

R852 WWL (CRI90 350mA 70D)

Luminaire Name: R852 WWL (CRI90 350mA 70D)

Report NO.: 01313217052420A

Test NO.:

Lamp: CITIZEN CLU028-1202C4-303H5M3 350mA

Sum Lumens: 1455.4 lm

Number of Lamps: 1

Diameter: 115mm

Length: -115mm

Photometric Type: Type C

Voltage: 230.38 V

Current: 0.0695 A

Power: 15.568 W

Power Factor: 0.9722

Ballast Type: PHILIPS XITANIUM 15W 0.35A 42V I 230V

Width: -115mm

Height: 72mm

Optical Component: 70D Reflector DC(V:36.21V I:0.348A P:12.601W)

Photometric Results

Lumens: 1185.82 lm

Efficiency: 81.48%

Central Intensity: 1026.584cd

Maximum Intensity: 1150.115cd

Beam Angle(10%): Left: -64.8 Right:13.3

Maximum s/h: C0_180: 0.62 C90_270: 0.61

Effective Luminous Flux: 1124.92 lm

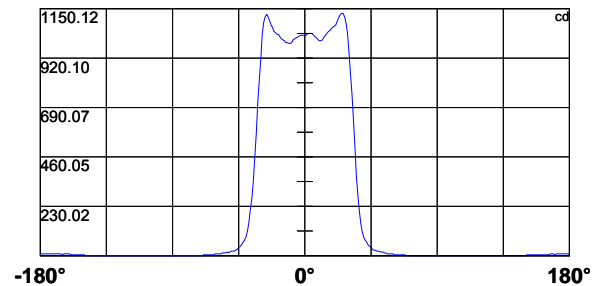
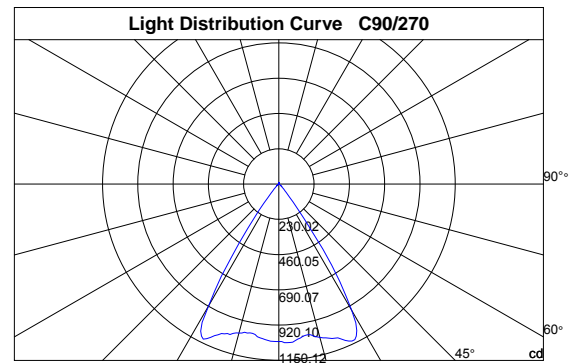
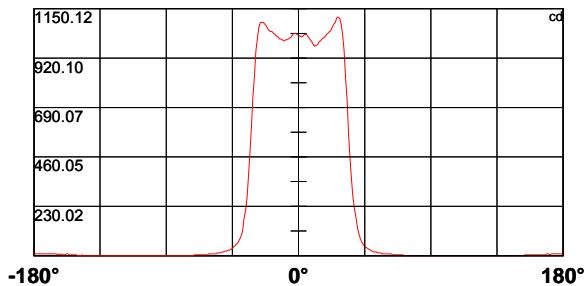
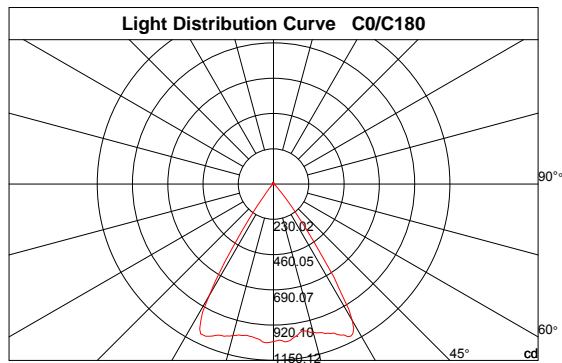
Angle of maximum intensity: C:60.0 G:26.0

Half Peak Side Angle(50%): Left: -58.8 Right:7.7

Up Flux Rate: 0.32%

Down Flux Rate: 81.16%

CIE Classification: Direct



R852 WWL (CRI90 350mA 70D)

Page2

Intensity Data [cd]

| C\γ | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 1026.6 | 1022.3 | 1018.1 | 1022.3 | 1030.8 | 1030.8 | 1026.6 | 1013.8 | 1005.3 | 996.8 |
| 30.0 | 1026.6 | 1022.3 | 1022.3 | 1030.8 | 1039.4 | 1039.4 | 1030.8 | 1022.3 | 1013.8 | 1009.5 |
| 60.0 | 1026.6 | 1022.3 | 1026.6 | 1035.1 | 1035.1 | 1039.4 | 1030.8 | 1026.6 | 1018.1 | 1009.5 |
| 90.0 | 1026.6 | 1026.6 | 1035.1 | 1035.1 | 1035.1 | 1035.1 | 1026.6 | 1018.1 | 1013.8 | 1005.3 |
| 120.0 | 1026.6 | 1030.8 | 1035.1 | 1035.1 | 1026.6 | 1018.1 | 1013.8 | 1009.5 | 1005.3 | 996.8 |
| 150.0 | 1026.6 | 1035.1 | 1035.1 | 1030.8 | 1026.6 | 1018.1 | 1009.5 | 1009.5 | 1001.0 | 996.8 |
| 180.0 | 1026.6 | 1030.8 | 1035.1 | 1035.1 | 1030.8 | 1018.1 | 1013.8 | 1009.5 | 1005.3 | 1005.3 |
| 210.0 | 1026.6 | 1030.8 | 1030.8 | 1039.4 | 1030.8 | 1026.6 | 1022.3 | 1022.3 | 1022.3 | 1013.8 |
| 240.0 | 1026.6 | 1030.8 | 1030.8 | 1035.1 | 1030.8 | 1026.6 | 1018.1 | 1018.1 | 1013.8 | 1009.5 |
| 270.0 | 1026.6 | 1026.6 | 1026.6 | 1026.6 | 1022.3 | 1018.1 | 1013.8 | 1009.5 | 1005.3 | 992.5 |
| 300.0 | 1026.6 | 1018.1 | 1022.3 | 1022.3 | 1026.6 | 1022.3 | 1018.1 | 1009.5 | 996.8 | 988.2 |
| 330.0 | 1026.6 | 1018.1 | 1013.8 | 1022.3 | 1026.6 | 1026.6 | 1018.1 | 1005.3 | 1001.0 | 992.5 |
| 360.0 | 1026.6 | 1022.3 | 1018.1 | 1022.3 | 1030.8 | 1030.8 | 1026.6 | 1013.8 | 1005.3 | 996.8 |

| C\γ | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 984.0 | 975.5 | 979.7 | 984.0 | 996.8 | 1001.0 | 1009.5 | 1013.8 | 1018.1 | 1030.8 |
| 30.0 | 1001.0 | 992.5 | 992.5 | 1009.5 | 1026.6 | 1030.8 | 1035.1 | 1043.6 | 1052.1 | 1060.7 |
| 60.0 | 1001.0 | 1001.0 | 1009.5 | 1022.3 | 1030.8 | 1043.6 | 1047.9 | 1052.1 | 1069.2 | 1073.4 |
| 90.0 | 1001.0 | 1001.0 | 1005.3 | 1018.1 | 1026.6 | 1035.1 | 1043.6 | 1047.9 | 1056.4 | 1064.9 |
| 120.0 | 1001.0 | 1009.5 | 1018.1 | 1022.3 | 1022.3 | 1022.3 | 1018.1 | 1022.3 | 1035.1 | 1035.1 |
| 150.0 | 1001.0 | 1013.8 | 1022.3 | 1022.3 | 1022.3 | 1026.6 | 1030.8 | 1039.4 | 1039.4 | 1043.6 |
| 180.0 | 1001.0 | 1005.3 | 1009.5 | 1009.5 | 1018.1 | 1022.3 | 1030.8 | 1035.1 | 1043.6 | 1043.6 |
| 210.0 | 1005.3 | 1005.3 | 1001.0 | 1005.3 | 1013.8 | 1013.8 | 1026.6 | 1035.1 | 1043.6 | 1047.9 |
| 240.0 | 1001.0 | 996.8 | 1001.0 | 1005.3 | 1009.5 | 1013.8 | 1018.1 | 1026.6 | 1039.4 | 1043.6 |
| 270.0 | 988.2 | 988.2 | 992.5 | 992.5 | 1001.0 | 1005.3 | 1009.5 | 1018.1 | 1030.8 | 1030.8 |
| 300.0 | 979.7 | 971.2 | 966.9 | 975.5 | 979.7 | 992.5 | 1001.0 | 1009.5 | 1009.5 | 1018.1 |
| 330.0 | 984.0 | 971.2 | 962.7 | 966.9 | 975.5 | 984.0 | 988.2 | 996.8 | 1005.3 | 1009.5 |
| 360.0 | 984.0 | 975.5 | 979.7 | 984.0 | 996.8 | 1001.0 | 1009.5 | 1013.8 | 1018.1 | 1030.8 |

| C\γ | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.0 | 1035.1 | 1043.6 | 1047.9 | 1064.9 | 1077.7 | 1086.2 | 1107.5 | 1111.8 | 1103.3 | 1077.7 |
| 30.0 | 1064.9 | 1077.7 | 1090.5 | 1107.5 | 1116.0 | 1128.8 | 1137.3 | 1137.3 | 1120.3 | 1090.5 |
| 60.0 | 1077.7 | 1090.5 | 1111.8 | 1120.3 | 1133.1 | 1145.9 | 1150.1 | 1145.9 | 1111.8 | 1069.2 |
| 90.0 | 1069.2 | 1073.4 | 1090.5 | 1107.5 | 1120.3 | 1128.8 | 1128.8 | 1111.8 | 1082.0 | 1035.1 |
| 120.0 | 1035.1 | 1039.4 | 1056.4 | 1064.9 | 1064.9 | 1060.7 | 1039.4 | 1013.8 | 966.9 | 886.0 |
| 150.0 | 1039.4 | 1047.9 | 1060.7 | 1060.7 | 1060.7 | 1052.1 | 1035.1 | 1001.0 | 958.4 | 898.8 |
| 180.0 | 1047.9 | 1056.4 | 1069.2 | 1077.7 | 1086.2 | 1086.2 | 1086.2 | 1060.7 | 1009.5 | 954.2 |
| 210.0 | 1052.1 | 1069.2 | 1082.0 | 1090.5 | 1103.3 | 1116.0 | 1111.8 | 1090.5 | 1030.8 | 958.4 |
| 240.0 | 1052.1 | 1064.9 | 1082.0 | 1094.7 | 1116.0 | 1137.3 | 1137.3 | 1120.3 | 1077.7 | 1018.1 |
| 270.0 | 1039.4 | 1043.6 | 1060.7 | 1073.4 | 1094.7 | 1111.8 | 1124.6 | 1111.8 | 1086.2 | 1030.8 |
| 300.0 | 1022.3 | 1022.3 | 1022.3 | 1030.8 | 1039.4 | 1047.9 | 1052.1 | 1047.9 | 1035.1 | 1009.5 |
| 330.0 | 1013.8 | 1018.1 | 1026.6 | 1030.8 | 1039.4 | 1043.6 | 1047.9 | 1043.6 | 1035.1 | 1013.8 |
| 360.0 | 1035.1 | 1043.6 | 1047.9 | 1064.9 | 1077.7 | 1086.2 | 1107.5 | 1111.8 | 1103.3 | 1077.7 |

R852 WWL (CRI90 350mA 70D)

Page3

Intensity Data [cd]

| C\γ | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 | 36.0 | 37.0 | 38.0 | 39.0 |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 1026.6 | 954.2 | 817.9 | 724.1 | 562.3 | 451.5 | 357.8 | 272.6 | 217.2 | 178.9 |
| 30.0 | 1009.5 | 924.4 | 813.6 | 677.3 | 558.0 | 451.5 | 323.7 | 251.3 | 204.5 | 153.3 |
| 60.0 | 1009.5 | 903.1 | 796.6 | 681.5 | 523.9 | 413.2 | 311.0 | 230.0 | 187.4 | 123.5 |
| 90.0 | 945.6 | 851.9 | 749.7 | 630.4 | 511.2 | 370.6 | 285.4 | 213.0 | 149.1 | 110.8 |
| 120.0 | 792.3 | 681.5 | 570.8 | 468.6 | 336.5 | 247.1 | 195.9 | 132.1 | 102.2 | 85.2 |
| 150.0 | 796.6 | 694.3 | 592.1 | 464.3 | 357.8 | 242.8 | 195.9 | 149.1 | 110.8 | 89.5 |
| 180.0 | 839.2 | 736.9 | 600.6 | 481.3 | 374.9 | 272.6 | 213.0 | 174.6 | 115.0 | 93.7 |
| 210.0 | 877.5 | 754.0 | 647.5 | 523.9 | 379.1 | 285.4 | 217.2 | 170.4 | 127.8 | 98.0 |
| 240.0 | 894.5 | 792.3 | 681.5 | 545.2 | 434.5 | 319.5 | 247.1 | 191.7 | 144.8 | 106.5 |
| 270.0 | 915.8 | 809.3 | 711.4 | 570.8 | 464.3 | 353.6 | 272.6 | 217.2 | 157.6 | 115.0 |
| 300.0 | 971.2 | 877.5 | 775.3 | 668.8 | 553.8 | 455.8 | 345.0 | 255.6 | 200.2 | 166.1 |
| 330.0 | 979.7 | 890.3 | 792.3 | 694.3 | 536.7 | 438.7 | 345.0 | 264.1 | 213.0 | 174.6 |
| 360.0 | 1026.6 | 954.2 | 817.9 | 724.1 | 562.3 | 451.5 | 357.8 | 272.6 | 217.2 | 178.9 |

| C\γ | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 |
|-------|-------|-------|------|------|------|------|------|------|------|------|
| 0.0 | 132.1 | 102.2 | 80.9 | 63.9 | 51.1 | 42.6 | 38.3 | 34.1 | 29.8 | 25.6 |
| 30.0 | 123.5 | 93.7 | 76.7 | 59.6 | 51.1 | 42.6 | 34.1 | 29.8 | 25.6 | 25.6 |
| 60.0 | 98.0 | 80.9 | 63.9 | 55.4 | 46.9 | 38.3 | 34.1 | 29.8 | 25.6 | 21.3 |
| 90.0 | 85.2 | 72.4 | 63.9 | 51.1 | 42.6 | 38.3 | 29.8 | 25.6 | 25.6 | 21.3 |
| 120.0 | 72.4 | 63.9 | 51.1 | 42.6 | 38.3 | 34.1 | 29.8 | 25.6 | 25.6 | 21.3 |
| 150.0 | 76.7 | 63.9 | 55.4 | 46.9 | 38.3 | 34.1 | 29.8 | 25.6 | 25.6 | 25.6 |
| 180.0 | 76.7 | 63.9 | 55.4 | 46.9 | 42.6 | 34.1 | 29.8 | 25.6 | 25.6 | 21.3 |
| 210.0 | 76.7 | 68.2 | 59.6 | 46.9 | 42.6 | 34.1 | 29.8 | 29.8 | 25.6 | 21.3 |
| 240.0 | 85.2 | 72.4 | 59.6 | 51.1 | 42.6 | 34.1 | 29.8 | 29.8 | 25.6 | 21.3 |
| 270.0 | 89.5 | 72.4 | 63.9 | 51.1 | 42.6 | 38.3 | 29.8 | 25.6 | 21.3 | 21.3 |
| 300.0 | 119.3 | 89.5 | 68.2 | 59.6 | 51.1 | 42.6 | 38.3 | 29.8 | 25.6 | 25.6 |
| 330.0 | 127.8 | 102.2 | 72.4 | 63.9 | 51.1 | 42.6 | 38.3 | 29.8 | 25.6 | 25.6 |
| 360.0 | 132.1 | 102.2 | 80.9 | 63.9 | 51.1 | 42.6 | 38.3 | 34.1 | 29.8 | 25.6 |

| C\γ | 50.0 | 51.0 | 52.0 | 53.0 | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0.0 | 21.3 | 17.0 | 17.0 | 17.0 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 | 8.5 |
| 30.0 | 21.3 | 21.3 | 17.0 | 17.0 | 12.8 | 12.8 | 8.5 | 12.8 | 8.5 | 8.5 |
| 60.0 | 21.3 | 17.0 | 17.0 | 12.8 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 | 8.5 |
| 90.0 | 21.3 | 17.0 | 17.0 | 17.0 | 12.8 | 12.8 | 8.5 | 8.5 | 8.5 | 8.5 |
| 120.0 | 21.3 | 17.0 | 17.0 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 | 8.5 | 8.5 |
| 150.0 | 21.3 | 17.0 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 | 8.5 |
| 180.0 | 21.3 | 17.0 | 17.0 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 | 8.5 | 8.5 |
| 210.0 | 21.3 | 17.0 | 17.0 | 12.8 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 | 8.5 |
| 240.0 | 21.3 | 17.0 | 17.0 | 17.0 | 12.8 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 |
| 270.0 | 21.3 | 17.0 | 12.8 | 17.0 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 | 8.5 |
| 300.0 | 21.3 | 17.0 | 17.0 | 17.0 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 | 8.5 |
| 330.0 | 21.3 | 17.0 | 17.0 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 |
| 360.0 | 21.3 | 17.0 | 17.0 | 17.0 | 12.8 | 12.8 | 12.8 | 8.5 | 8.5 | 8.5 |

R852 WWL (CRI90 350mA 70D)

Intensity Data [cd]

Page4

| C\γ | 60.0 | 61.0 | 62.0 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0.0 | 8.5 | 8.5 | 8.5 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 30.0 | 8.5 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 60.0 | 8.5 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 90.0 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 0.0 |
| 120.0 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 150.0 | 8.5 | 4.3 | 8.5 | 4.3 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 180.0 | 8.5 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 210.0 | 8.5 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 240.0 | 8.5 | 8.5 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 270.0 | 8.5 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 300.0 | 8.5 | 8.5 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 0.0 | 4.3 | 4.3 |
| 330.0 | 8.5 | 8.5 | 8.5 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 360.0 | 8.5 | 8.5 | 8.5 | 8.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |

| C\γ | 70.0 | 71.0 | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0.0 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30.0 | 4.3 | 0.0 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120.0 | 4.3 | 4.3 | 0.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150.0 | 4.3 | 4.3 | 0.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 210.0 | 4.3 | 4.3 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 240.0 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 270.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 300.0 | 4.3 | 4.3 | 0.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 330.0 | 4.3 | 4.3 | 0.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 360.0 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| C\γ | 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 |
| 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 210.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 240.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 270.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 300.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 330.0 | 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 |

R852 WWL (CRI90 350mA 70D)

Intensity Data [cd]

Page5

| C\γ | 90.0 | 91.0 | 92.0 | 93.0 | 94.0 | 95.0 | 96.0 | 97.0 | 98.0 | 99.0 |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 210.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 240.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 270.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 300.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 330.0 | 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\γ | 100.0 | 101.0 | 102.0 | 103.0 | 104.0 | 105.0 | 106.0 | 107.0 | 108.0 | 109.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 210.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 240.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 270.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 300.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 330.0 | 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\γ | 110.0 | 111.0 | 112.0 | 113.0 | 114.0 | 115.0 | 116.0 | 117.0 | 118.0 | 119.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 210.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 240.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 270.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 300.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 330.0 | 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 |

R852 WWL (CRI90 350mA 70D)**Intensity Data [cd]****Page6**

| C\γ | 120.0 | 121.0 | 122.0 | 123.0 | 124.0 | 125.0 | 126.0 | 127.0 | 128.0 | 129.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 210.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 240.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 270.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 300.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 330.0 | 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\γ | 130.0 | 131.0 | 132.0 | 133.0 | 134.0 | 135.0 | 136.0 | 137.0 | 138.0 | 139.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 210.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 240.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 270.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 300.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 330.0 | 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\γ | 140.0 | 141.0 | 142.0 | 143.0 | 144.0 | 145.0 | 146.0 | 147.0 | 148.0 | 149.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | 4.3 | 4.3 |
| 180.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | 0.0 |
| 210.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 |
| 240.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 |
| 270.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 300.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 330.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 |
| 360.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

R852 WWL (CRI90 350mA 70D)

Page7

Intensity Data [cd]

| C\γ | 150.0 | 151.0 | 152.0 | 153.0 | 154.0 | 155.0 | 156.0 | 157.0 | 158.0 | 159.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 30.0 | 0.0 | 4.3 | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 60.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 90.0 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 120.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 150.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 180.0 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 8.5 | 8.5 | 4.3 |
| 210.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 240.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 8.5 | 4.3 | 4.3 |
| 270.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 300.0 | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 |
| 330.0 | 4.3 | 0.0 | 4.3 | 0.0 | 0.0 | 4.3 | 0.0 | 4.3 | 4.3 | 4.3 |
| 360.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |

| C\γ | 160.0 | 161.0 | 162.0 | 163.0 | 164.0 | 165.0 | 166.0 | 167.0 | 168.0 | 169.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 8.5 |
| 30.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 |
| 60.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 8.5 | 8.5 |
| 90.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 8.5 | 8.5 | 8.5 |
| 120.0 | 4.3 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 150.0 | 8.5 | 4.3 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 180.0 | 4.3 | 8.5 | 4.3 | 8.5 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 210.0 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 240.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 270.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 |
| 300.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 8.5 | 4.3 | 4.3 | 4.3 | 8.5 |
| 330.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 8.5 |
| 360.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 8.5 |

| C\γ | 170.0 | 171.0 | 172.0 | 173.0 | 174.0 | 175.0 | 176.0 | 177.0 | 178.0 | 179.0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 8.5 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 30.0 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 60.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 90.0 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 120.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 150.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 180.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 210.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 12.8 | 8.5 |
| 240.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 270.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 300.0 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 330.0 | 4.3 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 360.0 | 8.5 | 4.3 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |

Intensity Data [cd]

Page8

| | |
|-------|-------|
| C\γ | 180.0 |
| 0.0 | 8.5 |
| 30.0 | 8.5 |
| 60.0 | 8.5 |
| 90.0 | 8.5 |
| 120.0 | 8.5 |
| 150.0 | 8.5 |
| 180.0 | 8.5 |
| 210.0 | 8.5 |
| 240.0 | 8.5 |
| 270.0 | 8.5 |
| 300.0 | 8.5 |
| 330.0 | 8.5 |
| 360.0 | 8.5 |

R852 WWL (CRI90 350mA 70D)

Zonal flux distribution table

Page9

| Gamma [°] | Average I [cd] | Zonal Flux [lm] | Sum Flux [lm] | Effective Flux [lm] | Effective Sum [lm] |
|--------------|-------------------|--------------------|------------------|------------------------|-----------------------|
| 0 | 1026.58 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1 | 1026.23 | 0.98 | 0.98 | 0.98 | 0.98 |
| 2 | 1027.65 | 2.95 | 3.93 | 2.95 | 3.93 |
| 3 | 1030.84 | 4.92 | 8.85 | 4.92 | 8.85 |
| 4 | 1030.13 | 6.90 | 15.75 | 6.90 | 15.75 |
| 5 | 1026.58 | 8.85 | 24.60 | 8.85 | 24.60 |
| 6 | 1020.19 | 10.76 | 35.36 | 10.76 | 35.36 |
| 7 | 1014.52 | 12.63 | 47.99 | 12.63 | 47.99 |
| 8 | 1008.48 | 14.48 | 62.46 | 14.48 | 62.46 |
| 9 | 1001.38 | 16.29 | 78.75 | 16.29 | 78.75 |
| 10 | 995.70 | 18.07 | 96.83 | 18.07 | 96.83 |
| 11 | 994.28 | 19.88 | 116.71 | 19.88 | 116.71 |
| 12 | 996.77 | 21.77 | 138.47 | 21.77 | 138.47 |
| 13 | 1002.80 | 23.73 | 162.20 | 23.73 | 162.20 |
| 14 | 1010.26 | 25.77 | 187.97 | 25.77 | 187.97 |
| 15 | 1015.93 | 27.82 | 215.79 | 27.82 | 215.79 |
| 16 | 1021.61 | 29.86 | 245.64 | 29.86 | 245.64 |
| 17 | 1028.36 | 31.92 | 277.57 | 31.92 | 277.57 |
| 18 | 1036.88 | 34.05 | 311.62 | 34.05 | 311.62 |
| 19 | 1041.85 | 36.17 | 347.78 | 36.17 | 347.78 |
| 20 | 1045.75 | 38.21 | 385.99 | 38.21 | 385.99 |
| 21 | 1053.92 | 40.32 | 426.31 | 40.32 | 426.31 |
| 22 | 1066.70 | 42.61 | 468.93 | 42.61 | 468.93 |
| 23 | 1076.99 | 44.98 | 513.91 | 44.98 | 513.91 |
| 24 | 1087.64 | 47.33 | 561.23 | 47.33 | 561.23 |
| 25 | 1095.45 | 49.64 | 610.87 | 49.64 | 610.87 |
| 26 | 1096.51 | 51.74 | 662.61 | 51.74 | 662.61 |
| 27 | 1083.02 | 53.32 | 715.94 | 53.32 | 715.94 |
| 28 | 1051.43 | 54.04 | 769.98 | 54.04 | 769.98 |
| 29 | 1003.51 | 53.76 | 823.74 | 53.76 | 823.74 |
| 30 | 921.51 | 51.98 | 875.71 | 51.98 | 875.71 |
| 31 | 822.47 | 48.53 | 924.25 | 48.53 | 924.25 |
| 32 | 712.43 | 43.97 | 968.22 | 43.97 | 968.22 |
| 33 | 594.23 | 38.49 | 1006.71 | 38.49 | 1006.71 |
| 34 | 466.08 | 32.09 | 1038.80 | 32.09 | 1038.80 |
| 35 | 358.52 | 25.61 | 1064.41 | 25.61 | 1064.41 |
| 36 | 275.81 | 20.20 | 1084.61 | 20.20 | 1084.61 |
| 37 | 210.14 | 15.85 | 1100.46 | 15.85 | 1100.46 |
| 38 | 160.80 | 12.38 | 1112.84 | 12.38 | 1112.84 |
| 39 | 124.60 | 9.74 | 1122.58 | 7.35 | 1120.19 |
| 40 | 96.91 | 7.73 | 1130.31 | 4.04 | 1124.23 |

R852 WWL (CRI90 350mA 70D)

Zonal flux distribution table

Page10

| Gamma [°] | Average I [cd] | Zonal Flux [lm] | Sum Flux [lm] | Effective Flux [lm] | Effective Sum [lm] |
|--------------|-------------------|--------------------|------------------|------------------------|-----------------------|
| 41 | 78.80 | 6.26 | 1136.56 | 0.69 | 1124.92 |
| 42 | 64.25 | 5.20 | 1141.76 | 0.00 | 1124.92 |
| 43 | 53.25 | 4.35 | 1146.11 | 0.00 | 1124.92 |
| 44 | 45.08 | 3.71 | 1149.82 | 0.00 | 1124.92 |
| 45 | 37.98 | 3.19 | 1153.02 | 0.00 | 1124.92 |
| 46 | 32.66 | 2.76 | 1155.78 | 0.00 | 1124.92 |
| 47 | 28.40 | 2.43 | 1158.21 | 0.00 | 1124.92 |
| 48 | 25.56 | 2.18 | 1160.39 | 0.00 | 1124.92 |
| 49 | 23.07 | 2.00 | 1162.39 | 0.00 | 1124.92 |
| 50 | 21.30 | 1.85 | 1164.24 | 0.00 | 1124.92 |
| 51 | 17.39 | 1.64 | 1165.87 | 0.00 | 1124.92 |
| 52 | 16.33 | 1.45 | 1167.32 | 0.00 | 1124.92 |
| 53 | 14.91 | 1.36 | 1168.68 | 0.00 | 1124.92 |
| 54 | 12.78 | 1.22 | 1169.90 | 0.00 | 1124.92 |
| 55 | 12.78 | 1.14 | 1171.04 | 0.00 | 1124.92 |
| 56 | 11.36 | 1.09 | 1172.13 | 0.00 | 1124.92 |
| 57 | 9.58 | 0.96 | 1173.09 | 0.00 | 1124.92 |
| 58 | 8.52 | 0.84 | 1173.93 | 0.00 | 1124.92 |
| 59 | 8.52 | 0.80 | 1174.72 | 0.00 | 1124.92 |
| 60 | 8.52 | 0.80 | 1175.53 | 0.00 | 1124.92 |
| 61 | 7.45 | 0.76 | 1176.29 | 0.00 | 1124.92 |
| 62 | 6.03 | 0.65 | 1176.94 | 0.00 | 1124.92 |
| 63 | 4.97 | 0.54 | 1177.48 | 0.00 | 1124.92 |
| 64 | 4.61 | 0.47 | 1177.95 | 0.00 | 1124.92 |
| 65 | 4.26 | 0.44 | 1178.39 | 0.00 | 1124.92 |
| 66 | 4.26 | 0.43 | 1178.81 | 0.00 | 1124.92 |
| 67 | 3.90 | 0.41 | 1179.22 | 0.00 | 1124.92 |
| 68 | 4.26 | 0.41 | 1179.63 | 0.00 | 1124.92 |
| 69 | 3.90 | 0.42 | 1180.05 | 0.00 | 1124.92 |
| 70 | 3.55 | 0.38 | 1180.43 | 0.00 | 1124.92 |
| 71 | 2.84 | 0.33 | 1180.76 | 0.00 | 1124.92 |
| 72 | 0.71 | 0.18 | 1180.95 | 0.00 | 1124.92 |
| 73 | 2.13 | 0.15 | 1181.10 | 0.00 | 1124.92 |
| 74 | 0.00 | 0.11 | 1181.21 | 0.00 | 1124.92 |
| 75 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 76 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 77 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 78 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 79 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 80 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 81 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |

R852 WWL (CRI90 350mA 70D)

Zonal flux distribution table

Page11

| Gamma [°] | Average I [cd] | Zonal Flux [lm] | Sum Flux [lm] | Effective Flux [lm] | Effective Sum [lm] |
|--------------|-------------------|--------------------|------------------|------------------------|-----------------------|
| 82 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 83 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 84 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 85 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 86 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 87 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 88 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 89 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 90 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 91 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 92 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 93 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 94 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 95 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 96 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 97 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 98 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 99 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 100 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 101 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 102 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 103 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 104 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 105 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 106 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 107 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 108 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 109 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 110 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 111 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 112 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 113 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 114 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 115 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 116 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 117 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 118 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 119 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 120 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 121 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 122 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |

R852 WWL (CRI90 350mA 70D)

Zonal flux distribution table

Page12

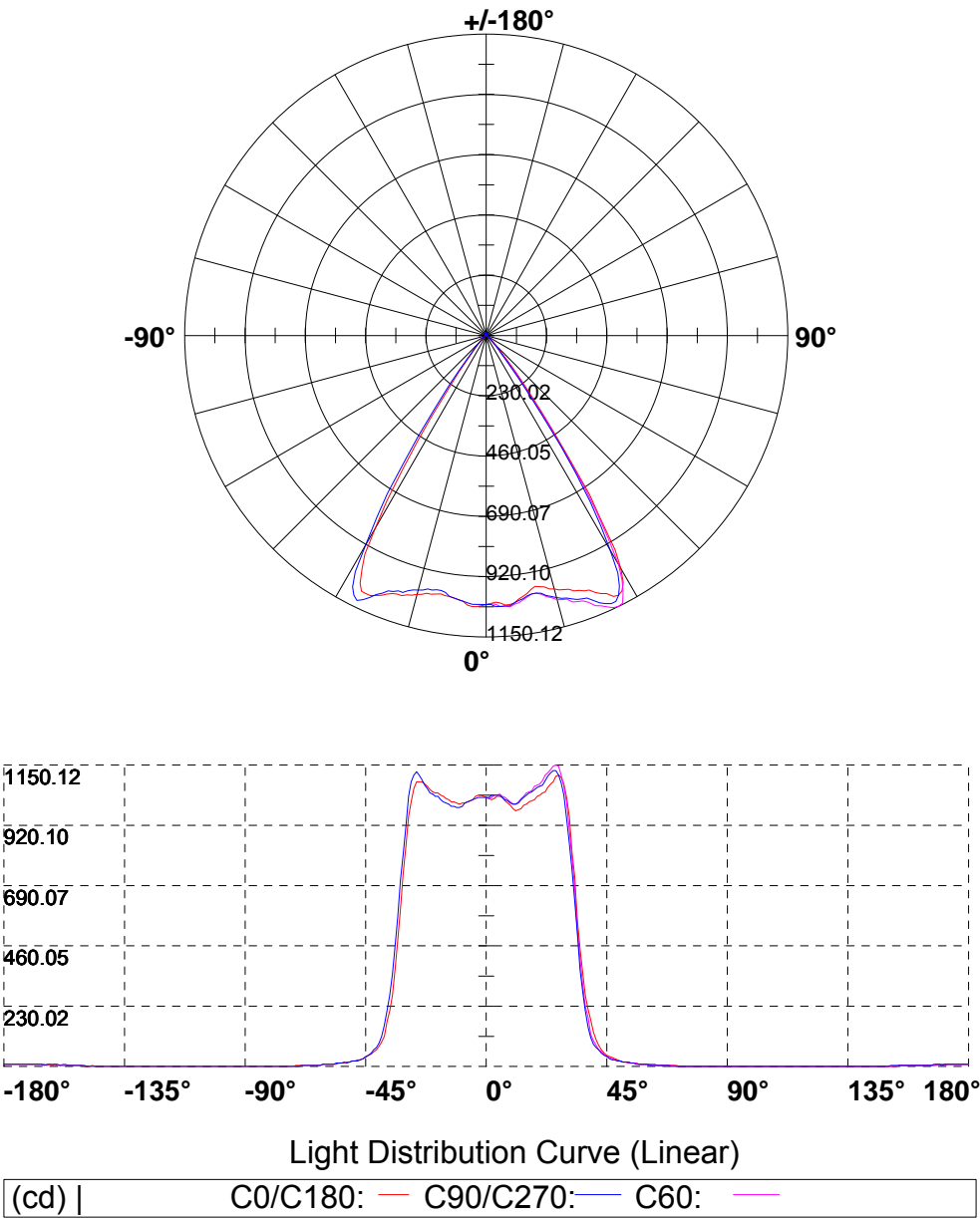
| Gamma [°] | Average I [cd] | Zonal Flux [lm] | Sum Flux [lm] | Effective Flux [lm] | Effective Sum [lm] |
|--------------|-------------------|--------------------|------------------|------------------------|-----------------------|
| 123 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 124 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 125 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 126 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 127 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 128 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 129 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 130 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 131 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 132 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 133 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 134 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 135 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 136 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 137 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 138 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 139 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 140 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 141 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 142 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 143 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 144 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 145 | 0.00 | 0.00 | 1181.21 | 0.00 | 1124.92 |
| 146 | 0.71 | 0.02 | 1181.23 | 0.00 | 1124.92 |
| 147 | 0.71 | 0.04 | 1181.27 | 0.00 | 1124.92 |
| 148 | 1.06 | 0.05 | 1181.33 | 0.00 | 1124.92 |
| 149 | 1.42 | 0.07 | 1181.40 | 0.00 | 1124.92 |
| 150 | 2.13 | 0.10 | 1181.50 | 0.00 | 1124.92 |
| 151 | 2.84 | 0.13 | 1181.63 | 0.00 | 1124.92 |
| 152 | 2.84 | 0.15 | 1181.78 | 0.00 | 1124.92 |
| 153 | 2.84 | 0.14 | 1181.92 | 0.00 | 1124.92 |
| 154 | 3.55 | 0.16 | 1182.08 | 0.00 | 1124.92 |
| 155 | 3.90 | 0.18 | 1182.25 | 0.00 | 1124.92 |
| 156 | 3.90 | 0.18 | 1182.43 | 0.00 | 1124.92 |
| 157 | 4.97 | 0.19 | 1182.63 | 0.00 | 1124.92 |
| 158 | 4.61 | 0.20 | 1182.83 | 0.00 | 1124.92 |
| 159 | 4.26 | 0.18 | 1183.01 | 0.00 | 1124.92 |
| 160 | 5.32 | 0.18 | 1183.19 | 0.00 | 1124.92 |
| 161 | 5.68 | 0.20 | 1183.39 | 0.00 | 1124.92 |
| 162 | 5.68 | 0.20 | 1183.59 | 0.00 | 1124.92 |
| 163 | 6.39 | 0.20 | 1183.79 | 0.00 | 1124.92 |

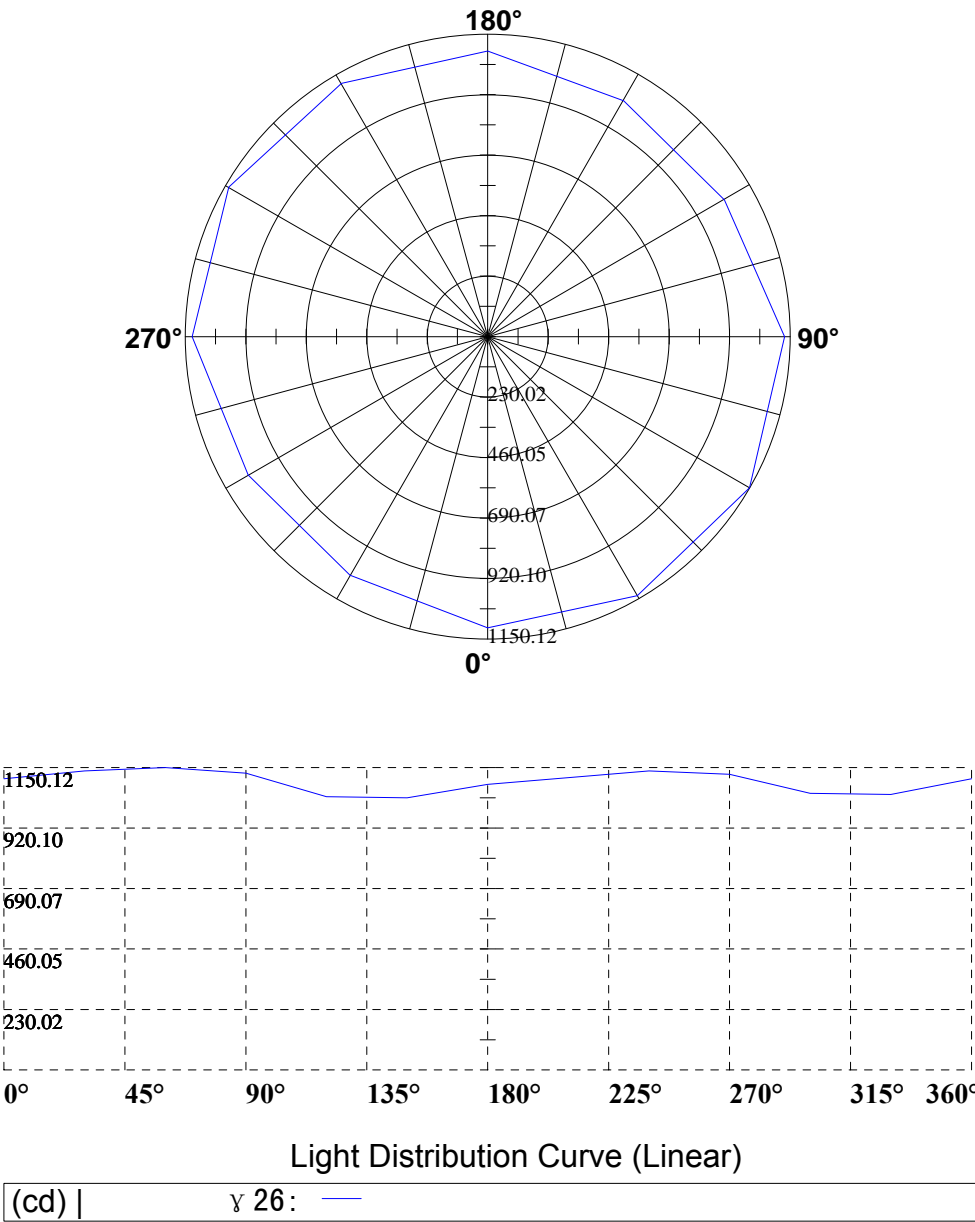
R852 WWL (CRI90 350mA 70D)

Zonal flux distribution table

Page13

[illegible]





ISO-Illuminance

Page16

Unit: [lx]

5.

287.24 (100%Emax)

258.78 (90%Emax)

230.02 (80%Emax)

201.27 (70%Emax)

172.52 (60%Emax)

143.76 (50%Emax)

115.01 (40%Emax)

86.26 (30%Emax)

57.51 (20%Emax)

28.75 (10%Emax)

4.

3.

2.

1.

0.

1.

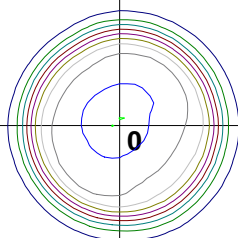
2.

3.

4.

5.

5.



Coordinate Scale: d/h

Height: 2 m

Max Illuminance : 287.53lx

Luminance Limiting Curve (There is not luminous side)

Diameter: 115mm

Length: -115mm

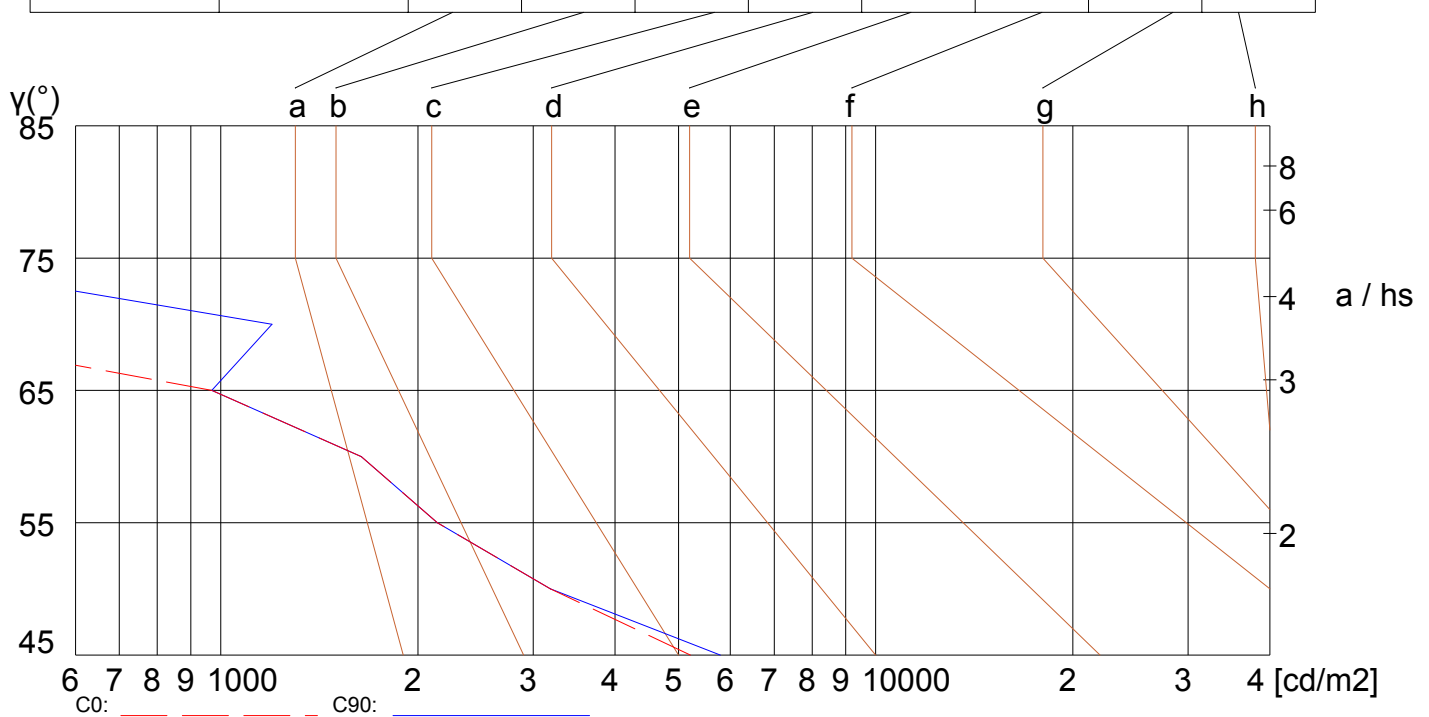
Width: -115mm

Height: 72mm

(cd/m²)

| γ | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° |
|----------|------|------|------|------|-----|------|-----|-----|-----|
| C0 | 5213 | 3186 | 2142 | 1638 | 969 | 0 | | | |
| C90 | 5792 | 3186 | 2142 | 1638 | 969 | 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 |



Luminance Limiting Curve (C0/C90)

R852 WWL (CRI90 350mA 70D)

utilization factor table for indoor luminaire

Page18

| 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 | 0.97 | 0.97 | 0.97 | 0.95 | 0.95 | 0.95 | 0.91 | 0.91 | 0.91 | 0.87 | 0.87 | 0.87 | 0.83 | 0.83 | 0.83 | 0.81 |
| 1 | 0.93 | 0.92 | 0.92 | 0.91 | 0.91 | 0.90 | 0.88 | 0.87 | 0.86 | 0.83 | 0.82 | 0.82 | 0.78 | 0.77 | 0.76 | 0.71 |
| 2 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.77 | 0.75 | 0.74 | 0.72 | 0.70 | 0.66 |
| 3 | 0.81 | 0.80 | 0.79 | 0.80 | 0.78 | 0.77 | 0.77 | 0.75 | 0.74 | 0.74 | 0.72 | 0.70 | 0.70 | 0.67 | 0.65 | 0.62 |
| 4 | 0.75 | 0.74 | 0.73 | 0.74 | 0.73 | 0.72 | 0.72 | 0.70 | 0.68 | 0.70 | 0.67 | 0.65 | 0.66 | 0.63 | 0.61 | 0.57 |
| 5 | 0.70 | 0.69 | 0.68 | 0.70 | 0.68 | 0.67 | 0.68 | 0.65 | 0.63 | 0.65 | 0.63 | 0.60 | 0.63 | 0.59 | 0.57 | 0.53 |
| 6 | 0.66 | 0.64 | 0.63 | 0.65 | 0.63 | 0.62 | 0.64 | 0.61 | 0.59 | 0.62 | 0.58 | 0.56 | 0.59 | 0.56 | 0.53 | 0.50 |
| 7 | 0.61 | 0.60 | 0.59 | 0.61 | 0.59 | 0.58 | 0.60 | 0.57 | 0.55 | 0.58 | 0.55 | 0.52 | 0.56 | 0.52 | 0.49 | 0.47 |
| 8 | 0.58 | 0.56 | 0.55 | 0.57 | 0.55 | 0.54 | 0.56 | 0.53 | 0.52 | 0.55 | 0.51 | 0.49 | 0.53 | 0.49 | 0.46 | 0.43 |
| 9 | 0.54 | 0.53 | 0.52 | 0.54 | 0.52 | 0.51 | 0.53 | 0.50 | 0.48 | 0.52 | 0.48 | 0.46 | 0.50 | 0.46 | 0.43 | 0.41 |
| 10 | 0.51 | 0.49 | 0.49 | 0.51 | 0.49 | 0.48 | 0.50 | 0.47 | 0.45 | 0.49 | 0.45 | 0.43 | 0.48 | 0.44 | 0.41 | 0.38 |

