Luminaire Property

Luminaire: RH-SPL09 9W 3000K

Report NO.:
Test NO.:
Lamp:
Sum Lumens: 888.65 lm
Number of Lamps: 1
Diameter: mm
Length: 145mm
Photometric Type: Type C

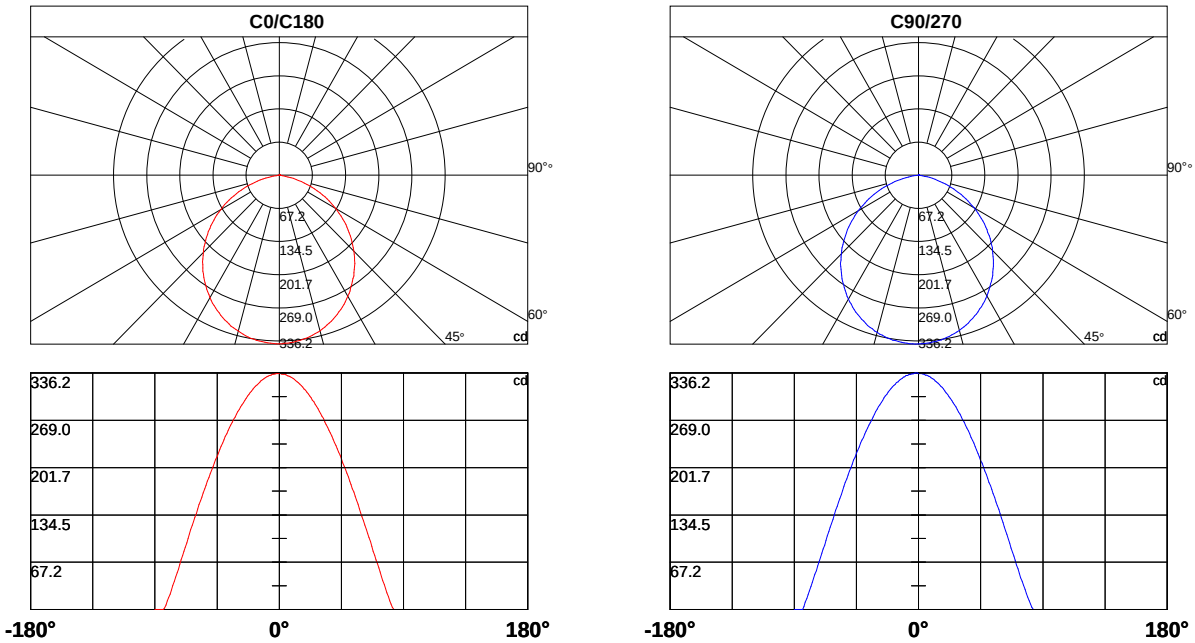
Voltage: 229.5 V
Current: 0.074 A
Power: 8.8 W
Power Factor: 0.515
Ballast Type: EMC8-12X1W 300mA
Width: 145mm
Height: 20mm
Remark: SMD2835 5B9C

Photometric Results

Lumens: 888.65 lm
Efficiency: 100.983 lm/W
Central Intensity: 335.625cd
Maximum Intensity: 336.182cd

Beam Angle(10%): Left: -76.8 Right:77.2

Angle of maximum intensity: C:225.0 G:1.0
Half Peak Side Angle(50%): Left: -54.2 Right:54.5
Light Out Rate(LOR) : 100.00%
Up Flux Rate: 0.0%
Down Flux Rate: 100.0%



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	335.6	335.5	334.7	334.8	334.2	333.6	332.4	331.8	330.8	329.8
45.0	335.6	335.6	335.3	334.8	334.3	333.2	333.1	331.6	331.2	329.6
90.0	335.6	335.6	335.3	334.8	334.3	333.2	333.1	331.6	331.2	329.6
135.0	335.6	335.6	335.2	335.0	334.4	334.2	333.1	332.7	331.7	330.6
180.0	335.6	335.6	335.2	335.0	334.4	334.2	333.1	332.7	331.7	330.6
225.0	335.6	336.2	336.2	336.0	335.1	334.9	334.0	334.0	332.8	332.6
270.0	335.6	336.2	336.2	336.0	335.1	334.9	334.0	334.0	332.8	332.6
315.0	335.6	335.5	334.7	334.8	334.2	333.6	332.4	331.8	330.8	329.8
360.0	335.6	335.5	334.7	334.8	334.2	333.6	332.4	331.8	330.8	329.8

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	328.6	327.1	325.6	323.7	322.1	320.5	318.0	316.4	313.4	311.5
45.0	328.0	327.1	324.9	323.5	321.7	319.9	317.6	315.9	313.5	310.9
90.0	328.0	327.1	324.9	323.5	321.7	319.9	317.6	315.9	313.5	310.9
135.0	329.5	328.2	326.6	325.2	323.2	321.3	319.5	317.7	315.8	313.6
180.0	329.5	328.2	326.6	325.2	323.2	321.3	319.5	317.7	315.8	313.6
225.0	331.0	330.3	328.7	327.0	326.0	323.7	322.4	319.9	318.7	316.2
270.0	331.0	330.3	328.7	327.0	326.0	323.7	322.4	319.9	318.7	316.2
315.0	328.6	327.1	325.6	323.7	322.1	320.5	318.0	316.4	313.4	311.5
360.0	328.6	327.1	325.6	323.7	322.1	320.5	318.0	316.4	313.4	311.5

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	308.9	306.5	303.7	301.3	297.6	295.4	291.9	289.0	285.5	281.6
45.0	307.9	305.7	302.4	300.3	297.4	294.1	291.1	288.0	284.6	280.8
90.0	307.9	305.7	302.4	300.3	297.4	294.1	291.1	288.0	284.6	280.8
135.0	310.4	308.5	305.8	303.4	299.9	297.2	294.0	290.7	288.1	284.5
180.0	310.4	308.5	305.8	303.4	299.9	297.2	294.0	290.7	288.1	284.5
225.0	314.0	311.3	308.9	305.9	303.3	300.9	297.3	294.6	290.8	288.3
270.0	314.0	311.3	308.9	305.9	303.3	300.9	297.3	294.6	290.8	288.3
315.0	308.9	306.5	303.7	301.3	297.6	295.4	291.9	289.0	285.5	281.6
360.0	308.9	306.5	303.7	301.3	297.6	295.4	291.9	289.0	285.5	281.6

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	278.3	274.7	271.5	266.8	263.2	259.0	254.6	251.2	246.4	242.0
45.0	277.6	273.6	269.5	265.9	261.4	258.0	253.9	249.9	244.7	240.3
90.0	277.6	273.6	269.5	265.9	261.4	258.0	253.9	249.9	244.7	240.3
135.0	281.4	277.3	273.6	270.2	266.1	262.1	258.6	254.2	249.8	246.2
180.0	281.4	277.3	273.6	270.2	266.1	262.1	258.6	254.2	249.8	246.2
225.0	284.8	281.3	277.2	273.5	269.5	265.5	262.0	258.1	253.6	249.4
270.0	284.8	281.3	277.2	273.5	269.5	265.5	262.0	258.1	253.6	249.4
315.0	278.3	274.7	271.5	266.8	263.2	259.0	254.6	251.2	246.4	242.0
360.0	278.3	274.7	271.5	266.8	263.2	259.0	254.6	251.2	246.4	242.0

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	237.3	233.2	228.3	223.9	219.2	214.4	208.5	203.5	198.9	194.0
45.0	236.5	231.6	227.0	221.9	217.0	211.8	208.0	202.3	197.2	192.0
90.0	236.5	231.6	227.0	221.9	217.0	211.8	208.0	202.3	197.2	192.0
135.0	241.3	236.7	232.2	227.6	222.3	217.4	213.3	208.3	202.9	197.4
180.0	241.3	236.7	232.2	227.6	222.3	217.4	213.3	208.3	202.9	197.4
225.0	244.6	240.5	236.4	231.0	226.4	221.9	216.6	212.4	206.7	201.5
270.0	244.6	240.5	236.4	231.0	226.4	221.9	216.6	212.4	206.7	201.5
315.0	237.3	233.2	228.3	223.9	219.2	214.4	208.5	203.5	198.9	194.0
360.0	237.3	233.2	228.3	223.9	219.2	214.4	208.5	203.5	198.9	194.0

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	188.4	182.7	177.6	171.5	167.0	161.1	155.4	149.6	143.4	137.3
45.0	186.8	180.6	176.4	170.7	164.9	159.2	152.9	148.0	142.3	135.9
90.0	186.8	180.6	176.4	170.7	164.9	159.2	152.9	148.0	142.3	135.9
135.0	192.9	187.3	182.3	176.5	171.4	165.6	159.6	154.9	149.1	142.8
180.0	192.9	187.3	182.3	176.5	171.4	165.6	159.6	154.9	149.1	142.8
225.0	196.4	190.8	185.6	180.4	175.0	169.1	163.3	157.5	152.4	146.3
270.0	196.4	190.8	185.6	180.4	175.0	169.1	163.3	157.5	152.4	146.3
315.0	188.4	182.7	177.6	171.5	167.0	161.1	155.4	149.6	143.4	137.3
360.0	188.4	182.7	177.6	171.5	167.0	161.1	155.4	149.6	143.4	137.3

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	131.9	126.0	120.1	113.8	107.7	102.3	96.3	89.7	83.0	76.8
45.0	130.3	123.8	117.5	112.1	106.7	99.7	94.0	87.2	81.1	76.1
90.0	130.3	123.8	117.5	112.1	106.7	99.7	94.0	87.2	81.1	76.1
135.0	136.6	131.1	125.4	119.6	113.5	107.3	101.0	94.5	88.4	82.6
180.0	136.6	131.1	125.4	119.6	113.5	107.3	101.0	94.5	88.4	82.6
225.0	140.9	134.6	128.3	121.9	116.7	110.9	104.5	98.3	91.6	85.8
270.0	140.9	134.6	128.3	121.9	116.7	110.9	104.5	98.3	91.6	85.8
315.0	131.9	126.0	120.1	113.8	107.7	102.3	96.3	89.7	83.0	76.8
360.0	131.9	126.0	120.1	113.8	107.7	102.3	96.3	89.7	83.0	76.8

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	70.7	65.7	59.1	53.3	47.0	40.7	35.5	29.4	23.8	18.2
45.0	69.9	63.2	57.7	51.5	45.1	40.1	34.6	28.8	23.0	17.7
90.0	69.9	63.2	57.7	51.5	45.1	40.1	34.6	28.8	23.0	17.7
135.0	76.9	70.3	64.0	57.4	52.2	46.0	40.0	33.9	27.7	21.9
180.0	76.9	70.3	64.0	57.4	52.2	46.0	40.0	33.9	27.7	21.9
225.0	80.2	74.3	67.3	61.8	55.0	49.9	44.4	38.0	32.5	26.2
270.0	80.2	74.3	67.3	61.8	55.0	49.9	44.4	38.0	32.5	26.2
315.0	70.7	65.7	59.1	53.3	47.0	40.7	35.5	29.4	23.8	18.2
360.0	70.7	65.7	59.1	53.3	47.0	40.7	35.5	29.4	23.8	18.2

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	12.5	7.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	12.4	7.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	12.4	7.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	17.1	12.3	6.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
180.0	17.1	12.3	6.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
225.0	21.0	15.5	10.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0
270.0	21.0	15.5	10.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0
315.0	12.5	7.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	12.5	7.7	3.2	0.0	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

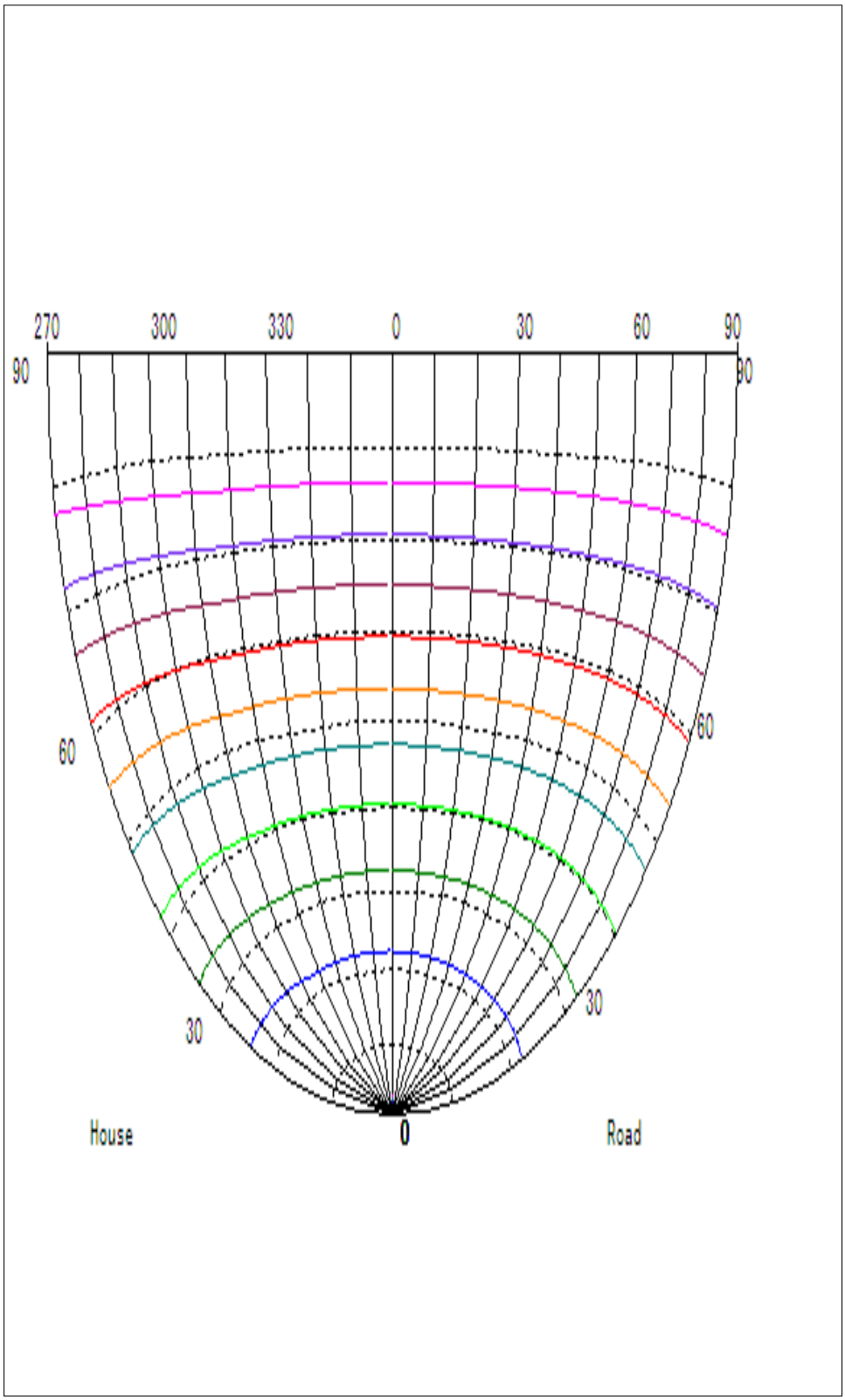
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	335.62	0.00	0.00	0.00	0.00
1	335.71	0.32	0.32	0.04	0.04
2	335.33	0.96	1.28	0.11	0.14
3	335.15	1.60	2.89	0.18	0.32
4	334.51	2.24	5.13	0.25	0.58
5	333.97	2.88	8.01	0.32	0.90
6	333.15	3.51	11.51	0.39	1.30
7	332.51	4.13	15.64	0.46	1.76
8	331.61	4.75	20.40	0.53	2.30
9	330.65	5.37	25.76	0.60	2.90
10	329.27	5.97	31.74	0.67	3.57
11	328.14	6.57	38.30	0.74	4.31
12	326.46	7.16	45.46	0.81	5.12
13	324.85	7.73	53.19	0.87	5.99
14	323.23	8.30	61.48	0.93	6.92
15	321.36	8.85	70.33	1.00	7.91
16	319.38	9.39	79.72	1.06	8.97
17	317.46	9.92	89.64	1.12	10.09
18	315.35	10.43	100.07	1.17	11.26
19	313.07	10.93	111.01	1.23	12.49
20	310.30	11.41	122.42	1.28	13.78
21	308.00	11.87	134.29	1.34	15.11
22	305.21	12.32	146.61	1.39	16.50
23	302.71	12.76	159.37	1.44	17.93
24	299.55	13.17	172.53	1.48	19.42
25	296.89	13.56	186.10	1.53	20.94
26	293.57	13.94	200.03	1.57	22.51
27	290.59	14.29	214.33	1.61	24.12
28	287.26	14.63	228.96	1.65	25.76
29	283.81	14.94	243.90	1.68	27.45
30	280.53	15.24	259.13	1.71	29.16
31	276.74	15.51	274.64	1.75	30.91
32	272.96	15.75	290.39	1.77	32.68
33	269.11	15.97	306.36	1.80	34.47
34	265.07	16.17	322.53	1.82	36.29
35	261.13	16.34	338.87	1.84	38.13
36	257.29	16.51	355.37	1.86	39.99
37	253.36	16.65	372.03	1.87	41.86
38	248.65	16.76	388.78	1.89	43.75
39	244.47	16.83	405.62	1.89	45.64
40	239.93	16.89	422.51	1.90	47.55

Zonal Flux Distribution

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	235.51	16.93	439.44	1.91	49.45
42	230.98	16.95	456.39	1.91	51.36
43	226.11	16.93	473.32	1.91	53.26
44	221.22	16.88	490.20	1.90	55.16
45	216.38	16.82	507.02	1.89	57.06
46	211.58	16.74	523.76	1.88	58.94
47	206.62	16.63	540.39	1.87	60.81
48	201.41	16.49	556.89	1.86	62.67
49	196.23	16.33	573.22	1.84	64.50
50	191.11	16.15	589.37	1.82	66.32
51	185.36	15.93	605.29	1.79	68.11
52	180.48	15.70	620.99	1.77	69.88
53	174.78	15.45	636.44	1.74	71.62
54	169.57	15.18	651.62	1.71	73.33
55	163.76	14.88	666.50	1.67	75.00
56	157.80	14.53	681.03	1.64	76.64
57	152.50	14.19	695.22	1.60	78.23
58	146.84	13.84	709.06	1.56	79.79
59	140.56	13.44	722.50	1.51	81.30
60	134.94	13.02	735.51	1.46	82.77
61	128.88	12.59	748.10	1.42	84.18
62	122.82	12.13	760.23	1.36	85.55
63	116.87	11.66	771.89	1.31	86.86
64	111.17	11.19	783.08	1.26	88.12
65	105.06	10.70	793.78	1.20	89.32
66	98.93	10.18	803.96	1.15	90.47
67	92.43	9.62	813.58	1.08	91.55
68	86.04	9.04	822.62	1.02	92.57
69	80.31	8.49	831.11	0.95	93.52
70	74.43	7.95	839.05	0.89	94.42
71	68.39	7.38	846.44	0.83	95.25
72	62.02	6.78	853.22	0.76	96.01
73	55.99	6.17	859.39	0.69	96.71
74	49.82	5.56	864.95	0.63	97.33
75	44.18	4.97	869.92	0.56	97.89
76	38.64	4.40	874.31	0.49	98.39
77	32.51	3.79	878.11	0.43	98.81
78	26.75	3.17	881.28	0.36	99.17
79	21.00	2.57	883.85	0.29	99.46
80	15.76	1.98	885.83	0.22	99.68
81	10.81	1.44	887.26	0.16	99.84

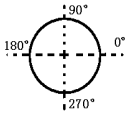
Zonal Flux Distribution

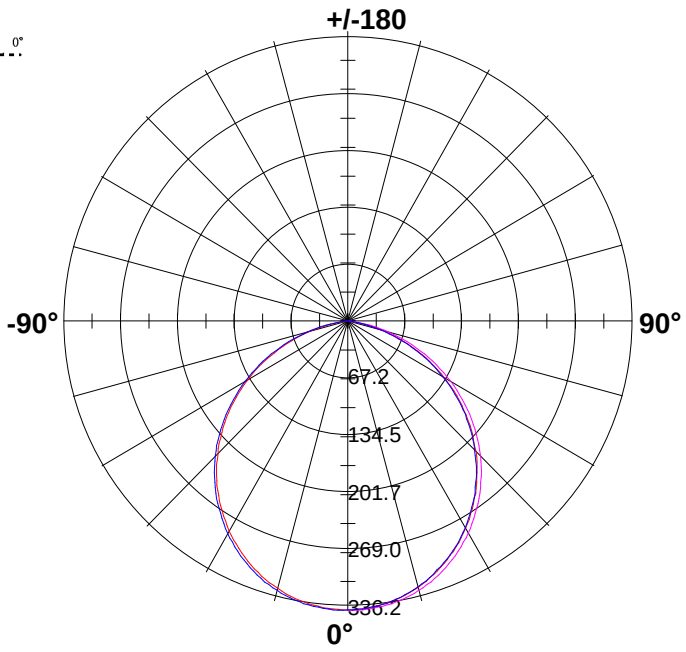
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
82	5.88	0.91	888.17	0.10	99.95
83	1.43	0.40	888.57	0.04	99.99
84	0.00	0.08	888.64	0.01	100.00
85	0.00	0.00	888.64	0.00	100.00
86	0.00	0.00	888.64	0.00	100.00
87	0.00	0.00	888.64	0.00	100.00
88	0.00	0.00	888.64	0.00	100.00
89	0.00	0.00	888.64	0.00	100.00
90	0.00	0.00	888.64	0.00	100.00

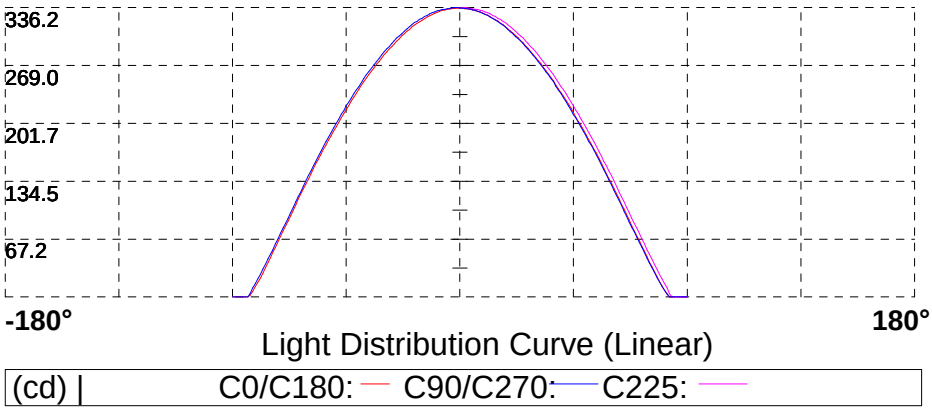

270
300
330
0
30
60
90
90
90
60
60
30
30
House
0
Road
33.6182 cd
67.2364 cd
100.8546 cd
134.4728 cd
168.091 cd
201.7092 cd
235.3274 cd
268.9456 cd
302.5638 cd
336.182 cd

Light Distribution Curve [Unit: cd]

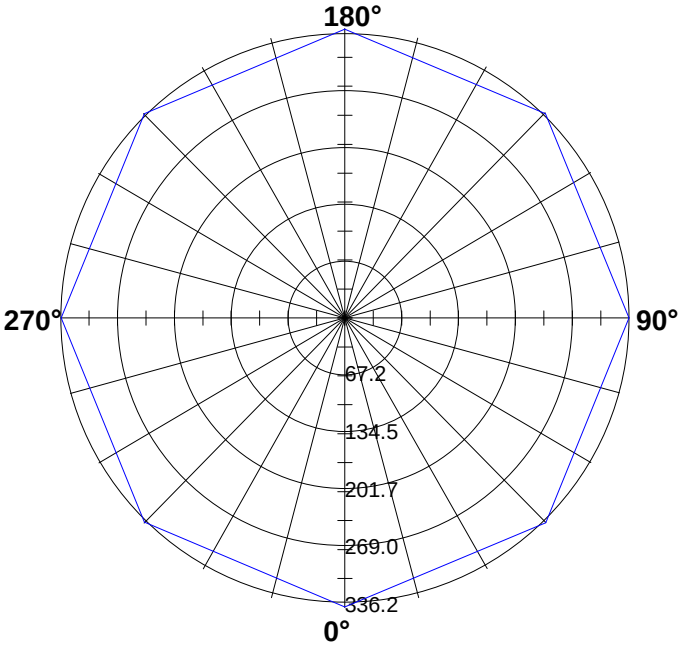
Luminaire

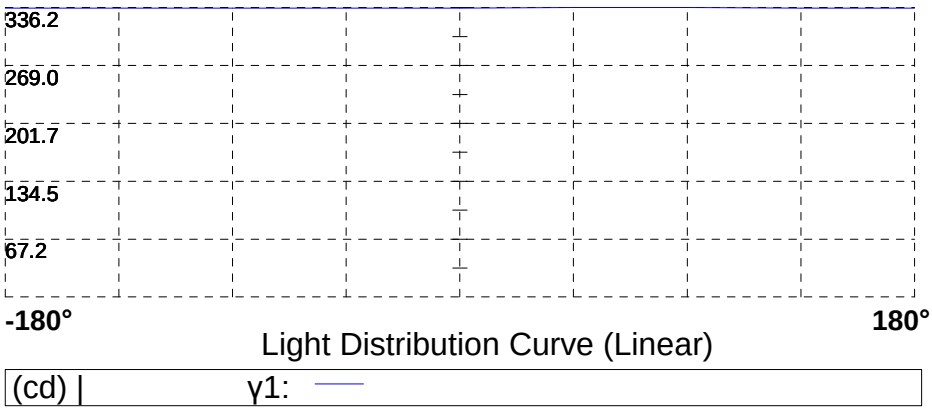




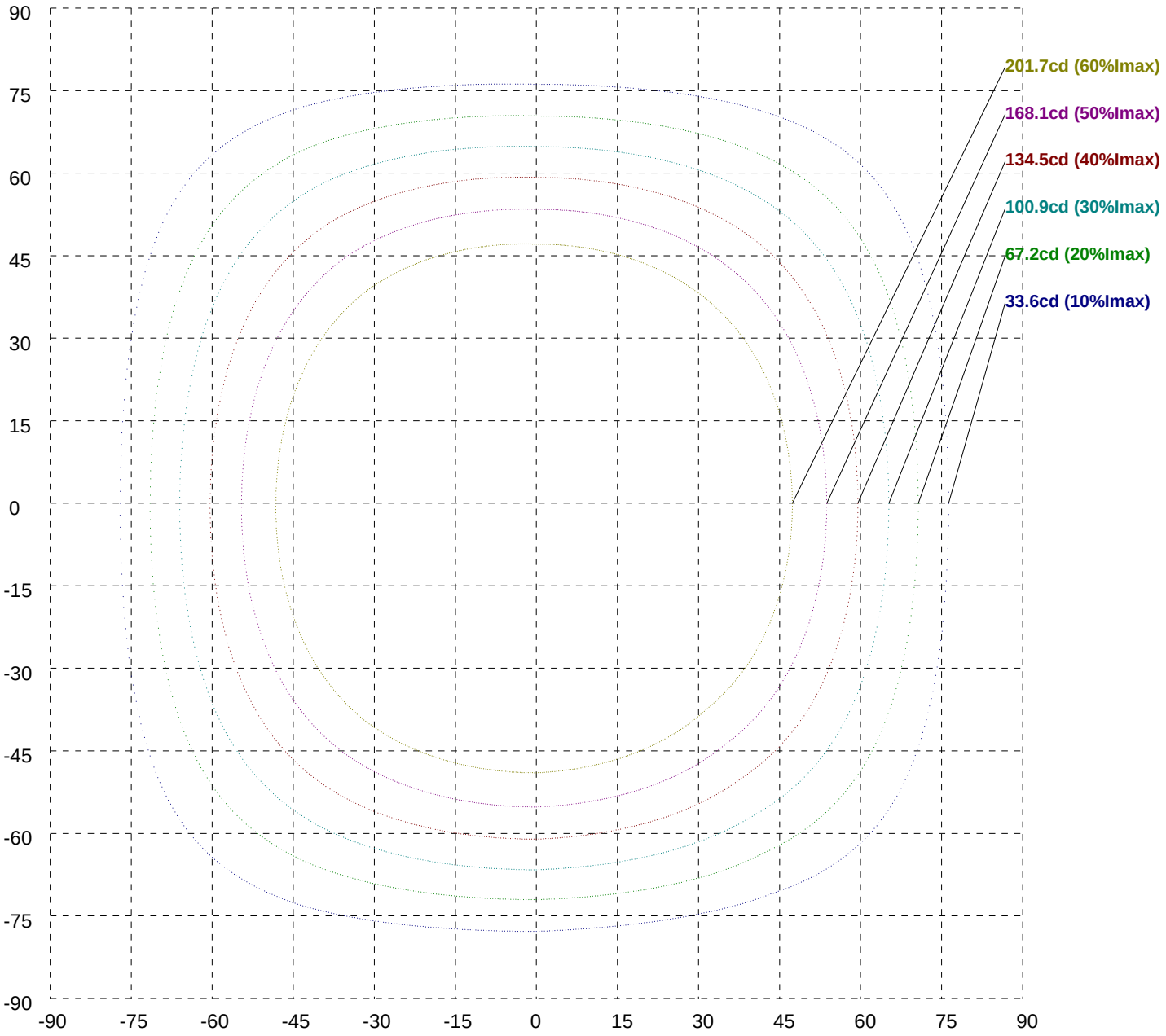


Max Plane Light Distribution Curve [Unit: cd]



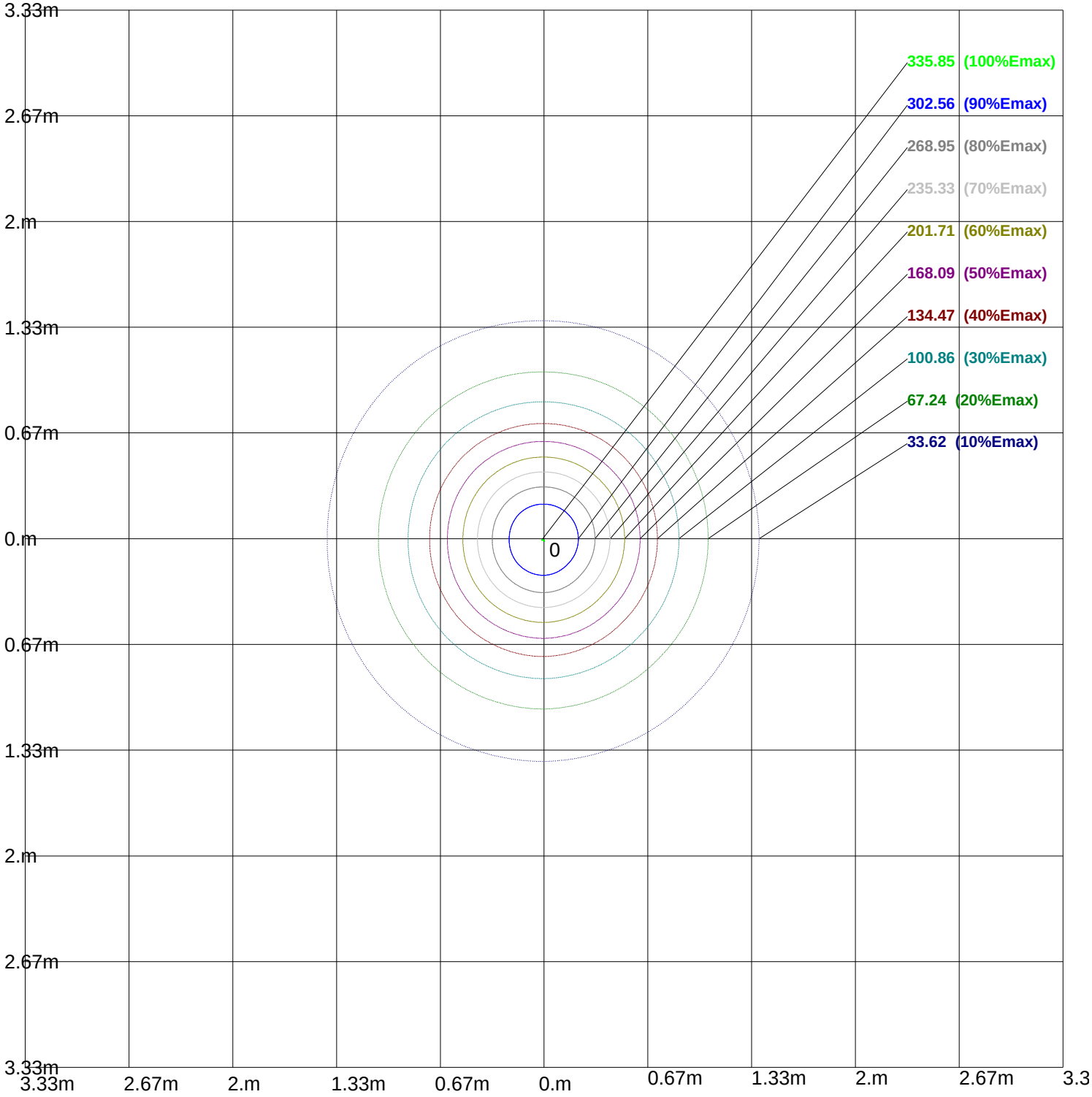


等光强曲线 V-H [cd]



测试设备:LINKCOLOR LCG-GONIO　　测试日期:2021-10-20　　测试人员:Steven
环境温度:25℃　　环境湿度:60%　　报告编号:

Iso-Lux[lx]



Height: 1 m
Max Illuminance : 336.18lx

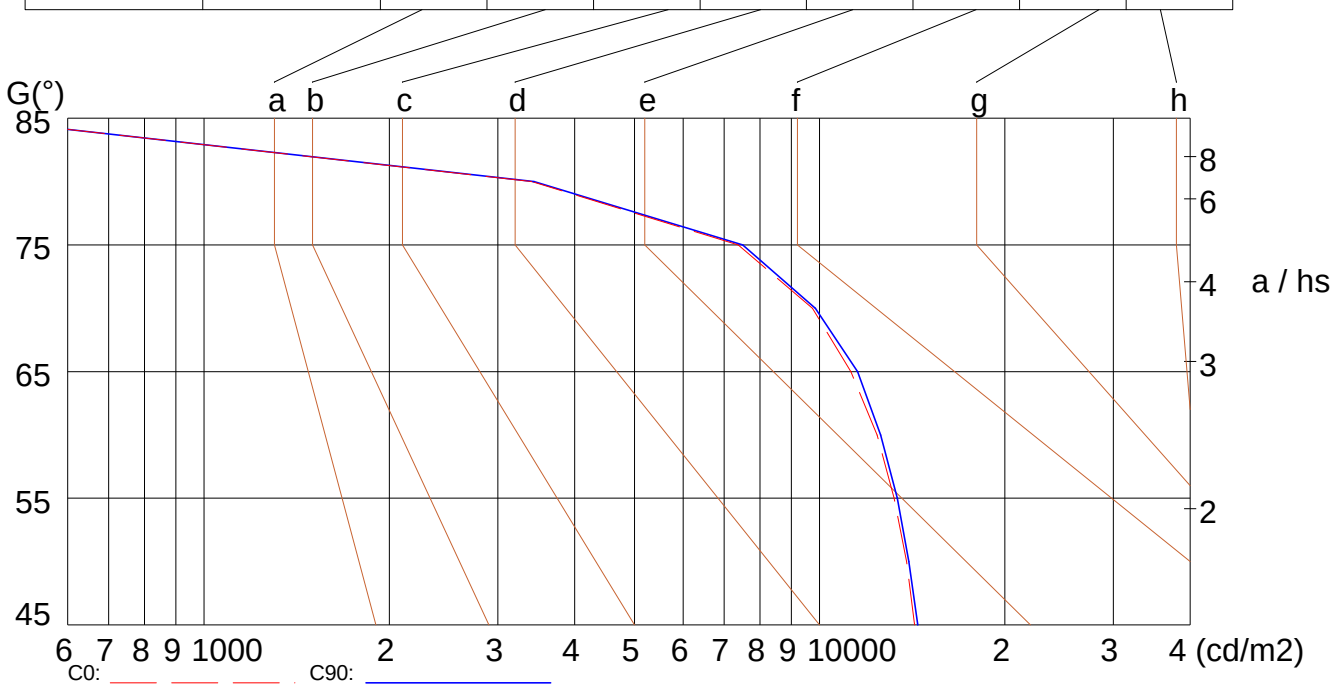
Luminance Limitting Curve

Diameter: mm
Length: 145mm
Width: 145mm
Height: 20mm

(cd/m2)

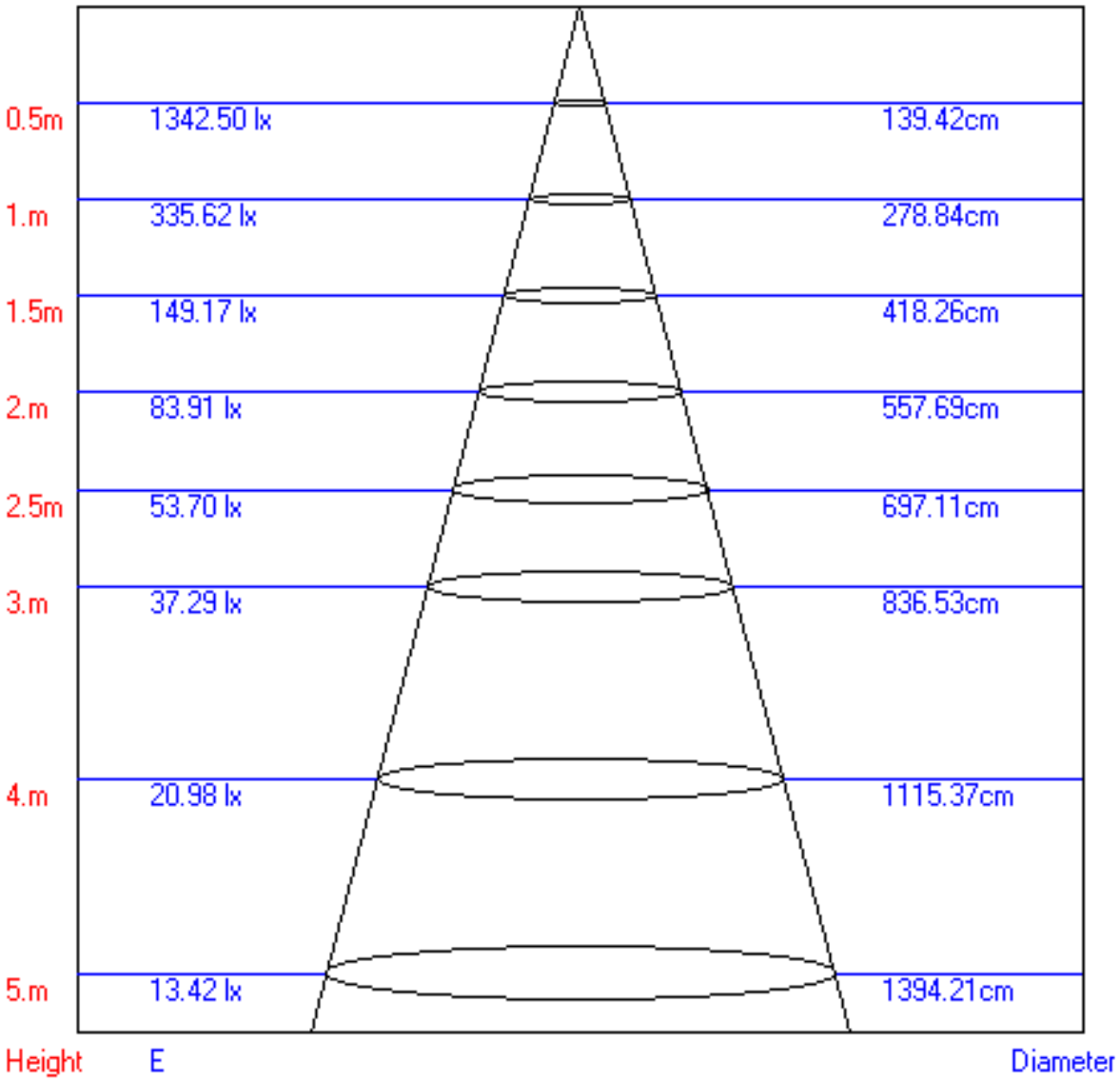
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	14263	13835	13217	12406	11238	9737	7374	3407	
C90	14439	13960	13378	12566	11526	9844	7496	3435	

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. Limitting Curve (C0/C90)

Lux-Distance Curve



Beam Angle:108.70°

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	1.06	1.05	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.90	0.87	0.85	0.80
2	0.91	0.89	0.87	0.90	0.87	0.85	0.88	0.84	0.82	0.84	0.81	0.77	0.80	0.76	0.72	0.68
3	0.78	0.75	0.74	0.78	0.75	0.72	0.77	0.72	0.69	0.74	0.70	0.66	0.71	0.66	0.62	0.57
4	0.68	0.65	0.63	0.68	0.64	0.62	0.67	0.63	0.59	0.66	0.61	0.56	0.64	0.58	0.53	0.49
5	0.59	0.56	0.55	0.60	0.56	0.54	0.60	0.55	0.51	0.59	0.53	0.49	0.58	0.51	0.46	0.43
6	0.52	0.50	0.48	0.53	0.49	0.47	0.54	0.49	0.45	0.53	0.48	0.43	0.53	0.46	0.41	0.37
7	0.47	0.44	0.42	0.47	0.44	0.42	0.48	0.43	0.40	0.49	0.43	0.38	0.48	0.41	0.36	0.33
8	0.42	0.39	0.38	0.43	0.39	0.37	0.44	0.39	0.36	0.44	0.38	0.34	0.44	0.38	0.33	0.29
9	0.38	0.36	0.34	0.39	0.36	0.34	0.40	0.35	0.32	0.41	0.35	0.31	0.41	0.34	0.29	0.27
10	0.35	0.32	0.31	0.35	0.32	0.30	0.37	0.32	0.29	0.38	0.32	0.28	0.38	0.32	0.27	0.24

Budgetary Estimate Chart			
Light Flux	888.65 lmlm		
Maintenance	0.8/0.8		
Aver E	200lx		
Work Plane H	0		
Place Name	Cel	Wall	Floor
Reflect1	0.7	0.5	0.2
Reflect2	0.5	0.3	0.2