

Luminaire Property

Luminaire: RH-CL3182-30W-4000 30W 4000K 40°

Report NO.:

Test NO.: HLB220330

Lamp:

Sum Lumens: 3355.78 lm

Number of Lamps: 1

Diameter: 195mm

Length: mm

Photometric Type: Type C

Voltage: 230.8 V

Current: 0.134 A

Power: 29.9 W

Power Factor: 0.967

Ballast Type: OSRAM OT FIT 30 700mA

Width: 195mm

Height: 140mm

Remark: CREE CXA1820

Photometric Results

Lumens: 3355.78 lm

Efficiency: 112.2334 lm/W

Central Intensity: 5257.495cd

Maximum Intensity: 5266.129cd

Angle of maximum intensity: C:0.0 G:1.0

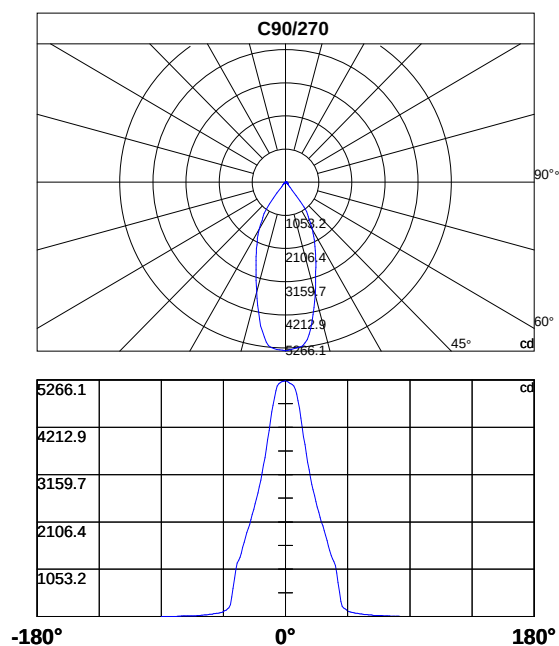
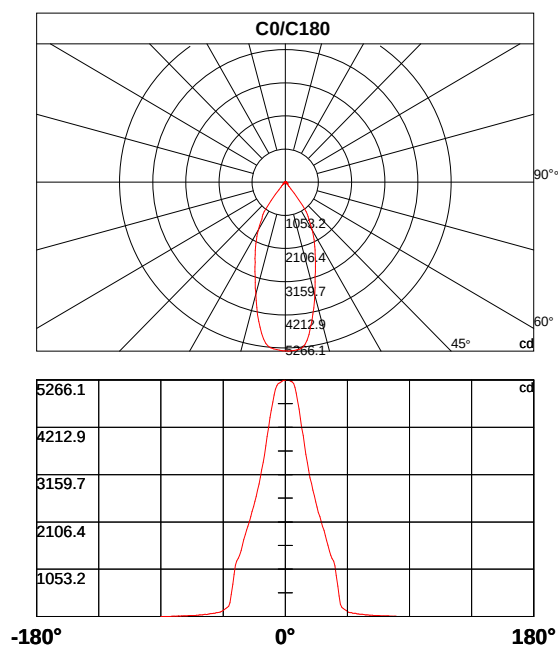
Half Peak Side Angle(50%): Left: -22.4 Right:20.4

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -39.8 Right:37.7



Photometric Data Table [cd]

C\G	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	5257.5	5266.1	5262.4	5256.2	5243.1	5224.8	5189.6	5104.7	4974.0	4808.8
45.0	5257.5	5239.4	5221.3	5198.6	5185.3	5163.2	5134.2	5050.5	4951.9	4802.6
90.0	5257.5	5239.4	5221.3	5198.6	5185.3	5163.2	5134.2	5050.5	4951.9	4802.6
135.0	5257.5	5258.7	5245.3	5228.2	5207.6	5187.5	5145.7	5064.9	4932.7	4778.7
180.0	5257.5	5258.7	5245.3	5228.2	5207.6	5187.5	5145.7	5064.9	4932.7	4778.7
225.0	5257.5	5243.4	5234.1	5226.0	5205.1	5180.6	5128.0	5024.7	4879.7	4708.6
270.0	5257.5	5243.4	5234.1	5226.0	5205.1	5180.6	5128.0	5024.7	4879.7	4708.6
315.0	5257.5	5266.1	5262.4	5256.2	5243.1	5224.8	5189.6	5104.7	4974.0	4808.8
360.0	5257.5	5266.1	5262.4	5256.2	5243.1	5224.8	5189.6	5104.7	4974.0	4808.8

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	4617.5	4413.1	4206.3	4025.5	3812.1	3609.9	3420.5	3249.7	3086.0	2958.2
45.0	4624.3	4422.8	4218.4	4008.7	3830.5	3627.0	3436.6	3264.0	3094.4	2946.3
90.0	4624.3	4422.8	4218.4	4008.7	3830.5	3627.0	3436.6	3264.0	3094.4	2946.3
135.0	4589.8	4426.5	4222.1	4009.0	3800.9	3602.8	3436.0	3265.5	3100.6	2949.8
180.0	4589.8	4426.5	4222.1	4009.0	3800.9	3602.8	3436.0	3265.5	3100.6	2949.8
225.0	4551.9	4354.3	4142.8	3936.8	3730.3	3534.9	3375.0	3198.9	3037.8	2888.8
270.0	4551.9	4354.3	4142.8	3936.8	3730.3	3534.9	3375.0	3198.9	3037.8	2888.8
315.0	4617.5	4413.1	4206.3	4025.5	3812.1	3609.9	3420.5	3249.7	3086.0	2958.2
360.0	4617.5	4413.1	4206.3	4025.5	3812.1	3609.9	3420.5	3249.7	3086.0	2958.2

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	2811.3	2681.9	2555.0	2439.0	2318.9	2228.3	2117.6	2012.1	1914.7	1805.9
45.0	2823.8	2690.0	2560.6	2439.6	2325.1	2213.4	2103.6	2014.6	1908.2	1808.4
90.0	2823.8	2690.0	2560.6	2439.6	2325.1	2213.4	2103.6	2014.6	1908.2	1808.4
135.0	2806.7	2675.1	2567.4	2453.6	2338.1	2225.2	2119.1	2009.9	1924.1	1825.5
180.0	2806.7	2675.1	2567.4	2453.6	2338.1	2225.2	2119.1	2009.9	1924.1	1825.5
225.0	2750.3	2618.1	2511.4	2391.1	2271.9	2159.9	2049.1	1965.5	1865.9	1763.6
270.0	2750.3	2618.1	2511.4	2391.1	2271.9	2159.9	2049.1	1965.5	1865.9	1763.6
315.0	2811.3	2681.9	2555.0	2439.0	2318.9	2228.3	2117.6	2012.1	1914.7	1805.9
360.0	2811.3	2681.9	2555.0	2439.0	2318.9	2228.3	2117.6	2012.1	1914.7	1805.9

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	1689.2	1587.8	1454.9	1358.2	1289.8	1231.0	1126.1	914.3	679.4	452.3
45.0	1692.0	1570.7	1467.4	1351.1	1286.7	1227.9	1131.4	969.3	756.9	532.0
90.0	1692.0	1570.7	1467.4	1351.1	1286.7	1227.9	1131.4	969.3	756.9	532.0
135.0	1713.5	1590.9	1470.8	1361.0	1297.8	1233.2	1141.1	945.1	719.2	491.5
180.0	1713.5	1590.9	1470.8	1361.0	1297.8	1233.2	1141.1	945.1	719.2	491.5
225.0	1651.3	1538.3	1410.2	1321.2	1251.5	1188.7	1048.1	851.4	625.0	436.8
270.0	1651.3	1538.3	1410.2	1321.2	1251.5	1188.7	1048.1	851.4	625.0	436.8
315.0	1689.2	1587.8	1454.9	1358.2	1289.8	1231.0	1126.1	914.3	679.4	452.3
360.0	1689.2	1587.8	1454.9	1358.2	1289.8	1231.0	1126.1	914.3	679.4	452.3

Photometric Data Table [cd]

C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	268.8	200.0	178.3	153.7	133.8	114.2	93.3	88.3	82.8	73.1
45.0	338.2	224.0	193.5	172.0	147.1	125.0	106.4	99.8	89.9	85.9
90.0	338.2	224.0	193.5	172.0	147.1	125.0	106.4	99.8	89.9	85.9
135.0	307.0	227.1	197.8	172.9	154.0	133.8	112.0	99.2	91.2	87.4
180.0	307.0	227.1	197.8	172.9	154.0	133.8	112.0	99.2	91.2	87.4
225.0	264.7	190.7	171.7	144.4	126.9	111.0	91.8	84.0	79.6	70.6
270.0	264.7	190.7	171.7	144.4	126.9	111.0	91.8	84.0	79.6	70.6
315.0	268.8	200.0	178.3	153.7	133.8	114.2	93.3	88.3	82.8	73.1
360.0	268.8	200.0	178.3	153.7	133.8	114.2	93.3	88.3	82.8	73.1

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	67.8	66.6	57.9	58.2	53.5	47.3	47.0	42.6	36.4	36.7
45.0	76.2	74.6	67.5	63.7	57.9	54.4	47.6	43.6	44.2	39.8
90.0	76.2	74.6	67.5	63.7	57.9	54.4	47.6	43.6	44.2	39.8
135.0	80.9	72.2	70.9	65.6	61.0	56.3	48.8	45.1	45.4	41.7
180.0	80.9	72.2	70.9	65.6	61.0	56.3	48.8	45.1	45.4	41.7
225.0	70.0	60.7	60.0	51.9	51.0	47.0	39.8	37.6	37.0	30.5
270.0	70.0	60.7	60.0	51.9	51.0	47.0	39.8	37.6	37.0	30.5
315.0	67.8	66.6	57.9	58.2	53.5	47.3	47.0	42.6	36.4	36.7
360.0	67.8	66.6	57.9	58.2	53.5	47.3	47.0	42.6	36.4	36.7

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	34.2	28.6	28.9	26.7	24.3	19.6	22.1	20.6	20.2	18.4
45.0	33.0	32.1	31.4	25.2	23.6	20.9	23.3	22.2	21.2	19.9
90.0	33.0	32.1	31.4	25.2	23.6	20.9	23.3	22.2	21.2	19.9
135.0	34.9	35.2	32.4	30.2	27.7	22.1	20.9	19.3	22.4	20.8
180.0	34.9	35.2	32.4	30.2	27.7	22.1	20.9	19.3	22.4	20.8
225.0	27.7	25.5	23.6	20.6	19.0	17.4	16.5	15.4	14.3	13.9
270.0	27.7	25.5	23.6	20.6	19.0	17.4	16.5	15.4	14.3	13.9
315.0	34.2	28.6	28.9	26.7	24.3	19.6	22.1	20.6	20.2	18.4
360.0	34.2	28.6	28.9	26.7	24.3	19.6	22.1	20.6	20.2	18.4

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	17.4	13.7	12.1	11.8	12.1	12.1	9.4	8.4	8.1	7.2
45.0	18.8	17.7	13.4	13.1	11.2	12.7	8.7	7.5	6.2	5.9
90.0	18.8	17.7	13.4	13.1	11.2	12.7	8.7	7.5	6.2	5.9
135.0	19.3	15.2	13.7	16.2	11.2	10.3	9.0	10.3	9.4	7.6
180.0	19.3	15.2	13.7	16.2	11.2	10.3	9.0	10.3	9.4	7.6
225.0	13.4	15.2	14.0	12.7	11.8	10.1	8.4	7.8	3.7	2.8
270.0	13.4	15.2	14.0	12.7	11.8	10.1	8.4	7.8	3.7	2.8
315.0	17.4	13.7	12.1	11.8	12.1	12.1	9.4	8.4	8.1	7.2
360.0	17.4	13.7	12.1	11.8	12.1	12.1	9.4	8.4	8.1	7.2

Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.3	1.9	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0
45.0	6.1	6.2	5.3	3.1	0.3	0.0	0.0	0.0	0.0	0.0
90.0	6.1	6.2	5.3	3.1	0.3	0.0	0.0	0.0	0.0	0.0
135.0	5.9	4.8	3.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
180.0	5.9	4.8	3.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
225.0	1.9	1.3	1.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0
270.0	1.9	1.3	1.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0
315.0	5.3	1.9	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0
360.0	5.3	1.9	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0

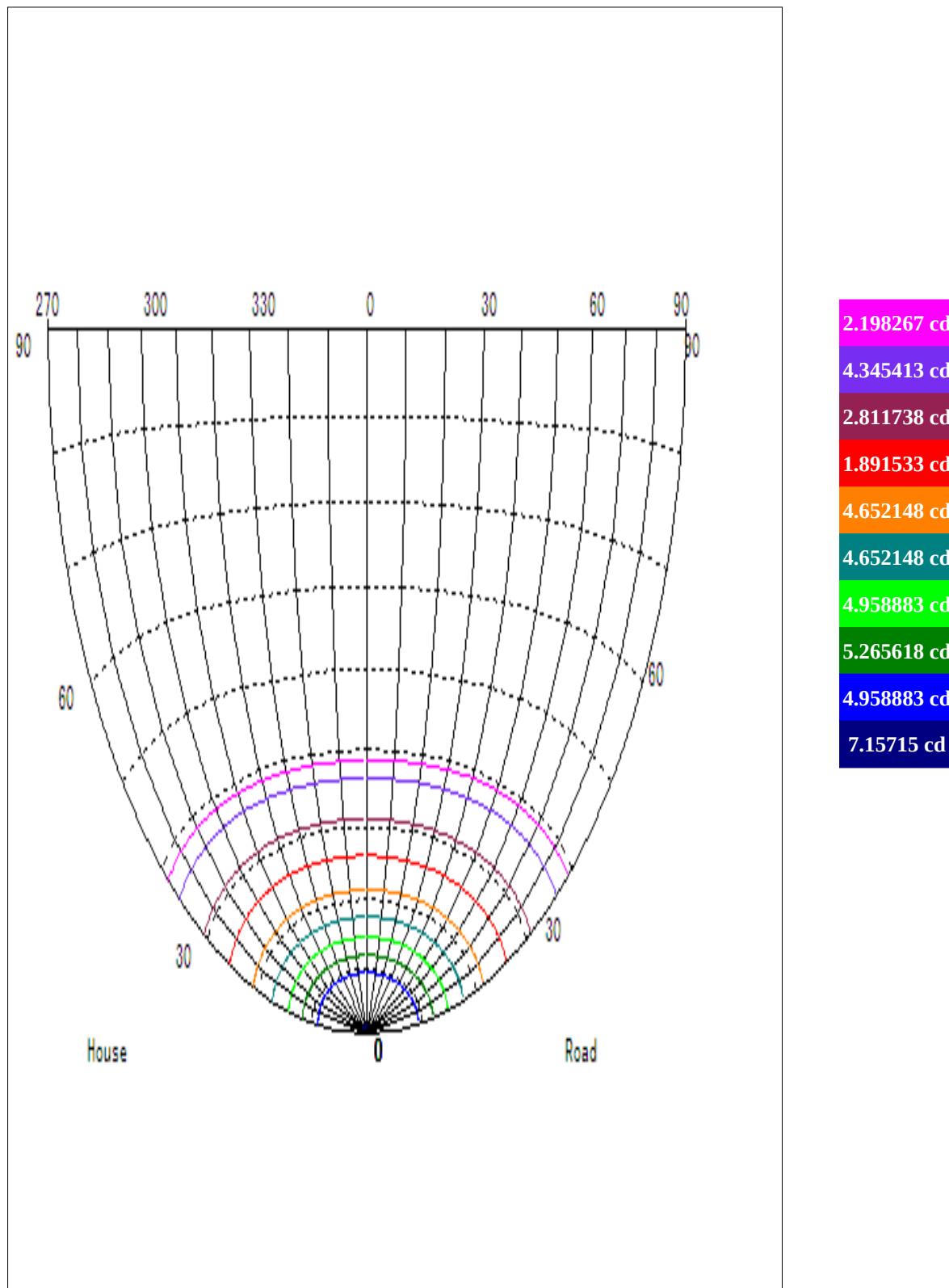
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Zonal Flux Distribution

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	5257.50	0.00	0.00	0.00	0.00
1	5251.90	5.03	5.03	0.15	0.15
2	5240.77	15.06	20.09	0.45	0.60
3	5227.25	25.04	45.12	0.75	1.34
4	5210.29	34.94	80.06	1.04	2.39
5	5189.00	44.74	124.80	1.33	3.72
6	5149.39	54.33	179.13	1.62	5.34
7	5061.21	63.38	242.51	1.89	7.23
8	4934.59	71.54	314.05	2.13	9.36
9	4774.69	78.69	392.73	2.34	11.70
10	4595.90	84.80	477.53	2.53	14.23
11	4404.18	89.93	567.46	2.68	16.91
12	4197.39	94.03	661.49	2.80	19.71
13	3995.02	97.22	758.71	2.90	22.61
14	3793.44	99.69	858.41	2.97	25.58
15	3593.64	101.41	959.82	3.02	28.60
16	3417.02	102.73	1062.55	3.06	31.66
17	3244.52	103.74	1166.28	3.09	34.75
18	3079.71	104.27	1270.56	3.11	37.86
19	2935.76	104.66	1375.21	3.12	40.98
20	2798.02	104.94	1480.16	3.13	44.11
21	2666.28	104.93	1585.08	3.13	47.23
22	2548.61	104.80	1689.88	3.12	50.36
23	2430.79	104.48	1794.36	3.11	53.47
24	2313.50	103.73	1898.09	3.09	56.56
25	2206.70	102.78	2000.87	3.06	59.62
26	2097.37	101.60	2102.46	3.03	62.65
27	2000.54	100.26	2202.72	2.99	65.64
28	1903.25	98.84	2301.56	2.95	68.58
29	1800.83	96.91	2398.46	2.89	71.47
30	1686.49	94.16	2492.62	2.81	74.28
31	1571.94	90.68	2583.30	2.70	76.98
32	1450.84	86.60	2669.90	2.58	79.56
33	1347.88	82.45	2752.35	2.46	82.02
34	1281.45	79.57	2831.92	2.37	84.39
35	1220.18	77.69	2909.61	2.32	86.70
36	1111.67	74.25	2983.86	2.21	88.92
37	920.04	66.26	3050.12	1.97	90.89
38	695.13	53.91	3104.03	1.61	92.50
39	478.16	40.05	3144.08	1.19	93.69
40	294.68	26.95	3171.04	0.80	94.49

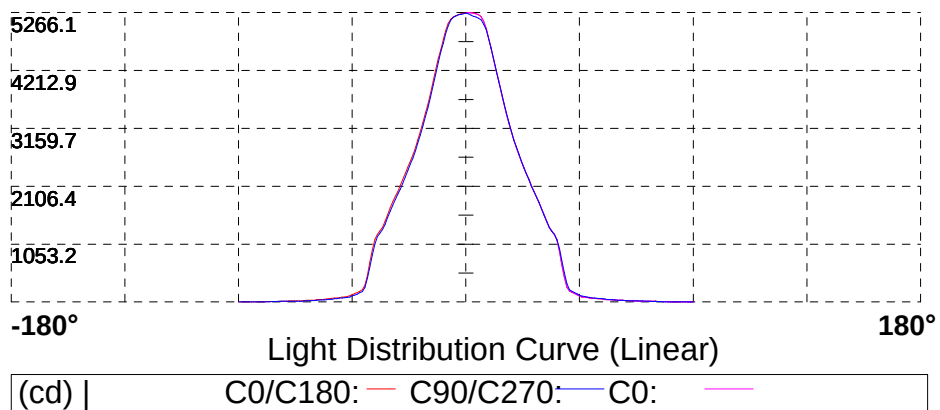
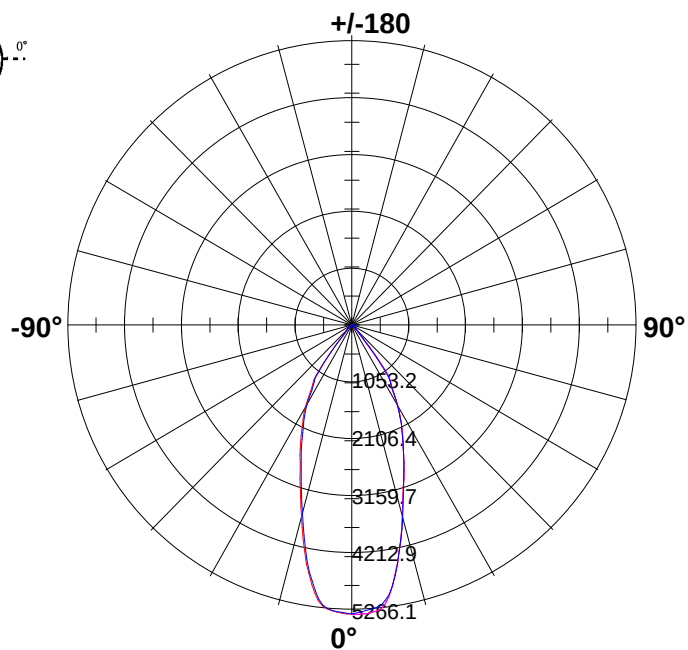
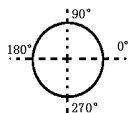
Zonal Flux Distribution

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	210.45	17.99	3189.02	0.54	95.03
42	185.33	14.38	3203.40	0.43	95.46
43	160.75	12.82	3216.22	0.38	95.84
44	140.46	11.37	3227.59	0.34	96.18
45	121.01	10.05	3237.64	0.30	96.48
46	100.88	8.68	3246.32	0.26	96.74
47	92.85	7.71	3254.02	0.23	96.97
48	85.87	7.22	3261.25	0.22	97.18
49	79.25	6.78	3268.03	0.20	97.39
50	73.73	6.38	3274.41	0.19	97.58
51	68.52	6.02	3280.43	0.18	97.75
52	64.07	5.69	3286.12	0.17	97.92
53	59.88	5.39	3291.51	0.16	98.08
54	55.85	5.10	3296.61	0.15	98.24
55	51.25	4.78	3301.39	0.14	98.38
56	45.81	4.39	3305.78	0.13	98.51
57	42.23	4.03	3309.80	0.12	98.63
58	40.74	3.84	3313.64	0.11	98.74
59	37.17	3.64	3317.28	0.11	98.85
60	32.44	3.29	3320.57	0.10	98.95
61	30.34	3.00	3323.56	0.09	99.04
62	29.09	2.86	3326.43	0.09	99.13
63	25.66	2.66	3329.09	0.08	99.20
64	23.65	2.42	3331.51	0.07	99.28
65	19.99	2.16	3333.67	0.06	99.34
66	20.69	2.03	3335.70	0.06	99.40
67	19.37	2.01	3337.71	0.06	99.46
68	19.53	1.97	3339.68	0.06	99.52
69	18.23	1.93	3341.61	0.06	99.58
70	17.23	1.82	3343.43	0.05	99.63
71	15.48	1.69	3345.12	0.05	99.68
72	13.30	1.50	3346.62	0.04	99.73
73	13.45	1.40	3348.02	0.04	99.77
74	11.58	1.32	3349.33	0.04	99.81
75	11.30	1.21	3350.54	0.04	99.84
76	8.86	1.07	3351.61	0.03	99.88
77	8.47	0.92	3352.54	0.03	99.90
78	6.85	0.82	3353.36	0.02	99.93
79	5.89	0.68	3354.04	0.02	99.95
80	4.79	0.58	3354.62	0.02	99.97
81	3.57	0.45	3355.07	0.01	99.98

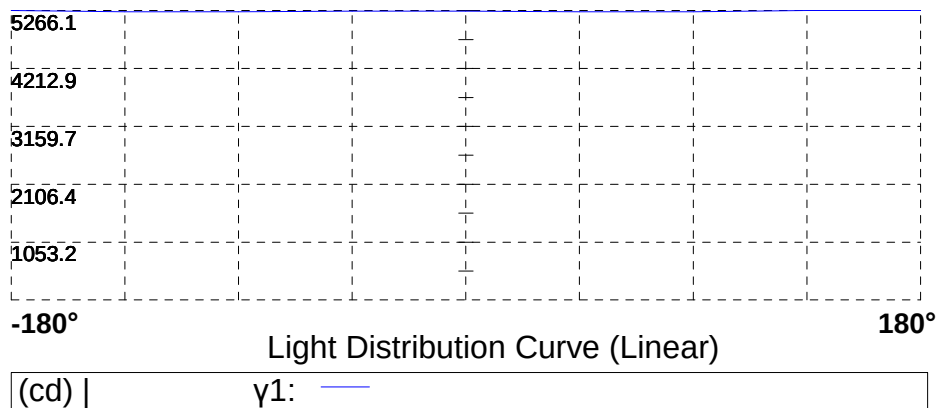
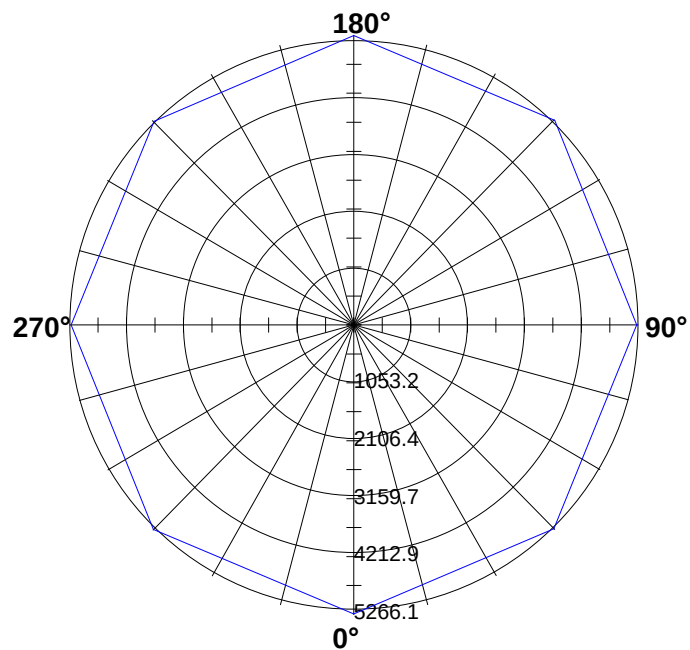


Light Distribution Curve [Unit: cd]

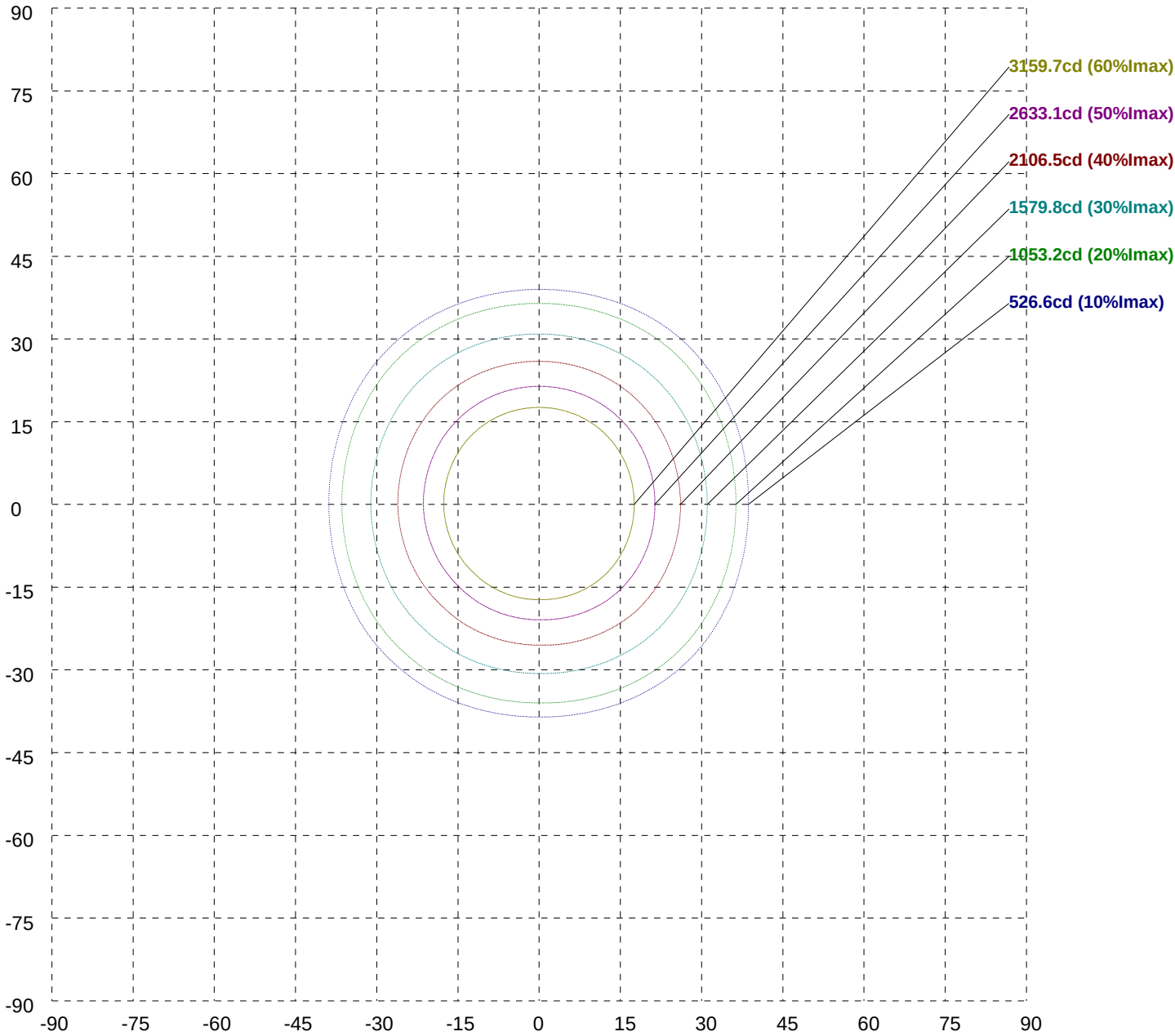
Luminaire



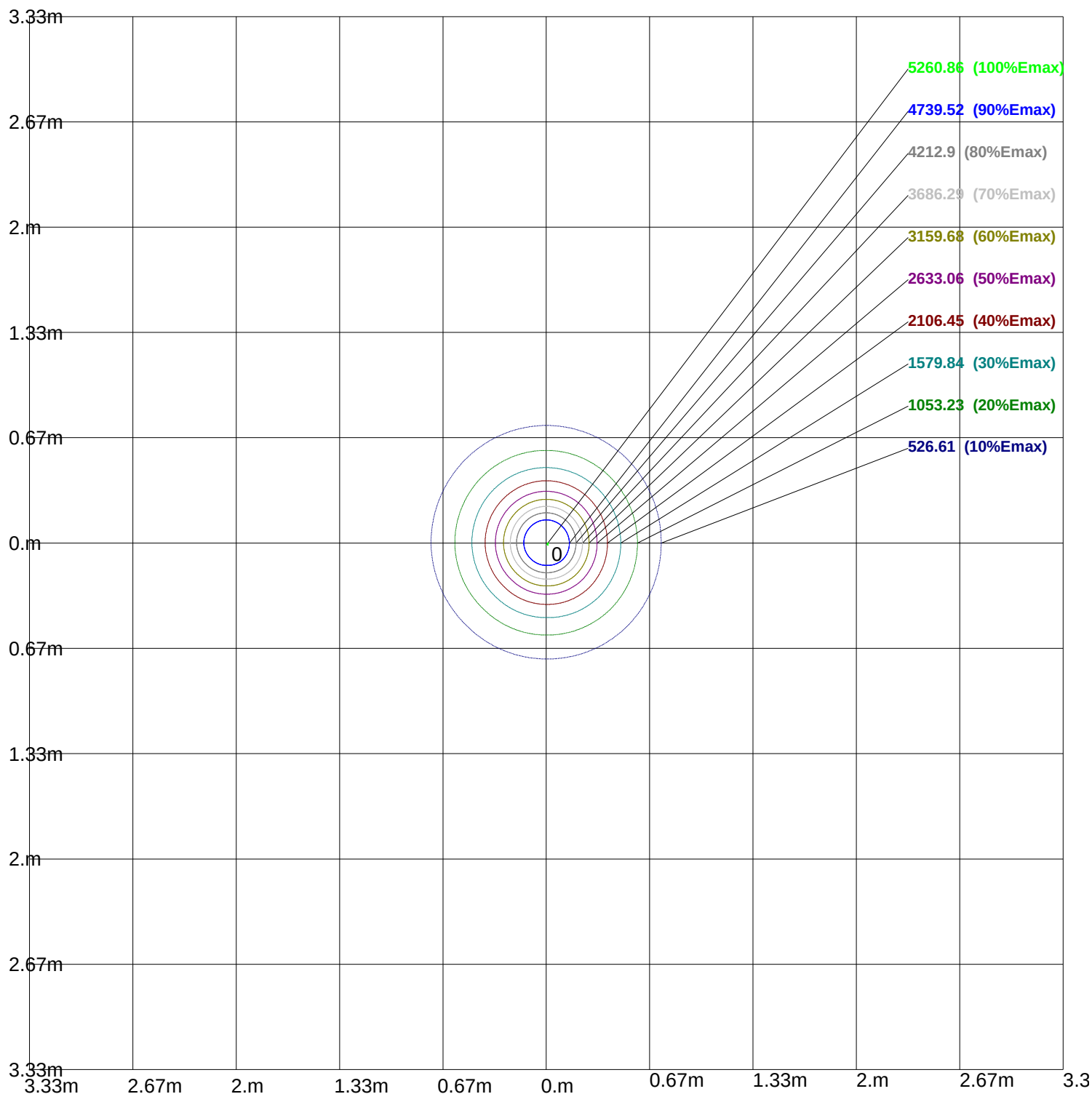
Max Plane Light Distribution Curve [Unit: cd]



等光强曲线 V-H [cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 5266.13lx

Luminance Limiting Curve

Diameter: 195mm

Length: mm

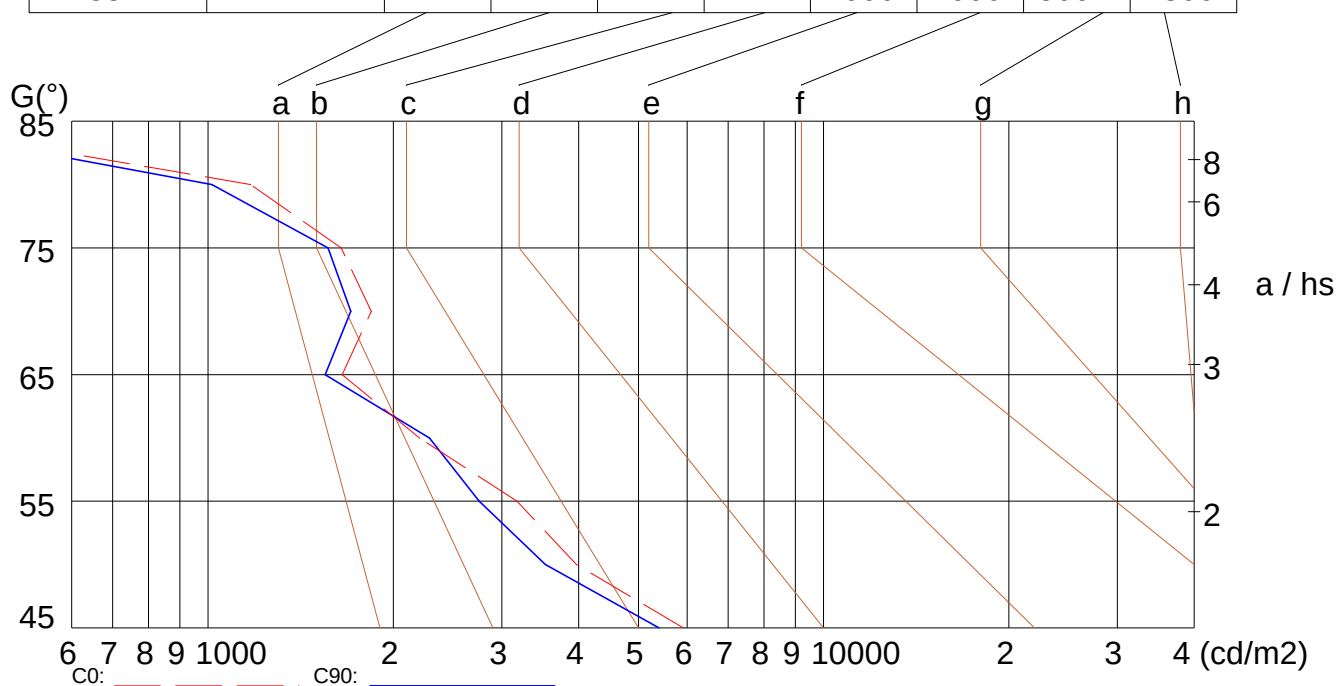
Width: 195mm

Height: 140mm

(cd/m²)

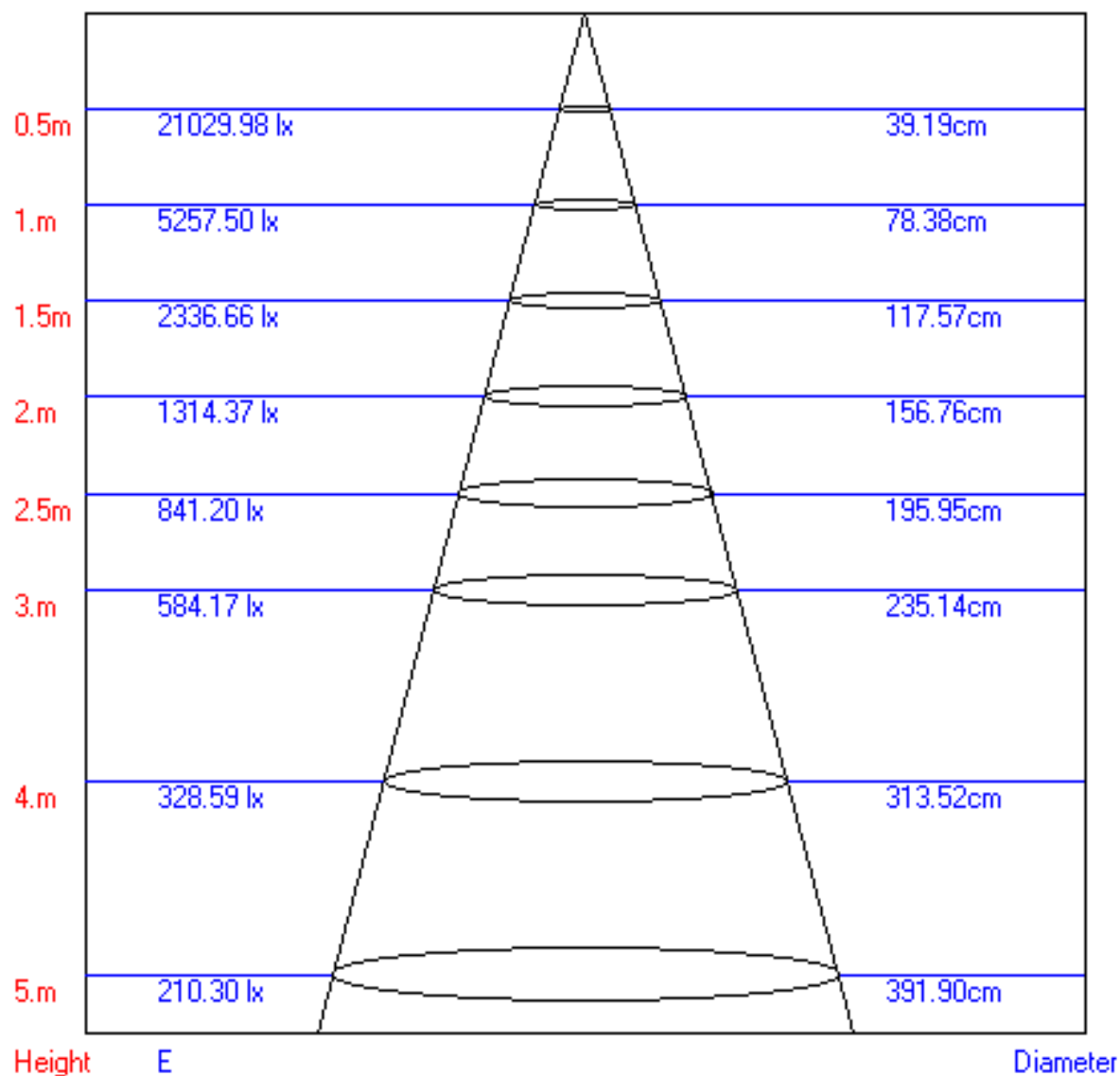
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	5914	3966	3175	2206	1651	1840	1645	1172	
C90	5399	3530	2757	2288	1549	1705	1566	1014	

Glare	Quality	Service Values Illuminance (lx)							
1.15	A	2000	1000	500	≤300				
1.5	B		2000	1000	500	≤300			
1.85	C			2000	1000	500	≤300		
2.2	D				2000	1000	500	≤300	
2.55	E					2000	1000	500	≤300



Lum. Limiting Curve (C0/C90)

Lux-Distance Curve



Beam Angle:42.80°

Utilization Coefficient Table

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	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.14	1.14	1.13	1.13	1.12	1.11	1.08	1.07	1.06	1.03	1.02	1.00	0.95	0.94	0.93	0.88
2	1.07	1.06	1.05	1.06	1.04	1.03	1.02	1.00	0.98	0.97	0.95	0.93	0.91	0.89	0.87	0.82
3	1.00	0.99	0.98	0.99	0.97	0.96	0.96	0.93	0.92	0.92	0.89	0.87	0.87	0.84	0.81	0.77
4	0.94	0.93	0.92	0.93	0.91	0.90	0.90	0.88	0.86	0.87	0.84	0.81	0.83	0.79	0.76	0.72
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.71	0.68
6	0.83	0.82	0.81	0.83	0.80	0.79	0.80	0.77	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.64
7	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.60
8	0.74	0.73	0.72	0.74	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.68	0.63	0.60	0.57
9	0.70	0.69	0.68	0.70	0.68	0.66	0.68	0.65	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.53
10	0.67	0.65	0.65	0.66	0.64	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.54	0.51

