

Luminaire Property

Luminaire: RH-MSD24 24W 4000K

Report NO.:

Test NO.: HLB210908

Lamp:

Sum Lumens: 2094.47 lm

Number of Lamps: 1

Diameter: mm

Length: 300mm

Photometric Type: Type C

Voltage: 231.0 V

Current: 0.101 A

Power: 22.6 W

Power Factor: 0.966

Ballast Type: DL-30H-C600-LAC 600mA

Width: 300mm

Height: 38 mm

Remark: 0.5w SMD2835

Photometric Results

Lumens: 2094.47 lm

Efficiency: 92.6757 lm/W

Central Intensity: 755.858cd

Maximum Intensity: 755.858cd

Angle of maximum intensity: C:0.0 G:0.0

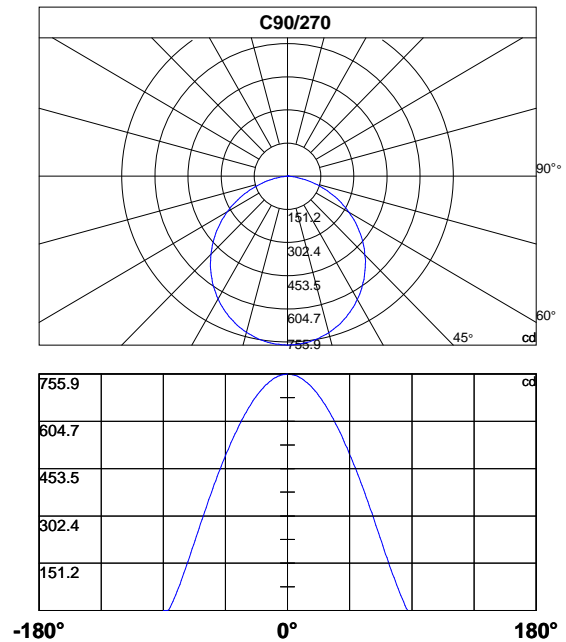
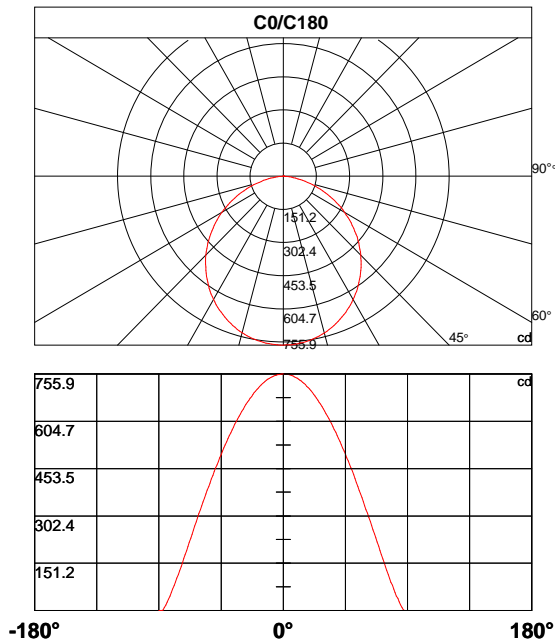
Half Peak Side Angle(50%): Left: -55.6 Right:55.6

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -79.3 Right:79.4



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	755.9	755.8	755.6	755.1	753.8	752.7	750.8	749.8	747.5	745.0
45.0	755.9	755.2	754.9	754.3	753.5	752.0	750.6	748.8	747.0	744.3
90.0	755.9	755.2	754.9	754.3	753.5	752.0	750.6	748.8	747.0	744.3
135.0	755.9	755.8	755.4	754.6	753.8	752.5	751.3	748.9	746.8	744.7
180.0	755.9	755.8	755.4	754.6	753.8	752.5	751.3	748.9	746.8	744.7
225.0	755.9	755.3	754.6	753.6	752.9	751.7	750.4	748.5	745.9	743.7
270.0	755.9	755.3	754.6	753.6	752.9	751.7	750.4	748.5	745.9	743.7
315.0	755.9	755.8	755.6	755.1	753.8	752.7	750.8	749.8	747.5	745.0
360.0	755.9	755.8	755.6	755.1	753.8	752.7	750.8	749.8	747.5	745.0

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	742.8	740.0	736.8	733.3	729.3	726.6	722.1	716.8	712.7	707.5
45.0	742.0	739.1	735.8	732.0	728.9	724.9	721.1	716.3	711.4	706.7
90.0	742.0	739.1	735.8	732.0	728.9	724.9	721.1	716.3	711.4	706.7
135.0	742.4	739.5	736.1	732.8	729.0	725.2	720.9	716.7	711.5	706.6
180.0	742.4	739.5	736.1	732.8	729.0	725.2	720.9	716.7	711.5	706.6
225.0	741.4	738.3	734.9	731.3	727.8	723.7	719.9	715.0	710.0	705.2
270.0	741.4	738.3	734.9	731.3	727.8	723.7	719.9	715.0	710.0	705.2
315.0	742.8	740.0	736.8	733.3	729.3	726.6	722.1	716.8	712.7	707.5
360.0	742.8	740.0	736.8	733.3	729.3	726.6	722.1	716.8	712.7	707.5

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	702.4	696.5	691.1	685.1	679.2	672.8	665.3	659.8	652.4	645.2
45.0	702.1	696.6	690.2	684.6	678.0	672.4	665.4	658.5	651.3	644.0
90.0	702.1	696.6	690.2	684.6	678.0	672.4	665.4	658.5	651.3	644.0
135.0	701.1	696.4	690.2	684.0	678.1	671.1	665.8	658.6	651.5	643.3
180.0	701.1	696.4	690.2	684.0	678.1	671.1	665.8	658.6	651.5	643.3
225.0	699.7	694.1	689.1	682.8	676.1	669.7	662.8	656.2	648.9	641.5
270.0	699.7	694.1	689.1	682.8	676.1	669.7	662.8	656.2	648.9	641.5
315.0	702.4	696.5	691.1	685.1	679.2	672.8	665.3	659.8	652.4	645.2
360.0	702.4	696.5	691.1	685.1	679.2	672.8	665.3	659.8	652.4	645.2

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	637.1	629.0	621.0	613.9	605.3	596.4	587.4	578.1	570.3	559.9
45.0	636.5	629.1	621.5	612.8	604.2	595.5	586.7	578.7	569.4	559.2
90.0	636.5	629.1	621.5	612.8	604.2	595.5	586.7	578.7	569.4	559.2
135.0	636.0	627.9	621.2	612.2	603.9	595.1	585.8	576.6	568.2	559.0
180.0	636.0	627.9	621.2	612.2	603.9	595.1	585.8	576.6	568.2	559.0
225.0	633.4	626.1	616.8	610.2	601.5	592.3	583.6	573.4	564.4	556.1
270.0	633.4	626.1	616.8	610.2	601.5	592.3	583.6	573.4	564.4	556.1
315.0	637.1	629.0	621.0	613.9	605.3	596.4	587.4	578.1	570.3	559.9
360.0	637.1	629.0	621.0	613.9	605.3	596.4	587.4	578.1	570.3	559.9

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	550.7	540.2	529.9	519.6	509.2	500.1	488.5	478.0	466.5	456.6
45.0	549.7	539.5	529.5	520.4	510.0	497.9	488.7	477.8	466.2	456.4
90.0	549.7	539.5	529.5	520.4	510.0	497.9	488.7	477.8	466.2	456.4
135.0	548.9	538.7	528.7	519.5	509.3	498.0	487.8	476.3	465.4	455.0
180.0	548.9	538.7	528.7	519.5	509.3	498.0	487.8	476.3	465.4	455.0
225.0	545.9	535.9	525.4	514.8	505.4	494.5	483.9	472.3	461.3	449.6
270.0	545.9	535.9	525.4	514.8	505.4	494.5	483.9	472.3	461.3	449.6
315.0	550.7	540.2	529.9	519.6	509.2	500.1	488.5	478.0	466.5	456.6
360.0	550.7	540.2	529.9	519.6	509.2	500.1	488.5	478.0	466.5	456.6

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	445.1	433.5	421.0	409.0	396.6	384.2	373.9	360.6	348.4	335.0
45.0	444.8	433.5	421.7	409.6	398.9	386.3	374.4	361.3	349.2	335.5
90.0	444.8	433.5	421.7	409.6	398.9	386.3	374.4	361.3	349.2	335.5
135.0	444.0	431.4	420.1	407.0	395.6	384.7	372.6	359.9	346.7	334.0
180.0	444.0	431.4	420.1	407.0	395.6	384.7	372.6	359.9	346.7	334.0
225.0	439.1	427.6	414.9	403.6	390.3	378.5	367.1	354.6	341.4	328.5
270.0	439.1	427.6	414.9	403.6	390.3	378.5	367.1	354.6	341.4	328.5
315.0	445.1	433.5	421.0	409.0	396.6	384.2	373.9	360.6	348.4	335.0
360.0	445.1	433.5	421.0	409.0	396.6	384.2	373.9	360.6	348.4	335.0

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	322.5	310.6	297.4	284.4	270.9	257.6	244.0	232.7	218.4	205.4
45.0	322.9	311.8	299.0	285.4	272.3	258.3	246.9	233.6	219.9	206.7
90.0	322.9	311.8	299.0	285.4	272.3	258.3	246.9	233.6	219.9	206.7
135.0	322.7	310.1	296.2	283.1	270.1	256.7	243.2	231.2	218.3	204.2
180.0	322.7	310.1	296.2	283.1	270.1	256.7	243.2	231.2	218.3	204.2
225.0	315.3	302.2	290.8	277.0	263.4	250.1	236.6	223.3	210.8	197.9
270.0	315.3	302.2	290.8	277.0	263.4	250.1	236.6	223.3	210.8	197.9
315.0	322.5	310.6	297.4	284.4	270.9	257.6	244.0	232.7	218.4	205.4
360.0	322.5	310.6	297.4	284.4	270.9	257.6	244.0	232.7	218.4	205.4

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	191.6	178.9	164.8	154.0	140.5	128.1	114.9	102.8	90.3	80.4
45.0	193.4	180.2	168.6	155.1	141.9	129.1	116.6	105.4	93.8	81.4
90.0	193.4	180.2	168.6	155.1	141.9	129.1	116.6	105.4	93.8	81.4
135.0	191.2	177.6	166.6	152.7	140.3	126.9	114.2	103.6	91.3	79.7
180.0	191.2	177.6	166.6	152.7	140.3	126.9	114.2	103.6	91.3	79.7
225.0	184.2	170.7	156.9	145.9	132.6	119.5	107.4	96.2	82.8	72.0
270.0	184.2	170.7	156.9	145.9	132.6	119.5	107.4	96.2	82.8	72.0
315.0	191.6	178.9	164.8	154.0	140.5	128.1	114.9	102.8	90.3	80.4
360.0	191.6	178.9	164.8	154.0	140.5	128.1	114.9	102.8	90.3	80.4

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	69.0	57.2	46.4	39.0	28.1	18.3	9.4	1.9	0.0	0.0
45.0	69.7	58.2	47.5	37.1	27.7	16.2	6.7	0.0	0.0	0.0
90.0	69.7	58.2	47.5	37.1	27.7	16.2	6.7	0.0	0.0	0.0
135.0	67.9	57.1	45.9	35.3	26.5	17.2	8.8	1.0	0.0	0.0
180.0	67.9	57.1	45.9	35.3	26.5	17.2	8.8	1.0	0.0	0.0
225.0	60.8	50.0	39.3	28.8	20.3	10.9	1.7	0.0	0.0	0.0
270.0	60.8	50.0	39.3	28.8	20.3	10.9	1.7	0.0	0.0	0.0
315.0	69.0	57.2	46.4	39.0	28.1	18.3	9.4	1.9	0.0	0.0
360.0	69.0	57.2	46.4	39.0	28.1	18.3	9.4	1.9	0.0	0.0

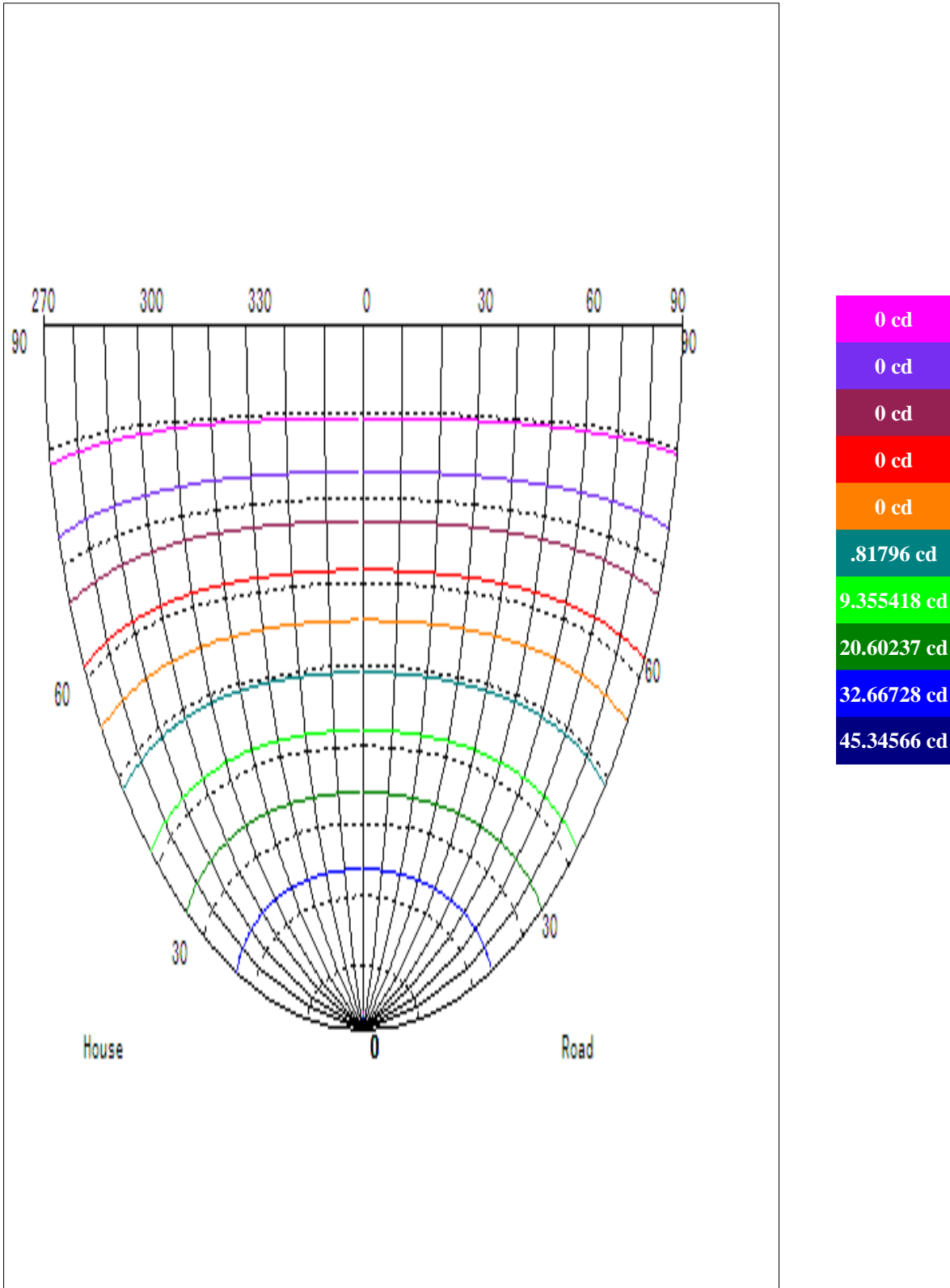
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Zonal Flux Distribution

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	755.86	0.00	0.00	0.00	0.00
1	755.55	0.72	0.72	0.03	0.03
2	755.14	2.17	2.89	0.10	0.14
3	754.38	3.61	6.50	0.17	0.31
4	753.48	5.05	11.55	0.24	0.55
5	752.22	6.48	18.03	0.31	0.86
6	750.80	7.90	25.93	0.38	1.24
7	749.02	9.31	35.23	0.44	1.68
8	746.80	10.71	45.94	0.51	2.19
9	744.42	12.09	58.03	0.58	2.77
10	742.13	13.45	71.48	0.64	3.41
11	739.23	14.80	86.28	0.71	4.12
12	735.90	16.13	102.41	0.77	4.89
13	732.34	17.42	119.83	0.83	5.72
14	728.74	18.70	138.53	0.89	6.61
15	725.08	19.96	158.49	0.95	7.57
16	721.02	21.19	179.68	1.01	8.58
17	716.19	22.38	202.06	1.07	9.65
18	711.41	23.54	225.60	1.12	10.77
19	706.50	24.67	250.27	1.18	11.95
20	701.32	25.77	276.03	1.23	13.18
21	695.89	26.83	302.86	1.28	14.46
22	690.13	27.85	330.72	1.33	15.79
23	684.13	28.84	359.55	1.38	17.17
24	677.86	29.78	389.33	1.42	18.59
25	671.49	30.68	420.01	1.46	20.05
26	664.84	31.54	451.56	1.51	21.56
27	658.29	32.37	483.93	1.55	23.10
28	651.02	33.15	517.08	1.58	24.69
29	643.50	33.87	550.94	1.62	26.30
30	635.75	34.54	585.48	1.65	27.95
31	628.04	35.17	620.65	1.68	29.63
32	620.15	35.76	656.41	1.71	31.34
33	612.28	36.31	692.72	1.73	33.07
34	603.73	36.80	729.52	1.76	34.83
35	594.82	37.22	766.74	1.78	36.61
36	585.88	37.59	804.34	1.79	38.40
37	576.70	37.92	842.25	1.81	40.21
38	568.07	38.21	880.46	1.82	42.04
39	558.55	38.45	918.92	1.84	43.87
40	548.81	38.62	957.54	1.84	45.72

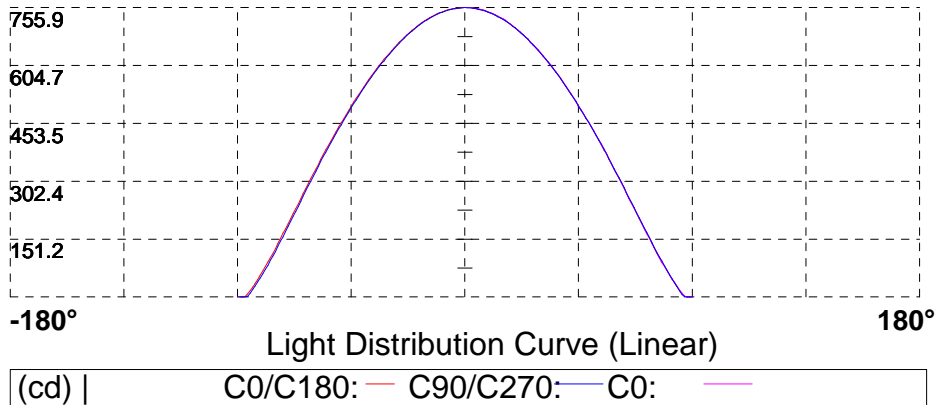
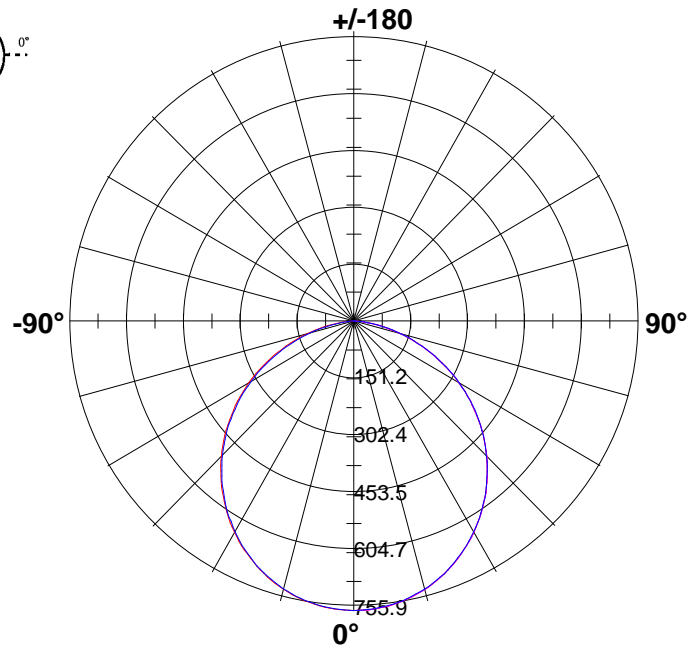
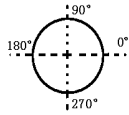
Zonal Flux Distribution

Gamma [°]	lmean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	538.58	38.72	996.26	1.85	47.57
42	528.36	38.76	1035.03	1.85	49.42
43	518.55	38.78	1073.81	1.85	51.27
44	508.49	38.76	1112.57	1.85	53.12
45	497.61	38.67	1151.24	1.85	54.97
46	487.21	38.51	1189.75	1.84	56.80
47	476.13	38.31	1228.06	1.83	58.63
48	464.88	38.04	1266.10	1.82	60.45
49	454.43	37.75	1303.86	1.80	62.25
50	443.23	37.43	1341.28	1.79	64.04
51	431.50	37.01	1378.29	1.77	65.81
52	419.41	36.51	1414.80	1.74	67.55
53	407.29	35.96	1450.77	1.72	69.27
54	395.34	35.38	1486.14	1.69	70.96
55	383.43	34.76	1520.91	1.66	72.62
56	371.98	34.13	1555.04	1.63	74.25
57	359.10	33.43	1588.47	1.60	75.84
58	346.41	32.62	1621.09	1.56	77.40
59	333.24	31.77	1652.87	1.52	78.92
60	320.86	30.90	1683.77	1.48	80.39
61	308.68	30.04	1713.81	1.43	81.83
62	295.83	29.13	1742.94	1.39	83.22
63	282.49	28.13	1771.07	1.34	84.56
64	269.19	27.07	1798.14	1.29	85.85
65	255.66	25.97	1824.11	1.24	87.09
66	242.68	24.86	1848.98	1.19	88.28
67	230.18	23.78	1872.75	1.14	89.41
68	216.87	22.65	1895.40	1.08	90.50
69	203.54	21.45	1916.85	1.02	91.52
70	190.11	20.22	1937.06	0.97	92.48
71	176.83	18.97	1956.03	0.91	93.39
72	164.24	17.73	1973.76	0.85	94.24
73	151.90	16.53	1990.30	0.79	95.03
74	138.85	15.29	2005.58	0.73	95.76
75	125.89	13.99	2019.57	0.67	96.42
76	113.26	12.70	2032.26	0.61	97.03
77	101.98	11.48	2043.74	0.55	97.58
78	89.53	10.25	2053.99	0.49	98.07
79	78.37	9.02	2063.01	0.43	98.50
80	66.84	7.83	2070.84	0.37	98.87
81	55.60	6.62	2077.46	0.32	99.19

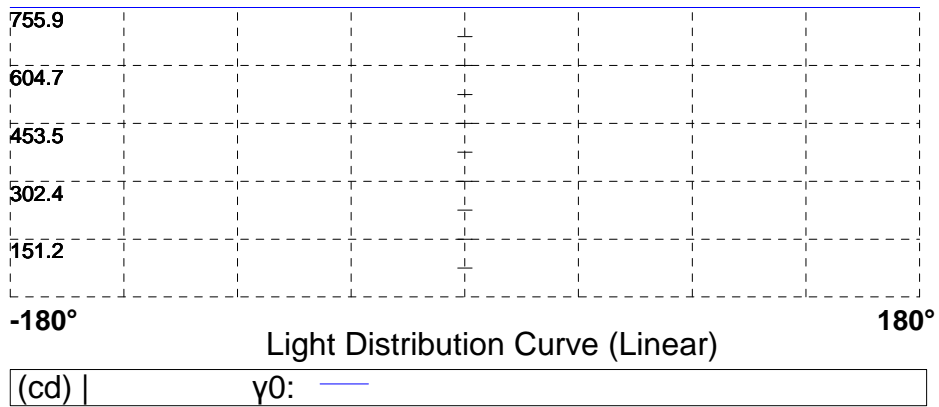
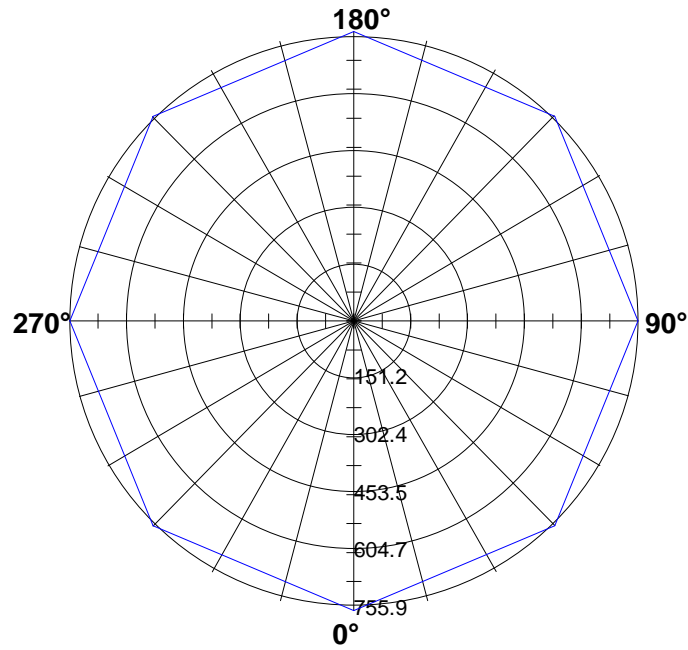


Light Distribution Curve [Unit: cd]

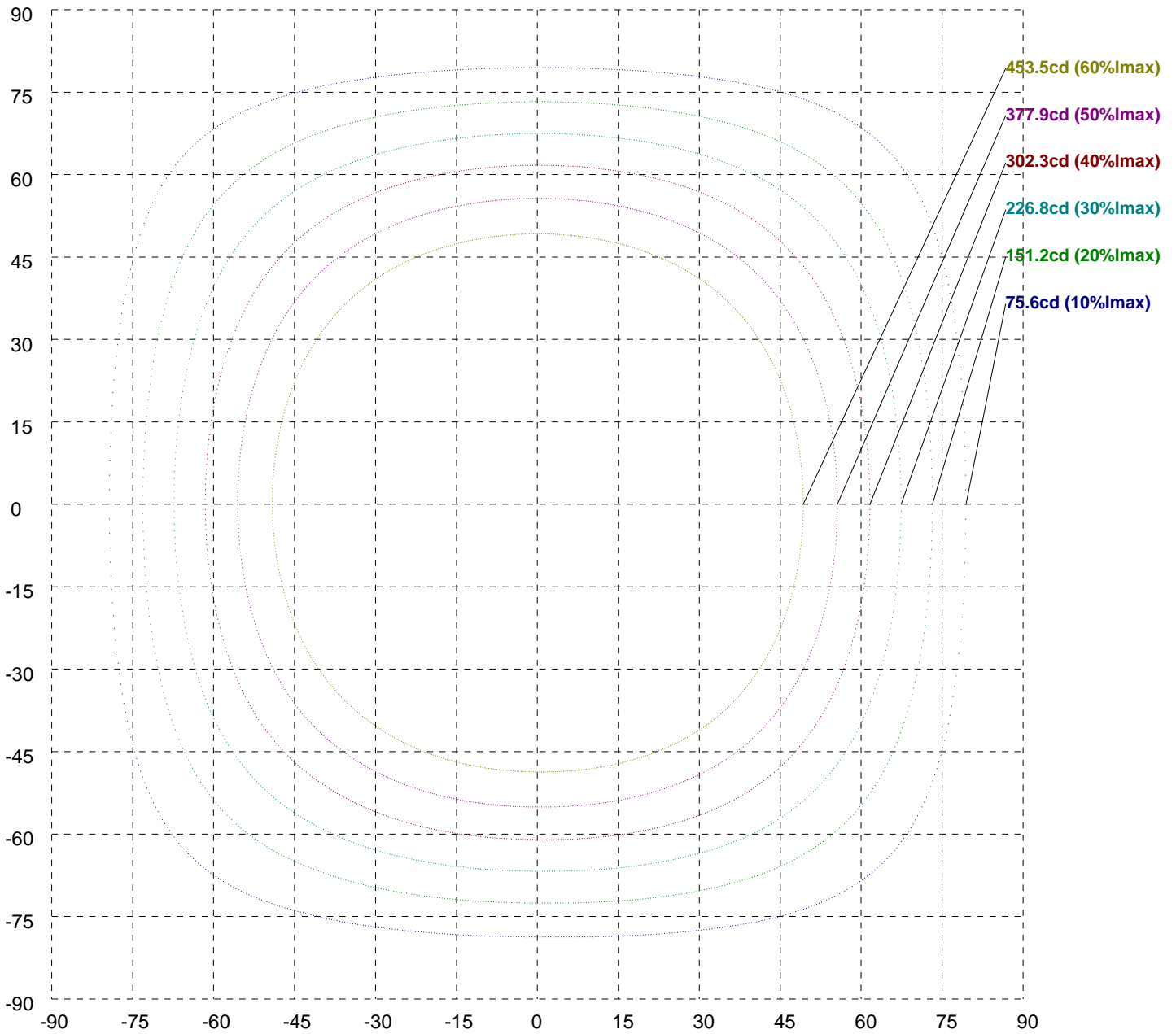
Luminaire



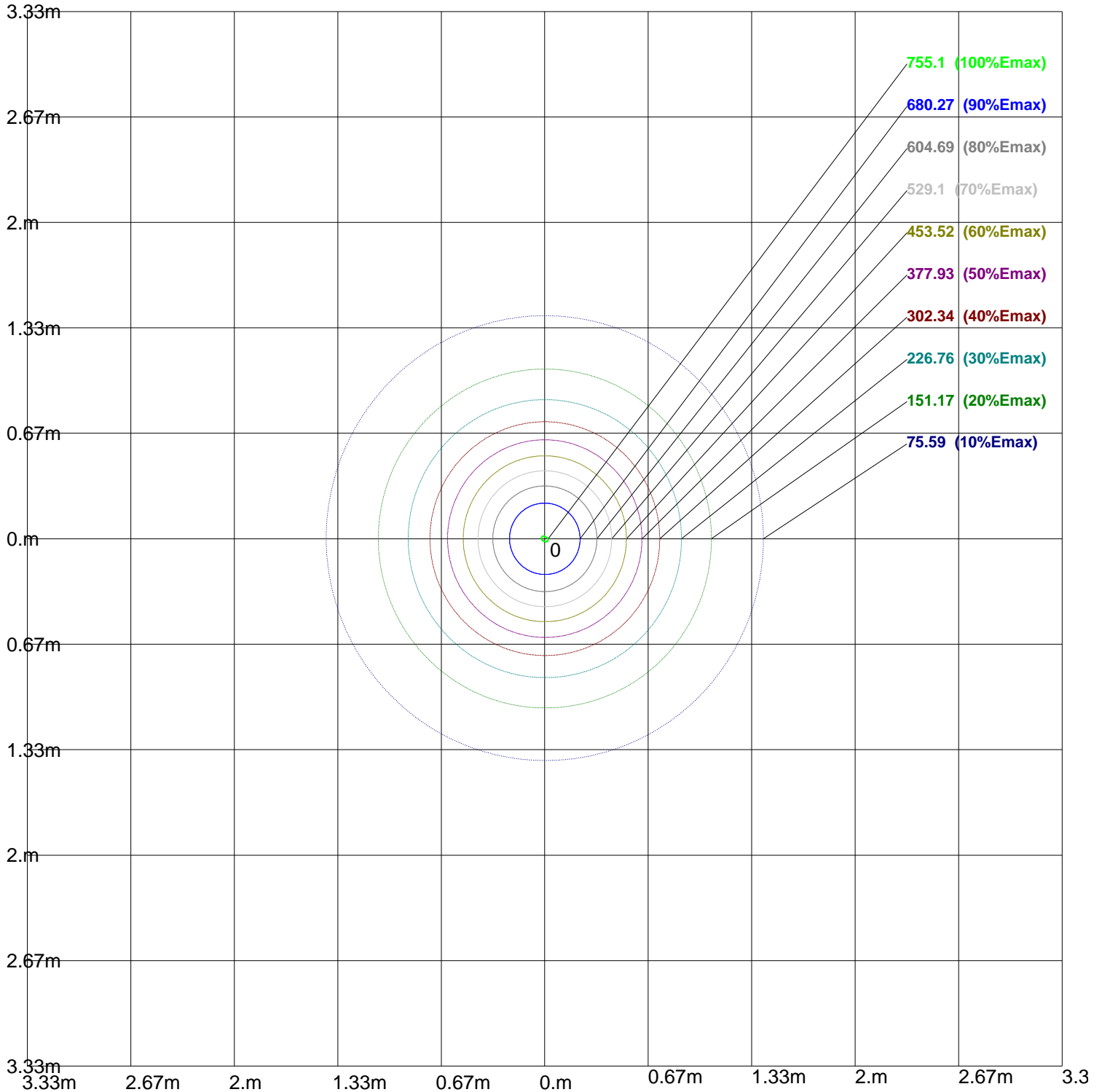
Max Plane Light Distribution Curve [Unit: cd]



等光强曲线 V-H [cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 755.86lx

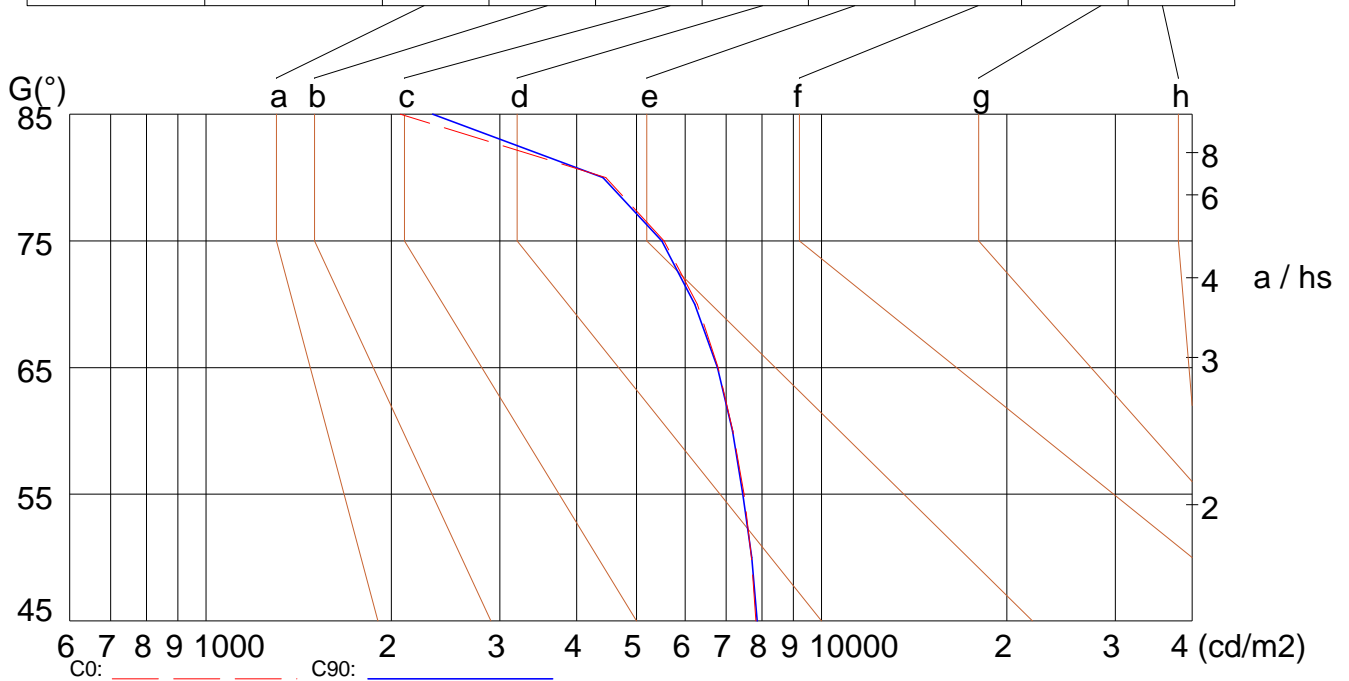
Luminance Limiting Curve

Diameter: mm
Length: 300mm
Width: 300mm
Height: 38 mm

(cd/m²)

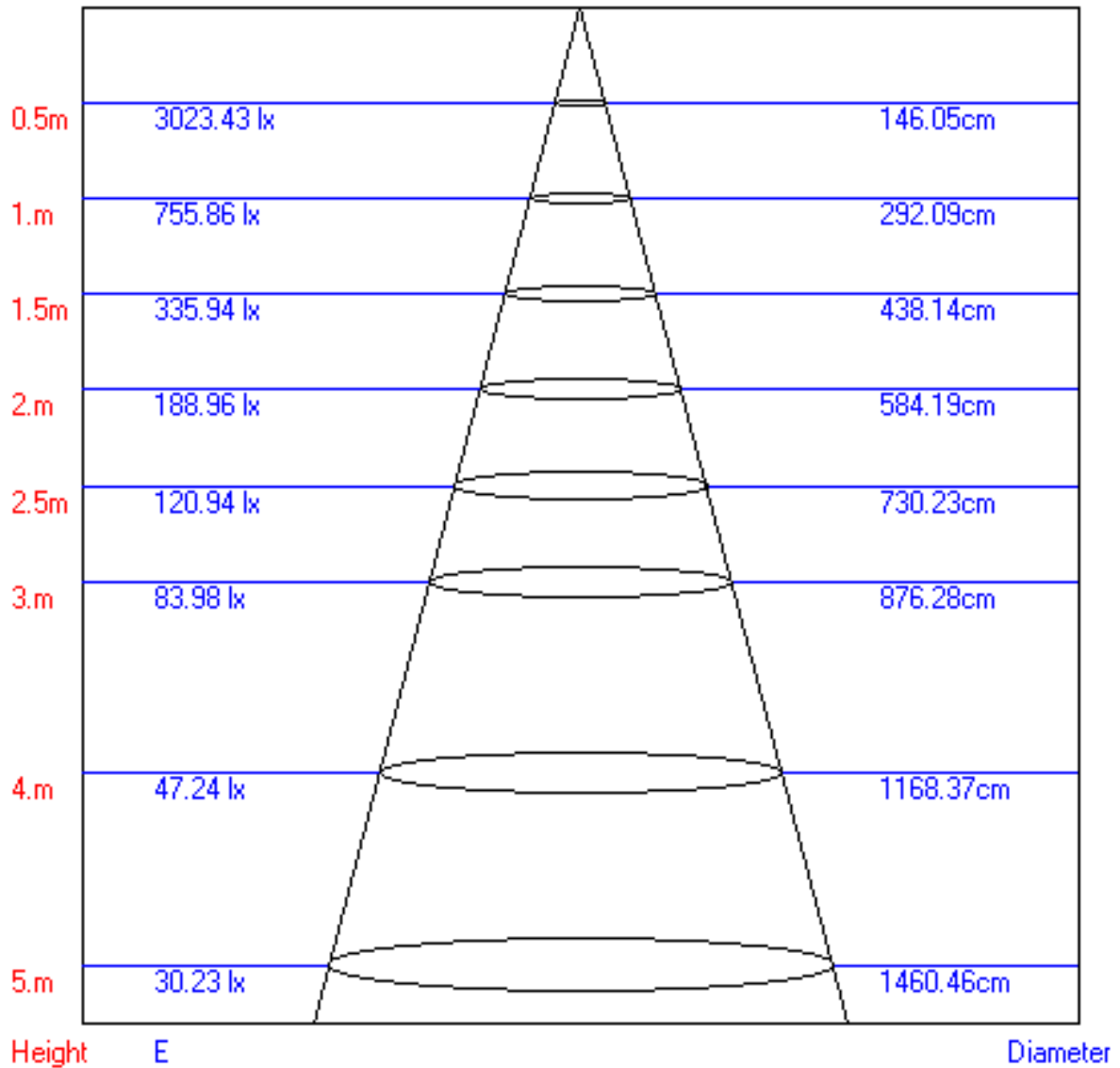
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	7823	7688	7484	7176	6792	6283	5544	4459	2066
C90	7858	7693	7442	7167	6771	6225	5498	4413	2333

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:111.20°

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	1.05	1.03	1.02	1.04	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.87	0.84	0.79
2	0.89	0.87	0.85	0.89	0.86	0.83	0.86	0.83	0.80	0.83	0.79	0.76	0.78	0.74	0.71	0.66
3	0.76	0.74	0.72	0.76	0.73	0.70	0.75	0.71	0.67	0.73	0.68	0.64	0.70	0.65	0.60	0.56
4	0.66	0.63	0.61	0.66	0.63	0.60	0.66	0.61	0.58	0.65	0.59	0.55	0.63	0.57	0.52	0.48
5	0.58	0.55	0.53	0.58	0.55	0.52	0.59	0.54	0.50	0.58	0.52	0.48	0.57	0.50	0.45	0.41
6	0.51	0.48	0.46	0.52	0.48	0.46	0.52	0.47	0.44	0.52	0.46	0.42	0.51	0.45	0.40	0.36
7	0.45	0.43	0.41	0.46	0.43	0.40	0.47	0.42	0.39	0.47	0.41	0.37	0.47	0.40	0.35	0.32
8	0.41	0.38	0.37	0.42	0.38	0.36	0.43	0.38	0.35	0.43	0.37	0.33	0.43	0.37	0.32	0.28
9	0.37	0.34	0.33	0.38	0.34	0.32	0.39	0.34	0.31	0.40	0.34	0.30	0.40	0.33	0.28	0.26
10	0.33	0.31	0.30	0.34	0.31	0.29	0.36	0.31	0.28	0.37	0.31	0.27	0.37	0.31	0.26	0.23

