

HALCYON S216 CRI90 3000K W/ WALL WASHING LENS

Luminaire Name: S216 CRI90 3000K W/ WALL WASHING LENS

Report NO.: 01314521012309A

Test NO.:

Lamp: CITIZEN CLU028-1204C4-303H5M3 500mA

Sum Lumens: 2040.98 lm

Number of Lamps: 1

Diameter: 77mm

Length: -77mm

Photometric Type: Type C

Voltage: 240.04 V

Current: 0.0949 A

Power: 22.024 W

Power Factor: 0.9664

Ballast Type: KGP L20W250-500T

Width: -77mm

Height: 80mm

Optical Component: DC(V:35.45V I:0.512A P:18.15W)

Photometric Results

Lumens: 1379.07 lm

Efficiency: 67.57%

Central Intensity: 1502.718cd

Maximum Intensity: 1996.94cd

Beam Angle(10%): Left: -56.5 Right:35.4

Maximum s/h: C0_180: 0.44 C90_270: 0.38

Effective Luminous Flux: 1162.35 lm

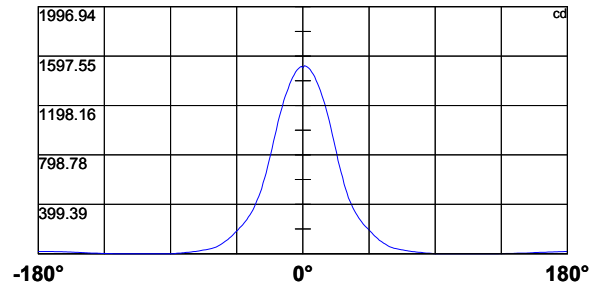
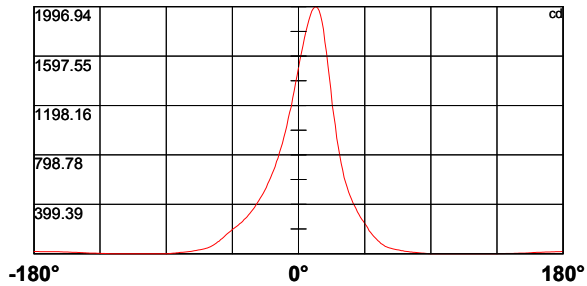
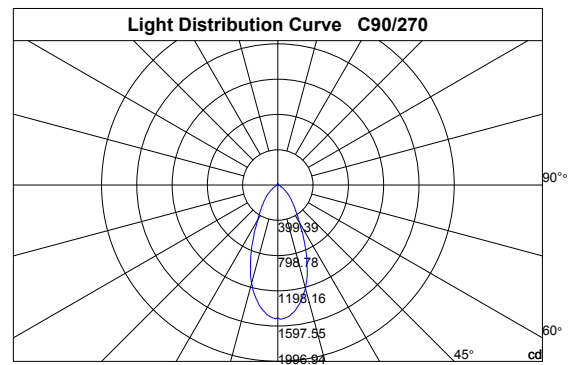
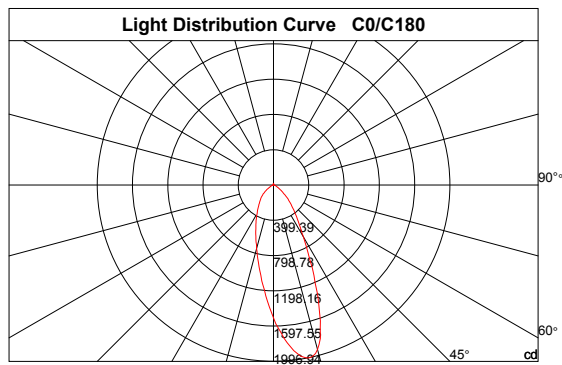
Angle of maximum intensity: C:0.0 G:12.0

Half Peak Side Angle(50%): Left: -20.7 Right:13.4

Up Flux Rate: 0.64%

Down Flux Rate: 66.93%

CIE Classification: Direct



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	1502.7	1572.7	1627.2	1681.3	1742.2	1792.5	1838.9	1889.2	1925.4	1961.2
30.0	1502.7	1562.9	1611.4	1659.6	1711.1	1751.2	1788.6	1831.7	1858.1	1880.2
60.0	1502.7	1543.3	1568.0	1594.4	1621.2	1637.4	1649.8	1657.9	1661.3	1658.3
90.0	1502.7	1520.3	1516.0	1509.6	1500.3	1488.8	1469.6	1451.3	1432.1	1400.6
120.0	1502.7	1471.7	1440.6	1403.1	1364.8	1329.4	1287.7	1253.6	1217.4	1181.6
150.0	1502.7	1449.6	1392.1	1340.1	1292.0	1227.2	1179.9	1133.5	1084.5	1040.6
180.0	1502.7	1437.6	1381.0	1315.0	1259.2	1189.3	1144.6	1094.3	1031.3	984.8
210.0	1502.7	1454.7	1404.0	1337.5	1285.6	1234.5	1177.8	1131.4	1071.7	1034.7
240.0	1502.7	1478.1	1445.3	1398.5	1368.6	1332.0	1283.9	1245.1	1200.8	1164.2
270.0	1502.7	1514.7	1506.7	1496.4	1484.1	1469.2	1443.6	1424.0	1398.0	1372.5
300.0	1502.7	1527.5	1558.2	1578.6	1594.4	1609.7	1616.1	1620.0	1616.6	1606.8
330.0	1502.7	1555.2	1602.5	1646.8	1701.3	1738.4	1771.6	1804.8	1827.0	1844.4
360.0	1502.7	1572.7	1627.2	1681.3	1742.2	1792.5	1838.9	1889.2	1925.4	1961.2

C\γ	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	1980.3	1994.0	1996.9	1985.9	1965.4	1926.7	1875.5	1813.3	1711.1	1626.3
30.0	1892.2	1896.0	1893.4	1879.4	1858.1	1816.3	1772.0	1720.1	1648.1	1576.9
60.0	1649.3	1637.0	1611.4	1587.6	1557.8	1513.0	1468.3	1417.6	1350.7	1288.6
90.0	1375.9	1347.8	1318.4	1276.6	1243.4	1208.0	1162.0	1119.9	1075.6	1019.8
120.0	1136.5	1101.1	1067.9	1035.1	992.1	960.1	927.3	890.7	859.2	827.7
150.0	985.7	946.9	915.4	868.1	834.0	797.0	765.9	735.2	696.0	668.8
180.0	942.2	893.7	854.1	817.4	771.9	745.9	703.7	674.3	645.8	615.1
210.0	992.5	940.5	902.2	867.7	828.9	796.6	756.1	726.3	697.3	666.2
240.0	1127.1	1079.8	1044.9	1010.8	972.5	939.7	906.0	869.0	837.5	795.7
270.0	1334.6	1304.3	1271.9	1237.9	1188.9	1149.3	1108.8	1065.3	1001.5	954.2
300.0	1593.5	1575.7	1553.1	1520.3	1487.9	1441.9	1384.0	1329.4	1271.1	1209.3
330.0	1853.4	1856.8	1851.7	1832.5	1809.5	1769.9	1724.3	1671.1	1599.1	1530.9
360.0	1980.3	1994.0	1996.9	1985.9	1965.4	1926.7	1875.5	1813.3	1711.1	1626.3

C\γ	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1520.7	1425.7	1330.3	1201.2	1124.1	1039.4	933.7	861.3	794.9	727.6
30.0	1488.8	1409.1	1328.6	1219.5	1139.0	1059.0	970.4	897.9	831.5	750.6
60.0	1200.8	1131.8	1062.4	982.3	915.0	849.8	779.9	723.7	654.3	607.4
90.0	964.4	915.8	865.6	817.0	752.3	704.6	659.4	616.4	562.7	526.1
120.0	785.5	755.2	725.0	685.0	655.1	626.2	599.3	567.0	541.0	515.4
150.0	641.9	611.3	587.8	565.3	539.7	519.7	492.0	472.0	454.1	434.1
180.0	589.5	565.7	535.9	513.3	488.6	468.6	450.2	429.0	410.2	393.6
210.0	640.2	613.4	586.6	563.1	533.3	512.0	490.7	468.1	449.8	431.5
240.0	765.9	734.8	700.7	673.0	638.1	610.4	583.6	548.2	521.8	497.1
270.0	907.3	849.4	801.7	756.1	702.8	651.7	611.7	572.9	525.2	493.7
300.0	1120.7	1053.4	987.4	923.1	838.7	779.9	725.4	666.2	619.8	577.6
330.0	1432.5	1352.0	1273.6	1183.8	1106.2	1030.8	935.0	865.6	813.6	736.5
360.0	1520.7	1425.7	1330.3	1201.2	1124.1	1039.4	933.7	861.3	794.9	727.6

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	676.9	615.5	574.6	537.6	499.2	469.0	441.7	411.9	387.6	365.5
30.0	703.3	634.7	589.1	547.4	503.9	469.4	437.9	400.8	375.7	356.1
60.0	565.3	521.0	486.0	454.9	417.4	395.7	371.9	342.9	323.3	303.7
90.0	492.8	451.5	423.4	397.4	370.6	348.9	328.8	310.5	288.0	272.6
120.0	481.8	458.3	435.8	411.1	386.8	367.6	348.9	328.4	311.8	296.0
150.0	417.0	400.0	381.7	366.8	348.0	334.0	320.3	305.4	293.9	282.4
180.0	372.3	356.5	342.1	326.3	313.1	298.6	286.3	275.2	261.1	251.3
210.0	410.6	394.0	378.3	358.2	344.2	327.6	314.4	302.0	288.0	276.0
240.0	469.4	446.0	423.8	399.1	379.5	354.4	336.1	319.1	300.7	285.4
270.0	462.6	434.9	405.5	377.4	352.7	332.7	313.9	297.8	276.5	262.0
300.0	527.3	493.7	463.0	435.3	404.7	381.2	357.4	330.1	311.8	294.8
330.0	683.7	626.6	581.9	542.3	494.5	462.2	431.9	399.1	374.4	351.4
360.0	676.9	615.5	574.6	537.6	499.2	469.0	441.7	411.9	387.6	365.5

C\γ	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	337.8	318.6	296.9	279.0	262.0	244.1	228.7	210.4	186.1	171.7
30.0	326.7	306.7	285.8	268.4	252.2	232.2	217.2	201.1	181.9	166.1
60.0	283.7	267.9	247.5	233.9	220.7	205.7	193.0	179.8	164.4	151.2
90.0	257.7	239.8	227.0	215.1	203.2	190.8	179.8	167.4	154.2	141.8
120.0	275.6	261.5	247.9	235.6	219.4	207.9	196.4	184.4	168.7	156.8
150.0	269.2	258.1	248.3	235.1	225.3	216.4	205.3	195.5	185.7	171.2
180.0	241.9	230.4	221.9	213.4	203.6	195.5	184.4	175.1	165.3	155.5
210.0	265.4	251.7	241.9	231.7	221.1	212.1	199.8	190.4	180.2	167.4
240.0	271.3	253.5	241.1	230.9	216.0	204.0	193.8	180.6	169.5	154.2
270.0	247.9	232.6	220.2	208.7	194.2	183.2	172.9	160.2	146.1	135.9
300.0	275.6	259.8	243.2	229.2	216.8	204.0	187.4	173.8	158.5	146.1
330.0	326.7	306.7	282.4	266.2	250.0	234.7	216.4	199.8	181.0	165.7
360.0	337.8	318.6	296.9	279.0	262.0	244.1	228.7	210.4	186.1	171.7

C\γ	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	156.3	142.3	130.3	118.0	105.6	96.3	83.1	75.0	67.7	59.2
30.0	150.8	138.4	126.9	112.5	101.8	91.2	80.9	72.8	65.6	57.9
60.0	135.5	124.8	114.6	104.8	95.8	86.9	78.4	71.1	64.3	56.7
90.0	131.2	121.0	109.0	101.4	93.7	85.2	78.0	71.1	62.2	57.1
120.0	144.4	131.6	121.8	111.6	101.4	91.2	83.5	75.4	66.0	59.6
150.0	160.2	147.4	136.7	126.9	115.9	106.1	96.7	85.2	77.1	68.2
180.0	144.0	132.5	122.3	113.7	102.2	95.0	85.2	77.5	69.4	62.6
210.0	157.6	146.5	134.6	124.8	115.0	101.8	92.4	83.9	74.5	66.9
240.0	142.7	132.1	120.5	111.2	101.8	90.7	82.6	74.5	65.2	59.2
270.0	125.7	115.4	106.9	98.8	90.3	80.1	73.3	66.5	60.5	53.7
300.0	135.0	121.0	112.0	102.7	93.7	83.1	75.4	68.2	61.8	55.4
330.0	152.1	135.5	124.4	112.0	101.0	90.3	80.5	72.8	65.6	57.1
360.0	156.3	142.3	130.3	118.0	105.6	96.3	83.1	75.0	67.7	59.2

Intensity Data [cd]

C\γ	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	54.5	49.8	46.0	43.0	39.6	36.2	34.1	31.5	29.4	27.3
30.0	52.8	48.6	44.3	41.3	37.9	35.8	33.7	31.5	29.4	27.7
60.0	51.5	48.1	43.9	40.9	37.9	35.8	33.7	31.1	29.8	27.7
90.0	52.4	48.1	44.3	41.3	39.2	35.8	34.1	31.5	29.8	28.1
120.0	54.5	49.8	45.2	42.2	39.2	36.2	33.7	31.5	29.8	27.3
150.0	61.3	55.8	50.3	46.0	42.6	38.8	36.2	33.7	30.7	28.5
180.0	55.4	51.1	46.0	42.6	40.0	37.1	34.5	32.4	30.2	28.1
210.0	59.2	54.1	49.8	44.7	41.7	38.8	35.4	32.8	30.7	28.1
240.0	52.8	49.0	45.2	41.7	39.2	36.6	33.7	31.9	29.4	26.8
270.0	49.8	46.0	42.2	39.6	37.1	34.5	32.4	30.2	28.5	26.4
300.0	50.7	46.4	42.6	40.0	37.5	34.9	32.8	30.2	28.5	26.4
330.0	52.4	48.1	44.3	41.3	38.3	35.8	33.7	30.7	28.5	26.8
360.0	54.5	49.8	46.0	43.0	39.6	36.2	34.1	31.5	29.4	27.3

C\γ	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	24.7	23.0	20.4	18.7	17.0	15.3	14.1	13.2	11.9	10.6
30.0	24.7	23.0	21.3	18.7	17.0	15.8	14.5	13.2	11.9	10.6
60.0	25.1	23.0	20.9	18.7	17.5	15.8	14.5	13.6	11.9	10.6
90.0	25.6	23.4	21.3	19.6	17.9	16.2	15.3	14.1	12.4	11.1
120.0	24.7	23.0	20.9	18.7	17.5	15.8	14.5	13.2	12.4	11.1
150.0	26.0	23.4	21.3	19.2	17.9	16.2	14.9	13.6	12.8	11.1
180.0	26.0	23.0	21.3	19.2	17.9	16.2	14.9	14.1	12.8	11.5
210.0	25.6	23.4	20.9	19.2	17.5	15.8	14.9	13.6	12.4	11.1
240.0	24.7	22.2	20.0	18.3	16.6	15.3	14.5	12.8	11.9	10.6
270.0	23.4	21.7	19.6	17.9	16.6	15.3	13.6	12.8	11.5	10.2
300.0	24.3	21.7	20.0	18.3	16.2	15.3	14.1	12.8	11.5	10.2
330.0	24.3	22.2	20.4	18.3	17.0	15.3	14.1	13.2	11.5	10.2
360.0	24.7	23.0	20.4	18.7	17.0	15.3	14.1	13.2	11.9	10.6

C\γ	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.4	8.1	6.8	6.0	4.3	3.4	2.6	1.3	0.4	0.0
30.0	9.4	8.1	7.2	6.0	4.7	3.8	3.0	1.7	0.4	0.0
60.0	9.8	8.5	7.2	6.4	5.1	3.8	3.0	2.1	0.9	0.0
90.0	10.2	8.9	7.7	6.4	5.1	4.3	3.4	2.6	1.7	0.0
120.0	9.8	8.5	7.2	6.0	5.1	3.8	3.0	2.1	0.9	0.0
150.0	9.8	8.9	7.7	6.8	5.5	4.3	3.0	2.1	0.9	0.0
180.0	10.2	9.4	7.7	6.8	5.5	3.8	3.0	2.1	0.9	0.0
210.0	9.8	8.9	7.7	6.0	5.1	4.3	3.0	2.1	0.9	0.0
240.0	9.4	8.1	6.8	6.0	4.7	3.8	2.6	1.7	0.9	0.0
270.0	8.9	7.7	6.8	5.5	4.3	3.4	2.6	0.9	0.0	0.0
300.0	9.4	8.1	6.8	5.5	4.7	3.4	2.6	1.7	0.4	0.0
330.0	9.4	7.7	6.8	5.5	4.3	3.4	2.6	1.3	0.4	0.0
360.0	9.4	8.1	6.8	6.0	4.3	3.4	2.6	1.3	0.4	0.0

Intensity Data [cd]

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

Intensity Data [cd]

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	0.4
210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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	0.4	0.4	0.4	0.4
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
60.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9	0.9	0.9
90.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9	1.3	1.3
120.0	0.0	0.4	0.4	0.9	1.3	1.3	2.1	2.1	2.6	3.0
150.0	0.4	0.9	0.9	1.3	1.7	2.1	2.1	2.6	3.0	3.4
180.0	0.4	0.9	1.3	1.7	1.7	2.6	2.6	3.0	3.4	3.8
210.0	0.9	0.9	1.3	1.3	1.7	2.1	2.6	3.0	3.4	3.8
240.0	0.4	0.4	0.9	1.3	1.7	1.7	2.1	2.6	3.0	3.4
270.0	0.4	0.4	0.9	0.9	1.3	1.7	2.1	2.1	2.6	3.0
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4

C\γ	140.0	141.0	142.0	143.0	144.0	145.0	146.0	147.0	148.0	149.0
0.0	0.9	1.3	1.3	1.3	1.7	2.1	2.1	2.6	3.0	3.0
30.0	1.3	1.3	1.3	1.7	1.7	2.1	2.6	2.6	3.0	3.4
60.0	1.3	1.3	1.7	1.7	2.1	2.6	2.6	3.0	3.4	3.8
90.0	1.7	1.7	2.1	2.1	2.6	3.0	3.4	3.4	3.8	4.3
120.0	3.4	3.8	4.3	4.7	5.1	6.0	6.4	6.8	7.2	8.1
150.0	3.8	4.3	5.1	5.5	6.0	6.4	7.2	7.7	8.1	8.9
180.0	4.3	4.7	5.5	6.0	6.4	6.8	7.2	8.1	8.5	9.4
210.0	4.3	4.7	5.1	5.5	6.4	6.8	7.7	8.1	8.5	9.4
240.0	3.8	4.3	4.7	5.1	6.0	6.4	7.2	7.7	8.1	8.9
270.0	3.4	3.8	4.3	4.7	5.1	6.0	6.4	7.2	7.7	8.5
300.0	1.3	1.3	1.3	1.7	2.1	2.1	2.6	3.0	3.0	3.4
330.0	0.9	0.9	1.3	1.3	1.7	2.1	2.1	2.6	2.6	3.4
360.0	0.9	1.3	1.3	1.3	1.7	2.1	2.1	2.6	3.0	3.0

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	3.4	3.8	4.3	4.7	5.5	6.0	6.4	6.8	7.7	8.5
30.0	3.8	3.8	4.3	5.1	5.5	6.4	6.8	7.2	8.1	8.5
60.0	3.8	4.3	5.1	5.5	6.0	6.4	7.2	7.7	8.1	8.9
90.0	4.7	5.1	5.5	6.0	6.4	6.8	7.7	8.1	8.9	9.4
120.0	8.5	9.4	9.8	10.2	10.6	11.5	11.9	12.4	12.8	13.2
150.0	9.4	9.8	10.2	10.6	11.5	11.9	12.4	12.8	13.6	13.6
180.0	9.8	10.2	10.6	11.1	11.5	12.4	12.8	13.2	13.6	14.1
210.0	9.8	10.2	10.6	11.5	11.5	12.4	12.8	13.2	13.6	14.1
240.0	9.4	9.8	10.2	10.6	11.5	11.9	12.4	12.8	13.2	13.6
270.0	8.5	9.4	9.8	10.6	11.1	11.5	12.4	12.8	13.2	13.6
300.0	3.8	4.3	4.7	5.1	5.5	6.0	6.8	7.2	8.1	8.5
330.0	3.4	3.8	4.3	4.7	5.5	6.0	6.8	7.2	7.7	8.1
360.0	3.4	3.8	4.3	4.7	5.5	6.0	6.4	6.8	7.7	8.5

C\γ	160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0
0.0	8.9	9.4	10.2	10.6	11.1	11.5	12.4	12.8	13.2	13.6
30.0	8.9	9.4	10.2	10.6	11.1	11.9	12.4	12.8	13.2	13.6
60.0	9.4	9.8	10.2	11.1	11.5	11.9	12.4	13.2	13.2	13.6
90.0	9.8	10.2	10.6	11.1	11.9	11.9	12.8	13.2	13.6	14.1
120.0	13.6	14.1	14.5	14.9	14.9	15.3	15.8	15.8	15.8	15.8
150.0	14.1	14.5	14.9	14.9	15.3	15.3	15.8	15.8	15.8	15.8
180.0	14.1	14.5	14.9	15.3	15.3	15.8	15.8	15.8	15.8	15.8
210.0	14.5	14.5	14.9	14.9	15.3	15.8	15.8	15.8	16.2	15.8
240.0	14.1	14.5	14.5	14.9	15.3	15.8	15.8	15.8	15.8	16.2
270.0	14.1	14.5	14.5	14.9	15.3	15.3	15.8	16.2	16.2	16.2
300.0	8.9	9.4	9.8	10.6	11.1	11.5	11.9	12.8	12.4	13.2
330.0	8.9	9.4	10.2	10.2	11.1	11.5	11.9	12.8	13.2	13.2
360.0	8.9	9.4	10.2	10.6	11.1	11.5	12.4	12.8	13.2	13.6

C\γ	170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	14.1	14.1	14.5	14.9	14.9	15.8	15.8	16.2	16.2	16.6
30.0	14.1	14.5	14.5	14.9	15.3	15.8	16.2	16.2	16.6	16.6
60.0	14.1	14.5	14.5	15.3	15.3	15.8	15.8	16.2	16.6	16.6
90.0	14.1	14.5	14.9	14.9	15.3	15.8	16.2	16.2	16.6	16.6
120.0	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	15.8
150.0	15.8	15.8	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
180.0	16.2	15.8	16.2	16.2	16.2	16.2	16.2	16.6	16.6	16.6
210.0	16.2	16.2	16.2	16.6	16.2	16.6	16.6	16.6	16.6	16.6
240.0	16.2	16.2	16.2	16.6	16.6	16.6	16.6	16.6	17.0	17.0
270.0	16.6	16.6	16.6	16.6	16.6	16.6	16.6	17.0	17.0	17.0
300.0	13.6	13.6	14.1	14.5	14.5	14.9	14.9	15.3	15.8	15.8
330.0	13.6	14.1	14.5	14.5	14.9	15.3	15.8	15.8	16.2	16.2
360.0	14.1	14.1	14.5	14.9	14.9	15.8	15.8	16.2	16.2	16.6

Intensity Data [cd]

C\γ	180.0
0.0	16.6
30.0	17.0
60.0	16.6
90.0	17.0
120.0	15.8
150.0	16.2
180.0	16.6
210.0	17.0
240.0	16.6
270.0	17.0
300.0	15.8
330.0	16.2
360.0	16.6

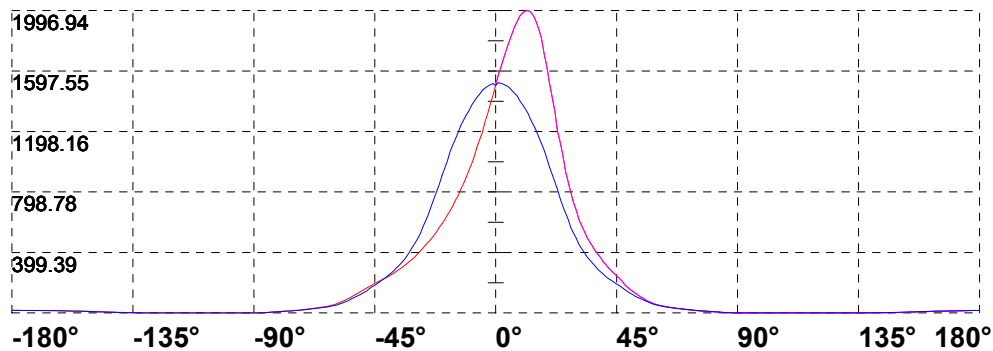
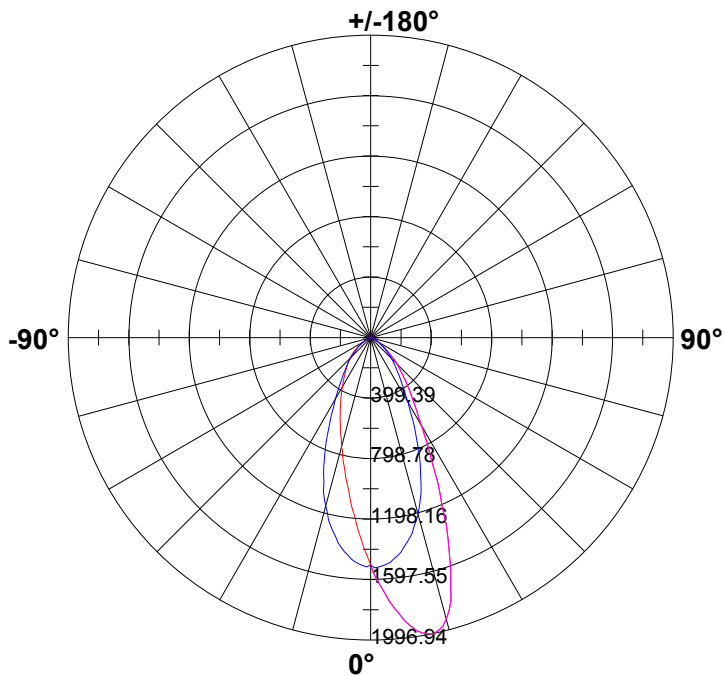
Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
0	1502.72	0.00	0.00	0.00	0.00
1	1507.36	1.44	1.44	1.44	1.44
2	1504.41	4.32	5.76	4.32	5.76
3	1496.75	7.18	12.94	7.18	12.94
4	1493.73	10.01	22.95	10.01	22.95
5	1483.29	12.81	35.76	12.81	35.76
6	1471.01	15.53	51.28	15.53	51.28
7	1461.39	18.20	69.48	18.20	69.48
8	1443.68	20.79	90.28	20.79	90.28
9	1427.49	23.27	113.55	23.27	113.55
10	1405.27	25.64	139.18	25.64	139.18
11	1381.13	27.84	167.02	27.84	167.02
12	1356.78	29.93	196.95	29.93	196.95
13	1326.61	31.85	228.80	31.85	228.80
14	1292.53	33.52	262.32	33.52	262.32
15	1255.36	34.98	297.30	34.98	297.30
16	1212.84	36.17	333.47	36.17	333.47
17	1169.35	37.10	370.56	37.10	370.56
18	1116.07	37.68	408.25	37.68	408.25
19	1064.96	37.95	446.19	37.95	446.19
20	1004.86	37.88	484.07	37.88	484.07
21	951.47	37.57	521.64	37.57	521.64
22	898.79	37.18	558.82	37.18	558.82
23	840.22	36.49	595.31	36.49	595.31
24	786.09	35.56	630.87	35.56	630.87
25	737.67	34.65	665.51	34.65	665.51
26	685.95	33.60	699.12	33.60	699.12
27	640.69	32.46	731.58	32.46	731.58
28	598.24	31.37	762.94	31.37	762.94
29	557.59	30.24	793.18	30.24	793.18
30	521.92	29.15	822.33	29.15	822.33
31	486.07	28.05	850.38	28.05	850.38
32	457.10	27.02	877.40	27.02	877.40
33	429.48	26.12	903.52	26.12	903.52
34	401.23	25.14	928.66	25.14	928.66
35	378.44	24.21	952.87	24.21	952.87
36	357.46	23.43	976.30	23.43	976.30
37	335.27	22.59	998.90	22.59	998.90
38	316.07	21.74	1020.64	21.74	1020.64
39	299.78	21.02	1041.66	21.02	1041.66
40	281.64	20.28	1061.94	20.28	1061.94

Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
41	265.63	19.49	1081.42	19.49	1081.42
42	250.36	18.75	1100.17	18.75	1100.17
43	237.26	18.06	1118.23	18.06	1118.23
44	223.70	17.40	1135.63	17.40	1135.63
45	210.89	16.70	1152.34	14.15	1149.78
46	197.93	15.99	1168.32	9.73	1159.51
47	184.87	15.23	1183.55	2.84	1162.35
48	170.14	14.35	1197.90	0.00	1162.35
49	156.97	13.43	1211.33	0.00	1162.35
50	144.62	12.57	1223.91	0.00	1162.35
51	132.37	11.72	1235.63	0.00	1162.35
52	121.69	10.90	1246.53	0.00	1162.35
53	111.53	10.14	1256.67	0.00	1162.35
54	101.52	9.39	1266.06	0.00	1162.35
55	91.48	8.62	1274.68	0.00	1162.35
56	82.50	7.86	1282.54	0.00	1162.35
57	74.51	7.18	1289.72	0.00	1162.35
58	66.66	6.53	1296.25	0.00	1162.35
59	59.46	5.90	1302.14	0.00	1162.35
60	53.96	5.36	1307.50	0.00	1162.35
61	49.59	4.94	1312.44	0.00	1162.35
62	45.33	4.57	1317.02	0.00	1162.35
63	42.06	4.25	1321.27	0.00	1162.35
64	39.19	3.99	1325.25	0.00	1162.35
65	36.35	3.74	1328.99	0.00	1162.35
66	33.97	3.51	1332.50	0.00	1162.35
67	31.59	3.30	1335.80	0.00	1162.35
68	29.57	3.10	1338.90	0.00	1162.35
69	27.44	2.91	1341.80	0.00	1162.35
70	24.92	2.69	1344.49	0.00	1162.35
71	22.75	2.46	1346.96	0.00	1162.35
72	20.69	2.26	1349.22	0.00	1162.35
73	18.74	2.06	1351.28	0.00	1162.35
74	17.22	1.89	1353.17	0.00	1162.35
75	15.69	1.74	1354.91	0.00	1162.35
76	14.48	1.60	1356.51	0.00	1162.35
77	13.35	1.48	1357.99	0.00	1162.35
78	12.07	1.36	1359.35	0.00	1162.35
79	10.76	1.23	1360.58	0.00	1162.35
80	9.62	1.10	1361.68	0.00	1162.35
81	8.41	0.98	1362.65	0.00	1162.35

Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
82	7.21	0.85	1363.50	0.00	1162.35
83	6.07	0.72	1364.22	0.00	1162.35
84	4.86	0.60	1364.82	0.00	1162.35
85	3.80	0.47	1365.29	0.00	1162.35
86	2.84	0.36	1365.65	0.00	1162.35
87	1.81	0.25	1365.91	0.00	1162.35
88	0.71	0.14	1366.05	0.00	1162.35
89	0.00	0.04	1366.09	0.00	1162.35
90	0.00	0.00	1366.09	0.00	1162.35
91	0.00	0.00	1366.09	0.00	1162.35
92	0.00	0.00	1366.09	0.00	1162.35
93	0.00	0.00	1366.09	0.00	1162.35
94	0.00	0.00	1366.09	0.00	1162.35
95	0.00	0.00	1366.09	0.00	1162.35
96	0.00	0.00	1366.09	0.00	1162.35
97	0.00	0.00	1366.09	0.00	1162.35
98	0.00	0.00	1366.09	0.00	1162.35
99	0.00	0.00	1366.09	0.00	1162.35
100	0.00	0.00	1366.09	0.00	1162.35
101	0.00	0.00	1366.09	0.00	1162.35
102	0.00	0.00	1366.09	0.00	1162.35
103	0.00	0.00	1366.09	0.00	1162.35
104	0.00	0.00	1366.09	0.00	1162.35
105	0.00	0.00	1366.09	0.00	1162.35
106	0.00	0.00	1366.09	0.00	1162.35
107	0.00	0.00	1366.09	0.00	1162.35
108	0.00	0.00	1366.09	0.00	1162.35
109	0.00	0.00	1366.09	0.00	1162.35
110	0.00	0.00	1366.09	0.00	1162.35
111	0.00	0.00	1366.09	0.00	1162.35
112	0.00	0.00	1366.09	0.00	1162.35
113	0.00	0.00	1366.09	0.00	1162.35
114	0.00	0.00	1366.09	0.00	1162.35
115	0.00	0.00	1366.09	0.00	1162.35
116	0.00	0.00	1366.09	0.00	1162.35
117	0.00	0.00	1366.09	0.00	1162.35
118	0.00	0.00	1366.09	0.00	1162.35
119	0.00	0.00	1366.09	0.00	1162.35
120	0.00	0.00	1366.09	0.00	1162.35
121	0.00	0.00	1366.09	0.00	1162.35
122	0.00	0.00	1366.09	0.00	1162.35

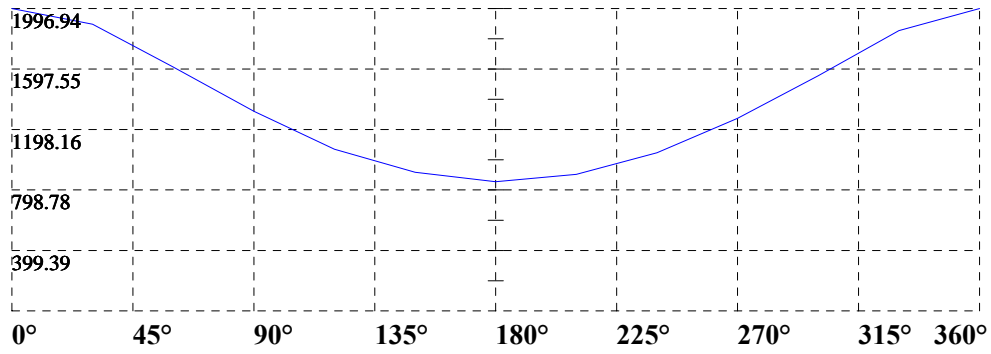
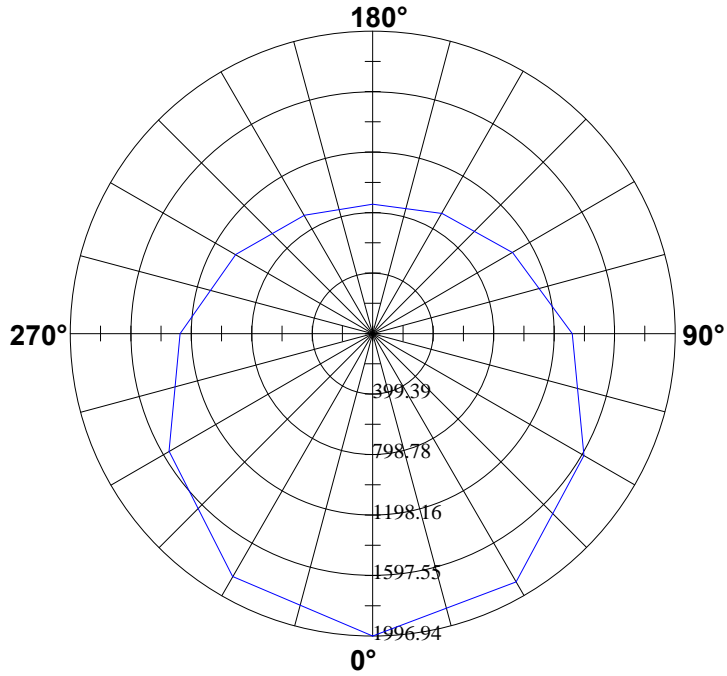
Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
123	0.00	0.00	1366.09	0.00	1162.35
124	0.00	0.00	1366.09	0.00	1162.35
125	0.00	0.00	1366.09	0.00	1162.35
126	0.00	0.00	1366.09	0.00	1162.35
127	0.00	0.00	1366.09	0.00	1162.35
128	0.00	0.00	1366.09	0.00	1162.35
129	0.11	0.00	1366.09	0.00	1162.35
130	0.21	0.01	1366.10	0.00	1162.35
131	0.32	0.02	1366.13	0.00	1162.35
132	0.46	0.03	1366.16	0.00	1162.35
133	0.60	0.04	1366.20	0.00	1162.35
134	0.82	0.06	1366.26	0.00	1162.35
135	1.03	0.07	1366.33	0.00	1162.35
136	1.35	0.09	1366.42	0.00	1162.35
137	1.56	0.11	1366.53	0.00	1162.35
138	1.81	0.12	1366.66	0.00	1162.35
139	2.13	0.14	1366.80	0.00	1162.35
140	2.52	0.17	1366.96	0.00	1162.35
141	2.77	0.18	1367.15	0.00	1162.35
142	3.16	0.20	1367.35	0.00	1162.35
143	3.44	0.22	1367.57	0.00	1162.35
144	3.90	0.24	1367.81	0.00	1162.35
145	4.37	0.26	1368.08	0.00	1162.35
146	4.79	0.28	1368.36	0.00	1162.35
147	5.22	0.30	1368.66	0.00	1162.35
148	5.57	0.32	1368.98	0.00	1162.35
149	6.21	0.34	1369.32	0.00	1162.35
150	6.53	0.35	1369.67	0.00	1162.35
151	6.99	0.37	1370.04	0.00	1162.35
152	7.45	0.38	1370.42	0.00	1162.35
153	7.99	0.39	1370.81	0.00	1162.35
154	8.52	0.40	1371.21	0.00	1162.35
155	9.09	0.42	1371.63	0.00	1162.35
156	9.69	0.43	1372.05	0.00	1162.35
157	10.12	0.43	1372.49	0.00	1162.35
158	10.72	0.44	1372.92	0.00	1162.35
159	11.18	0.44	1373.36	0.00	1162.35
160	11.61	0.44	1373.80	0.00	1162.35
161	12.00	0.43	1374.23	0.00	1162.35
162	12.46	0.43	1374.66	0.00	1162.35
163	12.85	0.42	1375.08	0.00	1162.35

Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
164	13.28	0.41	1375.48	0.00	1162.35
165	13.63	0.39	1375.88	0.00	1162.35
166	14.02	0.38	1376.26	0.00	1162.35
167	14.38	0.36	1376.62	0.00	1162.35
168	14.52	0.34	1376.96	0.00	1162.35
169	14.73	0.32	1377.28	0.00	1162.35
170	15.05	0.30	1377.58	0.00	1162.35
171	15.16	0.27	1377.85	0.00	1162.35
172	15.37	0.25	1378.10	0.00	1162.35
173	15.62	0.22	1378.32	0.00	1162.35
174	15.69	0.19	1378.52	0.00	1162.35
175	15.97	0.17	1378.68	0.00	1162.35
176	16.08	0.14	1378.82	0.00	1162.35
177	16.26	0.11	1378.93	0.00	1162.35
178	16.47	0.08	1379.01	0.00	1162.35
179	16.47	0.05	1379.05	0.00	1162.35
180	16.54	0.02	1379.07	0.00	1162.35



Light Distribution Curve (Linear)

(cd) | C0/C180: — C90/C270: — C0: —



Light Distribution Curve (Linear)

(cd) | γ 12: —

Unit: [lx]

5.

498.74 (100%Emax)

449.31 (90%Emax)

399.39 (80%Emax)

349.46 (70%Emax)

299.54 (60%Emax)

249.62 (50%Emax)

199.69 (40%Emax)

149.77 (30%Emax)

99.85 (20%Emax)

49.92 (10%Emax)

4.

3.

2.

1.

0.

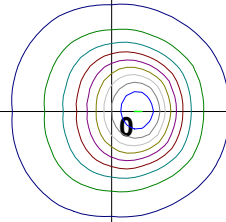
1.

2.

3.

4.

5.



5.

4.

3.

2.

1.

0.

1.

2.

3.

4.

5.

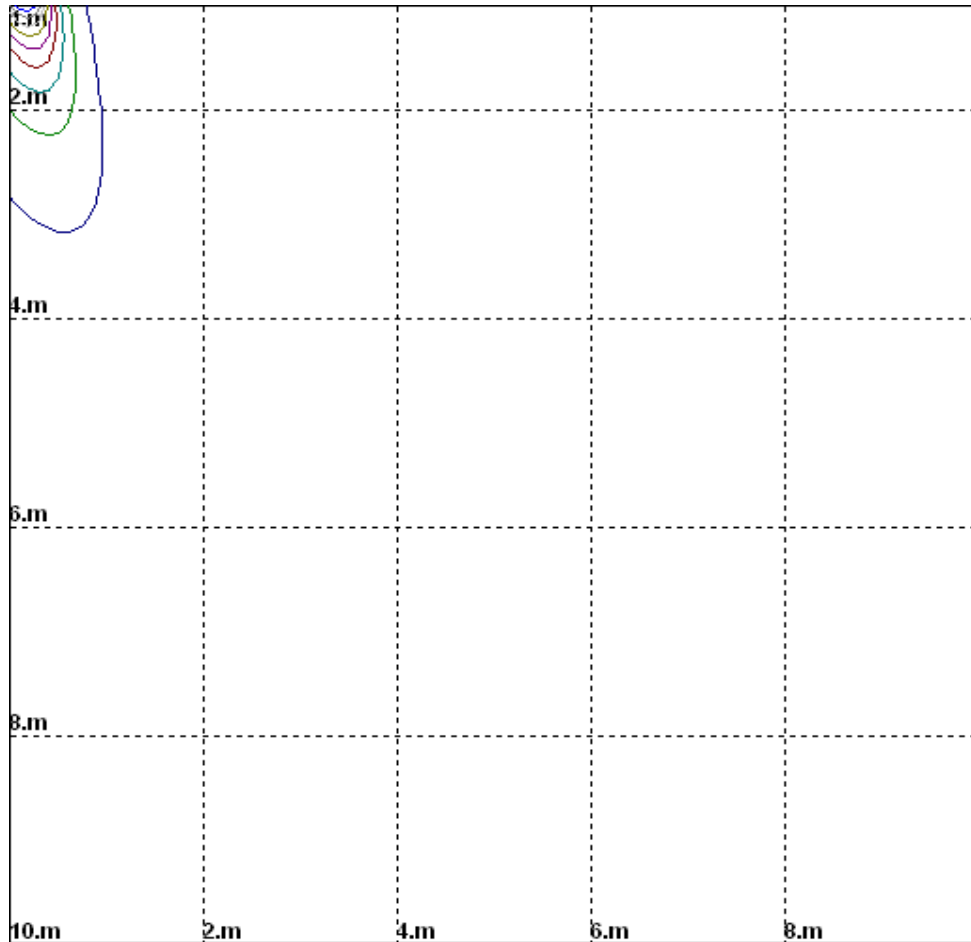
Coordinate Scale: d/h

Height: 2 m

Max Illuminance : 499.23lx

Unit: [lx]
Illuminance

- 498.74
- 449.31
- 399.39
- 349.46
- 299.54
- 249.62
- 199.69
- 149.77
- 99.85
- 49.92



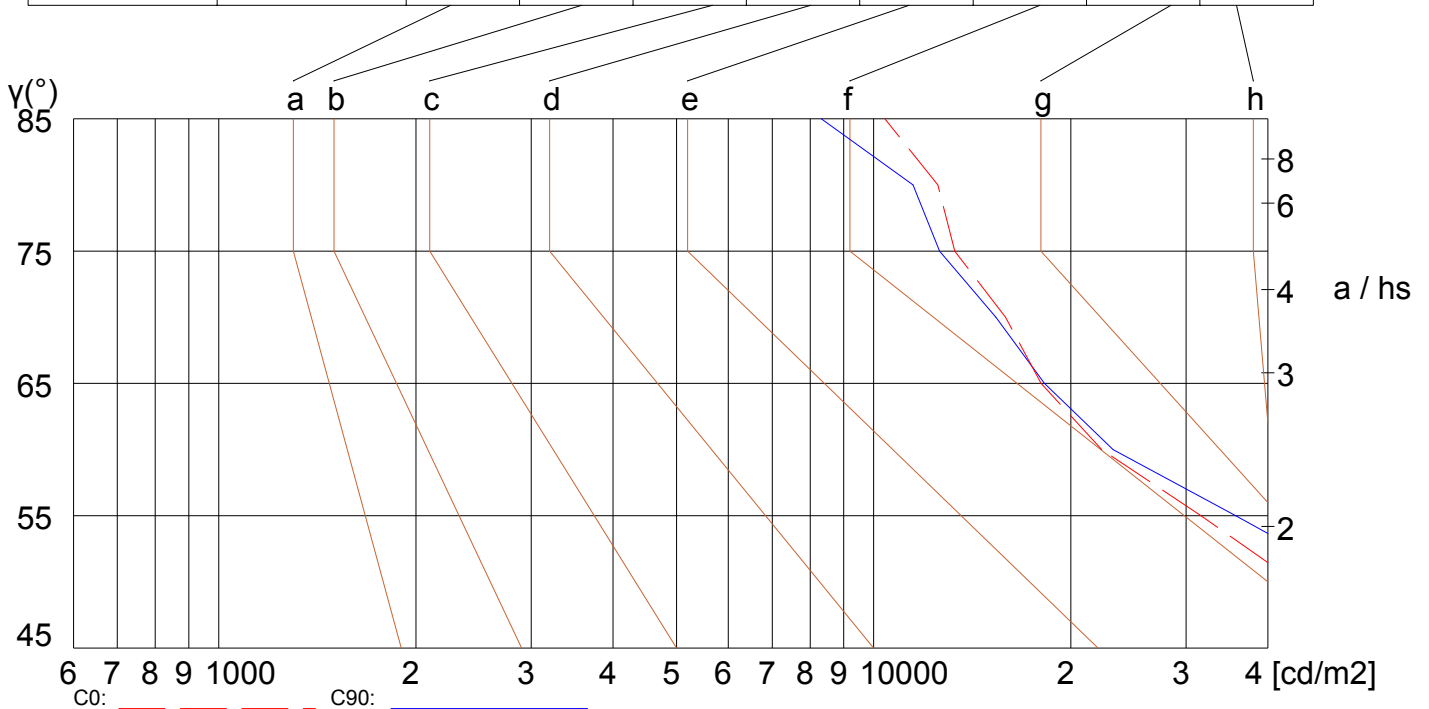
Luminance Limiting Curve (There is not luminous side)

Diameter: 77mm
 Length: -77mm
 Width: -77mm
 Height: 80mm

(cd/m²)

γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	57421	43427	31602	22295	18014	15899	13307	12526	10399
C90	73443	51746	35711	23202	18228	15369	12606	11482	8319

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)

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	0.80	0.80	0.80	0.79	0.79	0.79	0.75	0.75	0.75	0.72	0.72	0.72	0.69	0.69	0.69	0.68
1	0.76	0.75	0.74	0.75	0.74	0.73	0.72	0.71	0.70	0.68	0.67	0.66	0.63	0.62	0.61	0.58
2	0.69	0.68	0.68	0.68	0.67	0.66	0.66	0.65	0.63	0.63	0.62	0.60	0.59	0.58	0.56	0.53
3	0.64	0.62	0.62	0.63	0.61	0.60	0.61	0.59	0.58	0.59	0.57	0.55	0.56	0.53	0.51	0.48
4	0.59	0.57	0.57	0.58	0.56	0.55	0.57	0.54	0.53	0.55	0.52	0.50	0.52	0.49	0.47	0.44
5	0.54	0.53	0.52	0.54	0.52	0.51	0.53	0.50	0.49	0.51	0.48	0.46	0.49	0.46	0.43	0.41
6	0.50	0.49	0.48	0.50	0.48	0.47	0.49	0.47	0.45	0.48	0.45	0.43	0.46	0.43	0.40	0.38
7	0.47	0.46	0.45	0.47	0.45	0.44	0.46	0.43	0.42	0.45	0.42	0.40	0.44	0.40	0.37	0.35
8	0.44	0.43	0.42	0.44	0.42	0.41	0.43	0.41	0.39	0.42	0.39	0.37	0.41	0.38	0.35	0.33
9	0.41	0.40	0.39	0.41	0.39	0.38	0.41	0.38	0.37	0.40	0.37	0.35	0.39	0.35	0.33	0.31
10	0.39	0.38	0.37	0.39	0.37	0.36	0.38	0.36	0.34	0.38	0.35	0.33	0.37	0.34	0.31	0.29

