

## Luminaire Property

Luminaire: RH-D02 22W 4000K

Report NO.:

Test NO.: HLB210908

Lamp:

Sum Lumens: 1820.5 lm

Number of Lamps: 1

Diameter: 380mm

Length: mm

Photometric Type: Type C

Voltage: 229.8 V

Current: 0.089 A

Power: 19.5 W

Power Factor: 0.945

Ballast Type: EBP021C0250C1 56-85V 250mA

Width: 380mm

Height: 100mm

Remark: 48pcs SMD5730 2B24C

## Photometric Results

Lumens: 1820.50 lm

Efficiency: 93.359 lm/W

Central Intensity: 582.621cd

Maximum Intensity: 583.614cd

Angle of maximum intensity: C:135.0 G:1.0

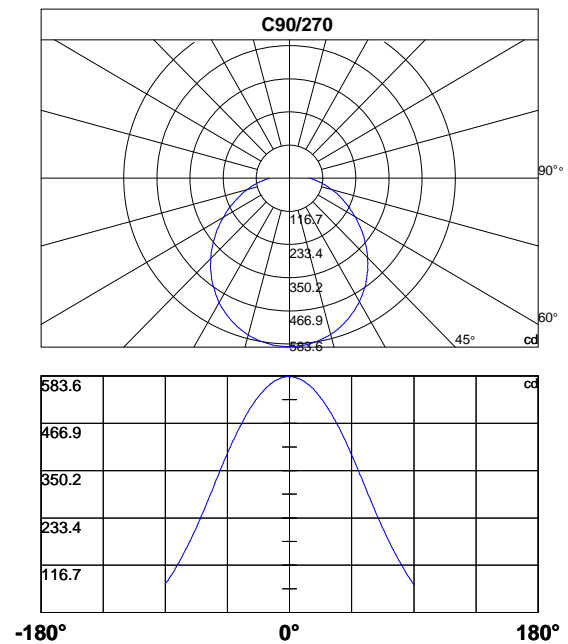
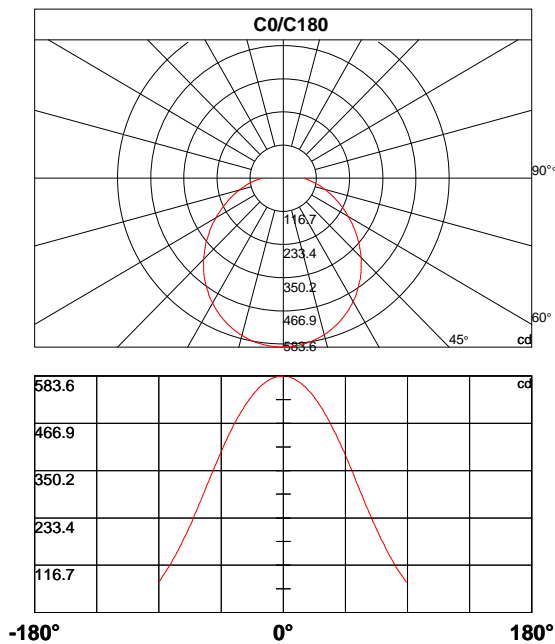
Half Peak Side Angle(50%): Left: -57.7 Right:56.8

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -57.7 Right:56.7



### 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	582.6	583.3	582.9	582.4	582.0	580.5	579.2	577.5	576.3	574.5
45.0	582.6	581.4	581.8	580.4	580.8	578.8	578.0	576.7	575.0	573.3
90.0	582.6	581.4	581.8	580.4	580.8	578.8	578.0	576.7	575.0	573.3
135.0	582.6	583.6	583.0	582.8	582.3	581.2	580.4	579.2	577.8	576.4
180.0	582.6	583.6	583.0	582.8	582.3	581.2	580.4	579.2	577.8	576.4
225.0	582.6	582.1	582.0	581.3	580.8	580.3	579.1	577.3	576.0	574.8
270.0	582.6	582.1	582.0	581.3	580.8	580.3	579.1	577.3	576.0	574.8
315.0	582.6	583.3	582.9	582.4	582.0	580.5	579.2	577.5	576.3	574.5
360.0	582.6	583.3	582.9	582.4	582.0	580.5	579.2	577.5	576.3	574.5

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	572.1	570.3	567.7	565.0	562.0	559.2	556.4	552.7	549.3	544.9
45.0	571.0	569.5	566.8	563.8	561.8	558.4	555.3	552.8	548.4	545.2
90.0	571.0	569.5	566.8	563.8	561.8	558.4	555.3	552.8	548.4	545.2
135.0	574.6	572.6	570.2	567.6	565.2	562.1	559.9	556.2	553.5	549.0
180.0	574.6	572.6	570.2	567.6	565.2	562.1	559.9	556.2	553.5	549.0
225.0	572.5	571.4	568.4	565.8	564.0	560.3	557.6	554.1	551.0	547.1
270.0	572.5	571.4	568.4	565.8	564.0	560.3	557.6	554.1	551.0	547.1
315.0	572.1	570.3	567.7	565.0	562.0	559.2	556.4	552.7	549.3	544.9
360.0	572.1	570.3	567.7	565.0	562.0	559.2	556.4	552.7	549.3	544.9

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	541.6	537.6	533.3	528.2	523.5	518.8	513.6	508.7	503.1	497.7
45.0	540.6	536.5	532.1	528.0	523.6	518.1	513.7	508.2	502.5	497.9
90.0	540.6	536.5	532.1	528.0	523.6	518.1	513.7	508.2	502.5	497.9
135.0	545.3	542.0	538.0	533.7	528.6	524.0	519.4	514.2	509.2	503.2
180.0	545.3	542.0	538.0	533.7	528.6	524.0	519.4	514.2	509.2	503.2
225.0	543.2	539.2	534.9	530.9	526.2	521.7	516.6	511.0	506.4	501.3
270.0	543.2	539.2	534.9	530.9	526.2	521.7	516.6	511.0	506.4	501.3
315.0	541.6	537.6	533.3	528.2	523.5	518.8	513.6	508.7	503.1	497.7
360.0	541.6	537.6	533.3	528.2	523.5	518.8	513.6	508.7	503.1	497.7

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	491.4	486.5	480.3	473.8	467.2	460.5	453.1	447.0	440.9	433.1
45.0	492.0	485.8	479.8	473.9	467.0	461.0	455.2	447.5	440.7	432.8
90.0	492.0	485.8	479.8	473.9	467.0	461.0	455.2	447.5	440.7	432.8
135.0	498.0	492.0	486.9	481.0	473.8	467.8	461.1	454.0	448.3	441.1
180.0	498.0	492.0	486.9	481.0	473.8	467.8	461.1	454.0	448.3	441.1
225.0	495.5	489.5	483.4	477.6	470.6	463.6	458.2	451.7	444.8	436.9
270.0	495.5	489.5	483.4	477.6	470.6	463.6	458.2	451.7	444.8	436.9
315.0	491.4	486.5	480.3	473.8	467.2	460.5	453.1	447.0	440.9	433.1
360.0	491.4	486.5	480.3	473.8	467.2	460.5	453.1	447.0	440.9	433.1

### 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	425.9	418.4	410.7	402.6	396.3	388.0	379.7	371.6	363.6	356.3
45.0	426.1	419.9	411.4	404.1	395.8	388.7	381.2	372.9	365.5	356.6
90.0	426.1	419.9	411.4	404.1	395.8	388.7	381.2	372.9	365.5	356.6
135.0	434.3	426.8	419.3	411.3	404.7	397.0	388.6	380.7	372.7	363.9
180.0	434.3	426.8	419.3	411.3	404.7	397.0	388.6	380.7	372.7	363.9
225.0	429.6	423.4	416.0	408.3	400.4	392.3	384.2	377.3	369.3	360.6
270.0	429.6	423.4	416.0	408.3	400.4	392.3	384.2	377.3	369.3	360.6
315.0	425.9	418.4	410.7	402.6	396.3	388.0	379.7	371.6	363.6	356.3
360.0	425.9	418.4	410.7	402.6	396.3	388.0	379.7	371.6	363.6	356.3

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	347.6	339.2	330.7	321.5	313.9	305.9	297.2	289.2	280.4	272.1
45.0	348.6	339.7	333.0	324.0	315.8	307.5	298.7	290.3	282.7	274.9
90.0	348.6	339.7	333.0	324.0	315.8	307.5	298.7	290.3	282.7	274.9
135.0	357.5	348.6	340.3	331.7	323.5	315.8	307.1	299.1	290.0	281.6
180.0	357.5	348.6	340.3	331.7	323.5	315.8	307.1	299.1	290.0	281.6
225.0	352.1	344.0	335.5	327.8	319.1	310.6	301.5	293.7	286.3	277.7
270.0	352.1	344.0	335.5	327.8	319.1	310.6	301.5	293.7	286.3	277.7
315.0	347.6	339.2	330.7	321.5	313.9	305.9	297.2	289.2	280.4	272.1
360.0	347.6	339.2	330.7	321.5	313.9	305.9	297.2	289.2	280.4	272.1

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	263.6	256.8	248.2	240.1	232.2	223.7	217.5	209.3	202.0	194.3
45.0	266.0	257.8	249.5	241.8	234.9	226.9	219.4	211.5	204.1	197.1
90.0	266.0	257.8	249.5	241.8	234.9	226.9	219.4	211.5	204.1	197.1
135.0	273.8	266.0	257.7	249.5	241.6	233.8	225.1	217.6	210.8	203.5
180.0	273.8	266.0	257.7	249.5	241.6	233.8	225.1	217.6	210.8	203.5
225.0	269.2	260.8	252.4	244.1	237.5	229.0	221.4	213.5	205.3	198.3
270.0	269.2	260.8	252.4	244.1	237.5	229.0	221.4	213.5	205.3	198.3
315.0	263.6	256.8	248.2	240.1	232.2	223.7	217.5	209.3	202.0	194.3
360.0	263.6	256.8	248.2	240.1	232.2	223.7	217.5	209.3	202.0	194.3

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	187.2	179.7	173.5	167.1	159.6	153.1	146.3	140.3	134.7	128.4
45.0	189.9	182.8	175.7	168.8	161.5	155.8	148.6	141.8	135.7	129.1
90.0	189.9	182.8	175.7	168.8	161.5	155.8	148.6	141.8	135.7	129.1
135.0	195.7	188.0	182.6	175.1	168.3	161.0	154.3	147.5	140.8	135.8
180.0	195.7	188.0	182.6	175.1	168.3	161.0	154.3	147.5	140.8	135.8
225.0	191.4	184.1	176.5	169.6	162.6	156.7	150.0	143.4	137.1	130.3
270.0	191.4	184.1	176.5	169.6	162.6	156.7	150.0	143.4	137.1	130.3
315.0	187.2	179.7	173.5	167.1	159.6	153.1	146.3	140.3	134.7	128.4
360.0	187.2	179.7	173.5	167.1	159.6	153.1	146.3	140.3	134.7	128.4

### 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	122.6	116.3	110.5	105.0	100.5	95.3	90.1	85.9	80.6	75.8
45.0	123.0	117.4	111.8	105.2	99.6	94.2	89.1	83.8	78.4	73.2
90.0	123.0	117.4	111.8	105.2	99.6	94.2	89.1	83.8	78.4	73.2
135.0	129.5	122.8	117.6	111.3	106.6	101.1	95.8	90.3	85.1	80.5
180.0	129.5	122.8	117.6	111.3	106.6	101.1	95.8	90.3	85.1	80.5
225.0	124.1	119.0	112.3	106.8	100.7	95.6	89.6	85.3	79.6	75.4
270.0	124.1	119.0	112.3	106.8	100.7	95.6	89.6	85.3	79.6	75.4
315.0	122.6	116.3	110.5	105.0	100.5	95.3	90.1	85.9	80.6	75.8
360.0	122.6	116.3	110.5	105.0	100.5	95.3	90.1	85.9	80.6	75.8

C\G	90.0
0.0	74.6
45.0	68.9
90.0	68.9
135.0	75.4
180.0	75.4
225.0	72.5
270.0	72.5
315.0	74.6
360.0	74.6

## Zonal Flux Distribution

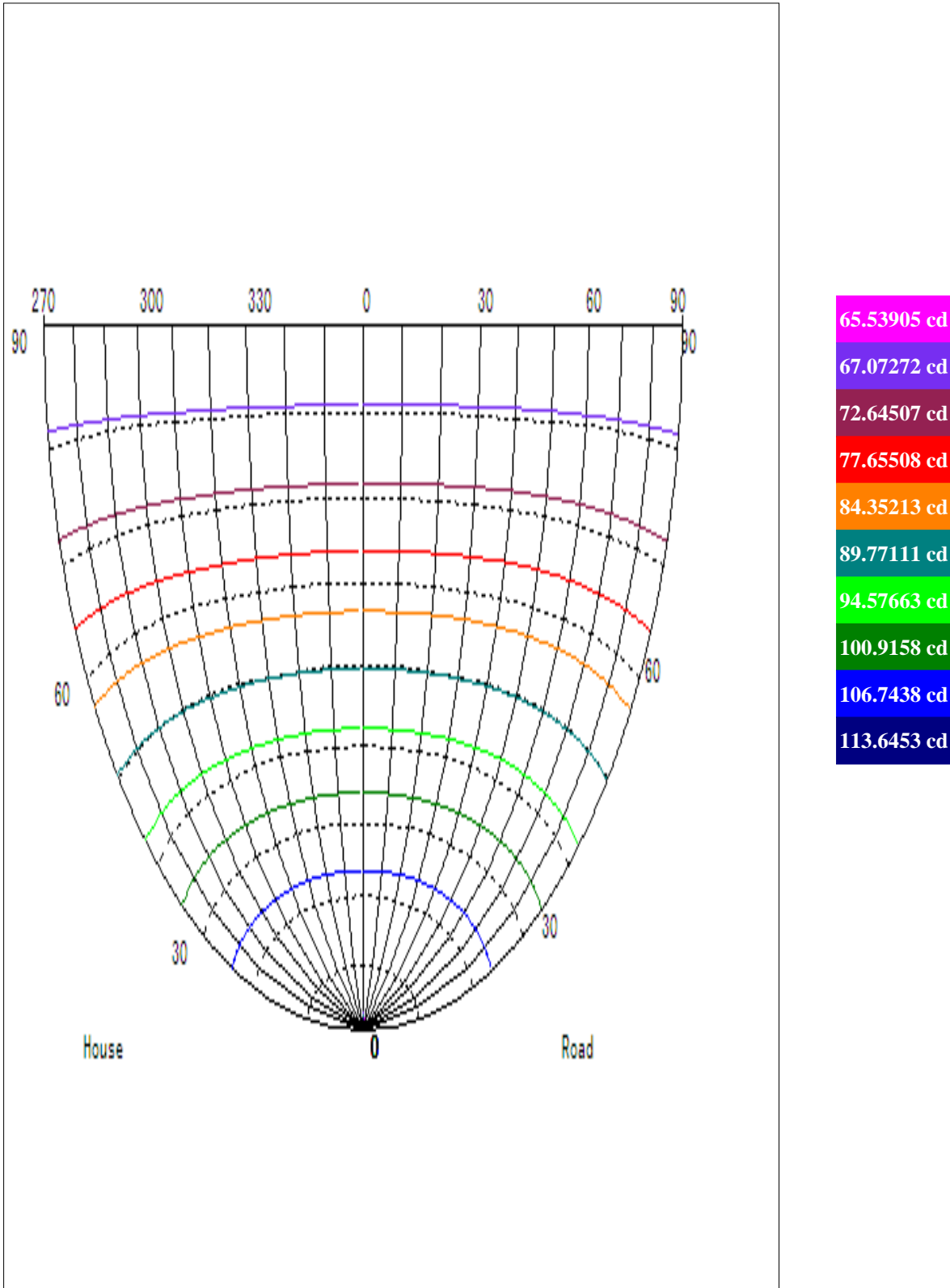
Gamma [°]	lmean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	582.62	0.00	0.00	0.00	0.00
1	582.62	0.56	0.56	0.03	0.03
2	582.43	1.67	2.23	0.09	0.12
3	581.74	2.78	5.01	0.15	0.28
4	581.44	3.89	8.91	0.21	0.49
5	580.18	5.00	13.90	0.27	0.76
6	579.18	6.09	20.00	0.33	1.10
7	577.66	7.18	27.18	0.39	1.49
8	576.25	8.26	35.44	0.45	1.95
9	574.73	9.33	44.76	0.51	2.46
10	572.56	10.38	55.15	0.57	3.03
11	570.92	11.43	66.57	0.63	3.66
12	568.28	12.45	79.03	0.68	4.34
13	565.56	13.46	92.48	0.74	5.08
14	563.27	14.45	106.93	0.79	5.87
15	560.02	15.42	122.35	0.85	6.72
16	557.30	16.37	138.72	0.90	7.62
17	553.96	17.31	156.03	0.95	8.57
18	550.56	18.21	174.24	1.00	9.57
19	546.54	19.09	193.33	1.05	10.62
20	542.69	19.94	213.26	1.10	11.71
21	538.81	20.77	234.03	1.14	12.86
22	534.59	21.57	255.60	1.18	14.04
23	530.22	22.34	277.94	1.23	15.27
24	525.49	23.08	301.02	1.27	16.54
25	520.66	23.79	324.81	1.31	17.84
26	515.83	24.47	349.28	1.34	19.19
27	510.51	25.11	374.39	1.38	20.57
28	505.31	25.72	400.11	1.41	21.98
29	500.03	26.30	426.41	1.44	23.42
30	494.24	26.85	453.25	1.47	24.90
31	488.45	27.35	480.60	1.50	26.40
32	482.61	27.82	508.42	1.53	27.93
33	476.56	28.26	536.68	1.55	29.48
34	469.64	28.63	565.31	1.57	31.05
35	463.22	28.97	594.28	1.59	32.64
36	456.89	29.30	623.58	1.61	34.25
37	450.04	29.58	653.16	1.62	35.88
38	443.65	29.83	682.99	1.64	37.52
39	435.99	30.02	713.01	1.65	39.17
40	428.97	30.17	743.18	1.66	40.82

## Zonal Flux Distribution

Gamma [°]	lmean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	422.11	30.31	773.49	1.66	42.49
42	414.34	30.39	803.88	1.67	44.16
43	406.58	30.41	834.29	1.67	45.83
44	399.31	30.42	864.70	1.67	47.50
45	391.50	30.39	895.09	1.67	49.17
46	383.43	30.31	925.40	1.66	50.83
47	375.61	30.19	955.59	1.66	52.49
48	367.76	30.05	985.64	1.65	54.14
49	359.37	29.86	1015.50	1.64	55.78
50	351.45	29.64	1045.14	1.63	57.41
51	342.85	29.38	1074.51	1.61	59.02
52	334.85	29.08	1103.59	1.60	60.62
53	326.25	28.76	1132.35	1.58	62.20
54	318.07	28.40	1160.75	1.56	63.76
55	309.92	28.03	1188.78	1.54	65.30
56	301.12	27.61	1216.39	1.52	66.82
57	293.10	27.17	1243.56	1.49	68.31
58	284.87	26.73	1270.29	1.47	69.78
59	276.57	26.25	1296.54	1.44	71.22
60	268.15	25.73	1322.27	1.41	72.63
61	260.34	25.22	1347.49	1.39	74.02
62	251.94	24.68	1372.18	1.36	75.37
63	243.87	24.11	1396.29	1.32	76.70
64	236.56	23.57	1419.86	1.29	77.99
65	228.34	23.01	1442.87	1.26	79.26
66	220.85	22.41	1465.28	1.23	80.49
67	213.00	21.82	1487.10	1.20	81.69
68	205.54	21.20	1508.30	1.16	82.85
69	198.27	20.60	1528.90	1.13	83.98
70	191.04	19.99	1548.89	1.10	85.08
71	183.66	19.37	1568.26	1.06	86.14
72	177.05	18.76	1587.02	1.03	87.17
73	170.12	18.15	1605.17	1.00	88.17
74	163.02	17.51	1622.69	0.96	89.13
75	156.65	16.89	1639.58	0.93	90.06
76	149.79	16.27	1655.84	0.89	90.96
77	143.26	15.62	1671.47	0.86	91.81
78	137.07	15.01	1686.47	0.82	92.64
79	130.89	14.40	1700.87	0.79	93.43
80	124.80	13.78	1714.66	0.76	94.19
81	118.86	13.18	1727.83	0.72	94.91

## Zonal Flux Distribution

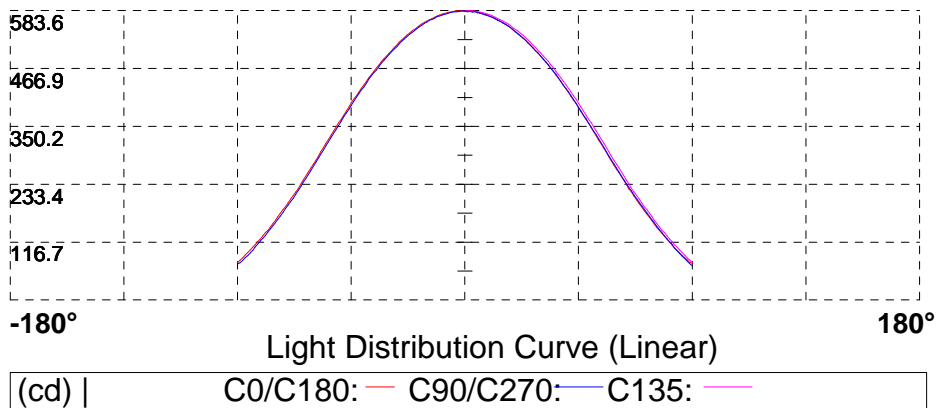
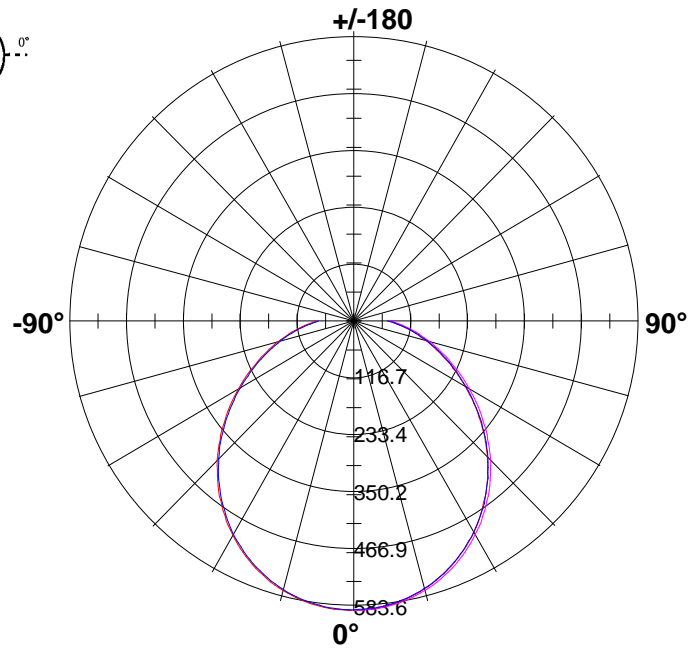
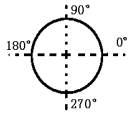
<b>Gamma [°]</b>	<b>I<sub>mean</sub> [cd]</b>	<b>Zonal Flux [lm]</b>	<b>Sum Flux [lm]</b>	<b>Zonal Flux [%]</b>	<b>Sum Flux [%]</b>
82	113.06	12.58	1740.41	0.69	95.60
83	107.08	11.97	1752.37	0.66	96.26
84	101.82	11.38	1763.76	0.63	96.88
85	96.53	10.83	1774.58	0.59	97.48
86	91.15	10.26	1784.84	0.56	98.04
87	86.33	9.71	1794.55	0.53	98.57
88	80.93	9.16	1803.72	0.50	99.08
89	76.21	8.61	1812.33	0.47	99.55
90	72.84	8.17	1820.50	0.45	100.00



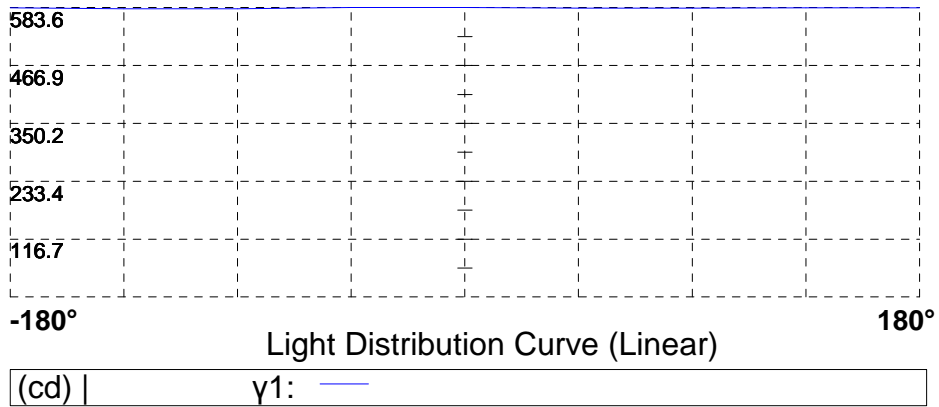
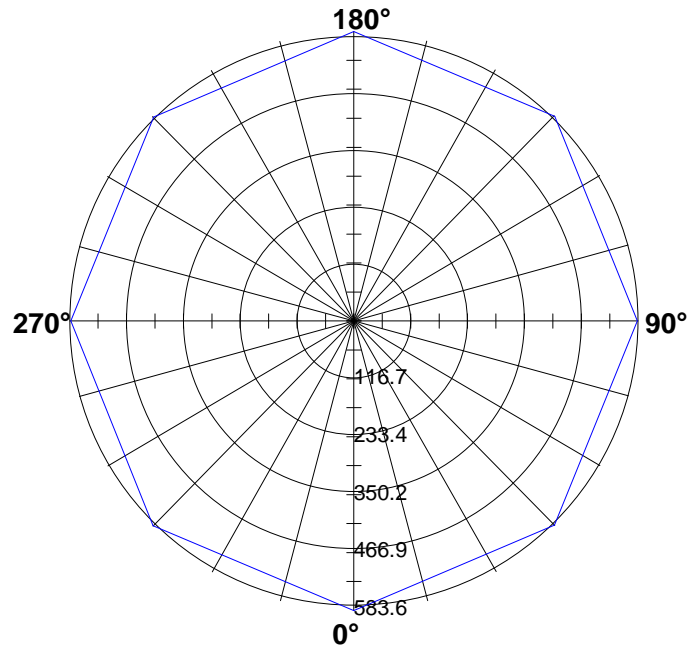


### Light Distribution Curve [Unit: cd]

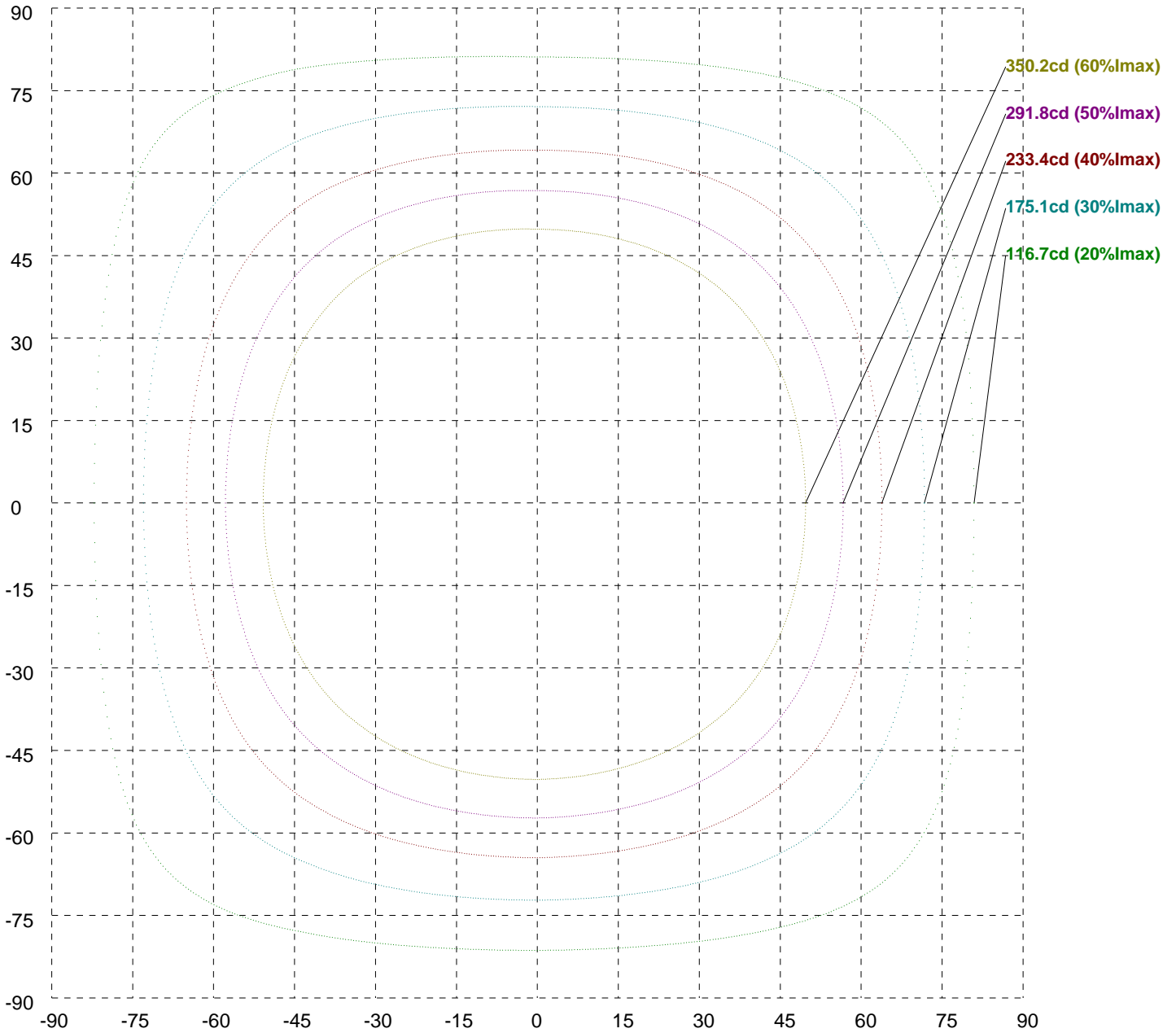
Luminaire



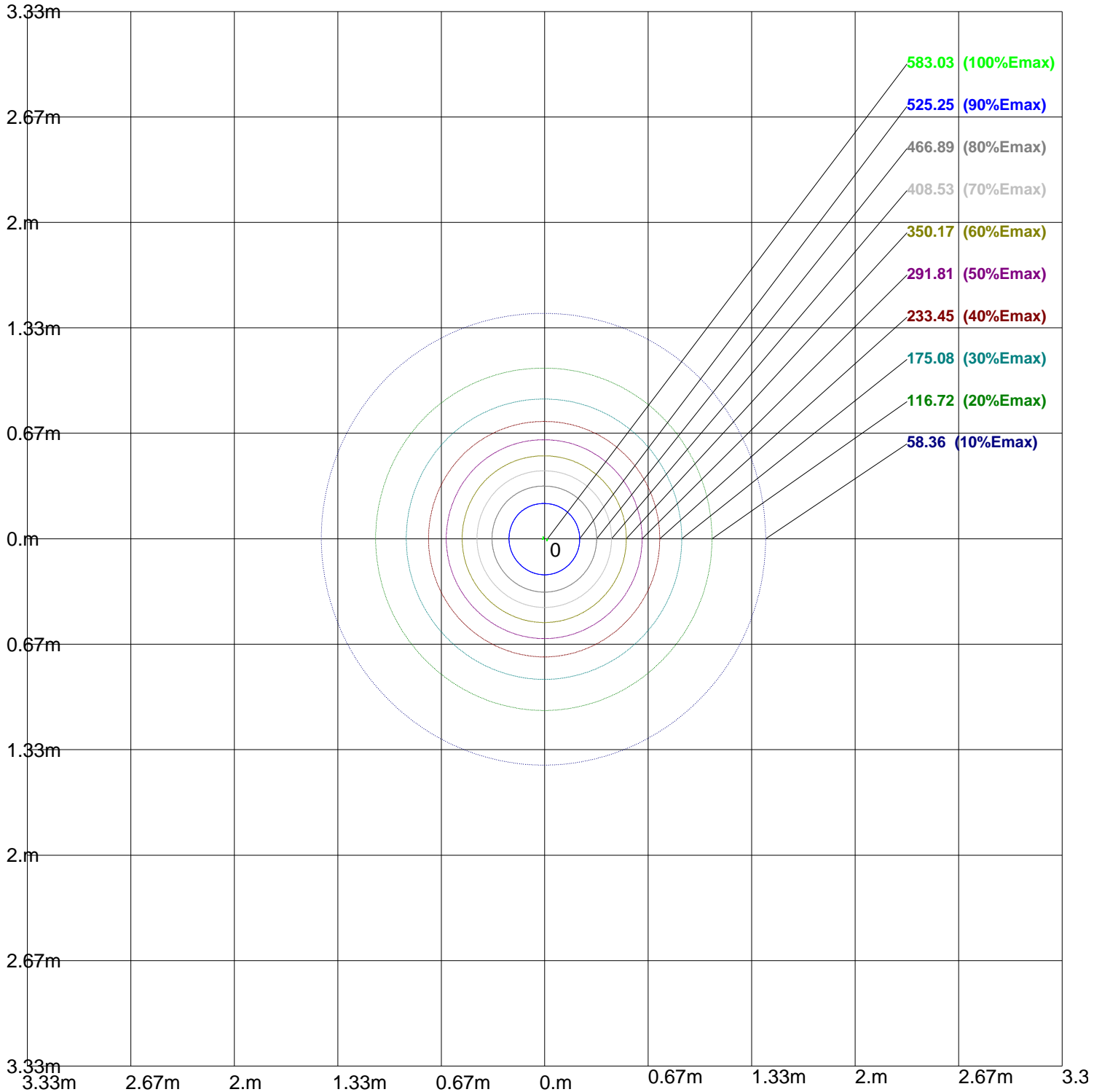
**Max Plane Light Distribution Curve [Unit: cd]**



# 等光强曲线 V-H [cd]



### Iso-Lux[lx]



Height: 1 m  
Max Illuminance : 583.61lx

## Luminance Limiting Curve

Diameter: 380mm

Length: mm

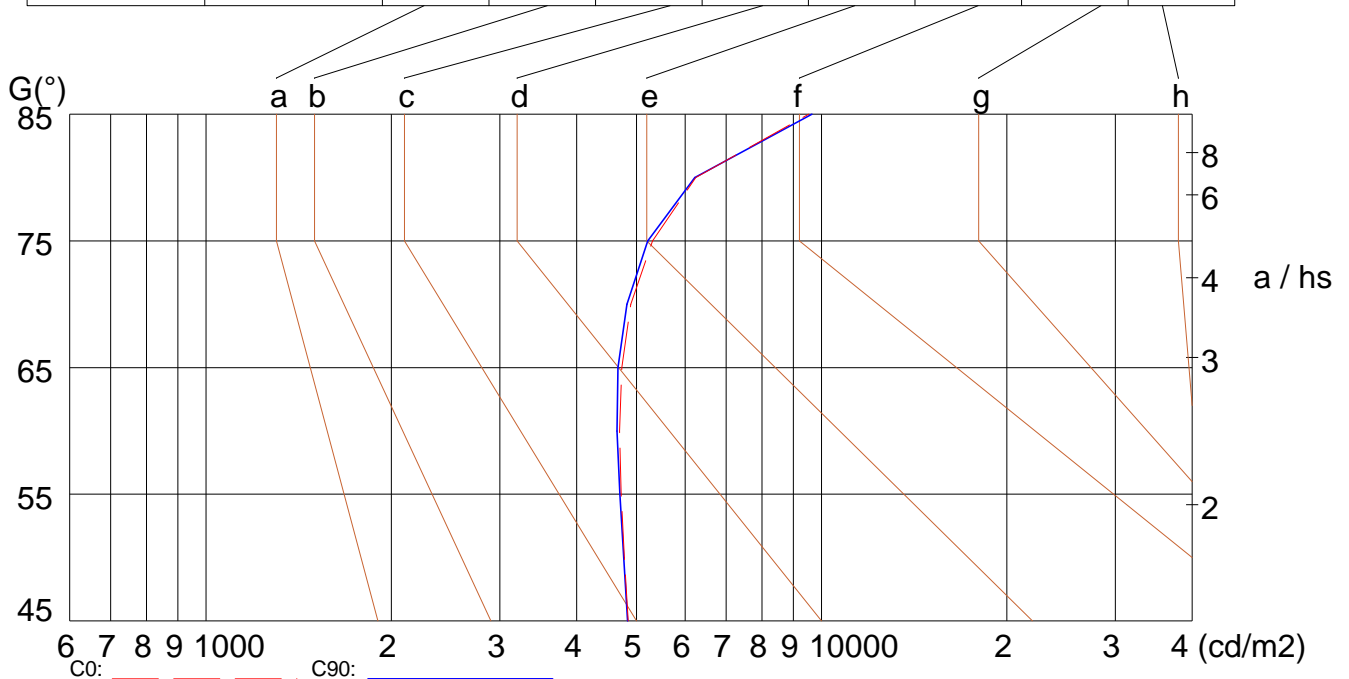
Width: 380mm

Height: 100mm

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

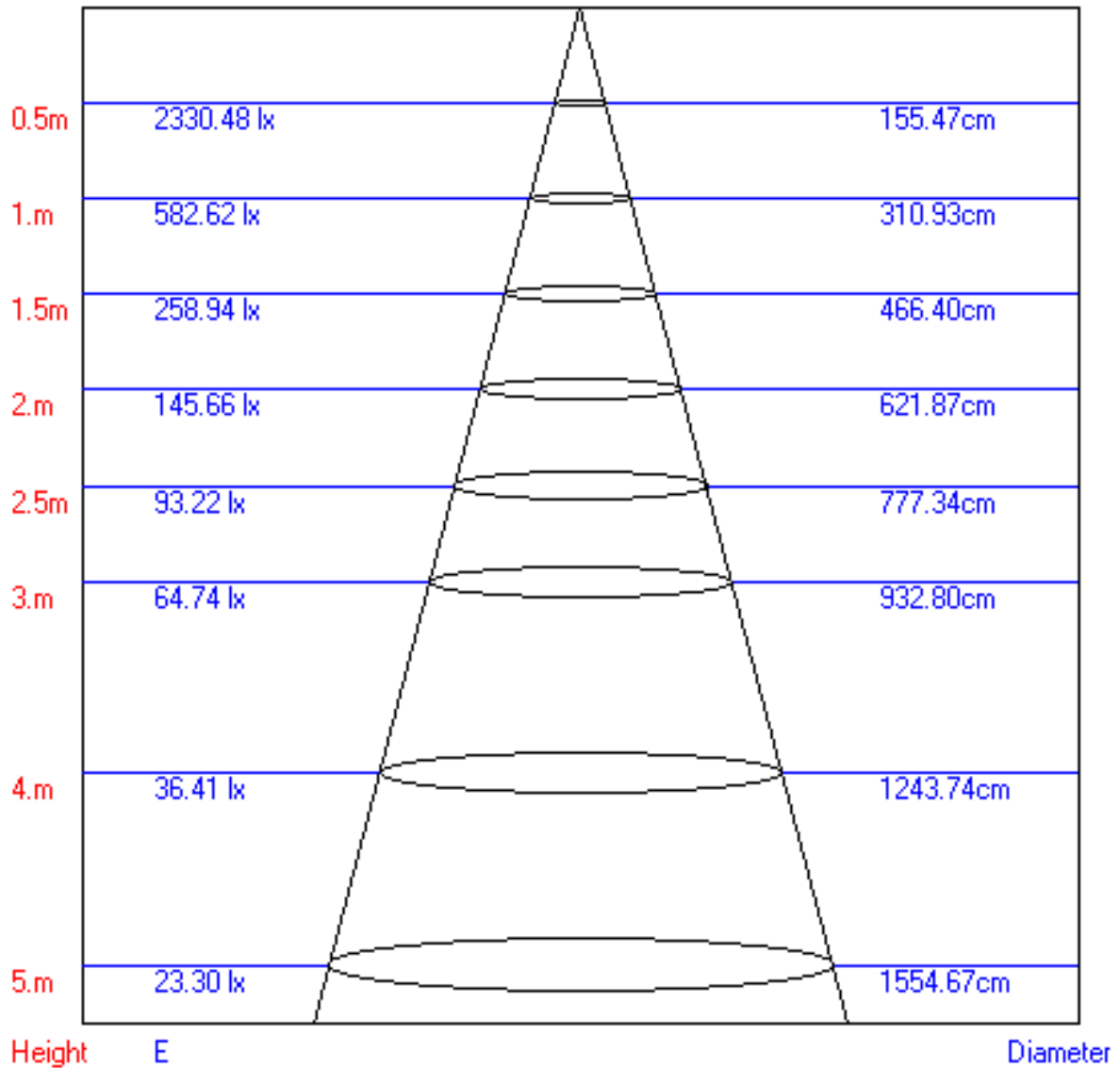
$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4848	4782	4727	4692	4734	4895	5309	6246	9528
C90	4839	4769	4702	4650	4668	4827	5215	6226	9642

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:114.50°

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	COEFFICIENTS 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	1.00	0.98	0.96	0.99	0.97	0.95	0.96	0.93	0.91	0.91	0.89	0.86	0.85	0.83	0.80	0.75
2	0.84	0.81	0.79	0.83	0.80	0.77	0.82	0.78	0.74	0.79	0.74	0.70	0.75	0.70	0.66	0.61
3	0.71	0.68	0.66	0.71	0.67	0.64	0.70	0.66	0.62	0.69	0.63	0.59	0.66	0.60	0.55	0.51
4	0.61	0.58	0.56	0.62	0.57	0.55	0.62	0.56	0.52	0.61	0.55	0.50	0.59	0.53	0.47	0.43
5	0.53	0.50	0.48	0.54	0.50	0.47	0.54	0.49	0.45	0.54	0.48	0.43	0.53	0.46	0.41	0.37
6	0.47	0.44	0.42	0.48	0.44	0.41	0.49	0.43	0.40	0.49	0.43	0.38	0.48	0.41	0.36	0.32
7	0.41	0.39	0.37	0.42	0.39	0.36	0.44	0.39	0.35	0.44	0.38	0.33	0.44	0.37	0.32	0.29
8	0.37	0.34	0.33	0.38	0.35	0.32	0.40	0.35	0.31	0.41	0.34	0.30	0.41	0.34	0.29	0.25
9	0.34	0.31	0.30	0.35	0.31	0.29	0.36	0.31	0.28	0.37	0.31	0.27	0.38	0.31	0.26	0.23
10	0.30	0.28	0.27	0.32	0.28	0.26	0.33	0.29	0.25	0.34	0.29	0.24	0.35	0.28	0.23	0.21

