

**HALCYON S327 CRI90 4000K 60D**

Luminaire Name: S327 CRI90 4000K (60D)

Report NO.: 01314521010719A

Test NO.:

Lamp: CITIZEN CLU038-1208C4-403H5M3 1050mA

Sum Lumens: 4592.05 lm

Number of Lamps: 1

Diameter: 111mm

Length: -111mm

Photometric Type: Type C

Voltage: 230.4 V

Current: 0.187 A

Power: 42.29 W

Power Factor: 0.9815

Ballast Type: KGP L44W700-1050T

Width: -111mm

Height: 175mm

Optical Component: 60D Reflector DC(V:35.58V I:1.045A P:37.18W)

**Photometric Results**

Lumens: 3384.87 lm

Efficiency: 73.71%

Central Intensity: 5086.011cd

Maximum Intensity: 5135.591cd

Beam Angle(10%): Left: -34.1 Right:34.5

Maximum s/h: C0\_180: 0.39 C90\_270: 0.4

Effective Luminous Flux: 2889.70 lm

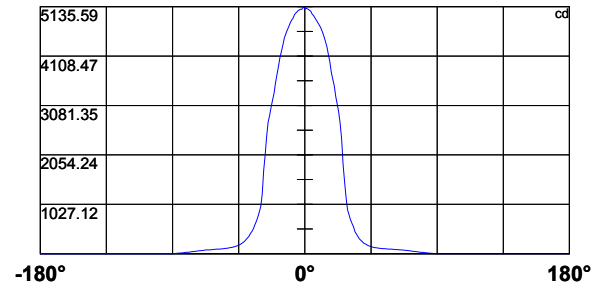
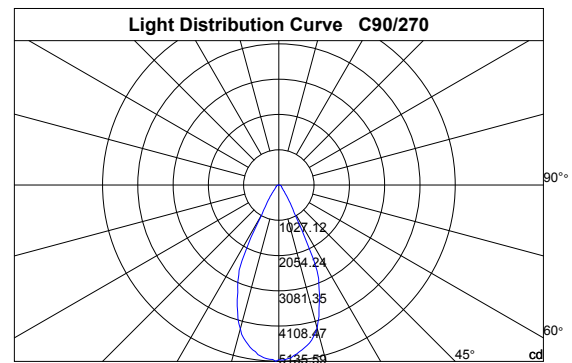
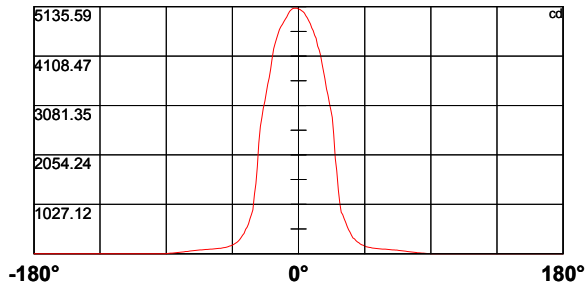
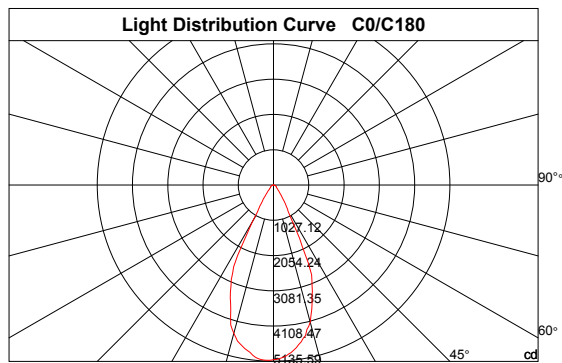
Angle of maximum intensity: C:270.0 G:1.0

Half Peak Side Angle(50%): Left: -24.6 Right:25.5

Up Flux Rate: 0.0%

Down Flux Rate: 73.71%

CIE Classification: Direct



## Intensity Data [cd]

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C\γ	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	5086.0	5076.3	5054.0	5031.6	5001.5	4946.5	4906.1	4836.5	4780.7	4694.7
30.0	5086.0	5082.3	5062.5	5044.5	5009.3	4968.0	4913.0	4866.6	4814.2	4739.4
60.0	5086.0	5091.8	5079.7	5047.9	5033.3	4986.1	4940.5	4883.8	4833.1	4784.1
90.0	5086.0	5098.6	5084.0	5061.7	5044.5	4980.9	4950.0	4890.7	4845.1	4794.4
120.0	5086.0	5088.3	5092.6	5089.2	5073.7	5086.6	5005.8	4949.1	4901.0	4852.0
150.0	5086.0	5095.2	5100.4	5101.2	5095.2	5061.7	5010.1	4958.6	4912.2	4895.8
180.0	5086.0	5100.4	5105.5	5104.7	5096.1	5074.6	5041.1	4988.6	4925.0	4876.1
210.0	5086.0	5100.4	5103.8	5107.2	5100.4	5078.9	5044.5	4998.1	4970.6	4882.9
240.0	5086.0	5098.6	5098.6	5098.6	5089.2	5062.5	5030.7	4982.6	4907.9	4855.4
270.0	5086.0	5135.6	5082.3	5079.7	5066.8	5044.5	5007.5	4974.0	4899.3	4858.9
300.0	5086.0	5088.3	5045.4	5028.2	5003.2	4969.7	4951.7	4864.0	4770.4	4730.8
330.0	5086.0	5065.1	5094.3	5027.3	4991.2	4954.3	4889.0	4841.7	4781.5	4717.9
360.0	5086.0	5076.3	5054.0	5031.6	5001.5	4946.5	4906.1	4836.5	4780.7	4694.7

C\γ	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	4636.3	4542.6	4481.6	4314.0	4241.0	4126.7	3950.5	3795.0	3638.6	3427.2
30.0	4686.1	4623.4	4514.3	4424.9	4314.0	4174.0	4039.0	3886.1	3685.8	3538.9
60.0	4524.6	4643.2	4588.2	4459.3	4387.1	4344.1	4107.8	3964.3	3777.8	3616.2
90.0	4742.9	4687.9	4609.7	4512.5	4412.0	4305.4	4144.7	3997.8	3780.4	3619.7
120.0	4733.4	4754.0	4715.4	4706.8	4590.8	4516.0	4400.8	4290.8	4148.2	4026.1
150.0	4828.8	4768.6	4729.1	4663.8	4629.4	4489.3	4375.9	4258.2	4160.2	3926.5
180.0	4827.1	4772.9	4720.5	4660.4	4566.7	4470.4	4369.0	4262.5	4049.3	3834.5
210.0	4827.1	4757.5	4711.9	4615.7	4523.7	4422.3	4277.1	4132.7	3991.8	3774.4
240.0	4798.7	4744.6	4684.4	4625.1	4495.4	4382.8	4256.5	4064.0	3929.9	3768.3
270.0	4798.7	4719.7	4647.5	4567.5	4482.5	4335.5	4209.2	4082.9	3884.3	3723.6
300.0	4671.5	4565.8	4458.4	4365.6	4216.1	4065.7	3928.2	3744.3	3577.6	3378.2
330.0	4634.6	4555.5	4455.0	4324.3	4200.6	4073.4	3856.8	3758.9	3549.2	3405.7
360.0	4636.3	4542.6	4481.6	4314.0	4241.0	4126.7	3950.5	3795.0	3638.6	3427.2

C\γ	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	3300.8	3133.3	2988.0	2834.2	2481.0	1976.5	1727.3	1321.7	1054.4	859.4
30.0	3382.5	3209.7	3047.3	2857.4	2576.4	2221.5	1620.8	1387.9	1012.3	922.1
60.0	3465.8	3238.1	3115.2	2957.9	2537.7	2291.9	1844.2	1393.0	1087.1	915.2
90.0	3491.6	3270.8	3115.2	2957.9	2730.2	2387.3	1859.7	1473.8	1158.4	912.7
120.0	3785.5	3618.8	3405.7	3018.1	3108.3	2899.5	2676.1	2349.5	1891.5	1499.6
150.0	3756.3	3593.9	3379.9	3275.1	3115.2	2897.8	2687.2	2301.4	1924.1	1545.1
180.0	3657.5	3526.0	3349.8	3168.5	3024.1	2823.0	2648.6	2298.8	1811.6	1454.9
210.0	3596.5	3440.9	3270.8	3094.6	2921.9	2825.6	2550.6	2173.3	1804.7	1446.3
240.0	3563.8	3396.2	3223.5	3051.6	2908.1	2737.1	2463.0	2120.1	1696.4	1347.5
270.0	3552.6	3341.2	3200.3	3058.5	2868.6	2739.7	2450.9	2043.6	1729.1	1239.2
300.0	3224.4	3086.0	2907.2	2740.5	2427.7	2125.2	1661.2	1302.8	989.1	869.7
330.0	3244.1	3083.4	2937.3	2813.6	2441.5	2073.7	1690.4	1172.2	1019.2	898.0
360.0	3300.8	3133.3	2988.0	2834.2	2481.0	1976.5	1727.3	1321.7	1054.4	859.4

## Intensity Data [cd]

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C\γ	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	813.0	730.5	651.4	568.0	499.3	448.6	383.3	327.4	305.9	269.8
30.0	809.5	723.6	648.0	561.2	491.6	439.1	374.7	335.2	301.6	245.8
60.0	815.5	677.2	624.8	541.4	478.7	425.4	361.8	318.0	287.0	249.2
90.0	813.8	708.1	628.2	558.6	463.2	411.6	363.5	311.1	278.4	250.9
120.0	1089.7	916.1	815.5	703.8	653.1	565.5	477.8	424.5	361.8	320.5
150.0	1120.6	932.4	839.6	719.3	641.9	583.5	488.1	439.1	375.5	330.0
180.0	1235.8	911.8	813.8	725.3	619.6	550.0	507.0	421.1	383.3	337.7
210.0	1051.0	876.6	814.7	685.8	612.7	518.2	488.1	415.1	361.8	322.3
240.0	1072.5	860.2	770.0	689.2	595.5	519.1	464.9	416.8	365.2	316.2
270.0	984.0	856.8	755.4	670.3	601.6	520.8	464.9	416.8	362.7	326.6
300.0	781.2	692.7	607.6	543.1	477.0	428.0	368.7	330.9	299.1	264.7
330.0	794.1	695.2	637.7	555.2	493.3	427.1	378.1	337.7	300.8	269.8
360.0	813.0	730.5	651.4	568.0	499.3	448.6	383.3	327.4	305.9	269.8

C\γ	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	245.8	225.2	200.2	184.8	172.7	157.3	147.0	137.5	131.5	125.5
30.0	238.0	211.4	192.5	177.0	163.3	153.8	144.4	134.1	128.0	123.7
60.0	216.6	207.1	184.8	171.9	157.3	148.7	139.2	133.2	125.5	121.2
90.0	219.1	203.7	187.3	168.4	157.3	148.7	136.6	130.6	124.6	120.3
120.0	287.9	250.1	229.5	208.0	188.2	172.7	158.1	109.1	140.9	130.6
150.0	297.3	260.4	235.5	215.7	196.8	177.9	165.9	157.3	143.5	135.8
180.0	293.9	263.8	235.5	214.8	195.9	177.9	165.9	157.3	143.5	135.8
210.0	292.2	257.8	234.6	208.8	189.9	175.3	164.1	152.1	141.8	134.9
240.0	285.3	256.1	228.6	208.8	189.9	174.5	163.3	153.0	140.9	134.1
270.0	294.8	257.0	235.5	212.3	191.6	177.9	165.0	155.5	144.4	134.9
300.0	239.8	219.1	195.9	181.3	169.3	154.7	144.4	136.6	129.8	123.7
330.0	247.5	219.1	199.4	183.9	170.2	157.3	145.2	137.5	130.6	124.6
360.0	245.8	225.2	200.2	184.8	172.7	157.3	147.0	137.5	131.5	125.5

C\γ	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	119.5	115.2	110.9	107.4	104.8	101.4	98.8	97.1	94.5	92.0
30.0	117.7	112.6	110.0	106.6	104.0	101.4	98.8	97.1	94.5	92.0
60.0	116.9	112.6	109.1	105.7	103.1	101.4	98.8	97.1	94.5	92.8
90.0	116.9	111.7	108.3	105.7	103.1	100.5	98.8	97.1	94.5	92.8
120.0	125.5	121.2	117.7	111.7	108.3	104.8	102.3	100.5	98.0	95.4
150.0	127.2	122.9	118.6	112.6	109.1	105.7	103.1	101.4	98.8	95.4
180.0	127.2	122.9	117.7	112.6	109.1	106.6	103.1	100.5	98.0	95.4
210.0	127.2	121.2	116.9	111.7	108.3	104.8	102.3	99.7	97.1	94.5
240.0	127.2	121.2	116.0	111.7	108.3	104.8	102.3	100.5	96.2	93.7
270.0	128.9	122.9	117.7	112.6	110.0	104.8	102.3	99.7	97.1	94.5
300.0	117.7	113.4	109.1	105.7	103.1	100.5	98.0	95.4	92.8	90.2
330.0	118.6	115.2	110.0	106.6	104.0	101.4	98.8	96.2	93.7	91.1
360.0	119.5	115.2	110.9	107.4	104.8	101.4	98.8	97.1	94.5	92.0

## Intensity Data [cd]

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C\γ	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	90.2	87.7	85.1	83.4	80.8	77.3	74.8	73.0	69.6	66.2
30.0	90.2	88.5	85.9	84.2	80.8	79.1	76.5	73.0	69.6	67.9
60.0	90.2	88.5	86.8	85.1	82.5	79.1	76.5	73.9	69.6	67.9
90.0	90.2	88.5	85.9	84.2	81.6	79.9	77.3	73.9	71.3	68.8
120.0	92.8	91.1	88.5	86.8	84.2	81.6	79.9	78.2	75.6	71.3
150.0	93.7	0.0	88.5	86.8	85.1	82.5	79.9	77.3	74.8	72.2
180.0	93.7	91.1	88.5	86.8	85.1	81.6	79.9	77.3	74.8	72.2
210.0	92.8	90.2	87.7	85.9	84.2	81.6	79.1	76.5	73.0	70.5
240.0	92.0	89.4	87.7	85.1	83.4	80.8	78.2	74.8	73.0	69.6
270.0	92.0	89.4	87.7	85.1	83.4	79.9	78.2	75.6	73.0	69.6
300.0	88.5	85.9	83.4	81.6	79.1	75.6	73.9	70.5	67.0	65.3
330.0	89.4	86.8	85.1	82.5	79.9	77.3	74.8	71.3	67.9	65.3
360.0	90.2	87.7	85.1	83.4	80.8	77.3	74.8	73.0	69.6	66.2

C\γ	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	61.9	58.4	54.1	50.7	45.5	41.3	37.8	35.2	31.8	27.5
30.0	63.6	60.2	55.0	49.8	47.3	43.0	39.5	35.2	31.8	28.4
60.0	64.5	60.2	56.7	50.7	48.1	44.7	39.5	37.0	33.5	29.2
90.0	64.5	60.2	56.7	52.4	49.0	45.5	40.4	37.0	33.5	30.1
120.0	69.6	66.2	62.7	59.3	55.0	51.6	47.3	43.8	39.5	35.2
150.0	68.8	66.2	62.7	58.4	55.0	49.8	46.4	43.0	39.5	35.2
180.0	69.6	65.3	62.7	58.4	54.1	49.8	45.5	42.1	38.7	34.4
210.0	67.9	64.5	61.0	56.7	52.4	49.8	45.5	41.3	37.8	33.5
240.0	66.2	63.6	59.3	55.9	52.4	47.3	43.8	40.4	37.0	33.5
270.0	67.0	62.7	59.3	55.9	50.7	48.1	44.7	40.4	36.1	33.5
300.0	60.2	56.7	52.4	48.1	44.7	41.3	37.0	33.5	30.1	25.8
330.0	61.0	57.6	53.3	49.0	45.5	41.3	37.8	34.4	30.9	26.6
360.0	61.9	58.4	54.1	50.7	45.5	41.3	37.8	35.2	31.8	27.5

C\γ	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	24.1	19.8	18.0	14.6	12.0	9.5	6.0	3.4	0.9	3.4
30.0	24.9	21.5	18.9	15.5	12.0	9.5	6.9	4.3	1.7	0.9
60.0	25.8	22.3	18.9	16.3	13.8	9.5	7.7	5.2	1.7	2.6
90.0	26.6	23.2	18.9	17.2	13.8	10.3	7.7	5.2	2.6	0.9
120.0	32.7	29.2	26.6	21.5	18.9	15.5	12.9	10.3	6.9	4.3
150.0	31.8	29.2	24.9	21.5	18.0	15.5	12.9	9.5	6.9	4.3
180.0	32.7	28.4	24.1	20.6	18.0	14.6	12.0	9.5	6.9	3.4
210.0	30.1	26.6	23.2	19.8	17.2	13.8	11.2	8.6	5.2	3.4
240.0	30.1	26.6	22.3	18.9	16.3	14.6	11.2	7.7	5.2	2.6
270.0	29.2	25.8	22.3	18.9	16.3	12.9	10.3	7.7	5.2	2.6
300.0	22.3	19.8	17.2	13.8	10.3	6.9	5.2	2.6	0.9	4.3
330.0	23.2	19.8	16.3	13.8	11.2	7.7	5.2	2.6	0.9	4.3
360.0	24.1	19.8	18.0	14.6	12.0	9.5	6.0	3.4	0.9	3.4

## Intensity Data [cd]

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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]

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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]

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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



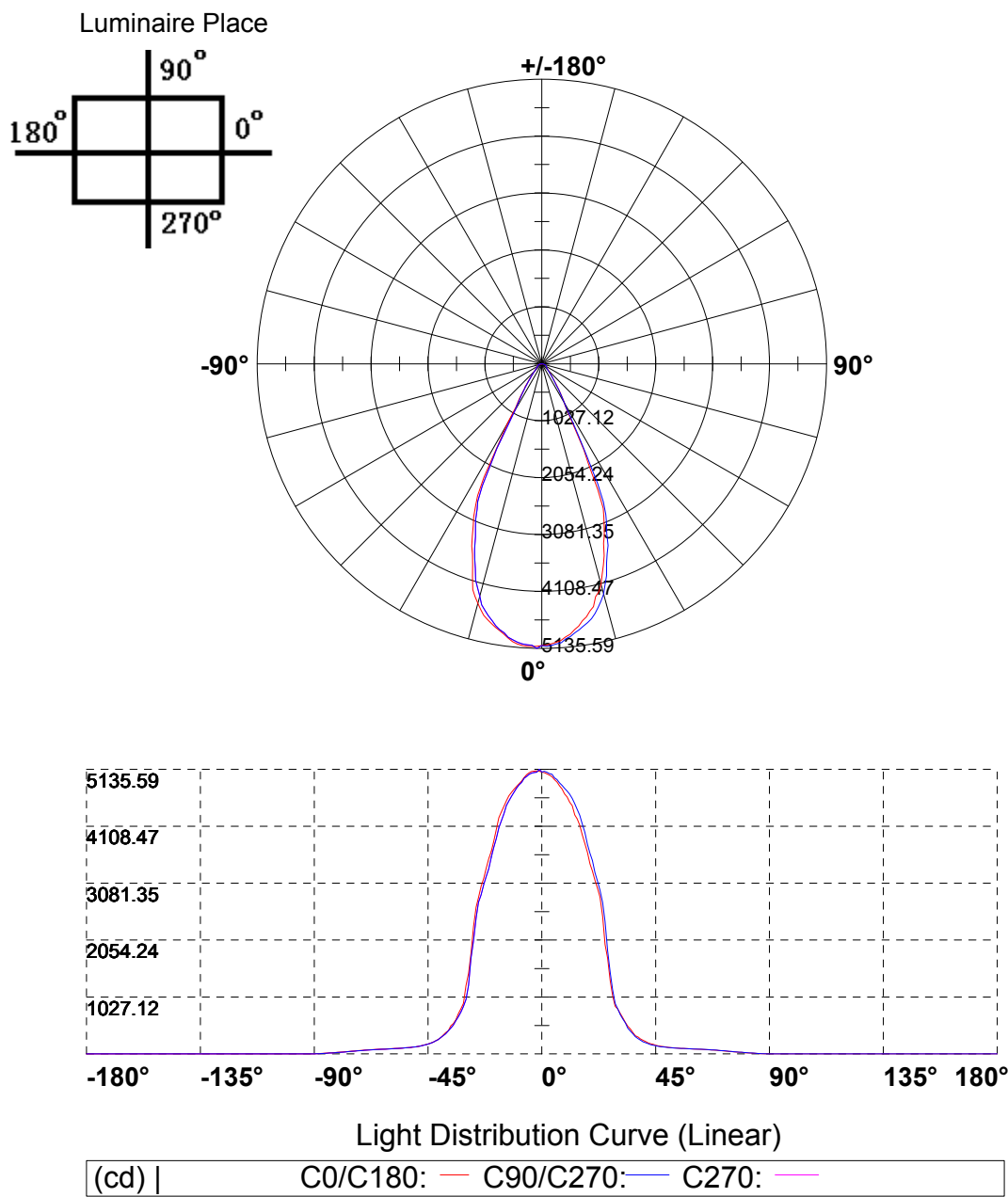
Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
0	5086.01	0.00	0.00	0.00	0.00
1	5093.41	4.87	4.87	4.87	4.87
2	5083.60	14.61	19.48	14.61	19.48
3	5068.49	24.28	43.76	24.28	43.76
4	5050.37	33.87	77.63	33.87	77.63
5	5017.86	43.31	120.94	43.31	120.94
6	4974.17	52.51	173.45	52.51	173.45
7	4919.53	61.41	234.86	61.41	234.86
8	4861.74	70.00	304.87	70.00	304.87
9	4806.88	78.36	383.22	78.36	383.22
10	4725.82	86.27	469.49	86.27	469.49
11	4677.98	93.96	563.46	93.96	563.46
12	4609.66	101.53	664.98	101.53	664.98
13	4520.00	108.35	773.33	108.35	773.33
14	4421.60	114.45	887.78	114.45	887.78
15	4308.81	119.85	1007.64	119.85	1007.64
16	4159.63	124.09	1131.72	124.09	1131.72
17	4019.77	127.38	1259.10	127.38	1259.10
18	3847.75	129.72	1388.82	129.72	1388.82
19	3669.94	130.79	1519.61	130.79	1519.61
20	3501.79	131.26	1650.87	131.26	1650.87
21	3328.19	131.15	1782.02	131.15	1782.02
22	3161.69	130.42	1912.44	130.42	1912.44
23	2985.66	128.99	2041.42	128.99	2041.42
24	2761.73	125.66	2167.08	125.66	2167.08
25	2499.91	119.64	2286.72	119.64	2286.72
26	2156.66	109.92	2396.64	109.92	2396.64
27	1778.18	96.27	2492.91	96.27	2492.91
28	1431.49	81.26	2574.17	81.26	2574.17
29	1159.15	67.78	2641.95	67.78	2641.95
30	948.39	56.90	2698.85	56.90	2698.85
31	798.43	48.61	2747.46	48.61	2747.46
32	717.22	43.42	2790.88	43.42	2790.88
33	626.77	39.59	2830.48	39.59	2830.48
34	552.29	35.68	2866.16	33.11	2863.58
35	486.40	32.26	2898.42	17.75	2881.33
36	426.75	29.07	2927.49	8.37	2889.70
37	374.47	26.13	2953.62	0.00	2889.70
38	331.93	23.58	2977.20	0.00	2889.70
39	291.97	21.30	2998.50	0.00	2889.70
40	263.18	19.36	3017.86	0.00	2889.70

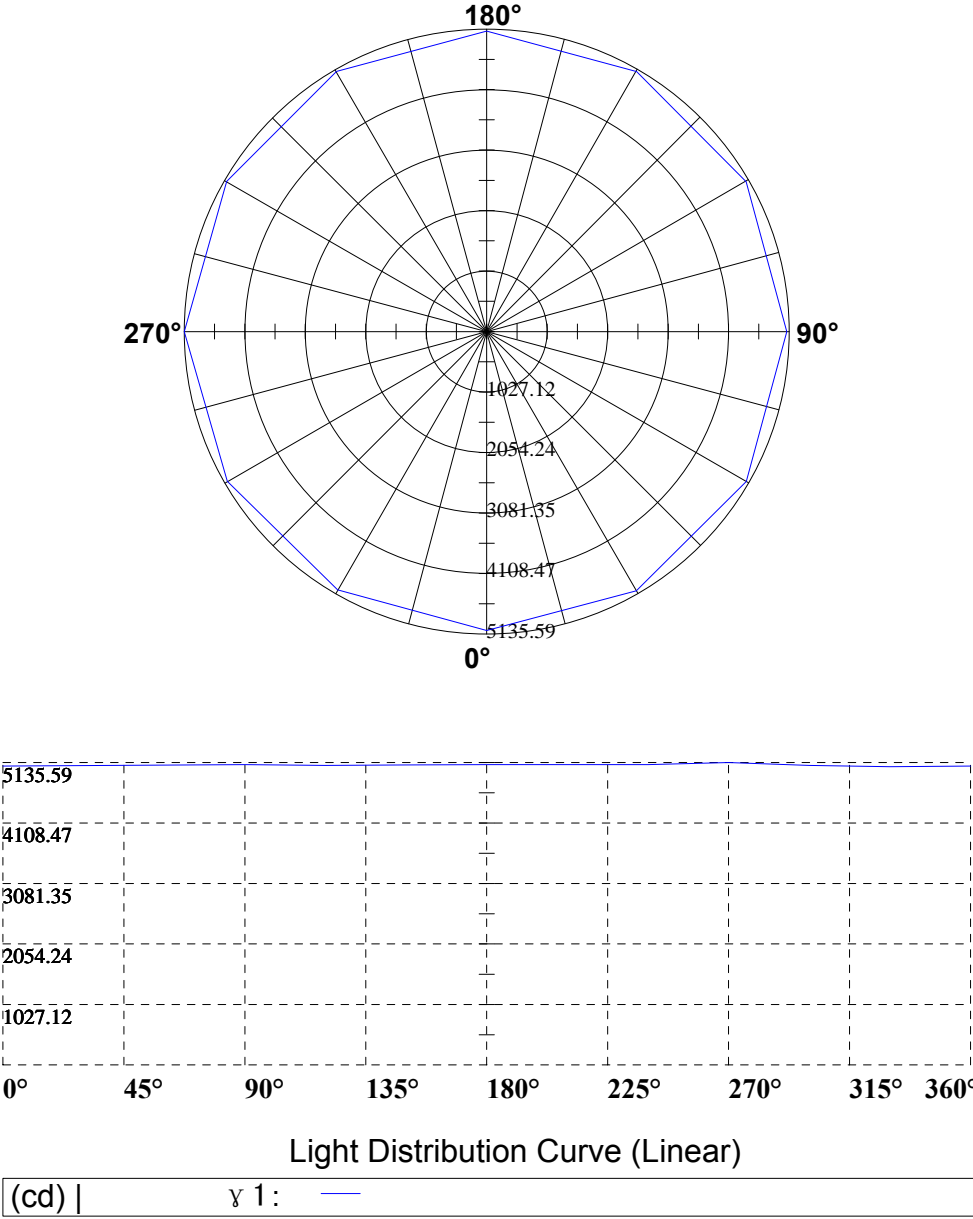
Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
41	235.90	17.77	3035.63	0.00	2889.70
42	213.27	16.32	3051.95	0.00	2889.70
43	194.65	15.11	3067.06	0.00	2889.70
44	178.53	14.08	3081.15	0.00	2889.70
45	164.71	13.19	3094.34	0.00	2889.70
46	153.25	12.43	3106.77	0.00	2889.70
47	141.15	11.71	3118.48	0.00	2889.70
48	135.42	11.18	3129.66	0.00	2889.70
49	128.76	10.85	3140.51	0.00	2889.70
50	122.53	10.48	3150.99	0.00	2889.70
51	117.73	10.17	3161.15	0.00	2889.70
52	113.51	9.92	3171.08	0.00	2889.70
53	109.21	9.69	3180.76	0.00	2889.70
54	106.28	9.50	3190.26	0.00	2889.70
55	103.20	9.35	3199.61	0.00	2889.70
56	100.62	9.21	3208.82	0.00	2889.70
57	98.54	9.11	3217.93	0.00	2889.70
58	95.82	8.99	3226.92	0.00	2889.70
59	93.31	8.84	3235.76	0.00	2889.70
60	91.31	8.72	3244.48	0.00	2889.70
61	81.43	8.24	3252.72	0.00	2889.70
62	86.72	8.10	3260.83	0.00	2889.70
63	84.79	8.34	3269.17	0.00	2889.70
64	82.50	8.21	3277.38	0.00	2889.70
65	79.71	8.03	3285.40	0.00	2889.70
66	77.41	7.84	3293.24	0.00	2889.70
67	74.62	7.64	3300.89	0.00	2889.70
68	71.61	7.41	3308.30	0.00	2889.70
69	68.89	7.17	3315.46	0.00	2889.70
70	65.38	6.90	3322.36	0.00	2889.70
71	61.80	6.57	3328.94	0.00	2889.70
72	58.01	6.23	3335.16	0.00	2889.70
73	53.78	5.85	3341.01	0.00	2889.70
74	49.99	5.46	3346.47	0.00	2889.70
75	46.12	5.08	3351.54	0.00	2889.70
76	42.11	4.68	3356.23	0.00	2889.70
77	38.60	4.30	3360.53	0.00	2889.70
78	35.02	3.94	3364.47	0.00	2889.70
79	31.08	3.55	3368.02	0.00	2889.70
80	27.79	3.17	3371.20	0.00	2889.70
81	24.35	2.82	3374.01	0.00	2889.70

Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
82	20.98	2.46	3376.47	0.00	2889.70
83	17.69	2.10	3378.57	0.00	2889.70
84	14.82	1.77	3380.34	0.00	2889.70
85	11.67	1.45	3381.79	0.00	2889.70
86	9.09	1.14	3382.93	0.00	2889.70
87	6.37	0.85	3383.77	0.00	2889.70
88	3.72	0.55	3384.33	0.00	2889.70
89	3.08	0.37	3384.70	0.00	2889.70
90	0.00	0.17	3384.87	0.00	2889.70
91	0.00	0.00	3384.87	0.00	2889.70
92	0.00	0.00	3384.87	0.00	2889.70
93	0.00	0.00	3384.87	0.00	2889.70
94	0.00	0.00	3384.87	0.00	2889.70
95	0.00	0.00	3384.87	0.00	2889.70
96	0.00	0.00	3384.87	0.00	2889.70
97	0.00	0.00	3384.87	0.00	2889.70
98	0.00	0.00	3384.87	0.00	2889.70
99	0.00	0.00	3384.87	0.00	2889.70
100	0.00	0.00	3384.87	0.00	2889.70
101	0.00	0.00	3384.87	0.00	2889.70
102	0.00	0.00	3384.87	0.00	2889.70
103	0.00	0.00	3384.87	0.00	2889.70
104	0.00	0.00	3384.87	0.00	2889.70
105	0.00	0.00	3384.87	0.00	2889.70
106	0.00	0.00	3384.87	0.00	2889.70
107	0.00	0.00	3384.87	0.00	2889.70
108	0.00	0.00	3384.87	0.00	2889.70
109	0.00	0.00	3384.87	0.00	2889.70
110	0.00	0.00	3384.87	0.00	2889.70
111	0.00	0.00	3384.87	0.00	2889.70
112	0.00	0.00	3384.87	0.00	2889.70
113	0.00	0.00	3384.87	0.00	2889.70
114	0.00	0.00	3384.87	0.00	2889.70
115	0.00	0.00	3384.87	0.00	2889.70
116	0.00	0.00	3384.87	0.00	2889.70
117	0.00	0.00	3384.87	0.00	2889.70
118	0.00	0.00	3384.87	0.00	2889.70
119	0.00	0.00	3384.87	0.00	2889.70
120	0.00	0.00	3384.87	0.00	2889.70
121	0.00	0.00	3384.87	0.00	2889.70
122	0.00	0.00	3384.87	0.00	2889.70

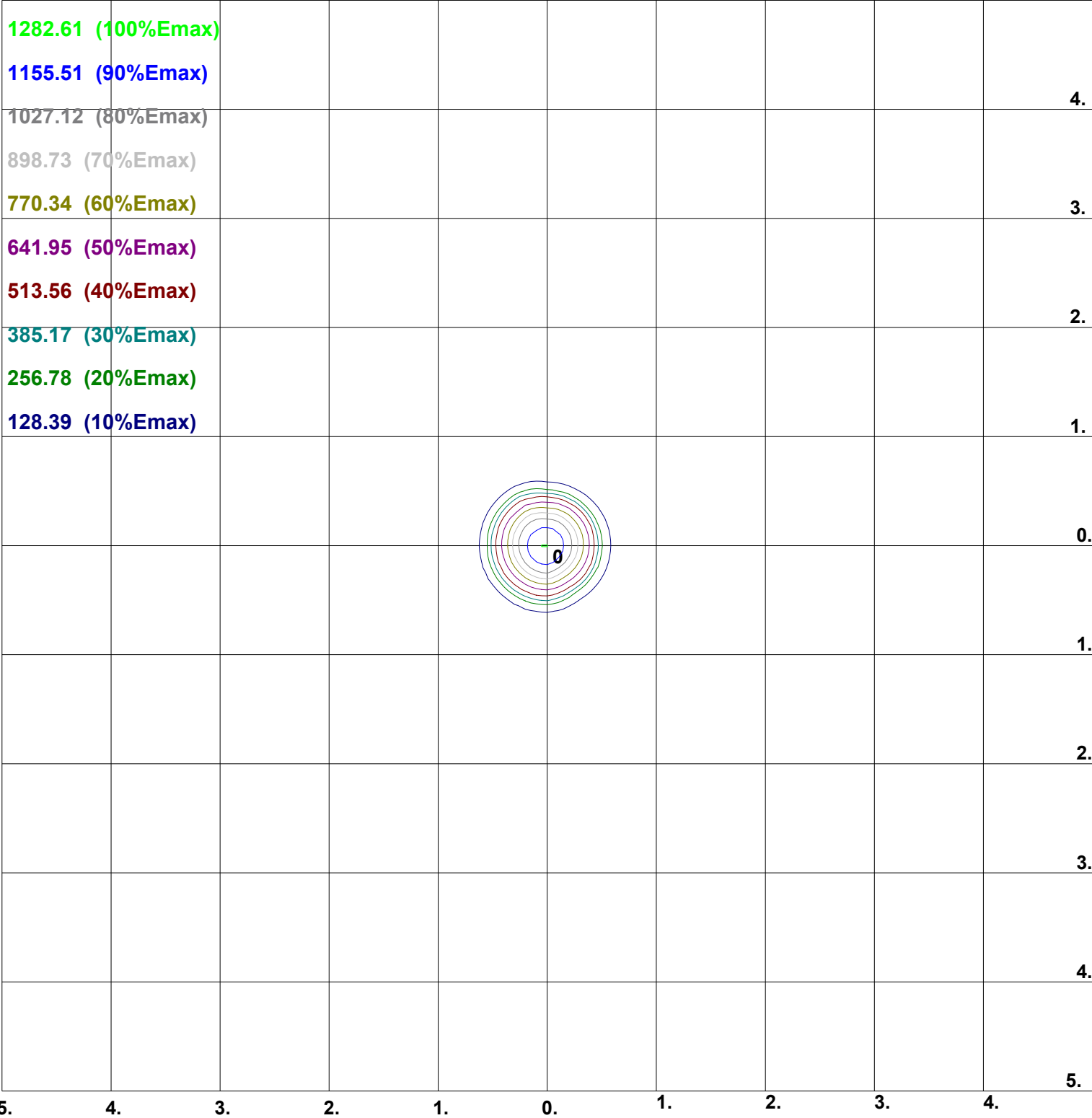
Gamma [°]	Average I [cd]	Zonal Flux [lm]	Sum Flux [lm]	Effective Flux [lm]	Effective Sum [lm]
123	0.00	0.00	3384.87	0.00	2889.70
124	0.00	0.00	3384.87	0.00	2889.70
125	0.00	0.00	3384.87	0.00	2889.70
126	0.00	0.00	3384.87	0.00	2889.70
127	0.00	0.00	3384.87	0.00	2889.70
128	0.00	0.00	3384.87	0.00	2889.70
129	0.00	0.00	3384.87	0.00	2889.70
130	0.00	0.00	3384.87	0.00	2889.70
131	0.00	0.00	3384.87	0.00	2889.70
132	0.00	0.00	3384.87	0.00	2889.70
133	0.00	0.00	3384.87	0.00	2889.70
134	0.00	0.00	3384.87	0.00	2889.70
135	0.00	0.00	3384.87	0.00	2889.70
136	0.00	0.00	3384.87	0.00	2889.70
137	0.00	0.00	3384.87	0.00	2889.70
138	0.00	0.00	3384.87	0.00	2889.70
139	0.00	0.00	3384.87	0.00	2889.70
140	0.00	0.00	3384.87	0.00	2889.70
141	0.00	0.00	3384.87	0.00	2889.70
142	0.00	0.00	3384.87	0.00	2889.70
143	0.00	0.00	3384.87	0.00	2889.70
144	0.00	0.00	3384.87	0.00	2889.70
145	0.00	0.00	3384.87	0.00	2889.70
146	0.00	0.00	3384.87	0.00	2889.70
147	0.00	0.00	3384.87	0.00	2889.70
148	0.00	0.00	3384.87	0.00	2889.70
149	0.00	0.00	3384.87	0.00	2889.70
150	0.00	0.00	3384.87	0.00	2889.70
151	0.00	0.00	3384.87	0.00	2889.70
152	0.00	0.00	3384.87	0.00	2889.70
153	0.00	0.00	3384.87	0.00	2889.70
154	0.00	0.00	3384.87	0.00	2889.70
155	0.00	0.00	3384.87	0.00	2889.70
156	0.00	0.00	3384.87	0.00	2889.70
157	0.00	0.00	3384.87	0.00	2889.70
158	0.00	0.00	3384.87	0.00	2889.70
159	0.00	0.00	3384.87	0.00	2889.70
160	0.00	0.00	3384.87	0.00	2889.70
161	0.00	0.00	3384.87	0.00	2889.70
162	0.00	0.00	3384.87	0.00	2889.70
163	0.00	0.00	3384.87	0.00	2889.70

[illegible]





Unit: [lx]

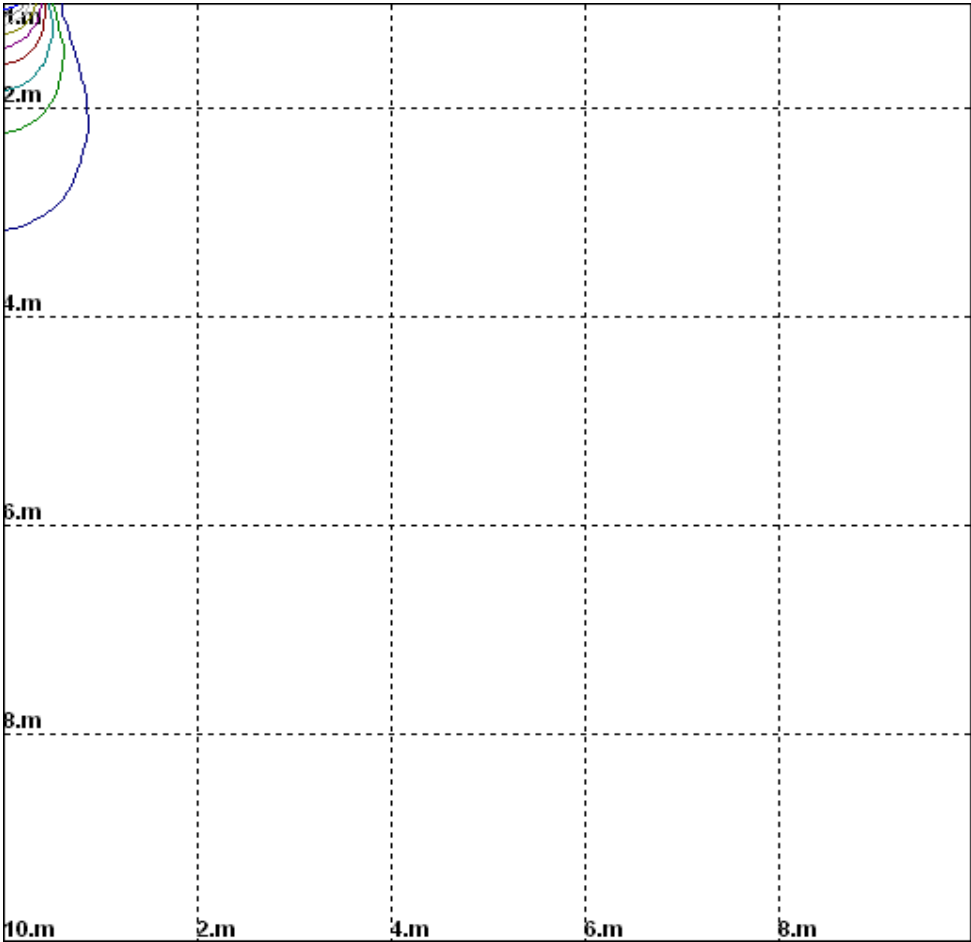


Coordinate Scale: d/h  
Height: 2 m  
Max Illuminance : 1283.9lx



Unit: [lx]  
Illuminance

- 1282.61
- 1155.51
- 1027.12
- 898.73
- 770.34
- 641.95
- 513.56
- 385.17
- 256.78
- 128.39



# Luminance Limiting Curve (There is not luminous side)

Diameter: 111mm

Length: -111mm

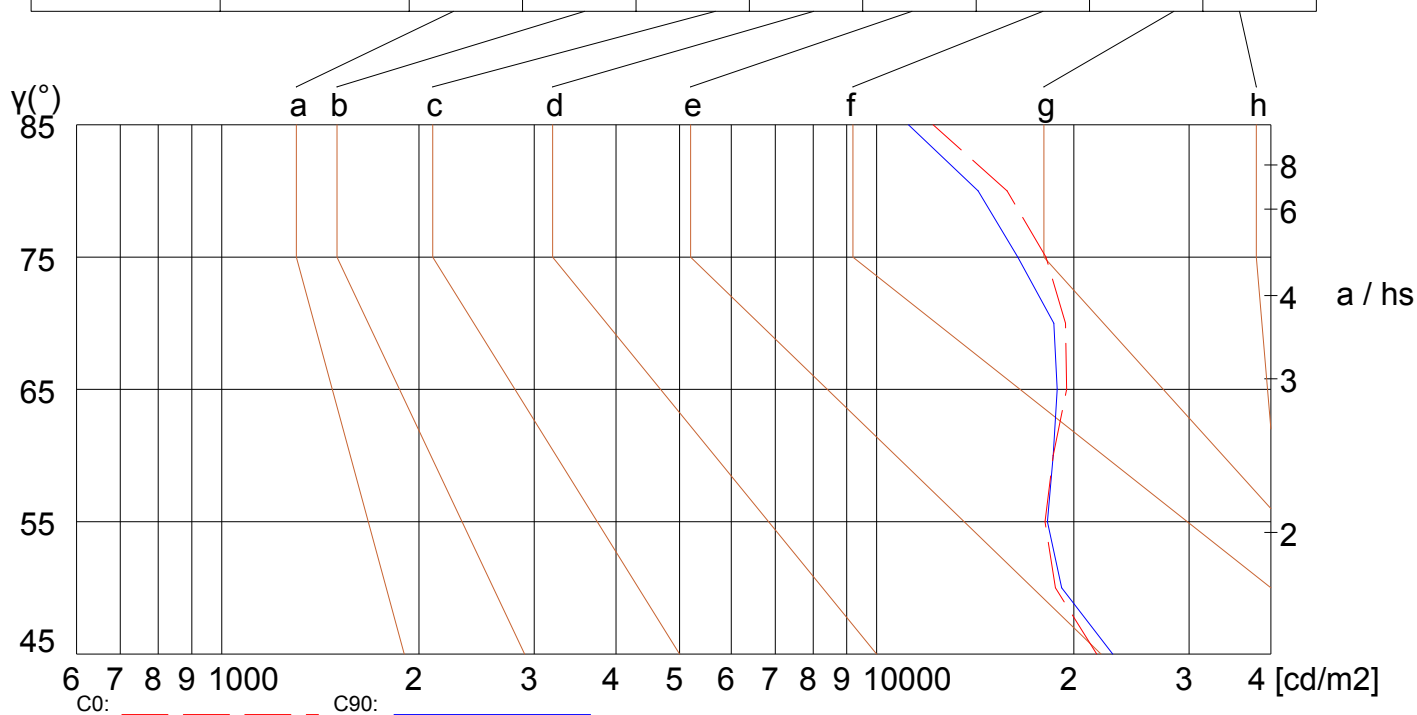
Width: -111mm

Height: 175mm

(cd/m<sup>2</sup>)

$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	21676	18745	18072	18605	19496	19428	18142	15816	12198
C90	22928	19158	18226	18605	18867	18651	16431	14285	11182

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	0.88	0.88	0.88	0.86	0.86	0.86	0.82	0.82	0.82	0.78	0.78	0.78	0.75	0.75	0.75	0.74
1	0.84	0.83	0.82	0.82	0.82	0.81	0.79	0.78	0.78	0.75	0.74	0.73	0.70	0.69	0.68	0.64
2	0.78	0.77	0.76	0.77	0.76	0.75	0.74	0.73	0.72	0.71	0.69	0.68	0.66	0.65	0.63	0.60
3	0.73	0.72	0.71	0.72	0.71	0.70	0.70	0.68	0.67	0.67	0.65	0.63	0.63	0.61	0.59	0.56
4	0.69	0.68	0.67	0.68	0.66	0.65	0.66	0.64	0.62	0.63	0.61	0.59	0.60	0.58	0.55	0.52
5	0.65	0.64	0.63	0.64	0.62	0.61	0.62	0.60	0.59	0.60	0.58	0.55	0.57	0.55	0.52	0.49
6	0.61	0.60	0.59	0.61	0.59	0.58	0.59	0.57	0.55	0.57	0.54	0.52	0.55	0.52	0.49	0.47
7	0.58	0.57	0.56	0.57	0.56	0.55	0.56	0.54	0.52	0.54	0.52	0.49	0.52	0.49	0.47	0.44
8	0.55	0.54	0.53	0.55	0.53	0.52	0.53	0.51	0.49	0.52	0.49	0.47	0.50	0.47	0.44	0.42
9	0.52	0.51	0.51	0.52	0.50	0.49	0.51	0.49	0.47	0.50	0.47	0.45	0.48	0.45	0.42	0.40
10	0.50	0.49	0.48	0.49	0.48	0.47	0.49	0.46	0.45	0.47	0.44	0.42	0.46	0.43	0.40	0.38

