

## Luminaire Property

Luminaire: RH-D03 15W 4000K

Report NO.:

Test NO.: HLB210908

Lamp:

Sum Lumens: 1328.29 lm

Number of Lamps: 1

Diameter: 330mm

Length: mm

Photometric Type: Type C

Voltage: 230.2 V

Current: 0.068 A

Power: 14.8 W

Power Factor: 0.939

Ballast Type: EBP018C0250C1 48-72V 250mA

Width: 330mm

Height: 100mm

Remark: 36pcs SMD5730 2B18C

## Photometric Results

Lumens: 1328.29 lm

Efficiency: 89.7493 lm/W

Central Intensity: 429.355cd

Maximum Intensity: 429.685cd

Beam Angle(10%): Left: -56.9 Right:55.9

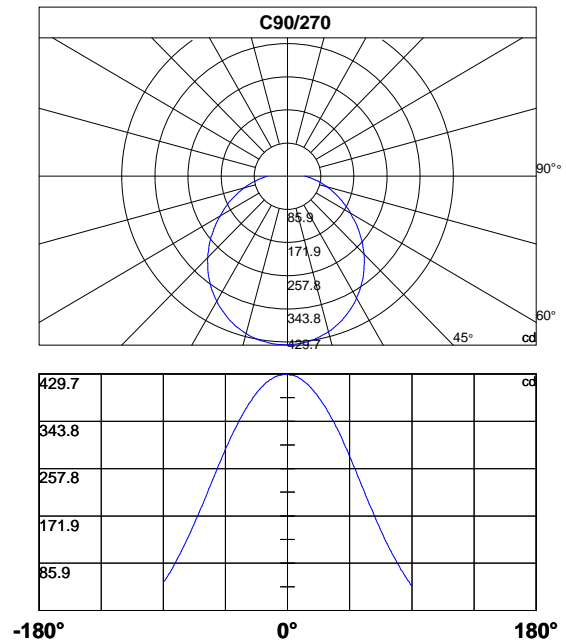
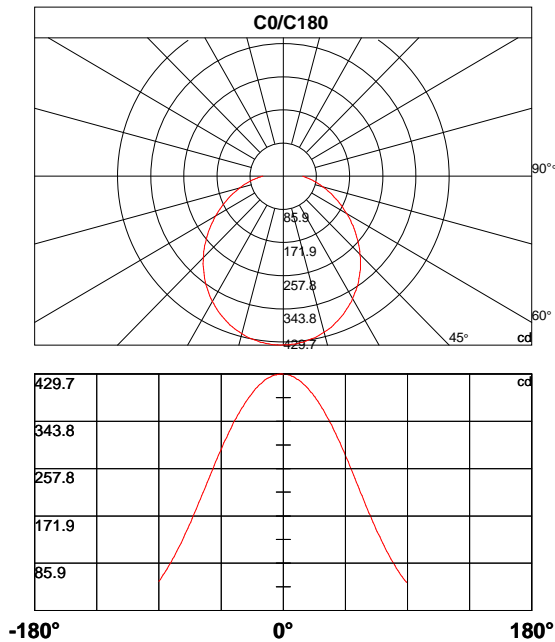
Angle of maximum intensity: C:135.0 G:1.0

Half Peak Side Angle(50%): Left: -56.9 Right:56.9

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	429.4	429.4	429.3	428.4	427.9	427.2	426.1	425.3	423.8	422.4
45.0	429.4	428.7	427.8	427.9	427.2	426.3	425.4	424.3	422.9	421.7
90.0	429.4	428.7	427.8	427.9	427.2	426.3	425.4	424.3	422.9	421.7
135.0	429.4	429.7	429.6	429.5	429.2	428.3	428.3	426.9	426.4	424.5
180.0	429.4	429.7	429.6	429.5	429.2	428.3	428.3	426.9	426.4	424.5
225.0	429.4	429.0	428.8	429.1	428.2	427.8	427.4	426.2	425.6	424.3
270.0	429.4	429.0	428.8	429.1	428.2	427.8	427.4	426.2	425.6	424.3
315.0	429.4	429.4	429.3	428.4	427.9	427.2	426.1	425.3	423.8	422.4
360.0	429.4	429.4	429.3	428.4	427.9	427.2	426.1	425.3	423.8	422.4

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	420.3	419.4	417.5	415.4	413.1	410.7	408.5	405.9	403.6	399.9
45.0	419.7	417.8	416.2	413.9	411.7	409.8	407.0	404.3	401.7	398.8
90.0	419.7	417.8	416.2	413.9	411.7	409.8	407.0	404.3	401.7	398.8
135.0	423.4	422.1	420.8	419.2	417.3	414.9	412.4	410.7	408.3	405.3
180.0	423.4	422.1	420.8	419.2	417.3	414.9	412.4	410.7	408.3	405.3
225.0	423.4	421.6	420.2	418.9	416.5	415.1	412.7	410.6	407.8	405.5
270.0	423.4	421.6	420.2	418.9	416.5	415.1	412.7	410.6	407.8	405.5
315.0	420.3	419.4	417.5	415.4	413.1	410.7	408.5	405.9	403.6	399.9
360.0	420.3	419.4	417.5	415.4	413.1	410.7	408.5	405.9	403.6	399.9

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	396.9	394.2	390.4	387.7	384.0	380.2	376.2	372.7	367.9	364.6
45.0	395.5	393.0	389.1	385.8	381.9	378.1	374.7	371.0	366.9	362.4
90.0	395.5	393.0	389.1	385.8	381.9	378.1	374.7	371.0	366.9	362.4
135.0	402.9	399.6	396.6	393.1	390.0	387.0	383.3	379.3	375.5	371.2
180.0	402.9	399.6	396.6	393.1	390.0	387.0	383.3	379.3	375.5	371.2
225.0	402.4	399.3	396.7	393.1	389.7	386.5	382.4	379.2	375.9	371.3
270.0	402.4	399.3	396.7	393.1	389.7	386.5	382.4	379.2	375.9	371.3
315.0	396.9	394.2	390.4	387.7	384.0	380.2	376.2	372.7	367.9	364.6
360.0	396.9	394.2	390.4	387.7	384.0	380.2	376.2	372.7	367.9	364.6

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	359.9	355.1	350.5	346.6	341.1	337.0	331.5	326.5	320.9	315.1
45.0	357.5	352.8	349.2	344.1	340.0	334.6	329.6	325.1	319.7	313.8
90.0	357.5	352.8	349.2	344.1	340.0	334.6	329.6	325.1	319.7	313.8
135.0	367.9	363.4	359.2	354.4	349.6	345.4	341.1	335.6	330.5	324.9
180.0	367.9	363.4	359.2	354.4	349.6	345.4	341.1	335.6	330.5	324.9
225.0	367.6	363.1	358.6	354.3	350.4	345.5	340.2	335.2	330.1	326.0
270.0	367.6	363.1	358.6	354.3	350.4	345.5	340.2	335.2	330.1	326.0
315.0	359.9	355.1	350.5	346.6	341.1	337.0	331.5	326.5	320.9	315.1
360.0	359.9	355.1	350.5	346.6	341.1	337.0	331.5	326.5	320.9	315.1

### 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	310.6	305.4	299.1	293.4	287.6	281.4	276.3	270.3	263.6	258.1
45.0	308.5	302.7	297.0	291.9	286.2	279.9	274.0	267.5	261.7	256.3
90.0	308.5	302.7	297.0	291.9	286.2	279.9	274.0	267.5	261.7	256.3
135.0	320.1	314.3	309.6	304.5	298.3	292.8	286.7	281.8	275.6	269.7
180.0	320.1	314.3	309.6	304.5	298.3	292.8	286.7	281.8	275.6	269.7
225.0	320.3	314.9	309.3	303.5	298.7	292.9	286.7	280.9	274.8	269.3
270.0	320.3	314.9	309.3	303.5	298.7	292.9	286.7	280.9	274.8	269.3
315.0	310.6	305.4	299.1	293.4	287.6	281.4	276.3	270.3	263.6	258.1
360.0	310.6	305.4	299.1	293.4	287.6	281.4	276.3	270.3	263.6	258.1

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	251.6	245.3	239.8	233.3	227.1	220.6	213.9	208.8	202.5	196.5
45.0	249.8	243.3	237.4	231.2	225.4	219.5	212.8	206.6	199.9	193.7
90.0	249.8	243.3	237.4	231.2	225.4	219.5	212.8	206.6	199.9	193.7
135.0	263.3	257.2	250.8	245.1	239.3	232.9	226.4	220.5	214.3	208.6
180.0	263.3	257.2	250.8	245.1	239.3	232.9	226.4	220.5	214.3	208.6
225.0	263.7	257.0	251.3	244.3	238.4	233.0	226.7	220.7	214.3	208.2
270.0	263.7	257.0	251.3	244.3	238.4	233.0	226.7	220.7	214.3	208.2
315.0	251.6	245.3	239.8	233.3	227.1	220.6	213.9	208.8	202.5	196.5
360.0	251.6	245.3	239.8	233.3	227.1	220.6	213.9	208.8	202.5	196.5

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	189.9	183.8	177.1	172.6	166.6	160.7	154.9	148.6	142.9	138.1
45.0	188.8	183.3	177.2	171.2	165.5	159.0	154.5	148.8	142.7	137.8
90.0	188.8	183.3	177.2	171.2	165.5	159.0	154.5	148.8	142.7	137.8
135.0	202.3	196.6	190.2	184.1	177.9	172.9	166.9	160.5	155.2	149.4
180.0	202.3	196.6	190.2	184.1	177.9	172.9	166.9	160.5	155.2	149.4
225.0	201.8	195.5	190.2	184.4	178.5	172.3	166.8	161.0	155.5	149.5
270.0	201.8	195.5	190.2	184.4	178.5	172.3	166.8	161.0	155.5	149.5
315.0	189.9	183.8	177.1	172.6	166.6	160.7	154.9	148.6	142.9	138.1
360.0	189.9	183.8	177.1	172.6	166.6	160.7	154.9	148.6	142.9	138.1

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	133.4	127.7	122.4	117.3	112.4	107.6	102.9	98.1	93.5	89.0
45.0	131.8	126.8	121.4	116.7	112.0	106.7	101.8	97.2	92.9	88.3
90.0	131.8	126.8	121.4	116.7	112.0	106.7	101.8	97.2	92.9	88.3
135.0	144.8	139.1	133.1	127.7	122.6	117.3	113.0	107.6	102.8	97.6
180.0	144.8	139.1	133.1	127.7	122.6	117.3	113.0	107.6	102.8	97.6
225.0	143.4	138.3	132.8	127.7	122.7	117.0	112.1	107.3	102.1	97.7
270.0	143.4	138.3	132.8	127.7	122.7	117.0	112.1	107.3	102.1	97.7
315.0	133.4	127.7	122.4	117.3	112.4	107.6	102.9	98.1	93.5	89.0
360.0	133.4	127.7	122.4	117.3	112.4	107.6	102.9	98.1	93.5	89.0

### 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	85.5	81.1	77.0	72.8	69.2	65.4	61.4	58.4	54.9	51.7
45.0	83.5	79.6	74.6	70.9	66.9	62.6	59.5	54.5	52.0	47.2
90.0	83.5	79.6	74.6	70.9	66.9	62.6	59.5	54.5	52.0	47.2
135.0	93.6	88.5	85.0	80.5	75.6	72.0	67.3	64.3	60.2	56.4
180.0	93.6	88.5	85.0	80.5	75.6	72.0	67.3	64.3	60.2	56.4
225.0	92.9	88.0	83.1	78.8	74.4	70.0	66.1	61.8	58.1	53.8
270.0	92.9	88.0	83.1	78.8	74.4	70.0	66.1	61.8	58.1	53.8
315.0	85.5	81.1	77.0	72.8	69.2	65.4	61.4	58.4	54.9	51.7
360.0	85.5	81.1	77.0	72.8	69.2	65.4	61.4	58.4	54.9	51.7

C\G	90.0
0.0	50.4
45.0	44.7
90.0	44.7
135.0	52.9
180.0	52.9
225.0	52.9
270.0	52.9
315.0	50.4
360.0	50.4

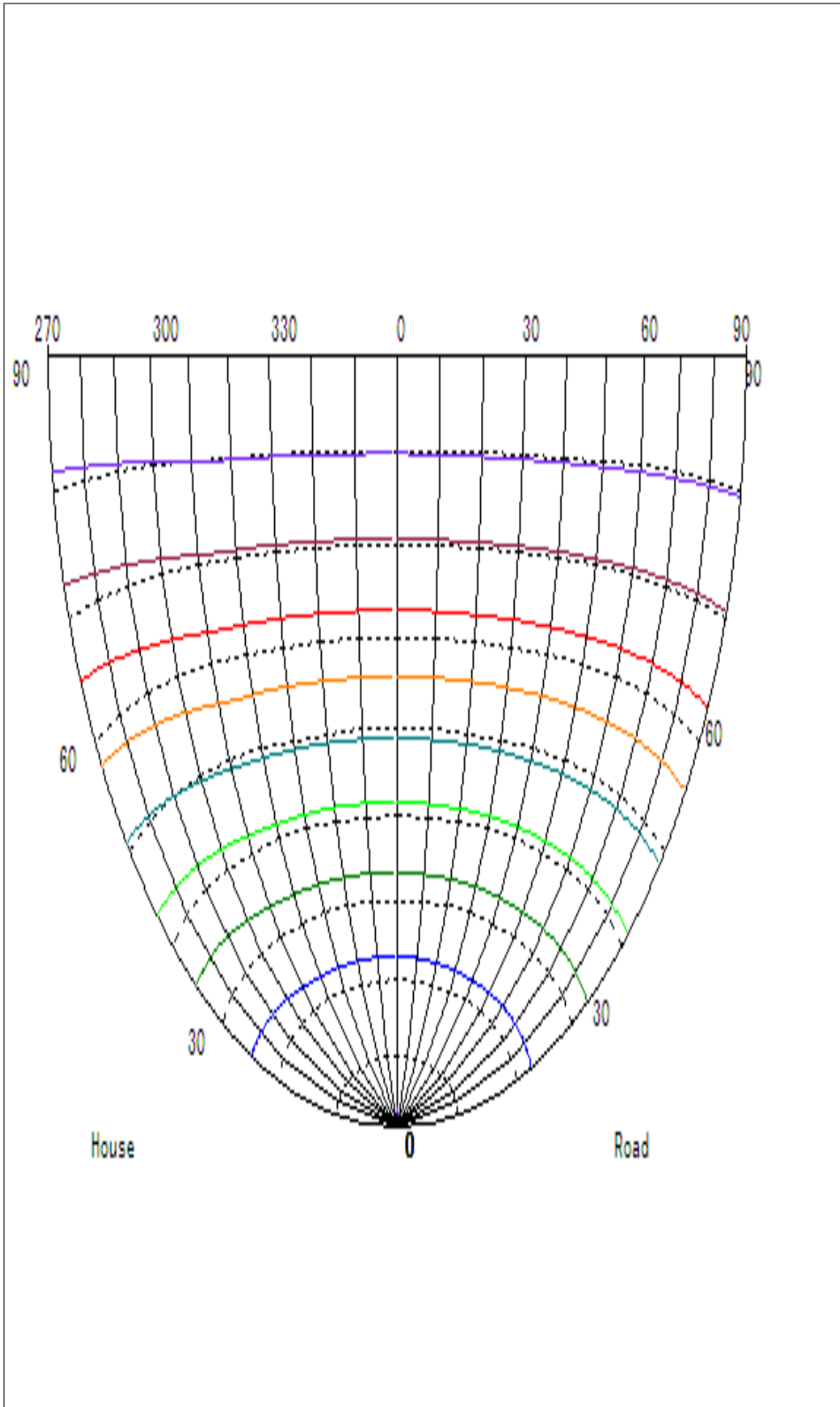
## Zonal Flux Distribution

Gamma [°]	lmean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	429.36	0.00	0.00	0.00	0.00
1	429.20	0.41	0.41	0.03	0.03
2	428.89	1.23	1.64	0.09	0.12
3	428.73	2.05	3.69	0.15	0.28
4	428.14	2.87	6.56	0.22	0.49
5	427.40	3.68	10.24	0.28	0.77
6	426.80	4.49	14.73	0.34	1.11
7	425.70	5.29	20.02	0.40	1.51
8	424.66	6.09	26.11	0.46	1.97
9	423.23	6.87	32.98	0.52	2.48
10	421.72	7.65	40.63	0.58	3.06
11	420.23	8.41	49.04	0.63	3.69
12	418.68	9.17	58.21	0.69	4.38
13	416.87	9.92	68.13	0.75	5.13
14	414.65	10.64	78.77	0.80	5.93
15	412.62	11.36	90.13	0.86	6.79
16	410.13	12.06	102.18	0.91	7.69
17	407.87	12.74	114.92	0.96	8.65
18	405.32	13.41	128.33	1.01	9.66
19	402.37	14.05	142.38	1.06	10.72
20	399.46	14.68	157.06	1.10	11.82
21	396.52	15.28	172.34	1.15	12.97
22	393.20	15.87	188.21	1.19	14.17
23	389.95	16.43	204.64	1.24	15.41
24	386.42	16.97	221.62	1.28	16.68
25	382.97	17.49	239.11	1.32	18.00
26	379.16	17.99	257.10	1.35	19.36
27	375.53	18.46	275.57	1.39	20.75
28	371.56	18.91	294.48	1.42	22.17
29	367.37	19.33	313.81	1.46	23.63
30	363.23	19.73	333.54	1.49	25.11
31	358.64	20.09	353.63	1.51	26.62
32	354.37	20.43	374.05	1.54	28.16
33	349.84	20.75	394.80	1.56	29.72
34	345.27	21.04	415.84	1.58	31.31
35	340.62	21.30	437.14	1.60	32.91
36	335.59	21.53	458.67	1.62	34.53
37	330.60	21.73	480.40	1.64	36.17
38	325.33	21.89	502.29	1.65	37.81
39	319.98	22.03	524.32	1.66	39.47
40	314.89	22.14	546.46	1.67	41.14

## Zonal Flux Distribution

Gamma [°]	lmean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	309.33	22.23	568.69	1.67	42.81
42	303.76	22.27	590.96	1.68	44.49
43	298.33	22.30	613.26	1.68	46.17
44	292.68	22.31	635.57	1.68	47.85
45	286.76	22.27	657.84	1.68	49.53
46	280.92	22.20	680.04	1.67	51.20
47	275.10	22.11	702.15	1.66	52.86
48	268.94	21.99	724.15	1.66	54.52
49	263.36	21.86	746.00	1.65	56.16
50	257.10	21.70	767.70	1.63	57.80
51	250.73	21.49	789.19	1.62	59.41
52	244.79	21.26	810.45	1.60	61.01
53	238.47	21.02	831.47	1.58	62.60
54	232.53	20.76	852.23	1.56	64.16
55	226.51	20.49	872.72	1.54	65.70
56	219.97	20.18	892.90	1.52	67.22
57	214.16	19.85	912.75	1.49	68.72
58	207.75	19.51	932.26	1.47	70.18
59	201.75	19.14	951.40	1.44	71.63
60	195.70	18.78	970.18	1.41	73.04
61	189.81	18.40	988.58	1.39	74.42
62	183.66	18.00	1006.57	1.35	75.78
63	178.07	17.59	1024.17	1.32	77.10
64	172.12	17.18	1041.35	1.29	78.40
65	166.22	16.74	1058.10	1.26	79.66
66	160.78	16.32	1074.41	1.23	80.89
67	154.74	15.87	1090.28	1.19	82.08
68	149.06	15.39	1105.67	1.16	83.24
69	143.72	14.94	1120.60	1.12	84.36
70	138.35	14.49	1135.09	1.09	85.45
71	132.98	14.02	1149.11	1.06	86.51
72	127.41	13.54	1162.65	1.02	87.53
73	122.34	13.06	1175.71	0.98	88.51
74	117.44	12.61	1188.32	0.95	89.46
75	112.15	12.13	1200.45	0.91	90.38
76	107.47	11.66	1212.11	0.88	91.25
77	102.54	11.20	1223.30	0.84	92.10
78	97.81	10.72	1234.03	0.81	92.90
79	93.16	10.26	1244.29	0.77	93.68
80	88.85	9.81	1254.10	0.74	94.41
81	84.33	9.37	1263.47	0.71	95.12

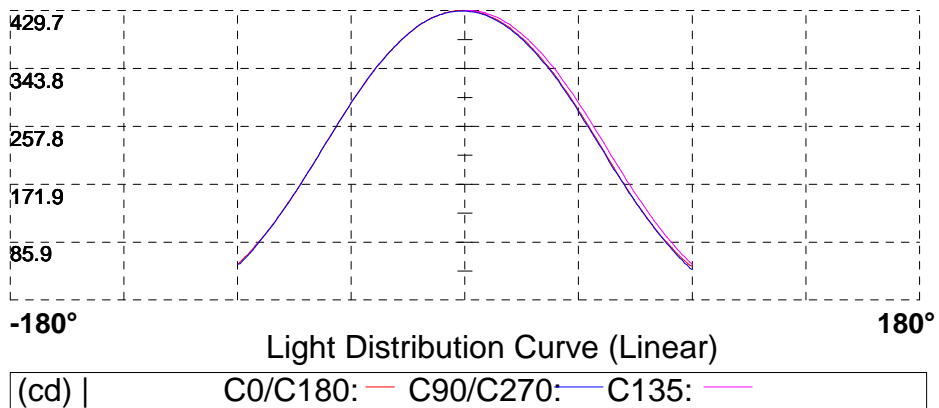
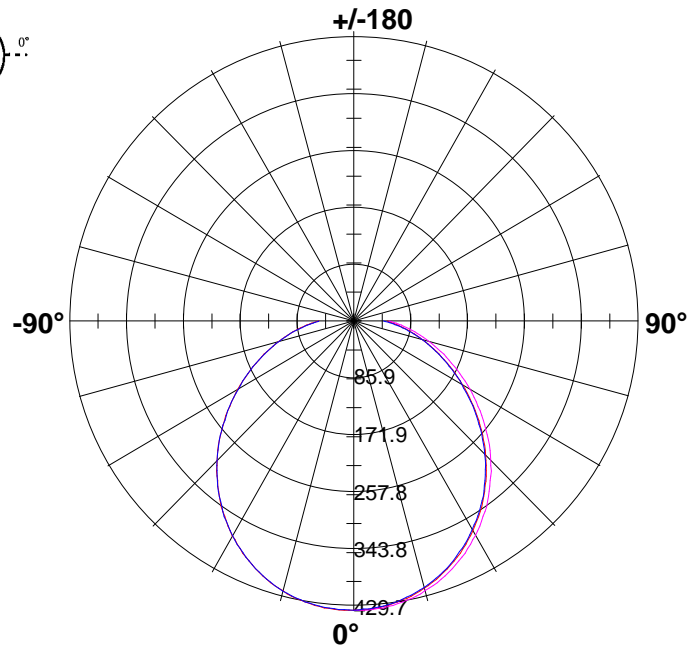
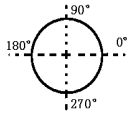




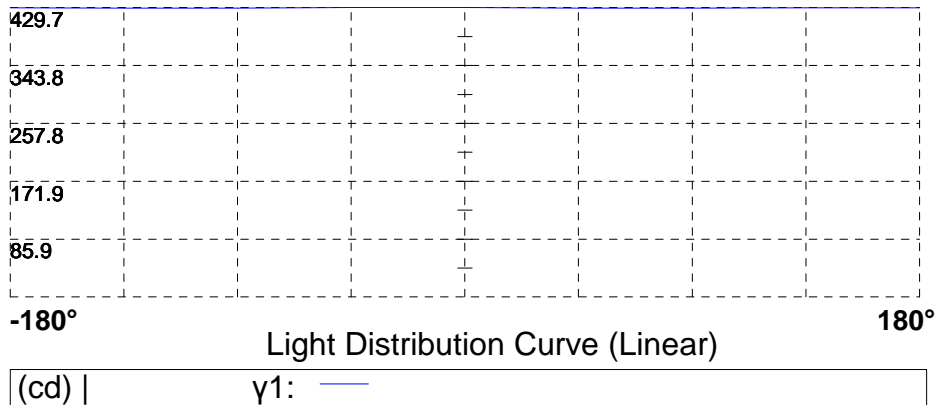
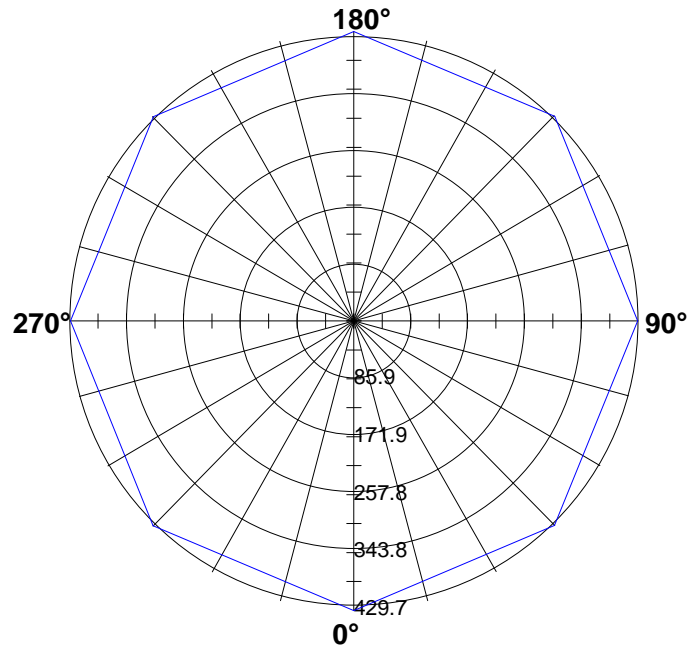


### Light Distribution Curve [Unit: cd]

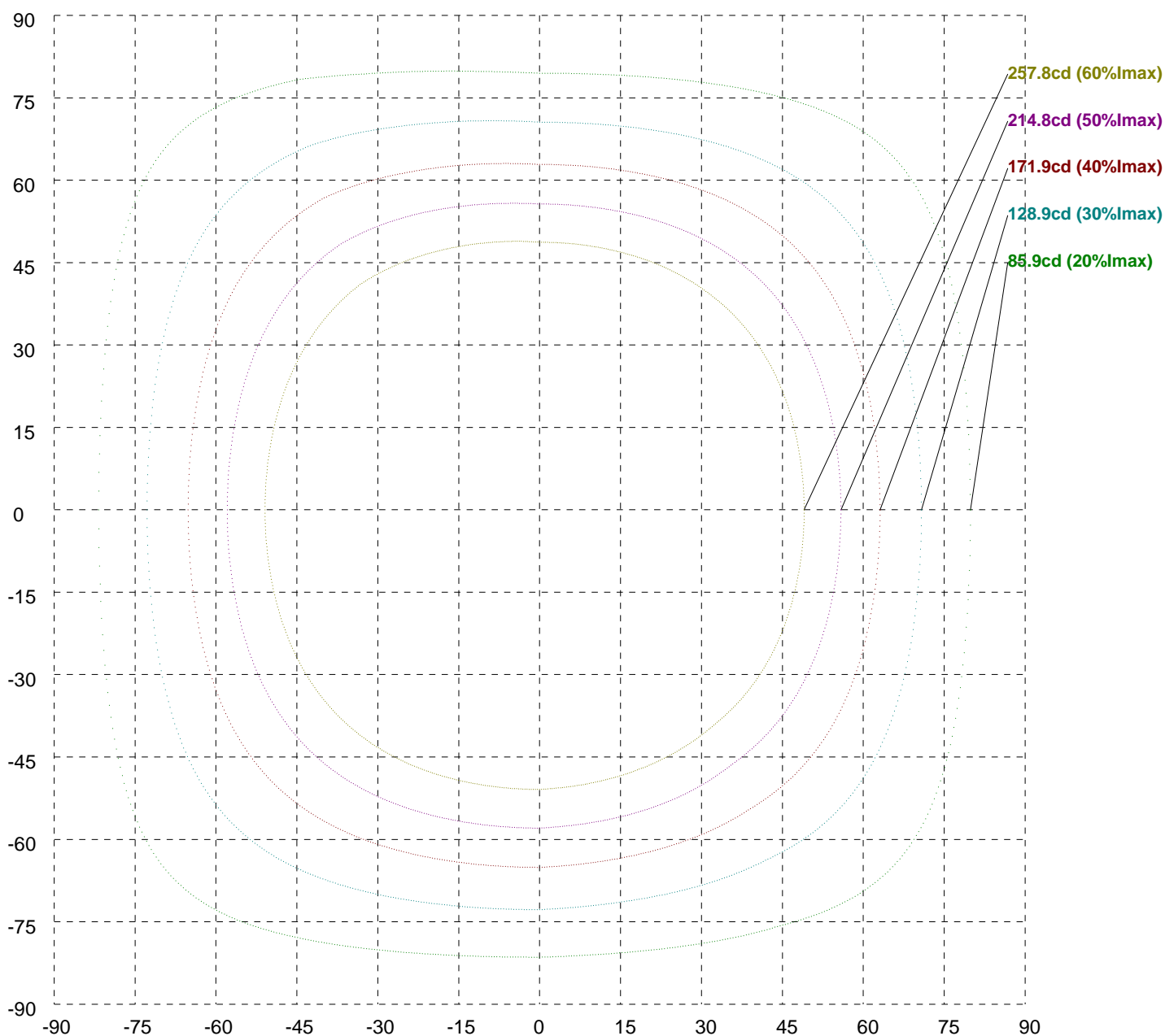
Luminaire



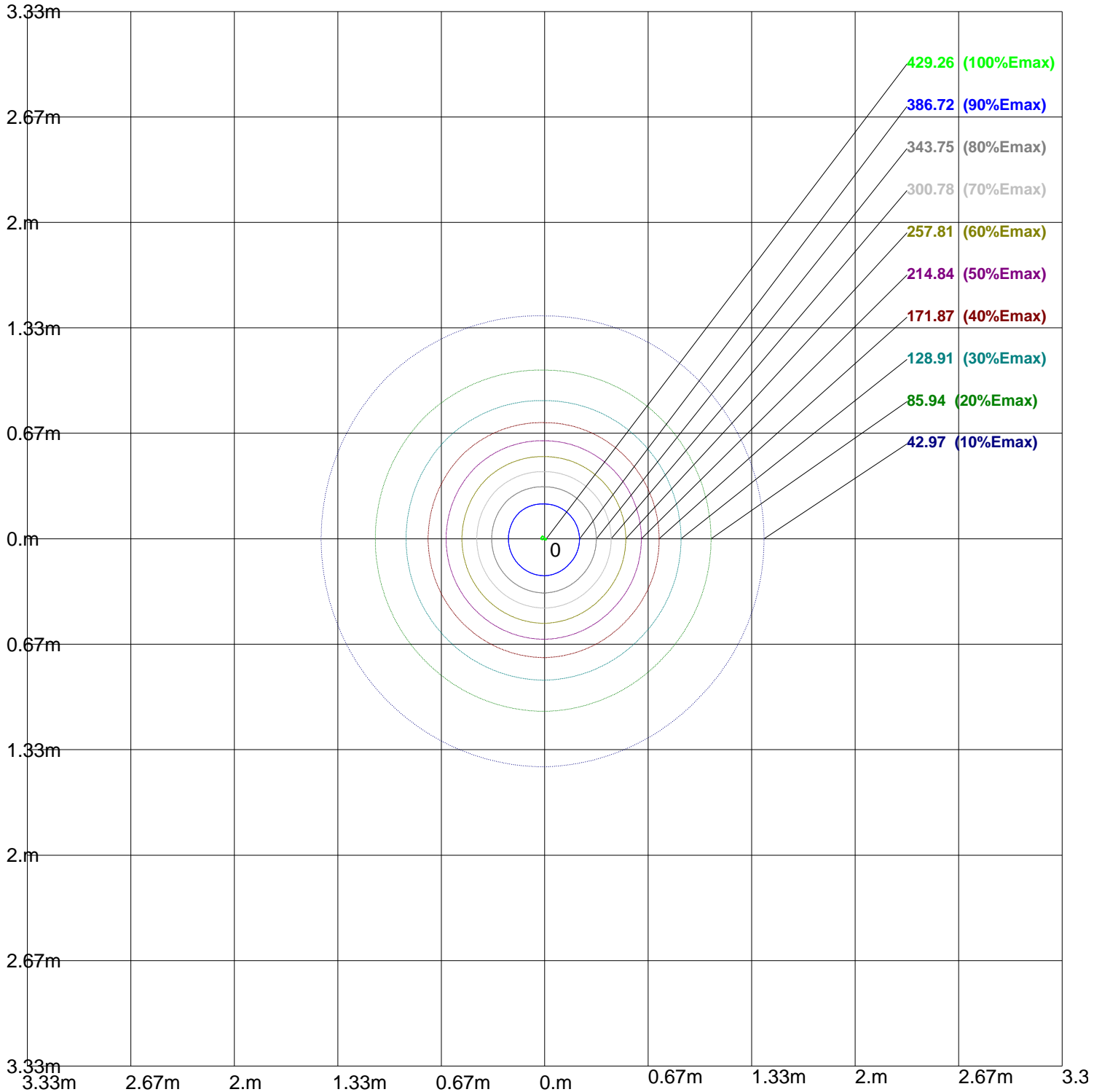
### Max Plane Light Distribution Curve [Unit: cd]



# 等光强曲线 V-H [cd]



### Iso-Lux[lx]



Height: 1 m  
Max Illuminance : 429.68lx

## Luminance Limiting Curve

Diameter: 330mm

Length: mm

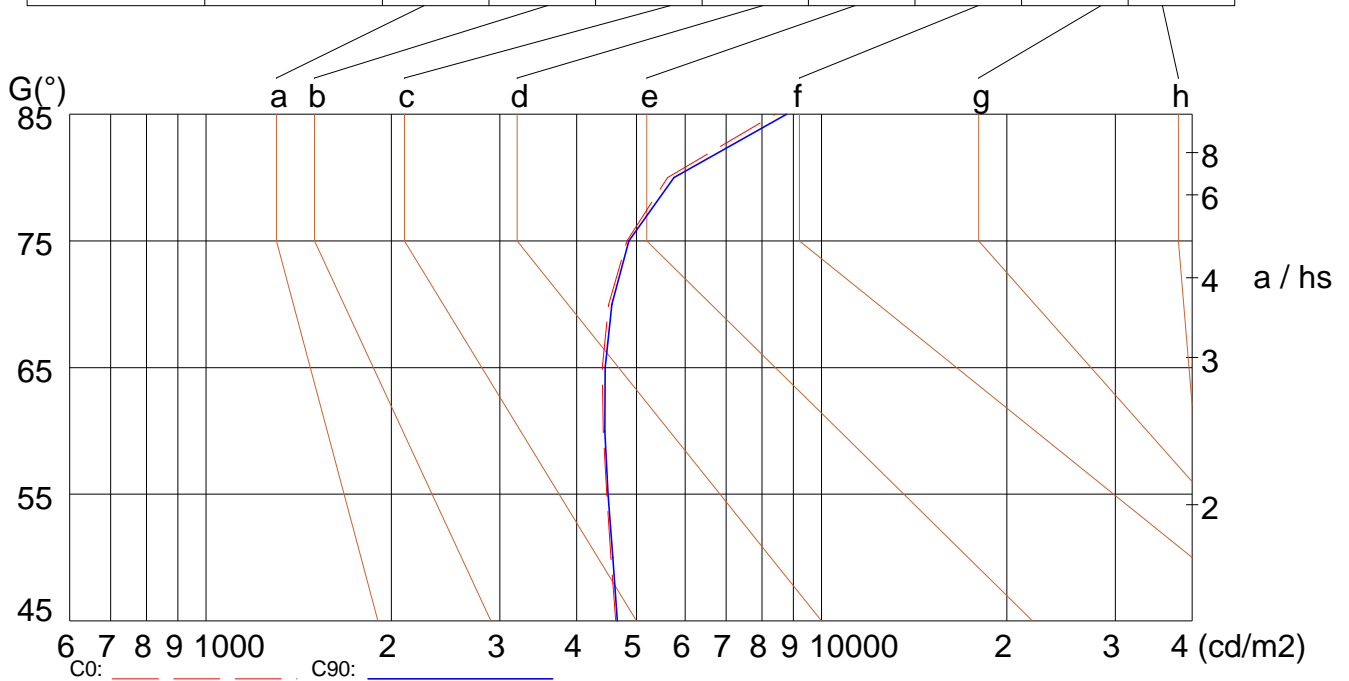
Width: 330mm

Height: 100mm

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

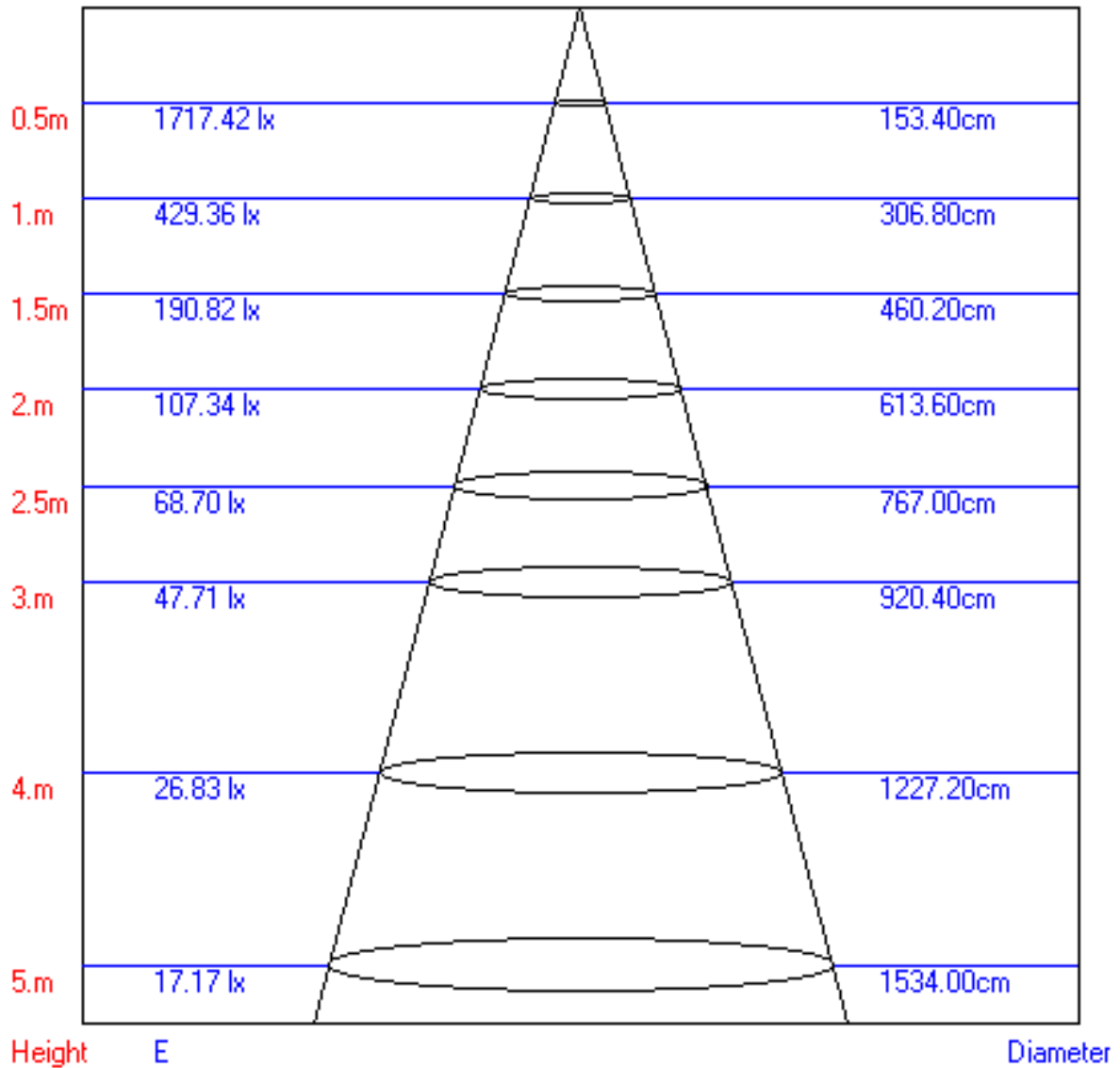
$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4630	4545	4475	4416	4401	4507	4824	5623	8404
C90	4654	4578	4499	4443	4447	4561	4863	5757	8774

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:113.80°

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	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	1.01	0.98	0.97	0.99	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.84	0.81	0.79	0.84	0.80	0.78	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.70	0.66	0.61
3	0.71	0.68	0.66	0.71	0.68	0.65	0.71	0.66	0.62	0.69	0.64	0.59	0.66	0.60	0.56	0.51
4	0.61	0.58	0.56	0.62	0.58	0.55	0.62	0.57	0.53	0.61	0.55	0.50	0.59	0.53	0.48	0.43
5	0.53	0.50	0.48	0.54	0.50	0.47	0.55	0.49	0.46	0.54	0.48	0.43	0.53	0.47	0.41	0.37
6	0.47	0.44	0.42	0.48	0.44	0.41	0.49	0.44	0.40	0.49	0.43	0.38	0.49	0.42	0.36	0.33
7	0.42	0.39	0.37	0.43	0.39	0.36	0.44	0.39	0.35	0.45	0.38	0.34	0.45	0.38	0.32	0.29
8	0.37	0.35	0.33	0.38	0.35	0.33	0.40	0.35	0.31	0.41	0.35	0.30	0.41	0.34	0.29	0.26
9	0.34	0.31	0.30	0.35	0.31	0.29	0.36	0.32	0.28	0.37	0.31	0.27	0.38	0.31	0.26	0.23
10	0.31	0.28	0.27	0.32	0.29	0.26	0.33	0.29	0.26	0.35	0.29	0.25	0.35	0.29	0.24	0.21

