Luminaire Property

Luminaire: 140-093
Report NO.:
Test NO.:
Lamp: CREE XLamp CXA2520 3000K
Sum Lumens: 3298 lm
Number of Lamps: 1
Diameter: 200mm
Length: mm
Photometric Type: Type C

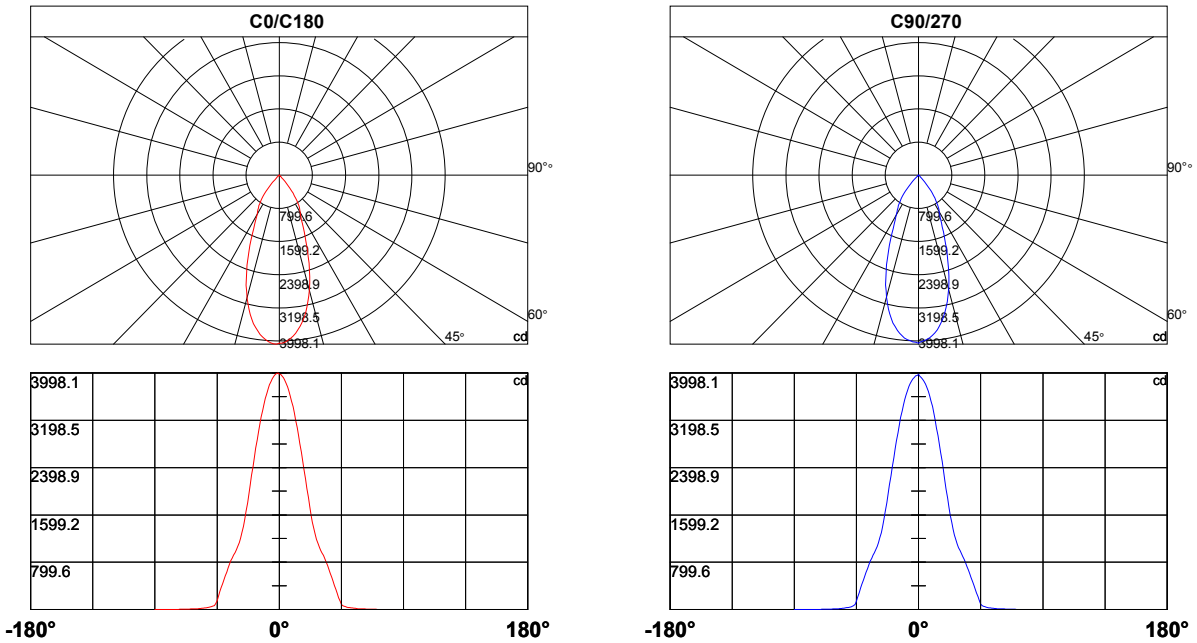
Voltage: 220.7 V
Current: 0.138 A
Power: 29.0 W
Power Factor: 0.947
Ballast Type: HEP LCC30W700
Width: 200mm
Height: mm
Remark: SL-069-L

Photometric Results

Lumens: 2453.41 lm
Efficiency: 82.0538 lm/W
Central Intensity: 3978.024cd
Maximum Intensity: 3998.084cd

Beam Angle(10%): Left: -41.1 Right:40.6

Angle of maximum intensity: C:135.0 G:1.0
Half Peak Side Angle(50%): Left: -21.3 Right:20.7
Light Out Rate(LOR) : 74.3908%
Up Flux Rate: N.A
Down Flux Rate: N.A



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	3978.0	3977.7	3953.5	3919.1	3872.7	3826.5	3764.4	3688.6	3610.9	3524.4
45.0	3978.0	3944.0	3919.0	3889.4	3857.0	3808.9	3755.1	3687.7	3607.1	3524.5
90.0	3978.0	3944.0	3919.0	3889.4	3857.0	3808.9	3755.1	3687.7	3607.1	3524.5
135.0	3978.0	3998.1	3991.9	3972.2	3943.1	3902.0	3856.1	3798.5	3726.7	3651.5
180.0	3978.0	3998.1	3991.9	3972.2	3943.1	3902.0	3856.1	3798.5	3726.7	3651.5
225.0	3978.0	3954.8	3947.2	3926.1	3899.8	3867.0	3821.4	3771.4	3707.9	3628.6
270.0	3978.0	3954.8	3947.2	3926.1	3899.8	3867.0	3821.4	3771.4	3707.9	3628.6
315.0	3978.0	3977.7	3953.5	3919.1	3872.7	3826.5	3764.4	3688.6	3610.9	3524.4
360.0	3978.0	3977.7	3953.5	3919.1	3872.7	3826.5	3764.4	3688.6	3610.9	3524.4

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	3430.3	3324.2	3199.6	3075.5	2942.4	2804.0	2659.3	2510.9	2362.5	2201.2
45.0	3428.9	3317.9	3203.6	3071.7	2939.7	2795.2	2656.1	2504.5	2348.6	2185.6
90.0	3428.9	3317.9	3203.6	3071.7	2939.7	2795.2	2656.1	2504.5	2348.6	2185.6
135.0	3567.6	3471.1	3369.2	3252.0	3130.3	3003.4	2864.9	2725.5	2572.1	2416.4
180.0	3567.6	3471.1	3369.2	3252.0	3130.3	3003.4	2864.9	2725.5	2572.1	2416.4
225.0	3551.4	3456.6	3352.0	3246.9	3117.3	2986.8	2851.2	2717.8	2562.8	2411.2
270.0	3551.4	3456.6	3352.0	3246.9	3117.3	2986.8	2851.2	2717.8	2562.8	2411.2
315.0	3430.3	3324.2	3199.6	3075.5	2942.4	2804.0	2659.3	2510.9	2362.5	2201.2
360.0	3430.3	3324.2	3199.6	3075.5	2942.4	2804.0	2659.3	2510.9	2362.5	2201.2

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	2044.1	1890.7	1742.6	1602.1	1476.8	1366.7	1270.2	1185.7	1112.8	1052.5
45.0	2032.7	1883.9	1733.1	1595.8	1469.0	1356.8	1260.3	1175.4	1104.2	1043.0
90.0	2032.7	1883.9	1733.1	1595.8	1469.0	1356.8	1260.3	1175.4	1104.2	1043.0
135.0	2264.7	2104.9	1952.6	1802.9	1660.4	1527.1	1404.8	1301.2	1208.6	1129.8
180.0	2264.7	2104.9	1952.6	1802.9	1660.4	1527.1	1404.8	1301.2	1208.6	1129.8
225.0	2260.1	2104.5	1953.2	1801.1	1657.8	1523.8	1404.5	1300.0	1209.3	1130.3
270.0	2260.1	2104.5	1953.2	1801.1	1657.8	1523.8	1404.5	1300.0	1209.3	1130.3
315.0	2044.1	1890.7	1742.6	1602.1	1476.8	1366.7	1270.2	1185.7	1112.8	1052.5
360.0	2044.1	1890.7	1742.6	1602.1	1476.8	1366.7	1270.2	1185.7	1112.8	1052.5

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	1002.3	960.1	914.6	861.6	804.3	741.5	678.2	609.9	540.6	475.0
45.0	993.3	946.4	899.2	843.6	788.4	726.7	666.1	603.6	539.8	473.6
90.0	993.3	946.4	899.2	843.6	788.4	726.7	666.1	603.6	539.8	473.6
135.0	1063.3	1008.9	964.6	922.2	871.6	820.0	760.7	700.1	634.2	570.7
180.0	1063.3	1008.9	964.6	922.2	871.6	820.0	760.7	700.1	634.2	570.7
225.0	1064.0	1008.1	961.0	917.8	868.7	814.8	757.8	691.7	628.3	561.6
270.0	1064.0	1008.1	961.0	917.8	868.7	814.8	757.8	691.7	628.3	561.6
315.0	1002.3	960.1	914.6	861.6	804.3	741.5	678.2	609.9	540.6	475.0
360.0	1002.3	960.1	914.6	861.6	804.3	741.5	678.2	609.9	540.6	475.0

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	403.3	335.8	271.2	202.4	138.0	83.9	62.4	54.3	46.4	40.2
45.0	408.7	344.0	281.2	214.9	153.2	91.9	62.8	52.4	45.5	38.1
90.0	408.7	344.0	281.2	214.9	153.2	91.9	62.8	52.4	45.5	38.1
135.0	502.7	438.5	369.6	302.7	225.7	153.2	95.5	67.8	58.3	49.9
180.0	502.7	438.5	369.6	302.7	225.7	153.2	95.5	67.8	58.3	49.9
225.0	497.4	428.9	361.6	287.2	211.4	139.1	87.3	62.8	53.7	45.3
270.0	497.4	428.9	361.6	287.2	211.4	139.1	87.3	62.8	53.7	45.3
315.0	403.3	335.8	271.2	202.4	138.0	83.9	62.4	54.3	46.4	40.2
360.0	403.3	335.8	271.2	202.4	138.0	83.9	62.4	54.3	46.4	40.2

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	34.0	31.6	26.8	24.0	20.8	18.5	15.7	13.8	12.4	10.8
45.0	33.6	29.1	25.7	22.0	19.8	17.0	15.7	13.4	12.2	10.4
90.0	33.6	29.1	25.7	22.0	19.8	17.0	15.7	13.4	12.2	10.4
135.0	43.3	36.8	33.3	28.7	25.9	22.6	19.7	17.4	15.5	13.4
180.0	43.3	36.8	33.3	28.7	25.9	22.6	19.7	17.4	15.5	13.4
225.0	38.9	33.6	30.2	25.7	22.9	19.8	18.0	15.2	13.6	11.5
270.0	38.9	33.6	30.2	25.7	22.9	19.8	18.0	15.2	13.6	11.5
315.0	34.0	31.6	26.8	24.0	20.8	18.5	15.7	13.8	12.4	10.8
360.0	34.0	31.6	26.8	24.0	20.8	18.5	15.7	13.8	12.4	10.8

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	10.0	7.7	7.7	6.3	6.2	5.2	4.8	3.9	3.4	3.2
45.0	9.7	8.2	7.7	6.5	5.9	5.0	4.2	3.6	3.6	2.9
90.0	9.7	8.2	7.7	6.5	5.9	5.0	4.2	3.6	3.6	2.9
135.0	11.8	10.7	9.1	8.6	7.3	6.6	5.6	4.9	4.5	4.1
180.0	11.8	10.7	9.1	8.6	7.3	6.6	5.6	4.9	4.5	4.1
225.0	10.4	8.7	8.3	7.0	6.5	5.3	4.8	3.9	3.6	2.9
270.0	10.4	8.7	8.3	7.0	6.5	5.3	4.8	3.9	3.6	2.9
315.0	10.0	7.7	7.7	6.3	6.2	5.2	4.8	3.9	3.4	3.2
360.0	10.0	7.7	7.7	6.3	6.2	5.2	4.8	3.9	3.4	3.2

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	2.9	2.5	1.8	1.7	1.5	1.5	0.6	0.6	0.6	0.7
45.0	2.8	2.2	2.1	1.8	1.5	1.4	1.1	0.9	0.7	0.4
90.0	2.8	2.2	2.1	1.8	1.5	1.4	1.1	0.9	0.7	0.4
135.0	3.6	2.9	3.2	2.5	2.4	1.8	1.5	1.4	0.8	0.7
180.0	3.6	2.9	3.2	2.5	2.4	1.8	1.5	1.4	0.8	0.7
225.0	2.9	2.2	2.1	1.7	1.7	1.1	0.9	0.7	0.6	0.3
270.0	2.9	2.2	2.1	1.7	1.7	1.1	0.9	0.7	0.6	0.3
315.0	2.9	2.5	1.8	1.7	1.5	1.5	0.6	0.6	0.6	0.7
360.0	2.9	2.5	1.8	1.7	1.5	1.5	0.6	0.6	0.6	0.7

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	0.6	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.4	0.3
45.0	0.4	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
90.0	0.4	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
135.0	0.8	0.6	0.6	0.6	0.6	0.3	0.3	0.2	0.1	0.1
180.0	0.8	0.6	0.6	0.6	0.6	0.3	0.3	0.2	0.1	0.1
225.0	0.3	0.3	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
270.0	0.3	0.3	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
315.0	0.6	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.4	0.3
360.0	0.6	0.3	0.1	0.1	0.1	0.3	0.3	0.3	0.4	0.3

C\G	90.0
0.0	0.0
45.0	0.3
90.0	0.3
135.0	0.4
180.0	0.4
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Zonal Flux Distribution

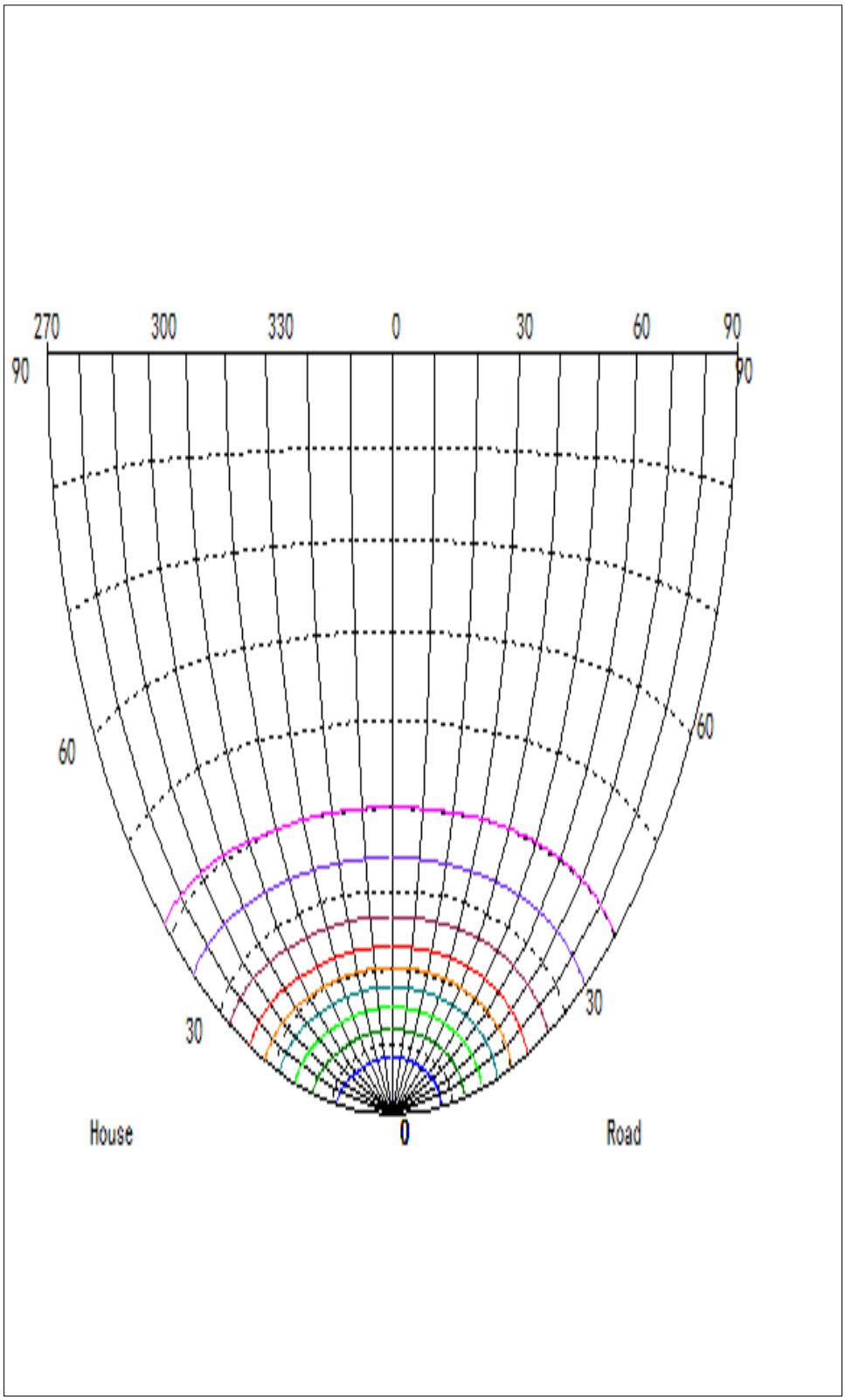
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	3978.02	0.00	0.00	0.00	0.00
1	3968.64	3.80	3.80	0.12	0.12
2	3952.90	11.37	15.17	0.34	0.46
3	3926.72	18.85	34.02	0.57	1.03
4	3893.17	26.18	60.19	0.79	1.83
5	3851.09	33.32	93.51	1.01	2.84
6	3799.25	40.20	133.71	1.22	4.05
7	3736.55	46.77	180.49	1.42	5.47
8	3663.15	52.96	233.45	1.61	7.08
9	3582.24	58.72	292.17	1.78	8.86
10	3494.57	64.04	356.21	1.94	10.80
11	3392.44	68.82	425.02	2.09	12.89
12	3281.10	72.95	497.98	2.21	15.10
13	3161.51	76.46	574.43	2.32	17.42
14	3032.42	79.28	653.71	2.40	19.82
15	2897.34	81.41	735.12	2.47	22.29
16	2757.89	82.86	817.99	2.51	24.80
17	2614.68	83.67	901.65	2.54	27.34
18	2461.51	83.70	985.35	2.54	29.88
19	2303.58	82.90	1068.25	2.51	32.39
20	2150.40	81.52	1149.77	2.47	34.86
21	1996.01	79.62	1229.39	2.41	37.28
22	1845.36	77.19	1306.58	2.34	39.62
23	1700.47	74.40	1380.98	2.26	41.87
24	1565.99	71.42	1452.40	2.17	44.04
25	1443.61	68.43	1520.83	2.07	46.11
26	1334.95	65.59	1586.42	1.99	48.10
27	1240.58	63.01	1649.43	1.91	50.01
28	1158.72	60.75	1710.18	1.84	51.85
29	1088.90	58.80	1768.98	1.78	53.64
30	1030.72	57.23	1826.21	1.74	55.37
31	980.86	55.98	1882.19	1.70	57.07
32	934.84	54.88	1937.07	1.66	58.73
33	886.33	53.65	1990.72	1.63	60.36
34	833.23	52.04	2042.76	1.58	61.94
35	775.75	49.97	2092.73	1.52	63.45
36	715.71	47.49	2140.22	1.44	64.89
37	651.35	44.59	2184.81	1.35	66.25
38	585.75	41.29	2226.10	1.25	67.50
39	520.22	37.75	2263.85	1.14	68.64
40	453.02	33.94	2297.79	1.03	69.67

Zonal Flux Distribution

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	386.79	29.91	2327.70	0.91	70.58
42	320.91	25.71	2353.41	0.78	71.36
43	251.80	21.21	2374.62	0.64	72.00
44	182.07	16.38	2391.00	0.50	72.50
45	117.03	11.49	2402.49	0.35	72.85
46	77.01	7.59	2410.08	0.23	73.08
47	59.31	5.42	2415.50	0.16	73.24
48	50.98	4.46	2419.96	0.14	73.38
49	43.36	3.87	2423.84	0.12	73.49
50	37.45	3.37	2427.20	0.10	73.60
51	32.77	2.97	2430.18	0.09	73.69
52	29.02	2.65	2432.83	0.08	73.77
53	25.11	2.35	2435.18	0.07	73.84
54	22.35	2.09	2437.27	0.06	73.90
55	19.49	1.87	2439.14	0.06	73.96
56	17.28	1.66	2440.80	0.05	74.01
57	14.93	1.47	2442.28	0.04	74.05
58	13.42	1.31	2443.59	0.04	74.09
59	11.53	1.17	2444.75	0.04	74.13
60	10.47	1.04	2445.79	0.03	74.16
61	8.82	0.92	2446.71	0.03	74.19
62	8.21	0.82	2447.53	0.02	74.21
63	7.10	0.74	2448.28	0.02	74.24
64	6.47	0.67	2448.94	0.02	74.26
65	5.55	0.60	2449.54	0.02	74.27
66	4.84	0.52	2450.06	0.02	74.29
67	4.11	0.45	2450.51	0.01	74.30
68	3.79	0.40	2450.91	0.01	74.31
69	3.28	0.36	2451.27	0.01	74.33
70	3.08	0.33	2451.60	0.01	74.34
71	2.49	0.29	2451.88	0.01	74.34
72	2.32	0.25	2452.13	0.01	74.35
73	1.93	0.22	2452.36	0.01	74.36
74	1.79	0.20	2452.55	0.01	74.36
75	1.48	0.17	2452.72	0.01	74.37
76	1.04	0.13	2452.86	0.00	74.37
77	0.90	0.10	2452.96	0.00	74.38
78	0.67	0.08	2453.05	0.00	74.38
79	0.53	0.06	2453.11	0.00	74.38
80	0.53	0.06	2453.17	0.00	74.38
81	0.34	0.05	2453.21	0.00	74.38

Zonal Flux Distribution

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
82	0.28	0.03	2453.25	0.00	74.39
83	0.21	0.03	2453.27	0.00	74.39
84	0.21	0.02	2453.30	0.00	74.39
85	0.18	0.02	2453.32	0.00	74.39
86	0.18	0.02	2453.34	0.00	74.39
87	0.16	0.02	2453.35	0.00	74.39
88	0.15	0.02	2453.37	0.00	74.39
89	0.13	0.02	2453.39	0.00	74.39
90	0.18	0.02	2453.40	0.00	74.39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300
330
0
30
60
90
90
90
60
60
30
30
House
0
Road
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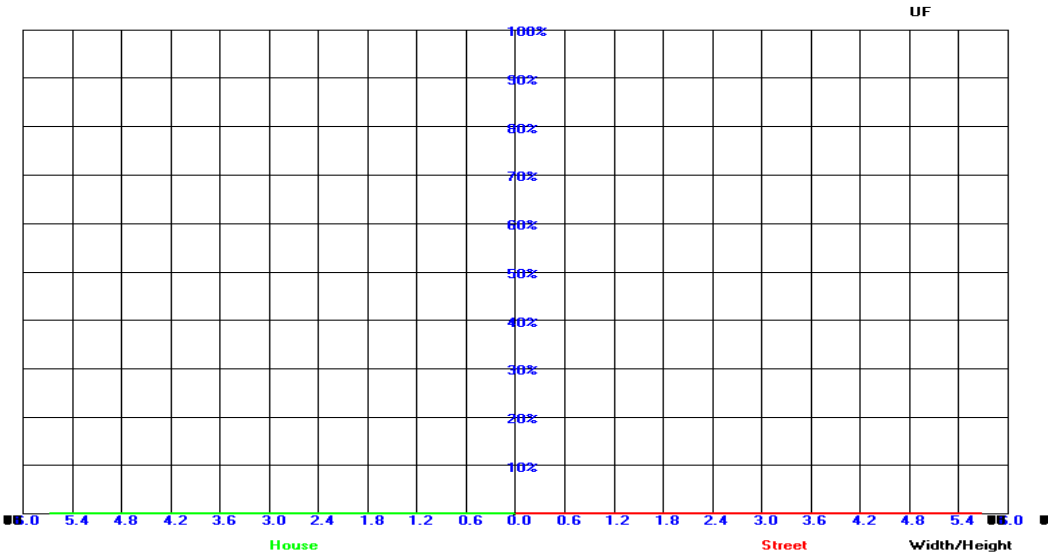
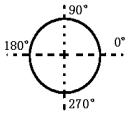
799.6168 cd
1199.425 cd
1599.234 cd
1999.042 cd
2398.85 cd
2798.659 cd
3198.467 cd
3598.276 cd
3998.084 cd

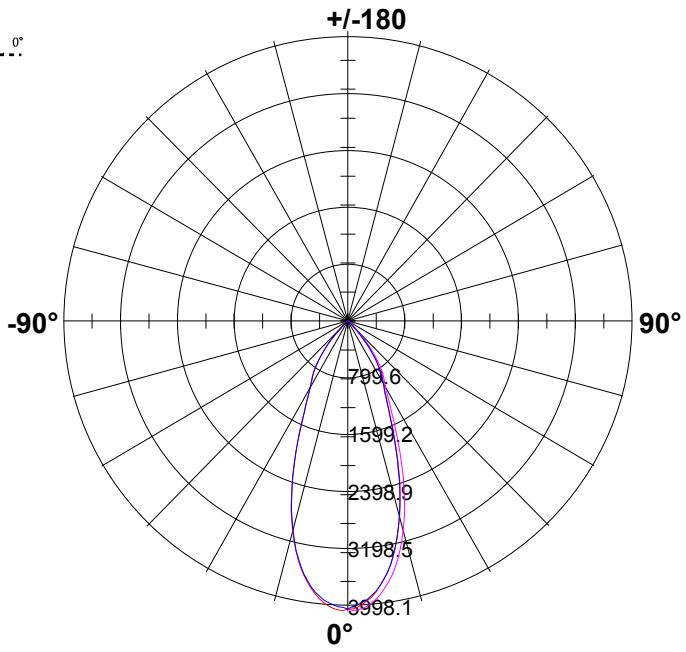
Coefficient Utilization Curve

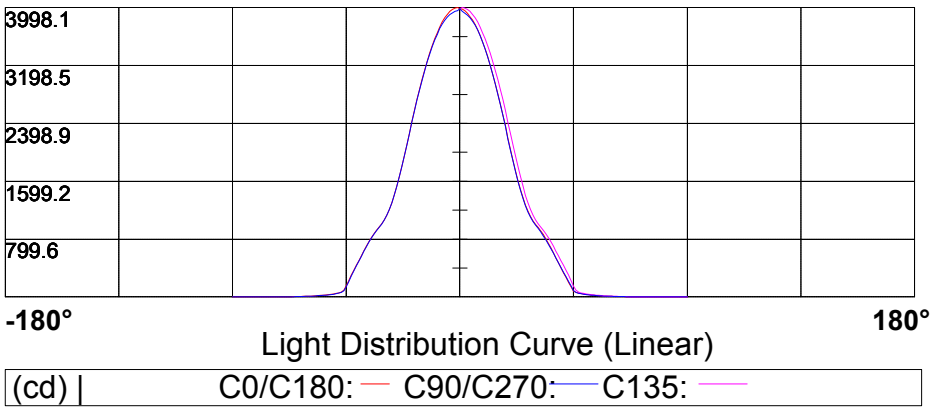


Light Distribution Curve [Unit: cd]

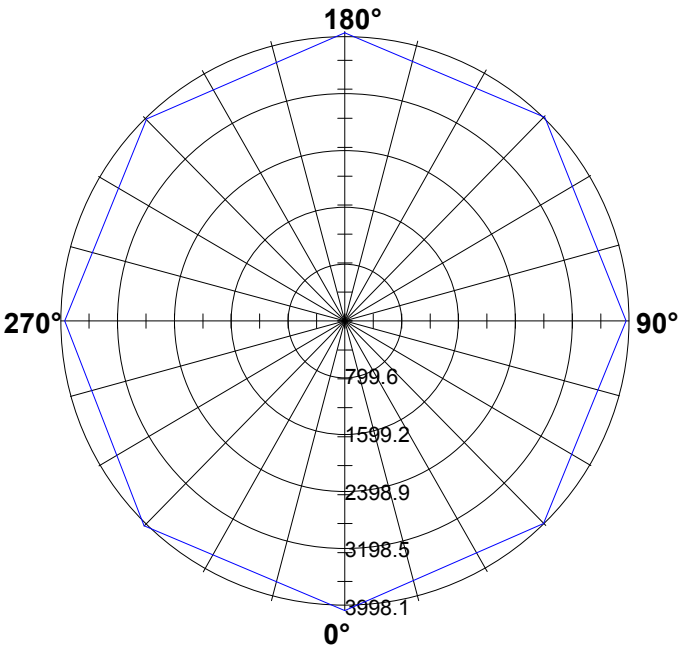
Luminaire

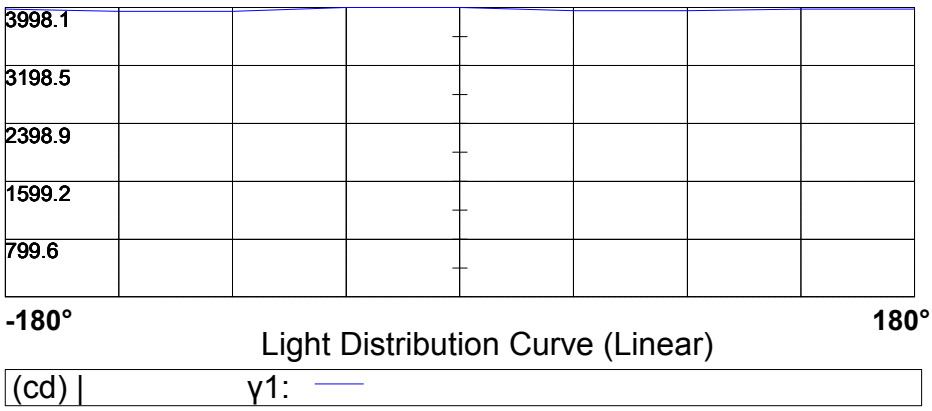




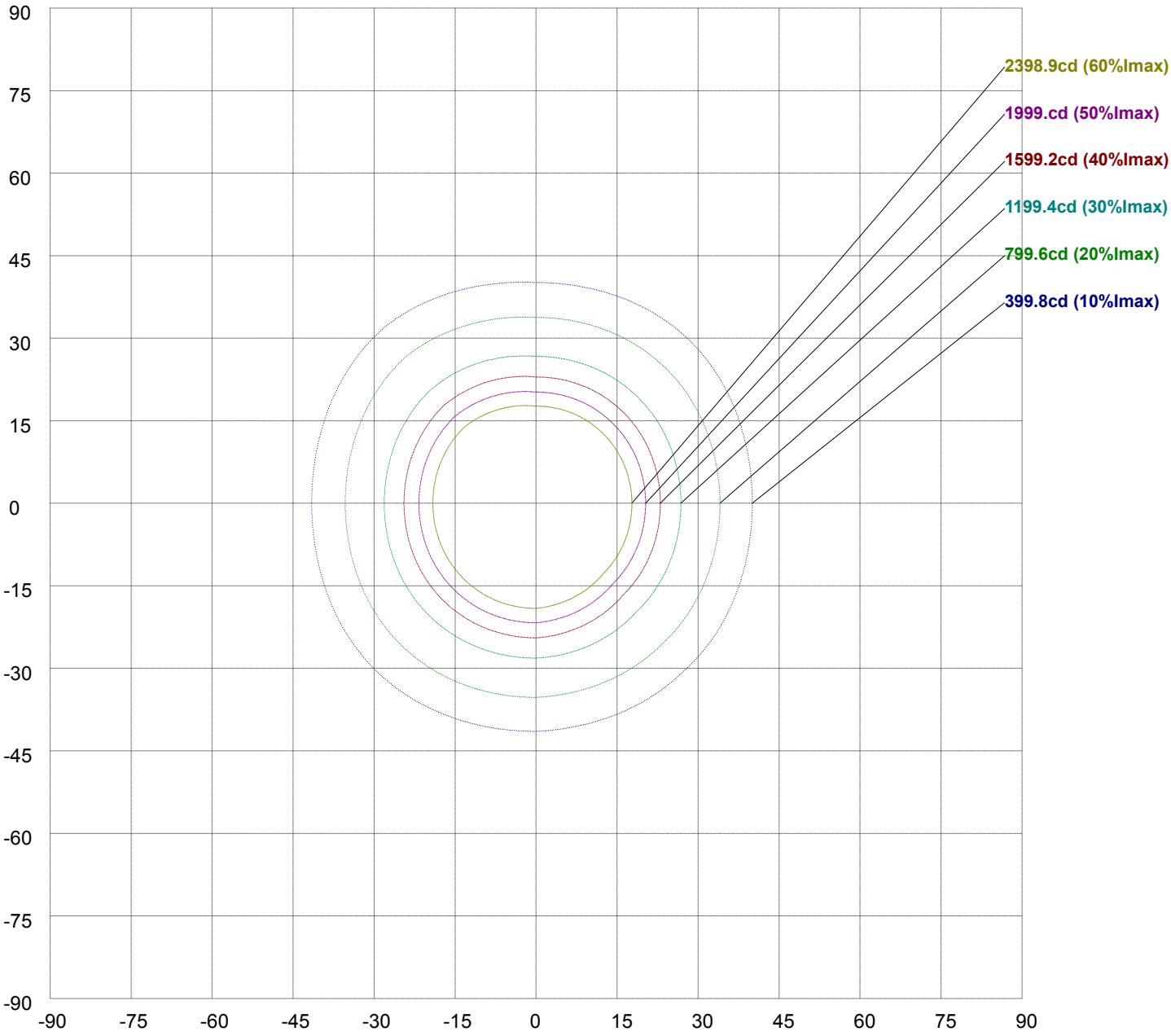


Max Plane Light Distribution Curve [Unit: cd]



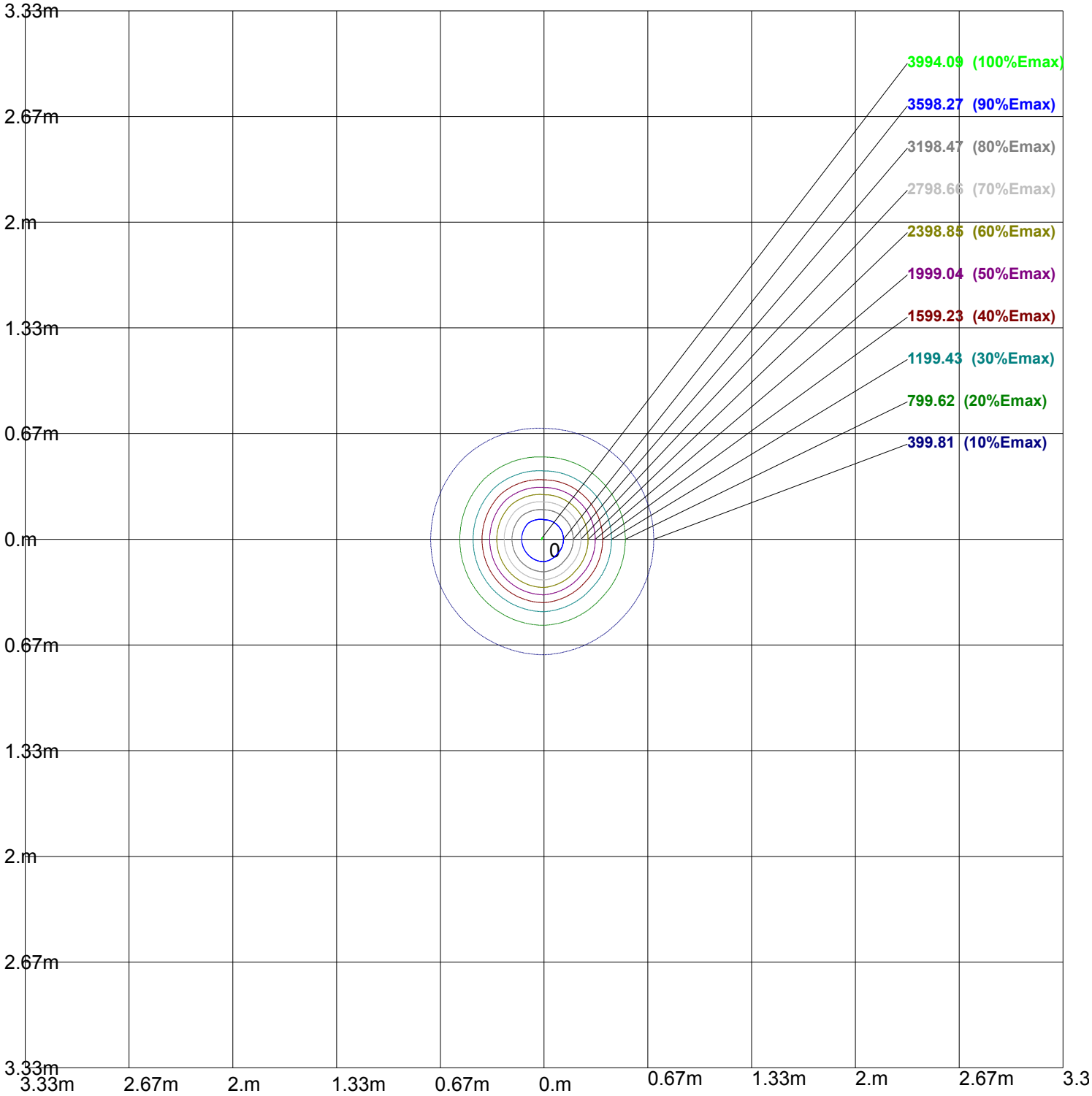


V-H [cd]



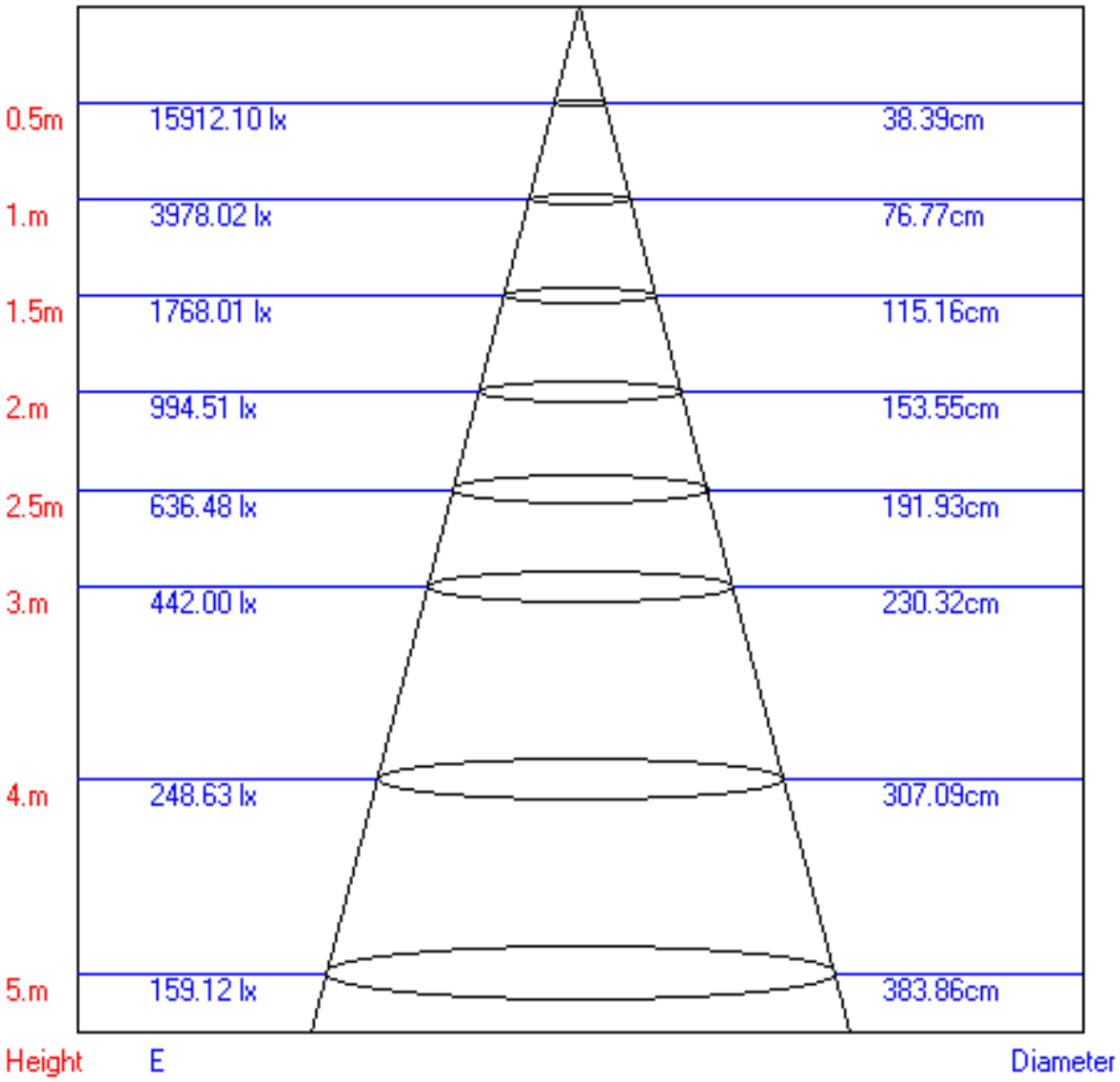
测试设备:LINKCOLOR LCG-GONIO　　测试日期:2020-06-09　　测试人员:Jeffrey
环境温度:25℃　　环境湿度:60%

Iso-Lux[lx]



Height: 1 m
Max Illuminance : 3998.08lx

Lux-Distance Curve



Beam Angle:42.00°

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	0.89	0.89	0.89	0.87	0.87	0.87	0.83	0.83	0.83	0.79	0.79	0.79	0.76	0.76	0.76	0.74
1	0.85	0.85	0.84	0.84	0.83	0.83	0.81	0.80	0.79	0.77	0.76	0.75	0.71	0.70	0.69	0.66
2	0.80	0.79	0.79	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.71	0.70	0.68	0.66	0.65	0.61
3	0.75	0.74	0.74	0.74	0.73	0.72	0.72	0.70	0.69	0.69	0.67	0.65	0.65	0.63	0.61	0.58
4	0.71	0.70	0.69	0.70	0.68	0.67	0.68	0.66	0.64	0.65	0.63	0.61	0.62	0.59	0.57	0.54
5	0.67	0.65	0.65	0.66	0.64	0.63	0.64	0.62	0.60	0.62	0.59	0.57	0.59	0.56	0.54	0.51
6	0.63	0.62	0.61	0.62	0.60	0.59	0.60	0.58	0.57	0.58	0.56	0.54	0.56	0.53	0.51	0.48
7	0.59	0.58	0.57	0.59	0.57	0.56	0.57	0.55	0.53	0.55	0.53	0.51	0.53	0.50	0.48	0.45
8	0.56	0.55	0.54	0.55	0.54	0.53	0.54	0.52	0.50	0.53	0.50	0.48	0.51	0.48	0.45	0.43
9	0.53	0.52	0.51	0.53	0.51	0.50	0.52	0.49	0.48	0.50	0.47	0.45	0.49	0.45	0.43	0.40
10	0.50	0.49	0.49	0.50	0.49	0.48	0.49	0.47	0.45	0.48	0.45	0.43	0.46	0.43	0.41	0.38

Budgetary Estimate Chart			
Light Flux	3298lm		
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