Luminaire Property

Luminaire: RH-TP15 New 60W 4000K

Report NO.:
Test NO.:
Lamp:
Sum Lumens: 7463.46 lm
Number of Lamps: 1
Diameter: mm
Length: 155mm
Photometric Type: Type C

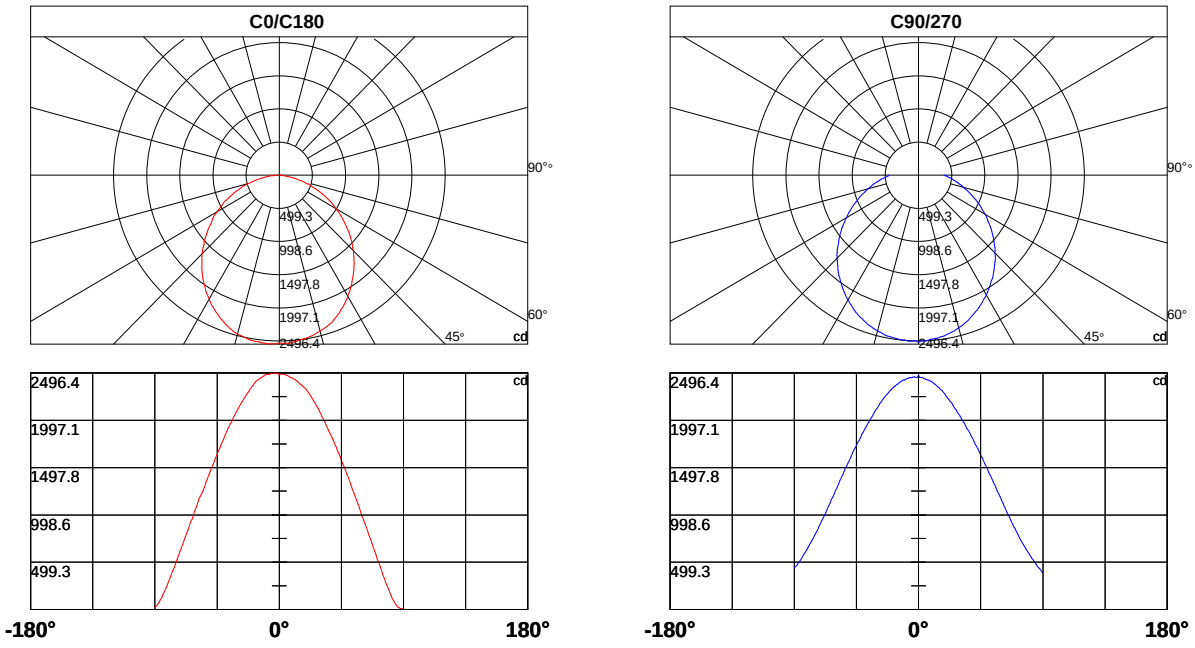
Voltage: 230.3 V
Current: 0.302 A
Power: 67.3 W
Power Factor: 0.968
Ballast Type: 锐高LC 65W 1400mA
Width: 65mm
Height: 68mm
Remark: SMD2835 10B14C

Photometric Results

Lumens: 7463.46 lm
Efficiency: 110.8984 lm/W
Central Intensity: 2474.079cd
Maximum Intensity: 2496.414cd

Beam Angle(10%): Left: -82.2 Right:77.4

Angle of maximum intensity: C:135.0 G:4.0
Half Peak Side Angle(50%): Left: -57.6 Right:51.3
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	2474.1	2488.4	2486.0	2485.1	2483.9	2475.4	2468.9	2460.1	2451.8	2446.1
45.0	2474.1	2447.8	2450.6	2447.8	2437.5	2432.6	2425.9	2424.1	2413.1	2408.5
90.0	2474.1	2447.8	2450.6	2447.8	2437.5	2432.6	2425.9	2424.1	2413.1	2408.5
135.0	2474.1	2493.7	2494.3	2494.0	2496.4	2490.3	2491.8	2483.9	2481.7	2482.4
180.0	2474.1	2493.7	2494.3	2494.0	2496.4	2490.3	2491.8	2483.9	2481.7	2482.4
225.0	2474.1	2448.8	2450.9	2456.1	2454.6	2447.5	2448.2	2443.6	2438.4	2434.5
270.0	2474.1	2448.8	2450.9	2456.1	2454.6	2447.5	2448.2	2443.6	2438.4	2434.5
315.0	2474.1	2488.4	2486.0	2485.1	2483.9	2475.4	2468.9	2460.1	2451.8	2446.1
360.0	2474.1	2488.4	2486.0	2485.1	2483.9	2475.4	2468.9	2460.1	2451.8	2446.1

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	2441.8	2429.5	2422.2	2408.8	2395.4	2383.5	2370.3	2357.8	2345.0	2331.9
45.0	2397.2	2385.3	2374.6	2365.5	2350.2	2337.1	2322.4	2310.5	2290.1	2277.3
90.0	2397.2	2385.3	2374.6	2365.5	2350.2	2337.1	2322.4	2310.5	2290.1	2277.3
135.0	2477.1	2468.6	2456.4	2447.5	2437.5	2429.2	2419.8	2404.5	2385.9	2367.0
180.0	2477.1	2468.6	2456.4	2447.5	2437.5	2429.2	2419.8	2404.5	2385.9	2367.0
225.0	2424.7	2423.2	2414.9	2402.1	2394.8	2383.5	2372.2	2358.4	2346.5	2335.6
270.0	2424.7	2423.2	2414.9	2402.1	2394.8	2383.5	2372.2	2358.4	2346.5	2335.6
315.0	2441.8	2429.5	2422.2	2408.8	2395.4	2383.5	2370.3	2357.8	2345.0	2331.9
360.0	2441.8	2429.5	2422.2	2408.8	2395.4	2383.5	2370.3	2357.8	2345.0	2331.9

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	2313.9	2290.1	2269.0	2245.6	2225.7	2197.9	2175.6	2147.9	2123.8	2096.0
45.0	2254.1	2234.9	2215.3	2195.8	2180.8	2154.3	2129.9	2112.2	2083.5	2063.7
90.0	2254.1	2234.9	2215.3	2195.8	2180.8	2154.3	2129.9	2112.2	2083.5	2063.7
135.0	2349.9	2326.7	2306.5	2285.2	2263.2	2238.8	2215.9	2189.7	2168.6	2143.0
180.0	2349.9	2326.7	2306.5	2285.2	2263.2	2238.8	2215.9	2189.7	2168.6	2143.0
225.0	2319.4	2300.2	2285.2	2272.1	2250.4	2232.7	2216.5	2194.0	2172.3	2147.2
270.0	2319.4	2300.2	2285.2	2272.1	2250.4	2232.7	2216.5	2194.0	2172.3	2147.2
315.0	2313.9	2290.1	2269.0	2245.6	2225.7	2197.9	2175.6	2147.9	2123.8	2096.0
360.0	2313.9	2290.1	2269.0	2245.6	2225.7	2197.9	2175.6	2147.9	2123.8	2096.0

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	2066.4	2037.1	2009.0	1981.9	1945.5	1913.5	1883.6	1851.2	1819.8	1789.3
45.0	2040.1	2015.1	1994.1	1966.6	1941.3	1909.5	1888.2	1864.3	1834.1	1808.8
90.0	2040.1	2015.1	1994.1	1966.6	1941.3	1909.5	1888.2	1864.3	1834.1	1808.8
135.0	2112.5	2087.4	2061.2	2031.3	1997.7	1966.9	1940.7	1913.2	1880.2	1843.6
180.0	2112.5	2087.4	2061.2	2031.3	1997.7	1966.9	1940.7	1913.2	1880.2	1843.6
225.0	2125.9	2106.0	2080.1	2055.1	2031.3	2005.9	1979.7	1958.3	1926.9	1904.9
270.0	2125.9	2106.0	2080.1	2055.1	2031.3	2005.9	1979.7	1958.3	1926.9	1904.9
315.0	2066.4	2037.1	2009.0	1981.9	1945.5	1913.5	1883.6	1851.2	1819.8	1789.3
360.0	2066.4	2037.1	2009.0	1981.9	1945.5	1913.5	1883.6	1851.2	1819.8	1789.3

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	1754.5	1719.7	1682.8	1651.7	1614.7	1574.1	1537.2	1502.7	1464.9	1425.8
45.0	1774.6	1749.0	1722.8	1694.0	1663.8	1630.3	1602.5	1569.9	1538.1	1506.1
90.0	1774.6	1749.0	1722.8	1694.0	1663.8	1630.3	1602.5	1569.9	1538.1	1506.1
135.0	1808.5	1774.3	1742.6	1704.1	1678.2	1638.2	1605.6	1566.5	1525.6	1497.5
180.0	1808.5	1774.3	1742.6	1704.1	1678.2	1638.2	1605.6	1566.5	1525.6	1497.5
225.0	1875.3	1851.2	1816.7	1788.4	1762.1	1729.2	1708.1	1676.4	1644.9	1612.0
270.0	1875.3	1851.2	1816.7	1788.4	1762.1	1729.2	1708.1	1676.4	1644.9	1612.0
315.0	1754.5	1719.7	1682.8	1651.7	1614.7	1574.1	1537.2	1502.7	1464.9	1425.8
360.0	1754.5	1719.7	1682.8	1651.7	1614.7	1574.1	1537.2	1502.7	1464.9	1425.8

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	1391.6	1352.5	1312.9	1270.8	1229.9	1192.3	1156.0	1112.1	1073.9	1029.1
45.0	1475.2	1442.3	1413.9	1381.3	1351.3	1317.5	1281.7	1248.5	1220.7	1191.1
90.0	1475.2	1442.3	1413.9	1381.3	1351.3	1317.5	1281.7	1248.5	1220.7	1191.1
135.0	1456.3	1421.8	1379.7	1343.7	1300.1	1258.9	1226.2	1199.7	1168.6	1126.4
180.0	1456.3	1421.8	1379.7	1343.7	1300.1	1258.9	1226.2	1199.7	1168.6	1126.4
225.0	1576.0	1548.5	1518.0	1488.7	1454.8	1418.8	1393.8	1359.0	1322.0	1288.8
270.0	1576.0	1548.5	1518.0	1488.7	1454.8	1418.8	1393.8	1359.0	1322.0	1288.8
315.0	1391.6	1352.5	1312.9	1270.8	1229.9	1192.3	1156.0	1112.1	1073.9	1029.1
360.0	1391.6	1352.5	1312.9	1270.8	1229.9	1192.3	1156.0	1112.1	1073.9	1029.1

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	987.9	950.0	912.8	870.1	826.8	784.6	741.6	702.2	658.9	615.3
45.0	1154.2	1120.9	1088.0	1059.6	1026.9	997.7	969.8	935.1	902.7	872.5
90.0	1154.2	1120.9	1088.0	1059.6	1026.9	997.7	969.8	935.1	902.7	872.5
135.0	1081.5	1043.7	1000.1	956.5	930.2	885.0	840.8	806.3	763.6	727.9
180.0	1081.5	1043.7	1000.1	956.5	930.2	885.0	840.8	806.3	763.6	727.9
225.0	1255.2	1225.3	1191.1	1161.8	1125.2	1096.2	1059.3	1027.9	995.5	967.1
270.0	1255.2	1225.3	1191.1	1161.8	1125.2	1096.2	1059.3	1027.9	995.5	967.1
315.0	987.9	950.0	912.8	870.1	826.8	784.6	741.6	702.2	658.9	615.3
360.0	987.9	950.0	912.8	870.1	826.8	784.6	741.6	702.2	658.9	615.3

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	577.1	529.5	493.8	455.7	410.2	369.3	329.0	289.3	255.5	218.2
45.0	850.5	820.9	789.2	759.9	732.7	704.4	681.8	656.2	631.1	610.4
90.0	850.5	820.9	789.2	759.9	732.7	704.4	681.8	656.2	631.1	610.4
135.0	687.0	643.0	605.8	571.9	529.2	491.0	443.7	409.5	379.3	333.0
180.0	687.0	643.0	605.8	571.9	529.2	491.0	443.7	409.5	379.3	333.0
225.0	939.1	907.9	873.4	842.3	818.5	787.7	759.6	731.2	707.4	680.5
270.0	939.1	907.9	873.4	842.3	818.5	787.7	759.6	731.2	707.4	680.5
315.0	577.1	529.5	493.8	455.7	410.2	369.3	329.0	289.3	255.5	218.2
360.0	577.1	529.5	493.8	455.7	410.2	369.3	329.0	289.3	255.5	218.2

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	181.9	148.6	115.6	86.3	62.6	44.0	23.8	15.2	9.2	5.2
45.0	586.0	564.0	540.2	518.5	497.2	481.3	457.8	438.8	424.2	405.6
90.0	586.0	564.0	540.2	518.5	497.2	481.3	457.8	438.8	424.2	405.6
135.0	294.2	261.8	228.3	188.6	162.7	127.2	102.6	75.1	55.3	31.4
180.0	294.2	261.8	228.3	188.6	162.7	127.2	102.6	75.1	55.3	31.4
225.0	654.0	629.6	603.3	583.5	559.4	533.8	510.3	494.1	468.1	452.6
270.0	654.0	629.6	603.3	583.5	559.4	533.8	510.3	494.1	468.1	452.6
315.0	181.9	148.6	115.6	86.3	62.6	44.0	23.8	15.2	9.2	5.2
360.0	181.9	148.6	115.6	86.3	62.6	44.0	23.8	15.2	9.2	5.2

C\G	90.0
0.0	4.9
45.0	384.2
90.0	384.2
135.0	18.6
180.0	18.6
225.0	443.4
270.0	443.4
315.0	4.9
360.0	4.9

Zonal Flux Distribution

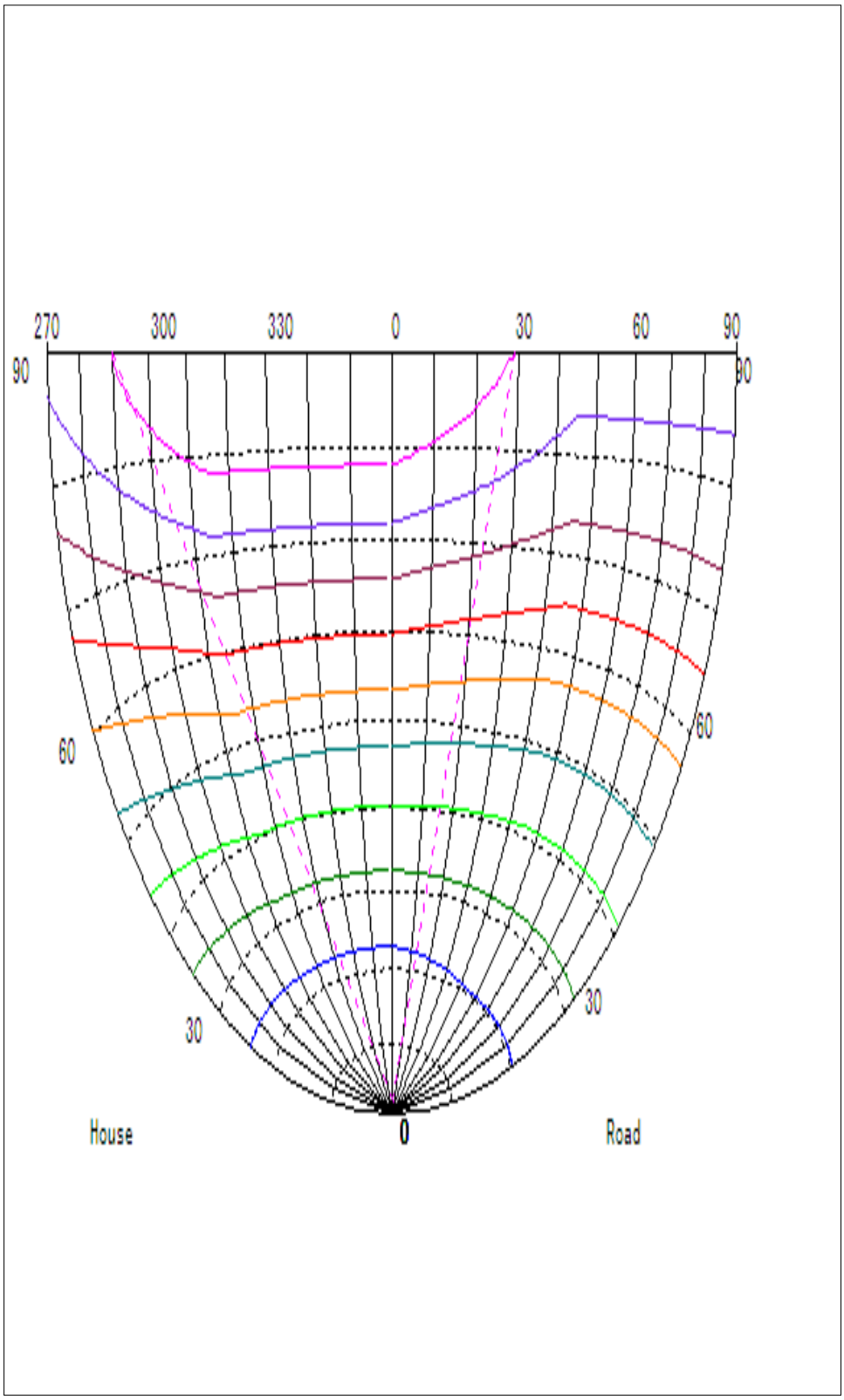
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	2474.08	0.00	0.00	0.00	0.00
1	2469.68	2.37	2.37	0.03	0.03
2	2470.46	7.09	9.46	0.10	0.13
3	2470.76	11.82	21.27	0.16	0.29
4	2468.09	16.53	37.81	0.22	0.51
5	2461.45	21.21	59.01	0.28	0.79
6	2458.70	25.86	84.87	0.35	1.14
7	2452.91	30.49	115.36	0.41	1.55
8	2446.26	35.06	150.42	0.47	2.02
9	2442.84	39.62	190.04	0.53	2.55
10	2435.20	44.14	234.19	0.59	3.14
11	2426.66	48.58	282.77	0.65	3.79
12	2417.06	52.95	335.71	0.71	4.50
13	2405.98	57.24	392.95	0.77	5.27
14	2394.46	61.45	454.40	0.82	6.09
15	2383.32	65.59	519.99	0.88	6.97
16	2371.19	69.67	589.66	0.93	7.90
17	2357.83	73.64	663.30	0.99	8.89
18	2341.90	77.49	740.79	1.04	9.93
19	2327.93	81.25	822.03	1.09	11.01
20	2309.32	84.87	906.91	1.14	12.15
21	2287.95	88.28	995.18	1.18	13.33
22	2269.03	91.57	1086.76	1.23	14.56
23	2249.66	94.81	1181.57	1.27	15.83
24	2230.04	97.94	1279.52	1.31	17.14
25	2205.94	100.86	1380.38	1.35	18.50
26	2184.48	103.64	1484.02	1.39	19.88
27	2160.92	106.31	1590.33	1.42	21.31
28	2137.05	108.82	1699.14	1.46	22.77
29	2112.47	111.18	1810.32	1.49	24.26
30	2086.22	113.36	1923.69	1.52	25.77
31	2061.41	115.42	2039.11	1.55	27.32
32	2036.11	117.39	2156.50	1.57	28.89
33	2008.71	119.16	2275.66	1.60	30.49
34	1978.95	120.68	2396.34	1.62	32.11
35	1948.97	121.99	2518.32	1.63	33.74
36	1923.04	123.29	2641.61	1.65	35.39
37	1896.79	124.58	2766.19	1.67	37.06
38	1865.27	125.57	2891.76	1.68	38.75
39	1836.67	126.36	3018.12	1.69	40.44
40	1803.23	126.95	3145.07	1.70	42.14

Zonal Flux Distribution

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	1773.57	127.37	3272.43	1.71	43.85
42	1741.23	127.70	3400.13	1.71	45.56
43	1709.55	127.83	3527.96	1.71	47.27
44	1679.72	127.92	3655.88	1.71	48.98
45	1642.95	127.69	3783.57	1.71	50.69
46	1613.35	127.35	3910.92	1.71	52.40
47	1578.85	126.96	4037.88	1.70	54.10
48	1543.38	126.22	4164.10	1.69	55.79
49	1510.35	125.40	4289.50	1.68	57.47
50	1474.78	124.46	4413.96	1.67	59.14
51	1441.28	123.37	4537.34	1.65	60.79
52	1406.12	122.18	4659.52	1.64	62.43
53	1371.12	120.81	4780.33	1.62	64.05
54	1334.03	119.23	4899.56	1.60	65.65
55	1296.88	117.44	5017.00	1.57	67.22
56	1264.44	115.74	5132.74	1.55	68.77
57	1229.82	114.04	5246.79	1.53	70.30
58	1196.31	112.19	5358.98	1.50	71.80
59	1158.86	110.11	5469.08	1.48	73.28
60	1119.71	107.65	5576.73	1.44	74.72
61	1084.99	105.21	5681.94	1.41	76.13
62	1047.99	102.78	5784.72	1.38	77.51
63	1011.98	100.19	5884.91	1.34	78.85
64	977.27	97.61	5982.52	1.31	80.16
65	940.88	94.93	6077.45	1.27	81.43
66	902.87	91.99	6169.44	1.23	82.66
67	867.87	89.04	6258.48	1.19	83.85
68	830.17	86.02	6344.50	1.15	85.01
69	795.70	82.94	6427.44	1.11	86.12
70	763.43	80.07	6507.51	1.07	87.19
71	725.34	76.95	6584.46	1.03	88.22
72	690.55	73.62	6658.08	0.99	89.21
73	657.44	70.49	6728.57	0.94	90.15
74	622.65	67.30	6795.87	0.90	91.06
75	588.09	63.97	6859.84	0.86	91.91
76	553.52	60.60	6920.44	0.81	92.72
77	521.55	57.32	6977.76	0.77	93.49
78	493.33	54.33	7032.09	0.73	94.22
79	460.51	51.25	7083.34	0.69	94.91
80	429.02	47.96	7131.29	0.64	95.55
81	401.00	44.89	7176.18	0.60	96.15

Zonal Flux Distribution

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
82	371.85	41.91	7218.09	0.56	96.71
83	344.23	38.93	7257.02	0.52	97.23
84	320.45	36.21	7293.23	0.49	97.72
85	296.56	33.68	7326.90	0.45	98.17
86	273.59	31.17	7358.07	0.42	98.59
87	255.82	28.97	7387.04	0.39	98.98
88	239.19	27.12	7414.16	0.36	99.34
89	223.70	25.37	7439.53	0.34	99.68
90	212.80	23.93	7463.46	0.32	100.00


270
300
330
0
30
60
90
90
90
60
60
30
30
House
0
Road
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748.9242 cd
998.5656 cd
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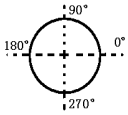
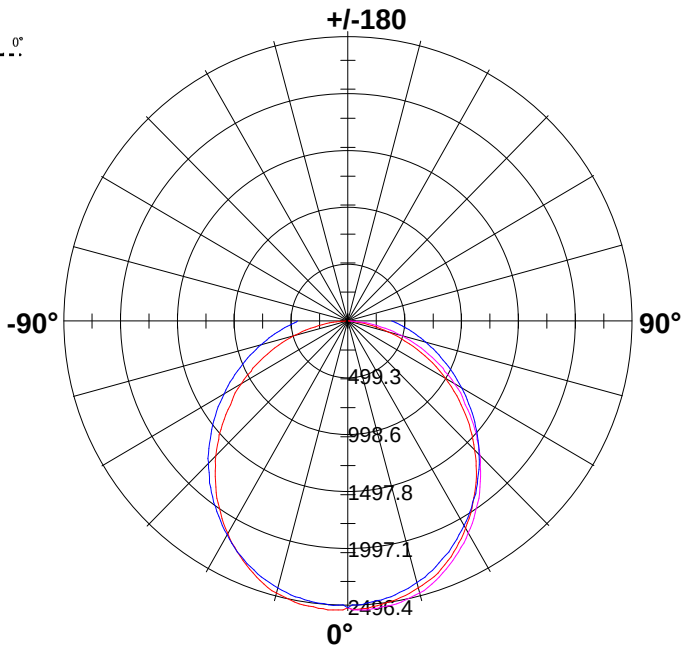
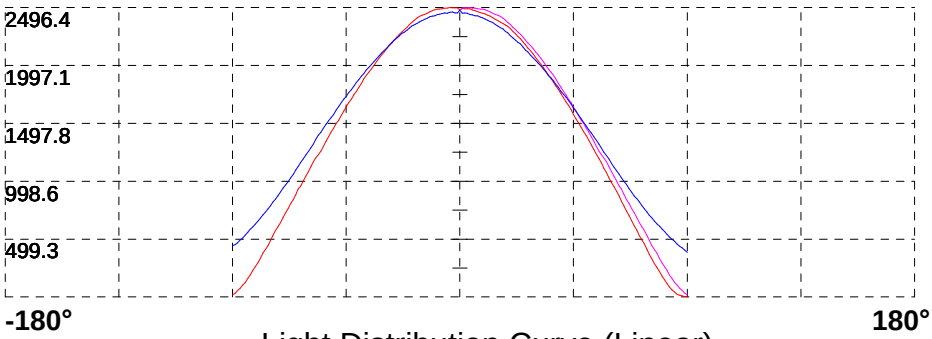
1747.49 cd
1997.131 cd
2246.773 cd
2496.414 cd

Light Distribution Curve [Unit: cd]

Luminaire



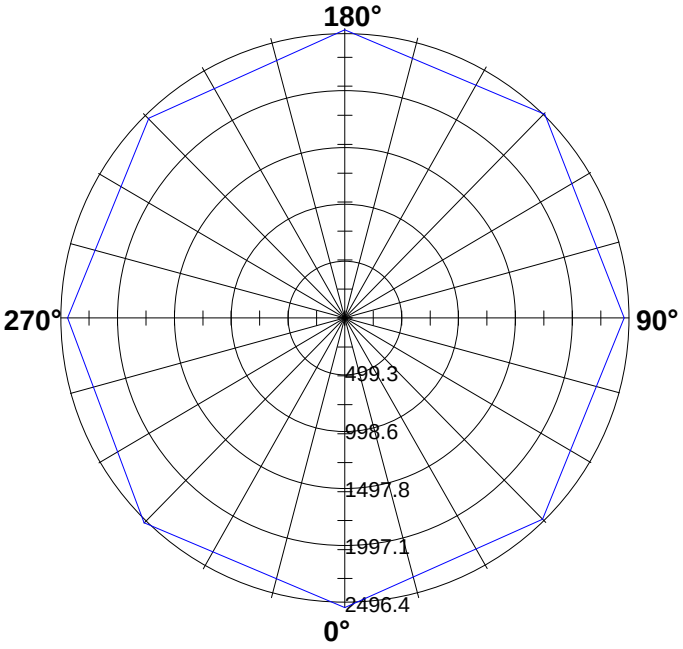


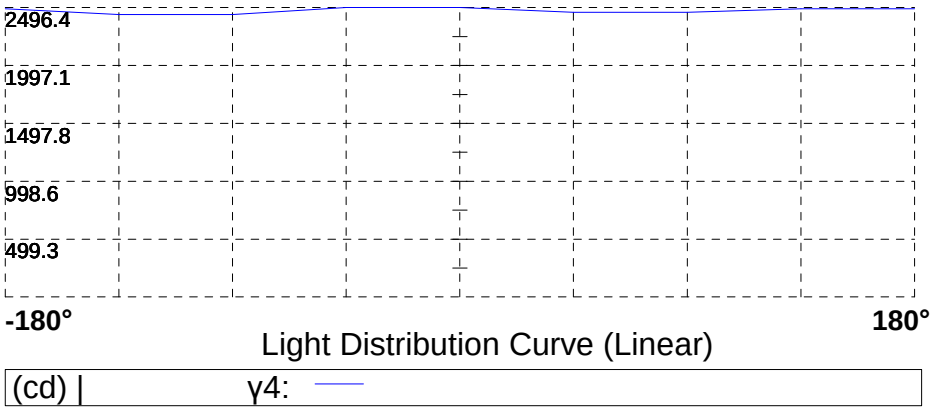


Light Distribution Curve (Linear)

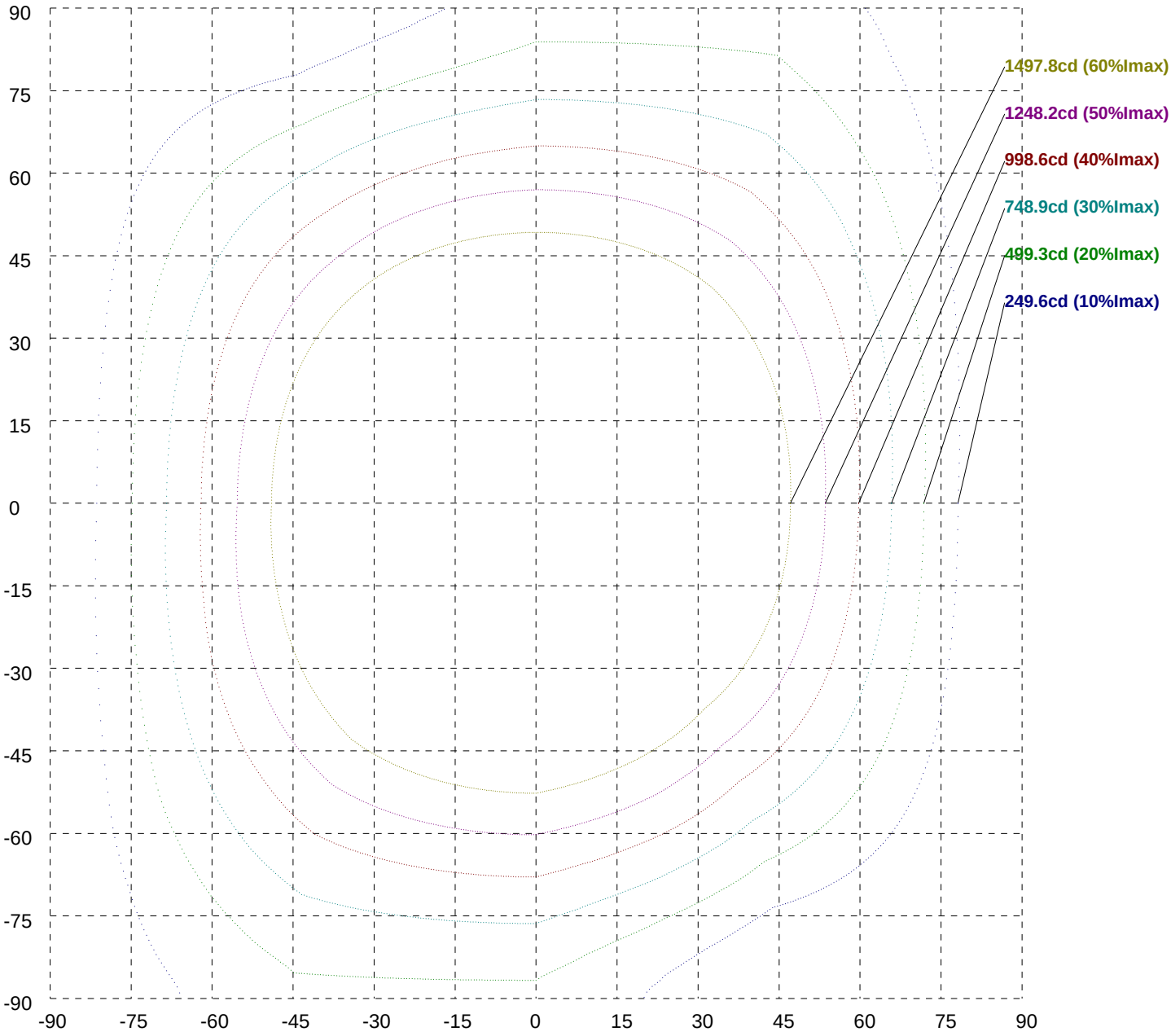
(cd) | C0/C180: C90/C270: C135:

Max Plane Light Distribution Curve [Unit: cd]



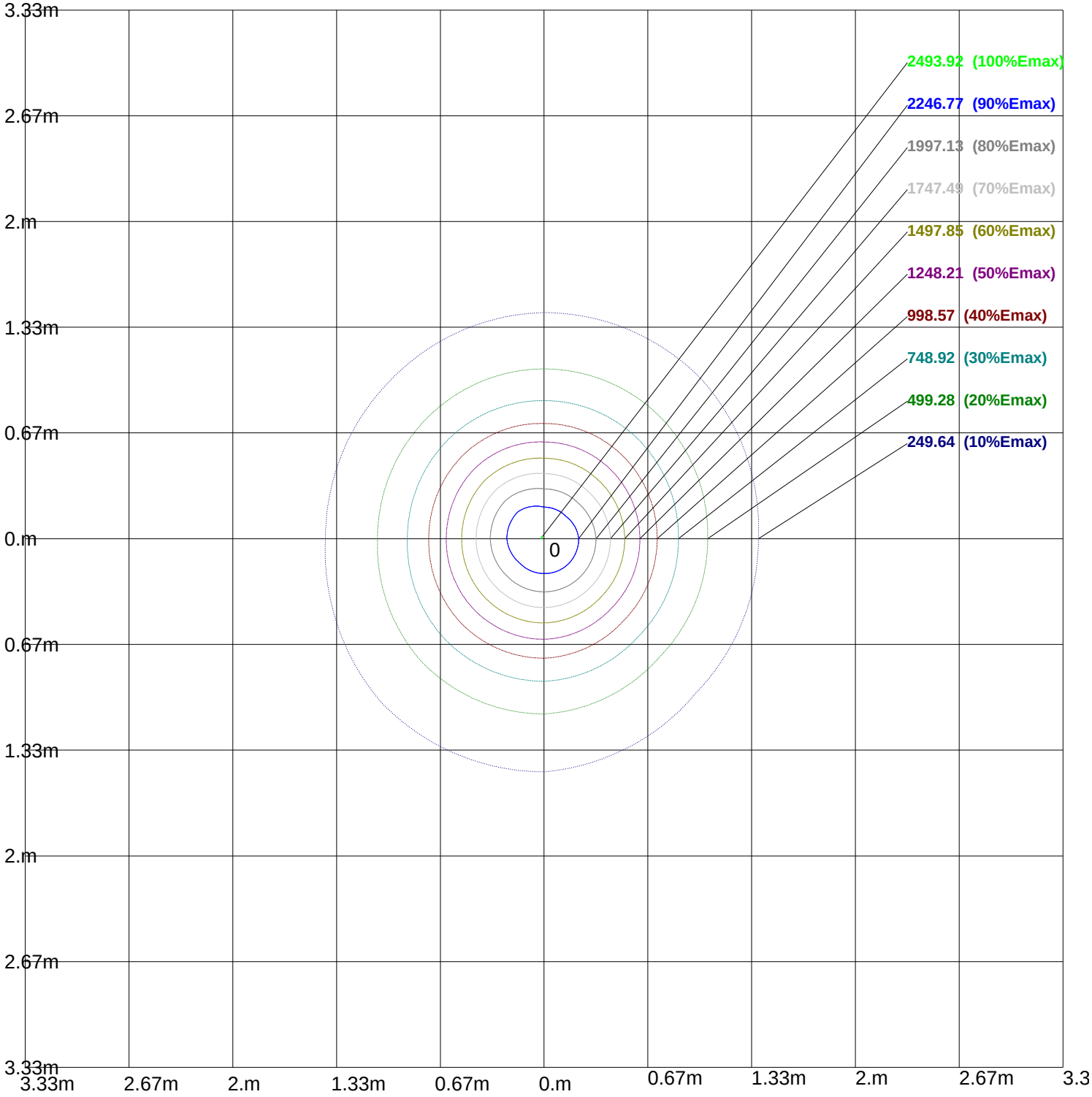


等光强曲线 V-H [cd]



测试设备:LINKCOLOR LCG-GONIO　　测试日期:2021-10-11　　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 : 2496.41lx

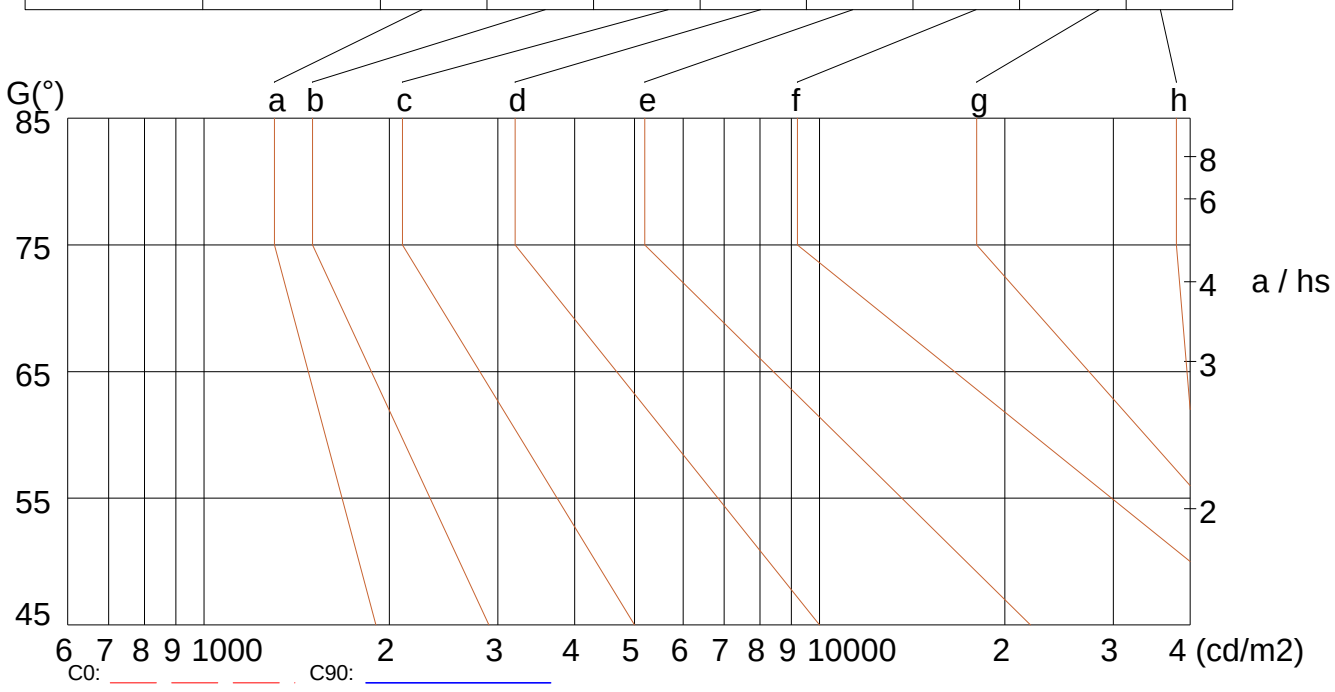
Luminance Limitting Curve

Diameter: mm
Length: 155mm
Width: 65mm
Height: 68mm

(cd/m2)

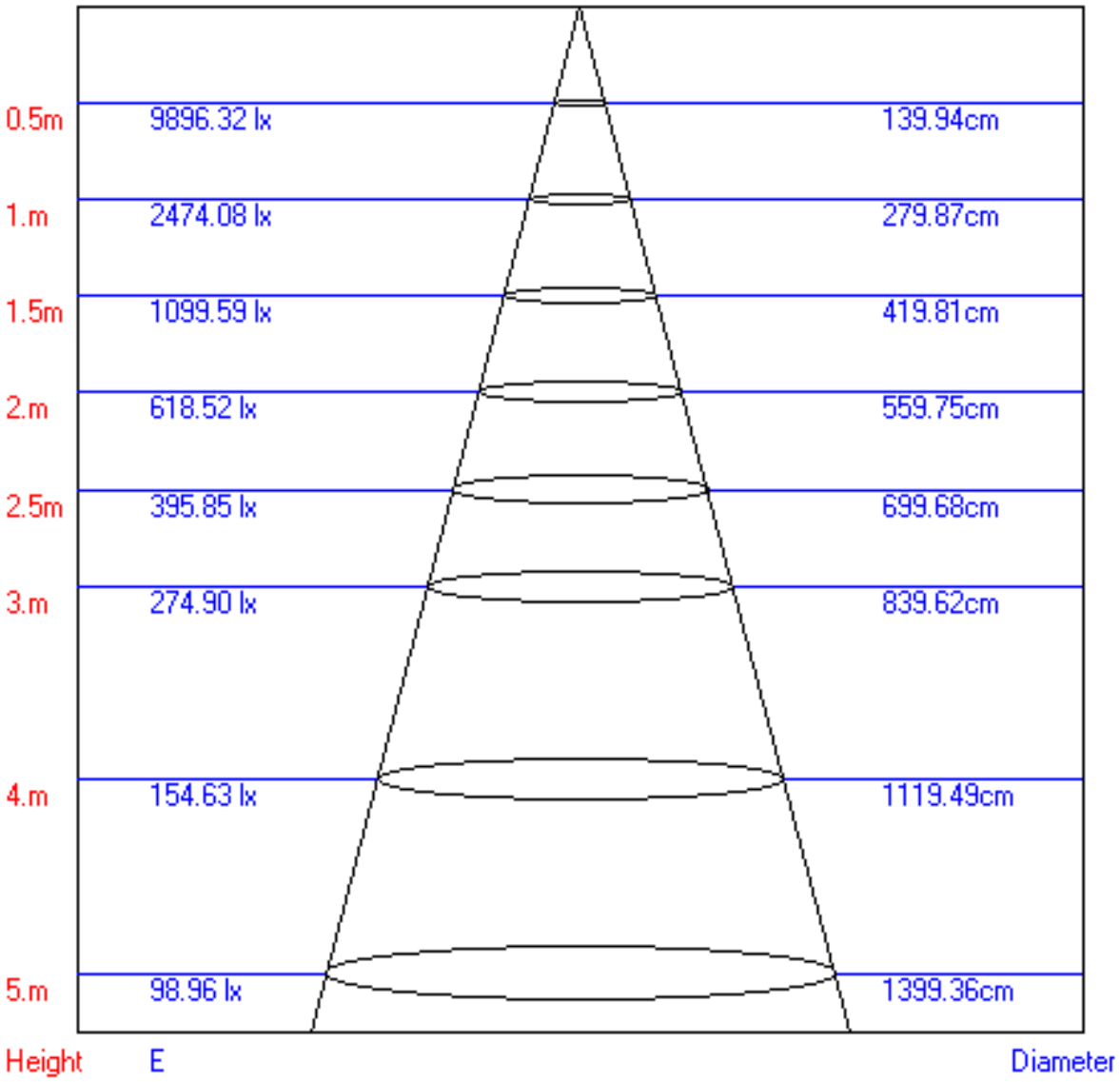
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	228276	227235	227421	228553	233728	246215	269452	334103	546725
C90	220409	214352	205818	195622	183821	167069	141258	103711	49945

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:108.90°

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	1.02	1.00	0.98	1.00	0.98	0.96	0.97	0.95	0.92	0.93	0.90	0.87	0.86	0.84	0.81	0.76
2	0.85	0.83	0.80	0.85	0.82	0.79	0.83	0.79	0.76	0.80	0.76	0.72	0.76	0.71	0.67	0.63
3	0.72	0.69	0.67	0.73	0.69	0.66	0.72	0.67	0.63	0.70	0.65	0.60	0.67	0.61	0.57	0.52
4	0.62	0.59	0.57	0.63	0.59	0.56	0.63	0.58	0.54	0.62	0.56	0.51	0.60	0.54	0.48	0.44
5	0.54	0.51	0.49	0.55	0.51	0.48	0.56	0.50	0.47	0.55	0.49	0.44	0.54	0.47	0.42	0.38
6	0.48	0.45	0.43	0.49	0.45	0.42	0.50	0.44	0.41	0.50	0.44	0.39	0.49	0.42	0.37	0.33
7	0.42	0.40	0.38	0.43	0.40	0.37	0.45	0.40	0.36	0.45	0.39	0.34	0.45	0.38	0.33	0.29
8	0.38	0.35	0.34	0.39	0.36	0.33	0.41	0.36	0.32	0.41	0.35	0.31	0.42	0.35	0.29	0.26
9	0.34	0.32	0.30	0.35	0.32	0.30	0.37	0.32	0.29	0.38	0.32	0.28	0.38	0.32	0.26	0.24
10	0.31	0.29	0.28	0.32	0.29	0.27	0.34	0.29	0.26	0.35	0.29	0.25	0.36	0.29	0.24	0.21

Budgetary Estimate Chart			
Light Flux	7463.46 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