.54 | 0.51 | 0.58 | 0.53 | 0.49 | 0.58 | 0.52 | 0.47 | 0.56 | 0.50 | 0.45 | 0.41 |
| 6 | 0.50 | 0.48 | 0.46 | 0.51 | 0.47 | 0.45 | 0.52 | 0.47 | 0.43 | 0.52 | 0.46 | 0.41 | 0.51 | 0.44 | 0.39 | 0.36 |
| 7 | 0.45 | 0.42 | 0.40 | 0.46 | 0.42 | 0.40 | 0.47 | 0.42 | 0.38 | 0.47 | 0.41 | 0.36 | 0.47 | 0.40 | 0.35 | 0.31 |
| 8 | 0.40 | 0.38 | 0.36 | 0.41 | 0.38 | 0.35 | 0.42 | 0.37 | 0.34 | 0.43 | 0.37 | 0.33 | 0.43 | 0.36 | 0.31 | 0.28 |
| 9 | 0.36 | 0.34 | 0.32 | 0.37 | 0.34 | 0.32 | 0.39 | 0.34 | 0.31 | 0.39 | 0.33 | 0.29 | 0.40 | 0.33 | 0.28 | 0.25 |
| 10 | 0.33 | 0.31 | 0.29 | 0.34 | 0.31 | 0.29 | 0.35 | 0.31 | 0.28 | 0.36 | 0.31 | 0.27 | 0.37 | 0.30 | 0.25 | 0.23 |

Indoor Budgetary Estimate Chart



UGR Glare Index

| Ceiling | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
|-----------|---|------|------|------|------|--|------|------|------|------|------|
| Wall | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Floor | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| Room Size | Left to light axis direction of observation | | | | | Direction of light axis parallel observation | | | | | |
| X | Y | | | | | | | | | | |
| 2H | 2H | 16.3 | 17.7 | 16.6 | 17.6 | 18.3 | 16.3 | 17.7 | 16.4 | 17.7 | 18.3 |
| | 3H | 18.1 | 19.3 | 18.5 | 19.8 | 19.9 | 17.9 | 19.3 | 18.2 | 19.8 | 19.9 |
| | 4H | 18.8 | 20.0 | 19.2 | 20.7 | 20.9 | 18.8 | 20.0 | 19.2 | 20.6 | 20.9 |
| | 6H | 19.5 | 20.5 | 19.9 | 21.0 | 21.0 | 19.4 | 20.4 | 19.8 | 21.0 | 21.1 |
| | 8H | 19.7 | 20.9 | 20.0 | 21.1 | 21.4 | 19.7 | 20.8 | 19.9 | 21.1 | 21.4 |
| 4H | 12H | 19.8 | 20.9 | 20.1 | 21.3 | 21.7 | 19.7 | 20.7 | 20.1 | 21.3 | 21.7 |
| | 2H | 17.4 | 18.4 | 17.6 | 18.6 | 18.9 | 17.3 | 18.4 | 17.5 | 18.7 | 18.8 |
| | 3H | 19.3 | 20.4 | 19.6 | 20.4 | 20.8 | 19.2 | 20.2 | 19.5 | 20.4 | 20.8 |
| | 4H | 20.2 | 20.9 | 20.5 | 21.2 | 21.6 | 20.0 | 21.0 | 20.4 | 21.2 | 21.7 |
| | 6H | 20.9 | 21.6 | 21.2 | 21.9 | 22.4 | 20.8 | 21.6 | 21.0 | 21.9 | 22.3 |
| 8H | 8H | 21.0 | 21.8 | 21.5 | 22.2 | 22.6 | 21.1 | 21.7 | 21.4 | 22.2 | 22.5 |
| | 12H | 21.3 | 22.0 | 21.8 | 22.3 | 22.8 | 21.2 | 21.9 | 21.6 | 22.3 | 22.7 |
| | 4H | 20.4 | 21.2 | 20.9 | 21.5 | 22.0 | 20.5 | 21.2 | 20.8 | 21.6 | 22.0 |
| | 6H | 21.3 | 21.9 | 21.9 | 22.4 | 22.8 | 21.3 | 21.9 | 21.8 | 22.4 | 22.8 |
| | 8H | 21.9 | 22.4 | 22.4 | 22.8 | 23.2 | 21.8 | 22.2 | 22.3 | 22.7 | 23.3 |
| 12H | 12H | 22.2 | 22.6 | 22.6 | 23.1 | 23.5 | 21.9 | 22.5 | 22.6 | 23.1 | 23.6 |
| | 4H | 20.6 | 21.3 | 21.1 | 21.7 | 22.0 | 20.5 | 21.1 | 21.0 | 21.6 | 22.0 |
| | 6H | 21.6 | 22.2 | 22.0 | 22.4 | 23.0 | 21.5 | 22.1 | 22.0 | 22.4 | 22.9 |
| | 8H | 22.0 | 22.5 | 22.5 | 22.8 | 23.4 | 21.9 | 22.4 | 22.5 | 22.9 | 23.4 |
| | | | | | | | | | | | |
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