

HALCYON S216 CRI90 3000K 24D

Luminaire Name: S216 CRI90 3000K 24D

Report NO.: 01314521010702A

Test NO.:

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

Sum Lumens: 2040.98 lm

Number of Lamps: 1

Diameter: 76mm

Length: -76mm

Photometric Type: Type C

Voltage: 229.79 V

Current: 0.0886 A

Power: 19.607 W

Power Factor: 0.9632

Ballast Type: HEP LNTC20W500LRP

Width: -76mm

Height: 145mm

Optical Component: 24D Lens DC(V:35.12V I:0.478A P:16.79W)

Photometric Results

Lumens: 1530.79 lm

Efficiency: 75%

Central Intensity: 5196.474cd

Maximum Intensity: 5211.215cd

Beam Angle(10%): Left: -27.4 Right:26.1

Maximum s/h: C0_180: 0.2 C90_270: 0.21

Effective Luminous Flux: 1082.48 lm

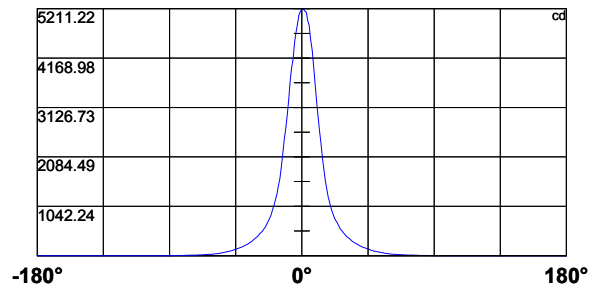
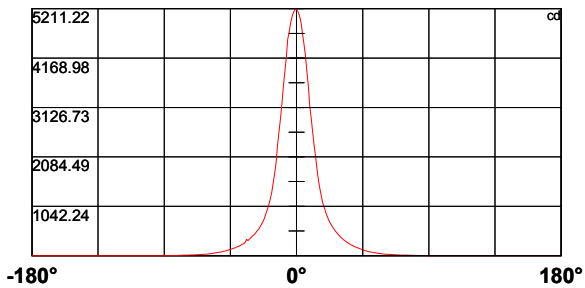
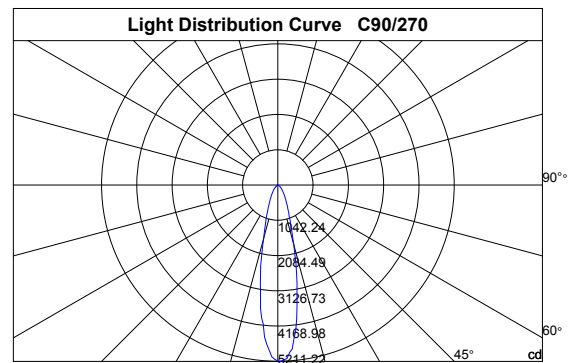
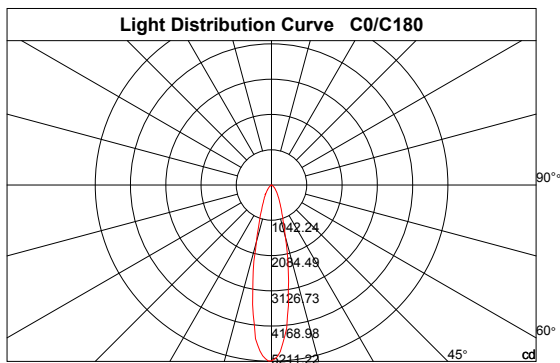
Angle of maximum intensity: C:120.0 G:1.0

Half Peak Side Angle(50%): Left: -12.1 Right:11.4

Up Flux Rate: 0.0%

Down Flux Rate: 75.0%

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	5196.5	5139.9	5062.5	4928.5	4699.0	4481.6	4250.4	3884.3	3584.4	3149.6
30.0	5196.5	5193.2	5141.6	5063.4	4871.8	4694.7	4470.4	4185.1	3865.4	3563.8
60.0	5196.5	5201.8	5190.6	5048.8	4923.3	4785.0	4503.1	4253.9	3872.3	3574.1
90.0	5196.5	5208.6	5160.5	5136.5	4961.1	4858.0	4561.5	4331.2	3989.2	3622.2
120.0	5196.5	5211.2	5172.5	5087.5	4961.1	4801.3	4531.5	4270.2	3994.3	3699.6
150.0	5196.5	5205.2	5175.1	5108.1	4937.1	4738.6	4524.6	4273.6	3952.2	3640.3
180.0	5196.5	5198.3	5138.2	5052.2	4917.3	4738.6	4561.5	4163.6	3873.2	3568.1
210.0	5196.5	5155.4	5075.4	4925.9	4785.0	4498.8	4251.3	3981.5	3581.9	3250.1
240.0	5196.5	5138.2	5000.7	4845.1	4596.8	4499.7	4220.4	3861.1	3553.5	3307.7
270.0	5196.5	5150.2	5080.6	4888.1	4716.2	4507.4	4131.8	3957.4	3677.2	3282.8
300.0	5196.5	5147.6	5021.3	4883.8	4614.8	4466.1	4216.9	3890.4	3632.6	3322.3
330.0	5196.5	5128.7	5028.2	4884.7	4710.2	4437.8	4185.1	3913.6	3569.8	3218.3
360.0	5196.5	5139.9	5062.5	4928.5	4699.0	4481.6	4250.4	3884.3	3584.4	3149.6

C\γ	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	2898.7	2604.7	2328.9	2075.4	1805.5	1572.6	1401.6	1240.9	1098.3	999.4
30.0	3234.7	2977.7	2555.8	2234.4	1945.6	1728.2	1596.7	1440.3	1180.8	1066.5
60.0	3321.5	2927.9	2582.4	2303.1	2047.9	1767.7	1535.7	1369.0	1271.9	1077.6
90.0	3266.5	2958.8	2652.9	2366.7	2052.2	1818.4	1577.8	1405.1	1234.1	1108.6
120.0	3294.8	2976.0	2774.9	2396.8	2135.5	1821.0	1615.6	1421.4	1271.0	1100.0
150.0	3332.6	3023.3	2650.3	2316.9	2056.5	1784.9	1577.8	1373.3	1225.5	1079.4
180.0	3202.0	2893.5	2591.9	2305.7	1943.9	1720.5	1524.5	1329.4	1181.6	1062.2
210.0	2998.3	2655.5	2371.0	2113.2	1810.7	1612.2	1399.1	1277.9	1154.1	1012.3
240.0	2921.0	2738.0	2422.6	2175.9	1898.3	1701.6	1526.2	1350.9	1222.9	1113.7
270.0	2969.1	2689.0	2441.5	2145.0	1872.6	1621.6	1479.8	1303.7	1177.3	1063.0
300.0	2927.0	2637.4	2334.0	2080.5	1717.0	1587.3	1413.7	1240.9	1108.6	1003.7
330.0	2843.7	2555.8	2282.5	2034.1	1805.5	1587.3	1361.2	1216.0	1092.3	991.7
360.0	2898.7	2604.7	2328.9	2075.4	1805.5	1572.6	1401.6	1240.9	1098.3	999.4

C\γ	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	895.5	821.6	745.9	688.4	634.2	580.1	538.8	495.0	459.8	422.8
30.0	969.4	887.7	800.9	746.8	672.0	629.1	569.8	530.2	493.3	455.5
60.0	978.0	892.9	776.0	711.6	684.1	626.5	581.8	541.4	495.9	456.3
90.0	984.8	898.0	811.2	746.8	706.4	632.5	571.5	531.1	492.4	458.9
120.0	1026.9	898.0	831.9	737.3	678.0	627.3	566.3	525.1	487.3	452.9
150.0	972.8	881.7	792.3	711.6	656.6	606.7	556.0	508.7	473.5	456.3
180.0	963.4	877.4	780.3	717.6	654.8	599.0	552.6	513.0	470.9	437.4
210.0	927.3	849.9	767.4	709.0	649.7	603.3	548.3	510.5	475.2	443.4
240.0	986.6	903.2	830.2	755.4	699.5	646.2	593.0	550.0	501.0	465.8
270.0	967.7	859.4	789.8	727.9	656.6	596.4	560.3	507.9	484.7	451.2
300.0	912.7	811.2	728.7	691.8	639.4	578.4	535.4	497.6	462.3	420.2
330.0	876.6	801.8	725.3	678.9	620.5	576.6	534.5	488.1	447.7	416.8
360.0	895.5	821.6	745.9	688.4	634.2	580.1	538.8	495.0	459.8	422.8

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	390.2	363.5	332.6	310.2	287.9	269.0	249.2	229.5	213.1	199.4
30.0	424.5	394.5	367.8	342.0	312.0	291.3	269.0	251.8	236.3	216.6
60.0	426.2	397.0	362.7	342.9	318.8	290.5	271.6	250.1	241.5	218.3
90.0	417.7	389.3	363.5	338.6	307.7	287.9	269.8	251.8	238.0	216.6
120.0	416.8	383.3	357.5	332.6	305.1	283.6	265.5	246.6	225.2	209.7
150.0	409.1	372.1	346.3	323.1	293.9	274.1	255.2	244.1	219.1	204.5
180.0	417.7	377.3	349.8	318.8	341.2	276.7	254.4	237.2	221.7	202.8
210.0	406.5	379.0	353.2	326.6	304.2	277.6	261.2	243.2	221.7	208.0
240.0	433.1	393.6	367.0	334.3	315.4	293.9	270.7	252.7	235.5	214.8
270.0	410.8	382.4	355.8	330.9	302.5	281.9	264.7	238.9	226.0	211.4
300.0	391.0	364.4	330.0	310.2	288.7	269.0	250.9	228.6	213.1	198.5
330.0	388.4	361.8	329.1	307.7	286.2	266.4	243.2	226.9	211.4	197.7
360.0	390.2	363.5	332.6	310.2	287.9	269.0	249.2	229.5	213.1	199.4

C\γ	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	185.6	173.6	159.8	147.8	137.5	126.3	114.3	104.0	96.2	86.8
30.0	202.8	187.3	176.2	161.6	151.2	140.9	122.9	116.0	106.6	98.0
60.0	202.0	189.1	177.0	162.4	154.7	142.7	127.2	118.6	110.0	97.1
90.0	202.8	184.8	173.6	162.4	152.1	138.4	128.0	118.6	108.3	98.8
120.0	196.8	182.2	170.2	159.0	147.8	136.6	127.2	117.7	107.4	98.0
150.0	190.8	174.5	164.1	153.8	143.5	131.5	122.0	113.4	104.0	96.2
180.0	189.1	178.7	165.0	153.0	142.7	133.2	121.2	112.6	104.0	96.2
210.0	194.2	179.6	168.4	158.1	144.4	134.9	124.6	115.2	103.1	95.4
240.0	201.1	188.2	174.5	159.0	152.1	139.2	128.9	119.5	107.4	99.7
270.0	193.4	180.5	169.3	157.3	145.2	134.9	124.6	112.6	103.1	95.4
300.0	185.6	170.2	159.0	149.5	139.2	126.3	116.9	107.4	95.4	88.5
330.0	180.5	168.4	158.1	148.7	134.1	123.7	114.3	101.4	94.5	86.8
360.0	185.6	173.6	159.8	147.8	137.5	126.3	114.3	104.0	96.2	86.8

C\γ	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	80.8	74.8	67.9	63.6	58.4	53.3	49.0	43.8	39.5	36.1
30.0	89.4	81.6	76.5	69.6	63.6	57.6	52.4	46.4	42.1	38.7
60.0	89.4	81.6	77.3	71.3	66.2	58.4	53.3	48.1	43.8	39.5
90.0	91.1	85.1	77.3	73.0	67.9	60.2	53.3	49.0	43.8	40.4
120.0	90.2	84.2	76.5	71.3	66.2	60.2	52.4	48.1	43.8	38.7
150.0	89.4	80.8	74.8	69.6	65.3	59.3	53.3	48.1	43.8	39.5
180.0	89.4	81.6	75.6	71.3	65.3	59.3	55.9	49.0	43.8	40.4
210.0	87.7	80.8	73.0	68.8	61.0	56.7	51.6	46.4	42.1	37.0
240.0	89.4	82.5	76.5	68.8	64.5	57.6	52.4	47.3	43.0	38.7
270.0	88.5	81.6	75.6	68.8	63.6	55.9	50.7	47.3	42.1	37.8
300.0	82.5	76.5	69.6	64.5	58.4	52.4	48.1	43.8	38.7	35.2
330.0	80.8	74.8	67.9	62.7	57.6	52.4	47.3	43.8	39.5	35.2
360.0	80.8	74.8	67.9	63.6	58.4	53.3	49.0	43.8	39.5	36.1

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	32.7	30.1	27.5	25.8	24.1	22.3	20.6	19.8	18.9	17.2
30.0	35.2	0.0	29.2	26.6	25.8	24.1	22.3	19.8	18.9	18.0
60.0	35.2	31.8	30.1	27.5	25.8	24.1	22.3	19.8	19.8	18.0
90.0	37.0	32.7	30.1	28.4	25.8	24.1	22.3	20.6	18.9	18.0
120.0	35.2	32.7	29.2	27.5	25.8	24.1	22.3	20.6	18.9	18.0
150.0	36.1	32.7	29.2	27.5	25.8	24.1	22.3	20.6	18.9	18.0
180.0	36.1	33.5	30.1	27.5	25.8	23.2	22.3	20.6	18.9	18.0
210.0	32.7	30.9	28.4	26.6	24.1	22.3	20.6	19.8	18.9	17.2
240.0	35.2	31.8	29.2	26.6	24.9	24.1	21.5	19.8	18.9	18.0
270.0	34.4	30.9	29.2	26.6	24.9	23.2	21.5	19.8	18.9	17.2
300.0	31.8	29.2	27.5	25.8	24.1	22.3	20.6	19.8	18.0	17.2
330.0	31.8	29.2	27.5	24.9	24.1	22.3	20.6	19.8	18.0	17.2
360.0	32.7	30.1	27.5	25.8	24.1	22.3	20.6	19.8	18.9	17.2

C\γ	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	15.5	13.8	12.9	11.2	10.3	9.5	9.5	7.7	7.7	6.9
30.0	16.3	15.5	13.8	12.0	11.2	9.5	9.5	8.6	7.7	6.0
60.0	16.3	15.5	13.8	12.0	11.2	9.5	9.5	8.6	7.7	6.9
90.0	16.3	15.5	13.8	12.0	11.2	10.3	9.5	8.6	7.7	6.9
120.0	16.3	15.5	13.8	12.9	11.2	10.3	9.5	8.6	7.7	6.9
150.0	17.2	15.5	13.8	12.9	11.2	10.3	9.5	8.6	7.7	7.7
180.0	17.2	15.5	14.6	12.9	11.2	10.3	9.5	9.5	8.6	7.7
210.0	15.5	14.6	12.9	12.0	11.2	9.5	9.5	8.6	7.7	6.9
240.0	16.3	14.6	12.9	12.0	11.2	9.5	9.5	8.6	7.7	6.9
270.0	15.5	14.6	12.9	12.0	10.3	9.5	9.5	8.6	7.7	6.9
300.0	15.5	14.6	12.9	11.2	10.3	9.5	8.6	8.6	6.9	6.0
330.0	15.5	13.8	12.9	11.2	10.3	9.5	8.6	8.6	6.9	6.0
360.0	15.5	13.8	12.9	11.2	10.3	9.5	9.5	7.7	7.7	6.9

C\γ	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.0	5.2	4.3	4.3	3.4	2.6	2.6	1.7	0.9	0.9
30.0	6.0	5.2	5.2	4.3	3.4	2.6	2.6	1.7	0.9	0.0
60.0	6.0	6.0	5.2	4.3	4.3	2.6	2.6	1.7	0.9	0.9
90.0	6.0	6.0	5.2	4.3	4.3	3.4	2.6	2.6	0.9	0.9
120.0	6.9	6.0	5.2	4.3	4.3	3.4	2.6	1.7	1.7	0.9
150.0	6.9	6.0	5.2	4.3	4.3	3.4	2.6	2.6	1.7	0.9
180.0	6.9	6.0	5.2	5.2	4.3	3.4	2.6	2.6	1.7	0.9
210.0	6.0	5.2	4.3	4.3	3.4	2.6	1.7	1.7	0.9	0.0
240.0	6.0	5.2	5.2	4.3	3.4	2.6	1.7	1.7	0.9	0.9
270.0	6.0	5.2	4.3	4.3	3.4	2.6	1.7	1.7	0.9	0.9
300.0	6.0	5.2	4.3	4.3	3.4	2.6	2.6	1.7	0.9	0.9
330.0	6.0	5.2	4.3	4.3	3.4	2.6	2.6	1.7	0.9	0.9
360.0	6.0	5.2	4.3	4.3	3.4	2.6	2.6	1.7	0.9	0.9

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	0.0
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	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	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	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	160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0
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	170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
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]

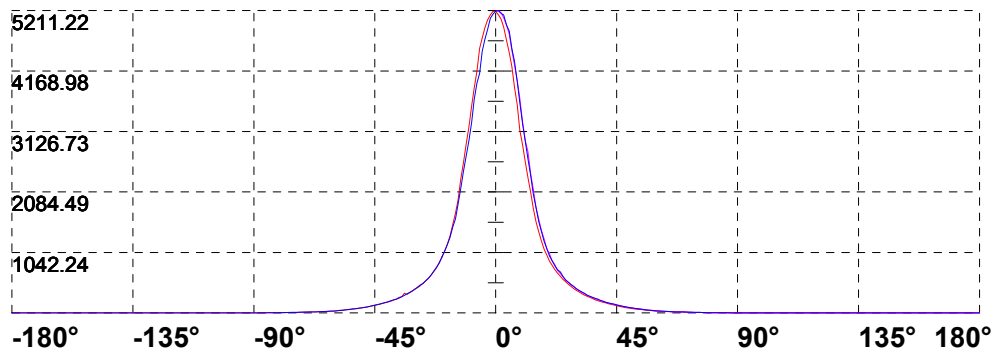
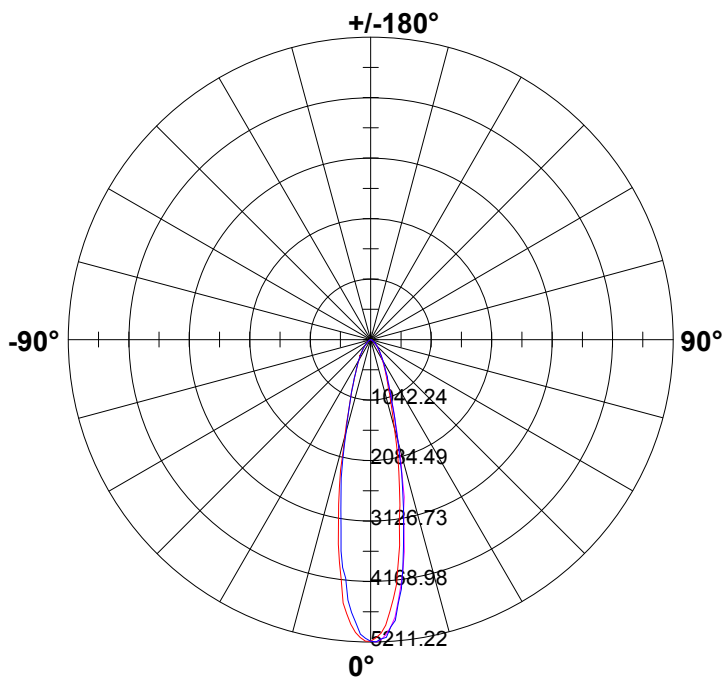
C\γ	180.0
0.0	0.0
30.0	0.0
60.0	0.0
90.0	0.0
120.0	0.0
150.0	0.0
180.0	0.0
210.0	0.0
240.0	0.0
270.0	0.0
300.0	0.0
330.0	0.0
360.0	0.0

Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
0	5196.47	0.00	0.00	0.00	0.00
1	5173.19	4.96	4.96	4.96	4.96
2	5103.94	14.75	19.71	14.75	19.71
3	4987.71	24.14	43.85	24.14	43.85
4	4807.81	32.79	76.64	32.79	76.64
5	4625.63	40.58	117.22	40.58	117.22
6	4367.39	47.26	164.48	47.26	164.48
7	4080.50	52.44	216.92	52.44	216.92
8	3762.18	56.13	273.04	56.13	273.04
9	3433.25	58.32	331.36	58.32	331.36
10	3100.82	59.13	390.49	59.13	390.49
11	2803.12	58.99	449.48	58.99	449.48
12	2499.05	57.96	507.44	57.96	507.44
13	2212.30	55.91	563.36	55.91	563.36
14	1924.27	52.95	616.30	52.95	616.30
15	1693.60	49.67	665.97	49.67	665.97
16	1500.82	46.81	712.78	46.81	712.78
17	1330.73	44.09	756.87	44.09	756.87
18	1184.86	41.48	798.35	41.48	798.35
19	1056.52	39.00	837.34	39.00	837.34
20	955.12	36.82	874.16	36.82	874.16
21	865.24	34.95	909.12	34.95	909.12
22	781.67	33.10	942.21	33.10	942.21
23	718.58	31.48	973.69	31.48	973.69
24	662.65	30.20	1003.89	30.20	1003.89
25	608.51	28.90	1032.79	28.90	1032.79
26	559.02	27.56	1060.35	27.56	1060.35
27	516.55	26.31	1086.67	22.12	1082.48
28	478.67	25.20	1111.87	0.00	1082.48
29	444.80	24.16	1136.03	0.00	1082.48
30	410.99	23.11	1159.13	0.00	1082.48
31	379.84	22.01	1181.14	0.00	1082.48
32	351.27	20.95	1202.08	0.00	1082.48
33	326.49	19.97	1222.05	0.00	1082.48
34	305.29	19.12	1241.17	0.00	1082.48
35	280.15	18.18	1259.35	0.00	1082.48
36	260.46	17.21	1276.57	0.00	1082.48
37	241.77	16.38	1292.95	0.00	1082.48
38	225.23	15.59	1308.53	0.00	1082.48
39	208.18	14.79	1323.33	0.00	1082.48
40	193.72	14.02	1337.34	0.00	1082.48

Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
41	179.75	13.30	1350.64	0.00	1082.48
42	167.94	12.63	1363.27	0.00	1082.48
43	156.05	12.00	1375.28	0.00	1082.48
44	145.38	11.38	1386.65	0.00	1082.48
45	134.06	10.74	1397.39	0.00	1082.48
46	122.68	10.04	1407.43	0.00	1082.48
47	113.08	9.38	1416.81	0.00	1082.48
48	103.34	8.75	1425.56	0.00	1082.48
49	94.75	8.13	1433.69	0.00	1082.48
50	87.37	7.59	1441.29	0.00	1082.48
51	80.49	7.10	1448.39	0.00	1082.48
52	74.05	6.63	1455.02	0.00	1082.48
53	68.61	6.21	1461.22	0.00	1082.48
54	63.16	5.81	1467.03	0.00	1082.48
55	56.93	5.36	1472.39	0.00	1082.48
56	51.63	4.91	1477.30	0.00	1082.48
57	46.76	4.50	1481.80	0.00	1082.48
58	42.18	4.11	1485.91	0.00	1082.48
59	38.10	3.75	1489.66	0.00	1082.48
60	34.45	3.43	1493.09	0.00	1082.48
61	28.79	3.02	1496.11	0.00	1082.48
62	28.93	2.78	1498.89	0.00	1082.48
63	26.78	2.71	1501.60	0.00	1082.48
64	25.06	2.54	1504.15	0.00	1082.48
65	23.35	2.40	1506.54	0.00	1082.48
66	21.63	2.24	1508.78	0.00	1082.48
67	20.05	2.10	1510.88	0.00	1082.48
68	18.83	1.97	1512.85	0.00	1082.48
69	17.69	1.86	1514.71	0.00	1082.48
70	16.11	1.74	1516.45	0.00	1082.48
71	14.90	1.60	1518.05	0.00	1082.48
72	13.39	1.47	1519.52	0.00	1082.48
73	12.03	1.33	1520.85	0.00	1082.48
74	10.89	1.20	1522.06	0.00	1082.48
75	9.74	1.09	1523.15	0.00	1082.48
76	9.31	1.01	1524.16	0.00	1082.48
77	8.59	0.95	1525.11	0.00	1082.48
78	7.66	0.87	1525.98	0.00	1082.48
79	6.80	0.78	1526.76	0.00	1082.48
80	6.23	0.70	1527.46	0.00	1082.48
81	5.51	0.64	1528.10	0.00	1082.48

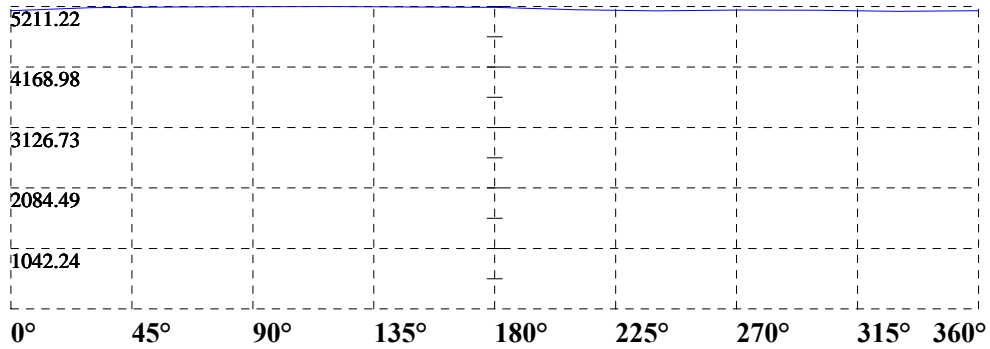
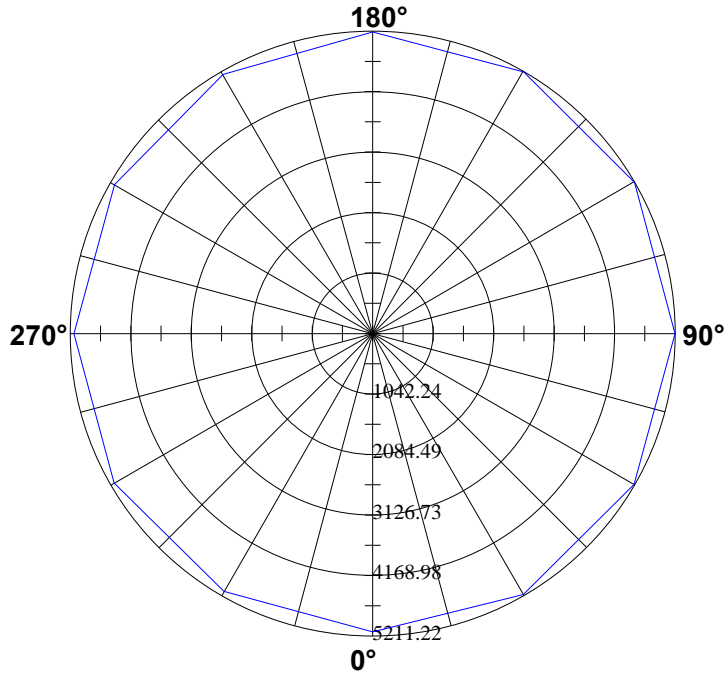
Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
82	4.80	0.56	1528.66	0.00	1082.48
83	4.37	0.50	1529.16	0.00	1082.48
84	3.80	0.44	1529.60	0.00	1082.48
85	2.86	0.36	1529.96	0.00	1082.48
86	2.36	0.29	1530.25	0.00	1082.48
87	1.93	0.24	1530.48	0.00	1082.48
88	1.07	0.16	1530.65	0.00	1082.48
89	0.72	0.10	1530.75	0.00	1082.48
90	0.00	0.04	1530.79	0.00	1082.48
91	0.00	0.00	1530.79	0.00	1082.48
92	0.00	0.00	1530.79	0.00	1082.48
93	0.00	0.00	1530.79	0.00	1082.48
94	0.00	0.00	1530.79	0.00	1082.48
95	0.00	0.00	1530.79	0.00	1082.48
96	0.00	0.00	1530.79	0.00	1082.48
97	0.00	0.00	1530.79	0.00	1082.48
98	0.00	0.00	1530.79	0.00	1082.48
99	0.00	0.00	1530.79	0.00	1082.48
100	0.00	0.00	1530.79	0.00	1082.48
101	0.00	0.00	1530.79	0.00	1082.48
102	0.00	0.00	1530.79	0.00	1082.48
103	0.00	0.00	1530.79	0.00	1082.48
104	0.00	0.00	1530.79	0.00	1082.48
105	0.00	0.00	1530.79	0.00	1082.48
106	0.00	0.00	1530.79	0.00	1082.48
107	0.00	0.00	1530.79	0.00	1082.48
108	0.00	0.00	1530.79	0.00	1082.48
109	0.00	0.00	1530.79	0.00	1082.48
110	0.00	0.00	1530.79	0.00	1082.48
111	0.00	0.00	1530.79	0.00	1082.48
112	0.00	0.00	1530.79	0.00	1082.48
113	0.00	0.00	1530.79	0.00	1082.48
114	0.00	0.00	1530.79	0.00	1082.48
115	0.00	0.00	1530.79	0.00	1082.48
116	0.00	0.00	1530.79	0.00	1082.48
117	0.00	0.00	1530.79	0.00	1082.48
118	0.00	0.00	1530.79	0.00	1082.48
119	0.00	0.00	1530.79	0.00	1082.48
120	0.00	0.00	1530.79	0.00	1082.48
121	0.00	0.00	1530.79	0.00	1082.48
122	0.00	0.00	1530.79	0.00	1082.48

Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
123	0.00	0.00	1530.79	0.00	1082.48
124	0.00	0.00	1530.79	0.00	1082.48
125	0.00	0.00	1530.79	0.00	1082.48
126	0.00	0.00	1530.79	0.00	1082.48
127	0.00	0.00	1530.79	0.00	1082.48
128	0.00	0.00	1530.79	0.00	1082.48
129	0.00	0.00	1530.79	0.00	1082.48
130	0.00	0.00	1530.79	0.00	1082.48
131	0.00	0.00	1530.79	0.00	1082.48
132	0.00	0.00	1530.79	0.00	1082.48
133	0.00	0.00	1530.79	0.00	1082.48
134	0.00	0.00	1530.79	0.00	1082.48
135	0.00	0.00	1530.79	0.00	1082.48
136	0.00	0.00	1530.79	0.00	1082.48
137	0.00	0.00	1530.79	0.00	1082.48
138	0.00	0.00	1530.79	0.00	1082.48
139	0.00	0.00	1530.79	0.00	1082.48
140	0.00	0.00	1530.79	0.00	1082.48
141	0.00	0.00	1530.79	0.00	1082.48
142	0.00	0.00	1530.79	0.00	1082.48
143	0.00	0.00	1530.79	0.00	1082.48
144	0.00	0.00	1530.79	0.00	1082.48
145	0.00	0.00	1530.79	0.00	1082.48
146	0.00	0.00	1530.79	0.00	1082.48
147	0.00	0.00	1530.79	0.00	1082.48
148	0.00	0.00	1530.79	0.00	1082.48
149	0.00	0.00	1530.79	0.00	1082.48
150	0.00	0.00	1530.79	0.00	1082.48
151	0.00	0.00	1530.79	0.00	1082.48
152	0.00	0.00	1530.79	0.00	1082.48
153	0.00	0.00	1530.79	0.00	1082.48
154	0.00	0.00	1530.79	0.00	1082.48
155	0.00	0.00	1530.79	0.00	1082.48
156	0.00	0.00	1530.79	0.00	1082.48
157	0.00	0.00	1530.79	0.00	1082.48
158	0.00	0.00	1530.79	0.00	1082.48
159	0.00	0.00	1530.79	0.00	1082.48
160	0.00	0.00	1530.79	0.00	1082.48
161	0.00	0.00	1530.79	0.00	1082.48
162	0.00	0.00	1530.79	0.00	1082.48
163	0.00	0.00	1530.79	0.00	1082.48



Light Distribution Curve (Linear)

(cd) | C0/C180: — C90/C270: — C120: —



Light Distribution Curve (Linear)

(cd) | γ 1: —

Unit: [lx]

5.

1301.5 (100%Emax)

1172.52 (90%Emax)

4.

1042.24 (80%Emax)

911.96 (70%Emax)

3.

781.68 (60%Emax)

651.4 (50%Emax)

521.12 (40%Emax)

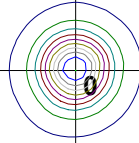
2.

390.84 (30%Emax)

260.56 (20%Emax)

1.

130.28 (10%Emax)



0.

1.

2.

3.

4.

5.

5.

4.

3.

2.

1.

0.

1.

2.

3.

4.

5.

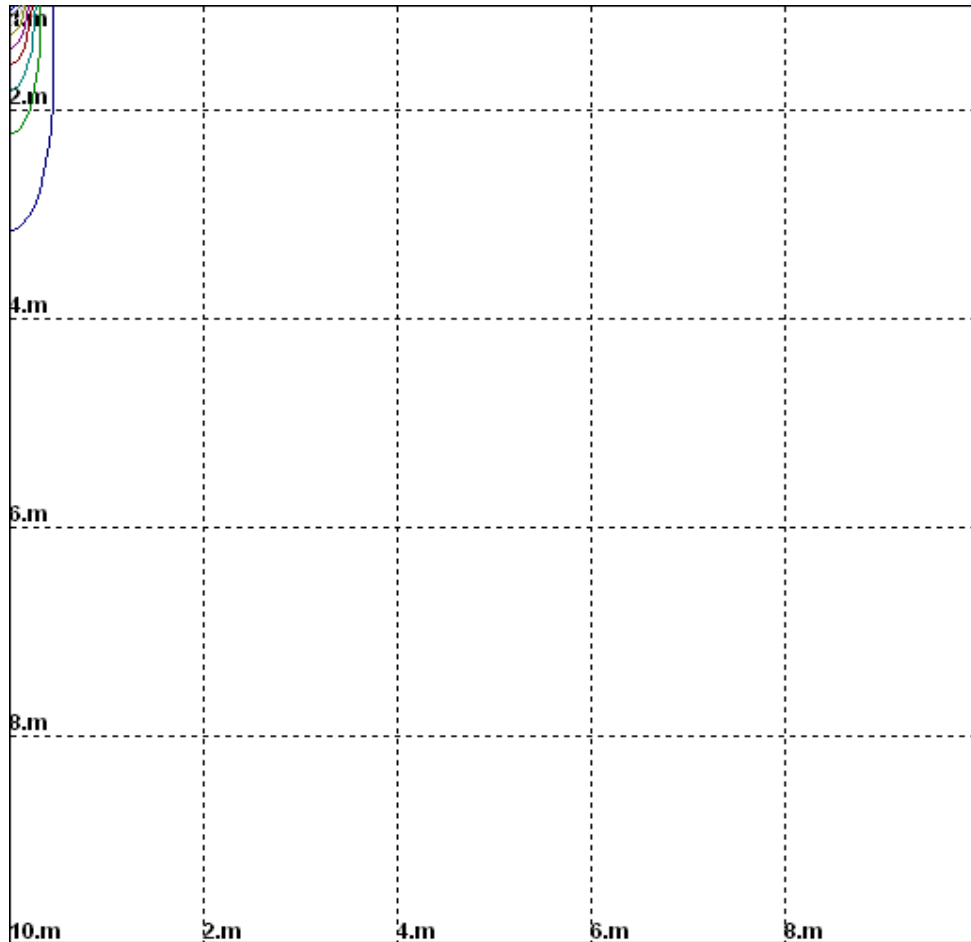
Coordinate Scale: d/h

Height: 2 m

Max Illuminance : 1302.8lx

Unit: [lx]
Illuminance

- 1301.5
- 1172.52
- 1042.24
- 911.96
- 781.68
- 651.4
- 521.12
- 390.84
- 260.56
- 130.28



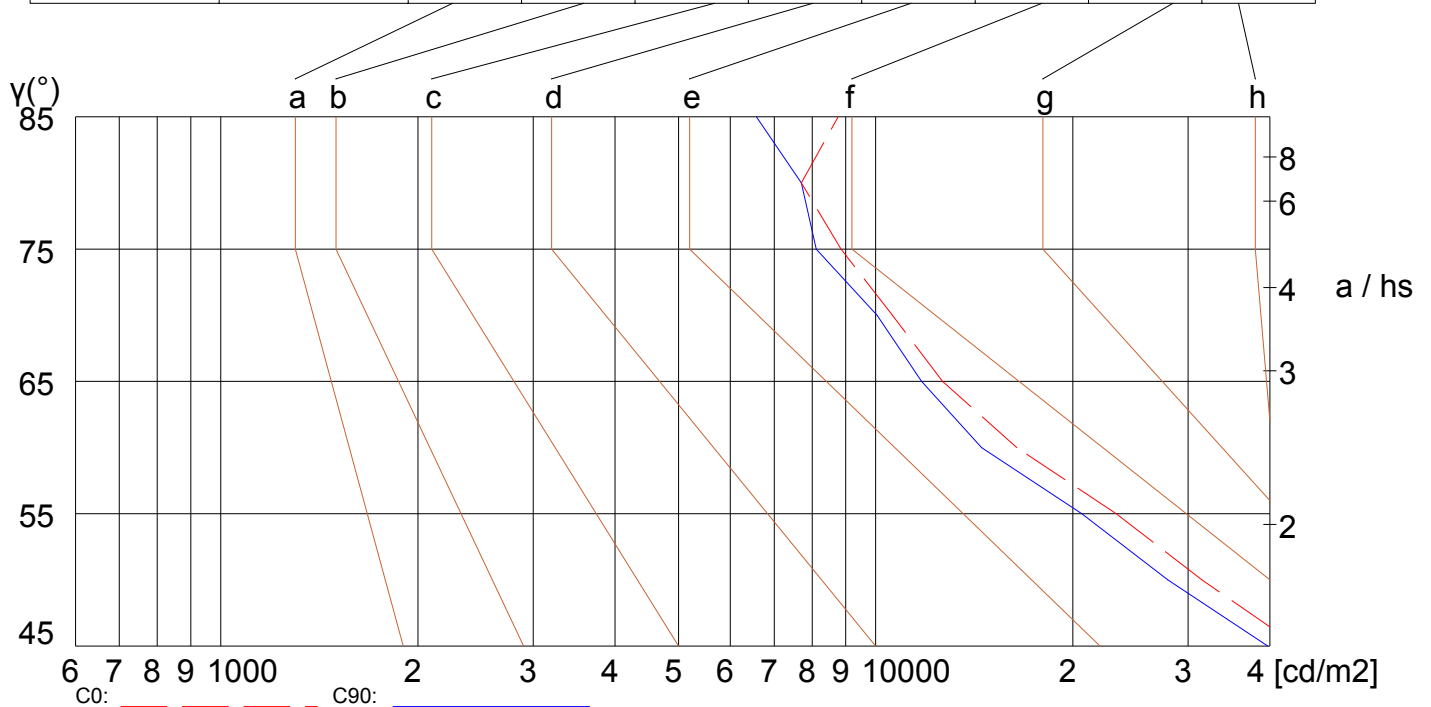
Luminance Limiting Curve (There is not luminous side)

Diameter: 76mm
 Length: -76mm
 Width: -76mm
 Height: 145mm

(cd/m²)

γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	43482	31492	23306	16424	12652	10609	8854	7699	8763
C90	39701	27927	20643	14514	11749	10051	8116	7699	6573

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	0.89	0.89	0.89	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.77	0.77	0.77	0.75
1	0.86	0.85	0.85	0.85	0.84	0.83	0.81	0.80	0.80	0.77	0.76	0.75	0.72	0.71	0.70	0.66
2	0.81	0.80	0.79	0.80	0.78	0.78	0.77	0.75	0.74	0.73	0.72	0.70	0.69	0.67	0.66	0.62
3	0.76	0.75	0.74	0.75	0.74	0.73	0.73	0.71	0.70	0.69	0.67	0.66	0.66	0.63	0.62	0.58
4	0.72	0.71	0.70	0.71	0.70	0.69	0.69	0.67	0.65	0.66	0.64	0.62	0.63	0.60	0.58	0.55
5	0.68	0.67	0.67	0.67	0.66	0.65	0.65	0.63	0.62	0.63	0.61	0.59	0.60	0.57	0.55	0.52
6	0.65	0.64	0.63	0.64	0.63	0.62	0.62	0.60	0.59	0.60	0.58	0.56	0.58	0.55	0.53	0.50
7	0.62	0.61	0.60	0.61	0.60	0.59	0.60	0.58	0.56	0.58	0.55	0.53	0.56	0.52	0.50	0.47
8	0.59	0.58	0.58	0.59	0.57	0.56	0.57	0.55	0.54	0.55	0.53	0.51	0.53	0.50	0.48	0.45
9	0.57	0.56	0.55	0.56	0.55	0.54	0.55	0.53	0.51	0.53	0.51	0.49	0.52	0.48	0.46	0.44
10	0.55	0.54	0.53	0.54	0.53	0.52	0.53	0.51	0.49	0.51	0.49	0.47	0.50	0.47	0.44	0.42

