Luminaire Property

Luminaire: 140-089
Report NO.:
Test NO.:
Lamp: CREE CXA1816 37V 3000K
Sum Lumens: 2199.6 lm
Number of Lamps: 1
Diameter: 200mm
Length: mm
Photometric Type: Type C

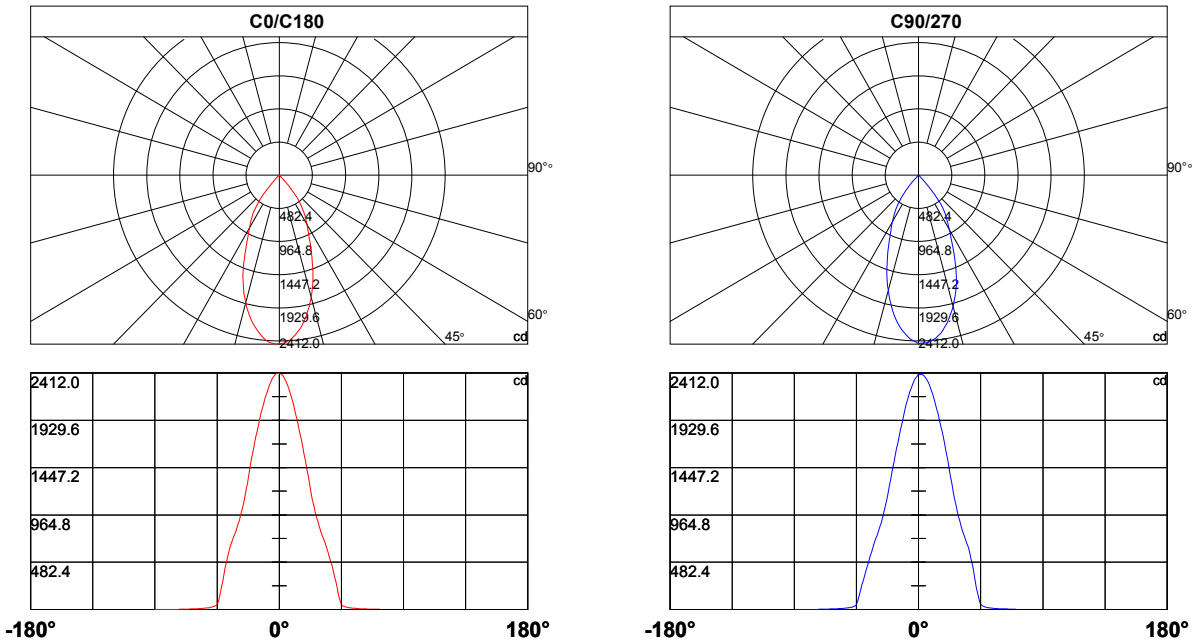
Voltage: 220.9 V
Current: 0.099 A
Power: 21.3 W
Power Factor: 0.976
Ballast Type: HEP G5R20W500LRP
Width: 200mm
Height: mm
Remark: SL-050K-L

Photometric Results

Lumens: 1702.38 lm
Efficiency: 77.3809 lm/W
Central Intensity: 2403.527cd
Maximum Intensity: 2411.986cd

Beam Angle(10%): Left: -42.6 Right:40.6

Angle of maximum intensity: C:135.0 G:1.0
Half Peak Side Angle(50%): Left: -23.8 Right:23.2
Light Out Rate(LOR) : 77.395%
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	2403.5	2404.7	2394.8	2376.4	2352.6	2323.1	2286.9	2248.4	2207.1	2161.2
45.0	2403.5	2397.4	2399.8	2392.5	2382.5	2364.8	2344.7	2314.3	2282.3	2242.5
90.0	2403.5	2397.4	2399.8	2392.5	2382.5	2364.8	2344.7	2314.3	2282.3	2242.5
135.0	2403.5	2412.0	2406.9	2396.0	2379.7	2356.2	2326.1	2287.9	2249.3	2207.8
180.0	2403.5	2412.0	2406.9	2396.0	2379.7	2356.2	2326.1	2287.9	2249.3	2207.8
225.0	2403.5	2380.5	2362.1	2341.6	2309.1	2272.6	2232.0	2189.8	2140.8	2089.9
270.0	2403.5	2380.5	2362.1	2341.6	2309.1	2272.6	2232.0	2189.8	2140.8	2089.9
315.0	2403.5	2404.7	2394.8	2376.4	2352.6	2323.1	2286.9	2248.4	2207.1	2161.2
360.0	2403.5	2404.7	2394.8	2376.4	2352.6	2323.1	2286.9	2248.4	2207.1	2161.2

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	2109.8	2051.8	1991.9	1929.5	1863.2	1798.3	1730.8	1662.5	1587.5	1510.6
45.0	2199.2	2155.7	2106.1	2052.4	1997.6	1938.1	1876.1	1816.3	1751.9	1683.6
90.0	2199.2	2155.7	2106.1	2052.4	1997.6	1938.1	1876.1	1816.3	1751.9	1683.6
135.0	2164.1	2114.4	2063.3	2005.8	1946.3	1882.9	1822.3	1757.5	1687.1	1615.3
180.0	2164.1	2114.4	2063.3	2005.8	1946.3	1882.9	1822.3	1757.5	1687.1	1615.3
225.0	2032.4	1969.3	1904.2	1837.2	1773.6	1705.1	1637.9	1566.4	1495.3	1419.8
270.0	2032.4	1969.3	1904.2	1837.2	1773.6	1705.1	1637.9	1566.4	1495.3	1419.8
315.0	2109.8	2051.8	1991.9	1929.5	1863.2	1798.3	1730.8	1662.5	1587.5	1510.6
360.0	2109.8	2051.8	1991.9	1929.5	1863.2	1798.3	1730.8	1662.5	1587.5	1510.6

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1429.5	1351.0	1268.8	1192.3	1121.1	1056.8	997.4	942.7	890.4	845.0
45.0	1609.4	1532.1	1451.0	1369.5	1289.6	1208.6	1135.4	1066.0	1003.7	944.5
90.0	1609.4	1532.1	1451.0	1369.5	1289.6	1208.6	1135.4	1066.0	1003.7	944.5
135.0	1541.4	1462.6	1381.7	1297.1	1219.3	1143.5	1076.5	1015.4	959.9	907.6
180.0	1541.4	1462.6	1381.7	1297.1	1219.3	1143.5	1076.5	1015.4	959.9	907.6
225.0	1340.8	1264.1	1189.3	1118.9	1052.9	993.7	939.9	889.2	842.2	800.3
270.0	1340.8	1264.1	1189.3	1118.9	1052.9	993.7	939.9	889.2	842.2	800.3
315.0	1429.5	1351.0	1268.8	1192.3	1121.1	1056.8	997.4	942.7	890.4	845.0
360.0	1429.5	1351.0	1268.8	1192.3	1121.1	1056.8	997.4	942.7	890.4	845.0

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	800.8	761.1	724.5	687.3	645.4	597.7	549.2	502.8	453.1	401.5
45.0	890.3	838.0	793.8	750.0	710.5	671.3	631.7	576.6	517.0	449.4
90.0	890.3	838.0	793.8	750.0	710.5	671.3	631.7	576.6	517.0	449.4
135.0	861.2	816.8	776.6	740.2	701.7	658.8	611.6	558.6	499.5	435.2
180.0	861.2	816.8	776.6	740.2	701.7	658.8	611.6	558.6	499.5	435.2
225.0	759.4	721.2	681.9	638.3	591.0	545.0	497.9	450.5	400.2	351.2
270.0	759.4	721.2	681.9	638.3	591.0	545.0	497.9	450.5	400.2	351.2
315.0	800.8	761.1	724.5	687.3	645.4	597.7	549.2	502.8	453.1	401.5
360.0	800.8	761.1	724.5	687.3	645.4	597.7	549.2	502.8	453.1	401.5

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	344.3	280.7	214.3	143.2	86.0	50.0	36.9	30.4	25.6	21.5
45.0	376.1	292.5	216.0	149.4	91.5	51.7	38.1	31.2	25.9	21.8
90.0	376.1	292.5	216.0	149.4	91.5	51.7	38.1	31.2	25.9	21.8
135.0	360.2	281.8	208.8	141.0	84.3	52.4	40.1	32.9	28.3	23.5
180.0	360.2	281.8	208.8	141.0	84.3	52.4	40.1	32.9	28.3	23.5
225.0	299.8	251.1	195.3	144.9	85.7	50.3	35.3	30.6	24.5	21.2
270.0	299.8	251.1	195.3	144.9	85.7	50.3	35.3	30.6	24.5	21.2
315.0	344.3	280.7	214.3	143.2	86.0	50.0	36.9	30.4	25.6	21.5
360.0	344.3	280.7	214.3	143.2	86.0	50.0	36.9	30.4	25.6	21.5

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	19.0	16.4	14.9	13.2	12.0	11.3	10.0	9.0	8.2	7.5
45.0	19.5	16.3	14.9	12.9	12.0	10.3	9.7	8.4	7.9	6.7
90.0	19.5	16.3	14.9	12.9	12.0	10.3	9.7	8.4	7.9	6.7
135.0	21.1	17.4	16.2	14.2	12.8	11.8	10.3	9.6	8.4	8.2
180.0	21.1	17.4	16.2	14.2	12.8	11.8	10.3	9.6	8.4	8.2
225.0	18.7	16.4	15.0	13.4	12.5	10.8	10.3	8.7	8.4	7.3
270.0	18.7	16.4	15.0	13.4	12.5	10.8	10.3	8.7	8.4	7.3
315.0	19.0	16.4	14.9	13.2	12.0	11.3	10.0	9.0	8.2	7.5
360.0	19.0	16.4	14.9	13.2	12.0	11.3	10.0	9.0	8.2	7.5

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	6.6	6.2	5.3	5.0	4.2	4.2	3.6	3.2	3.1	2.5
45.0	6.5	5.6	5.3	4.3	4.3	3.5	3.1	2.8	2.8	2.0
90.0	6.5	5.6	5.3	4.3	4.3	3.5	3.1	2.8	2.8	2.0
135.0	7.0	6.9	5.7	5.2	4.5	4.1	3.8	3.4	3.2	2.7
180.0	7.0	6.9	5.7	5.2	4.5	4.1	3.8	3.4	3.2	2.7
225.0	6.9	6.2	5.5	5.2	4.3	4.2	3.8	3.8	2.9	2.7
270.0	6.9	6.2	5.5	5.2	4.3	4.2	3.8	3.8	2.9	2.7
315.0	6.6	6.2	5.3	5.0	4.2	4.2	3.6	3.2	3.1	2.5
360.0	6.6	6.2	5.3	5.0	4.2	4.2	3.6	3.2	3.1	2.5

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	2.5	2.1	2.1	1.5	1.1	0.8	0.7	0.6	0.6	0.6
45.0	2.0	1.4	1.4	1.0	0.7	0.6	0.6	0.6	0.6	0.5
90.0	2.0	1.4	1.4	1.0	0.7	0.6	0.6	0.6	0.6	0.5
135.0	2.5	2.1	1.8	1.3	1.1	0.8	0.8	0.6	0.6	0.6
180.0	2.5	2.1	1.8	1.3	1.1	0.8	0.8	0.6	0.6	0.6
225.0	2.4	2.0	2.0	1.3	1.0	0.8	0.8	0.7	0.6	0.6
270.0	2.4	2.0	2.0	1.3	1.0	0.8	0.8	0.7	0.6	0.6
315.0	2.5	2.1	2.1	1.5	1.1	0.8	0.7	0.6	0.6	0.6
360.0	2.5	2.1	2.1	1.5	1.1	0.8	0.7	0.6	0.6	0.6

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	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0
45.0	0.4	0.4	0.3	0.4	0.2	0.0	0.0	0.1	0.1	0.1
90.0	0.4	0.4	0.3	0.4	0.2	0.0	0.0	0.1	0.1	0.1
135.0	0.6	0.6	0.4	0.3	0.3	0.2	0.2	0.3	0.1	0.1
180.0	0.6	0.6	0.4	0.3	0.3	0.2	0.2	0.3	0.1	0.1
225.0	0.5	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.0
270.0	0.5	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.0
315.0	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0
360.0	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0

C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.1
180.0	0.1
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Zonal Flux Distribution

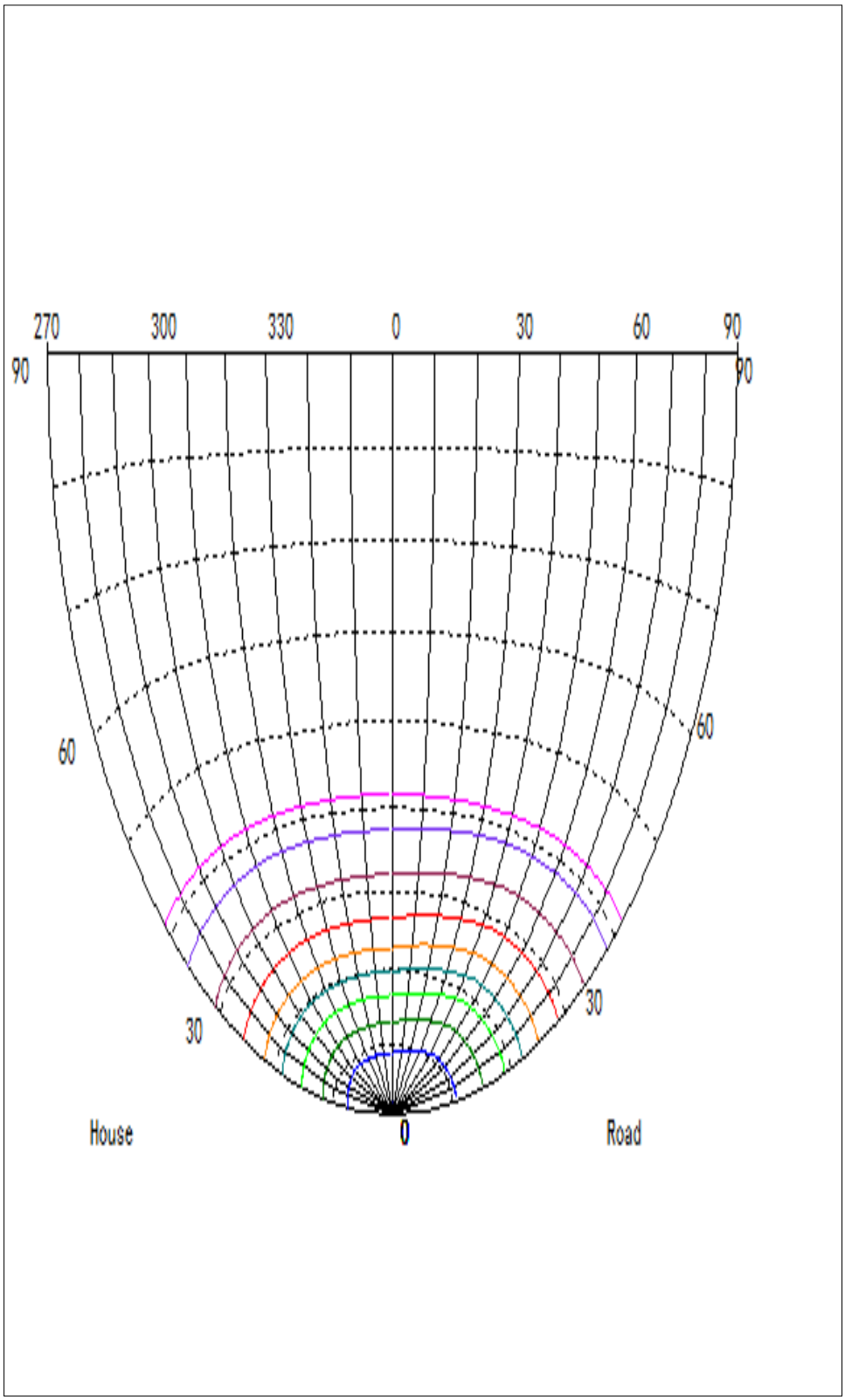
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	2403.53	0.00	0.00	0.00	0.00
1	2398.65	2.30	2.30	0.10	0.10
2	2390.91	6.87	9.17	0.31	0.42
3	2376.62	11.40	20.57	0.52	0.94
4	2355.96	15.84	36.42	0.72	1.66
5	2329.16	20.16	56.57	0.92	2.57
6	2297.44	24.31	80.89	1.11	3.68
7	2260.12	28.29	109.17	1.29	4.96
8	2219.86	32.06	141.24	1.46	6.42
9	2175.34	35.62	176.86	1.62	8.04
10	2126.40	38.93	215.79	1.77	9.81
11	2072.79	41.96	257.74	1.91	11.72
12	2016.40	44.70	302.45	2.03	13.75
13	1956.25	47.15	349.59	2.14	15.89
14	1895.15	49.30	398.89	2.24	18.13
15	1831.10	51.16	450.04	2.33	20.46
16	1766.81	52.72	502.76	2.40	22.86
17	1700.68	54.00	556.76	2.45	25.31
18	1630.45	54.92	611.68	2.50	27.81
19	1557.33	55.46	667.15	2.52	30.33
20	1480.29	55.60	722.74	2.53	32.86
21	1402.44	55.35	778.10	2.52	35.37
22	1322.71	54.76	832.86	2.49	37.86
23	1244.48	53.87	886.73	2.45	40.31
24	1170.70	52.80	939.53	2.40	42.71
25	1100.67	51.65	991.18	2.35	45.06
26	1037.29	50.47	1041.64	2.29	47.36
27	978.31	49.31	1090.96	2.24	49.60
28	924.05	48.16	1139.12	2.19	51.79
29	874.36	47.05	1186.17	2.14	53.93
30	827.93	45.96	1232.13	2.09	56.02
31	784.30	44.87	1277.00	2.04	58.06
32	744.17	43.79	1320.79	1.99	60.05
33	703.97	42.66	1363.45	1.94	61.99
34	662.13	41.34	1404.79	1.88	63.87
35	618.21	39.76	1444.55	1.81	65.67
36	572.61	37.92	1482.47	1.72	67.40
37	522.16	35.71	1518.18	1.62	69.02
38	467.45	33.03	1551.21	1.50	70.52
39	409.34	29.93	1581.14	1.36	71.88
40	345.08	26.31	1607.45	1.20	73.08

Zonal Flux Distribution

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	276.50	22.13	1629.58	1.01	74.09
42	208.63	17.63	1647.21	0.80	74.89
43	144.62	13.09	1660.29	0.59	75.48
44	86.88	8.74	1669.03	0.40	75.88
45	51.12	5.30	1674.33	0.24	76.12
46	37.59	3.47	1677.80	0.16	76.28
47	31.27	2.74	1680.54	0.12	76.40
48	26.04	2.32	1682.86	0.11	76.51
49	21.99	1.97	1684.83	0.09	76.60
50	19.57	1.73	1686.56	0.08	76.68
51	16.65	1.53	1688.10	0.07	76.75
52	15.25	1.37	1689.47	0.06	76.81
53	13.42	1.25	1690.71	0.06	76.86
54	12.30	1.13	1691.85	0.05	76.92
55	11.03	1.04	1692.89	0.05	76.96
56	10.05	0.95	1693.84	0.04	77.01
57	8.92	0.87	1694.71	0.04	77.05
58	8.22	0.79	1695.50	0.04	77.08
59	7.42	0.73	1696.23	0.03	77.12
60	6.75	0.67	1696.90	0.03	77.15
61	6.21	0.62	1697.52	0.03	77.17
62	5.48	0.56	1698.08	0.03	77.20
63	4.95	0.51	1698.59	0.02	77.22
64	4.35	0.46	1699.05	0.02	77.24
65	4.00	0.41	1699.46	0.02	77.26
66	3.59	0.38	1699.84	0.02	77.28
67	3.31	0.35	1700.18	0.02	77.30
68	3.02	0.32	1700.51	0.01	77.31
69	2.46	0.28	1700.79	0.01	77.32
70	2.36	0.25	1701.03	0.01	77.33
71	1.90	0.22	1701.25	0.01	77.34
72	1.83	0.19	1701.45	0.01	77.35
73	1.26	0.16	1701.61	0.01	77.36
74	0.99	0.12	1701.73	0.01	77.37
75	0.79	0.09	1701.82	0.00	77.37
76	0.72	0.08	1701.90	0.00	77.37
77	0.60	0.07	1701.97	0.00	77.38
78	0.58	0.06	1702.03	0.00	77.38
79	0.55	0.06	1702.10	0.00	77.38
80	0.52	0.06	1702.15	0.00	77.38
81	0.45	0.05	1702.20	0.00	77.39

Zonal Flux Distribution

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
82	0.35	0.04	1702.25	0.00	77.39
83	0.24	0.03	1702.28	0.00	77.39
84	0.18	0.02	1702.30	0.00	77.39
85	0.12	0.02	1702.32	0.00	77.39
86	0.13	0.01	1702.33	0.00	77.39
87	0.15	0.02	1702.35	0.00	77.39
88	0.10	0.01	1702.36	0.00	77.39
89	0.07	0.01	1702.37	0.00	77.39
90	0.03	0.01	1702.38	0.00	77.39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300
330
0
30
60
90
90
90
60
60
30
30
House
0
Road
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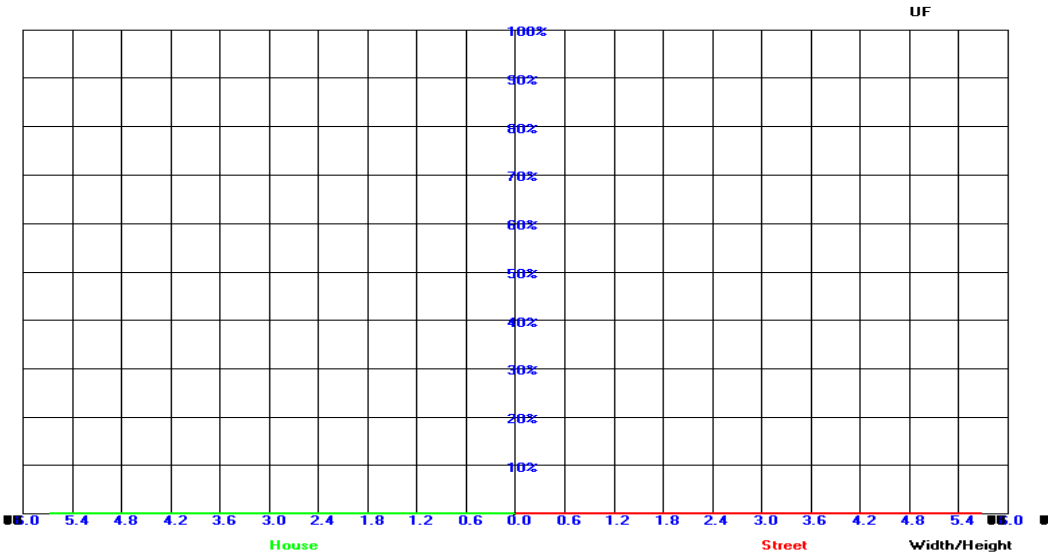
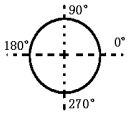
482.3972 cd
723.5958 cd
964.7944 cd
1205.993 cd
1447.192 cd
1688.39 cd
1929.589 cd
2170.788 cd
2411.986 cd

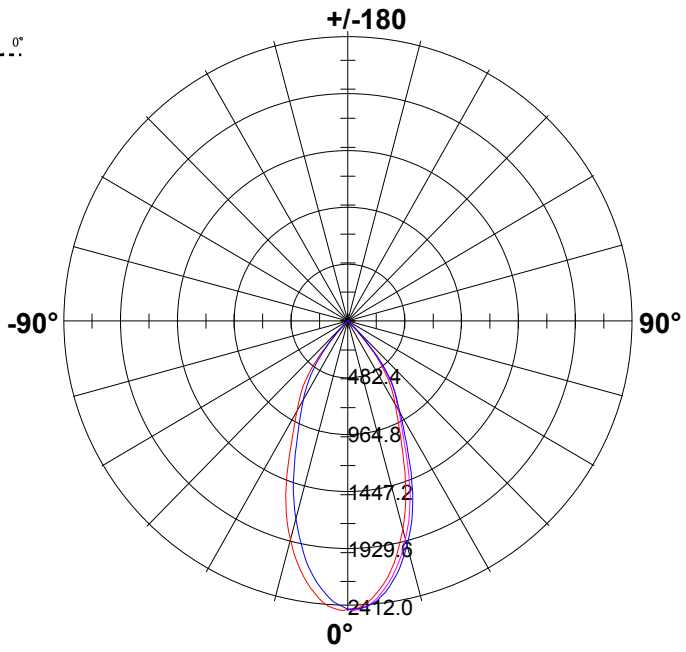
Coefficient Utilization Curve

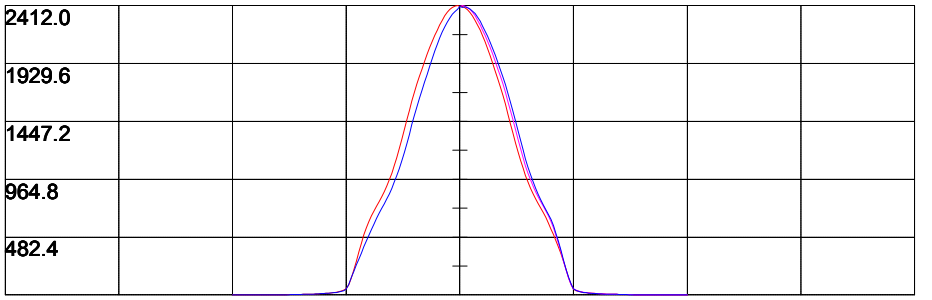


Light Distribution Curve [Unit: cd]

Luminaire



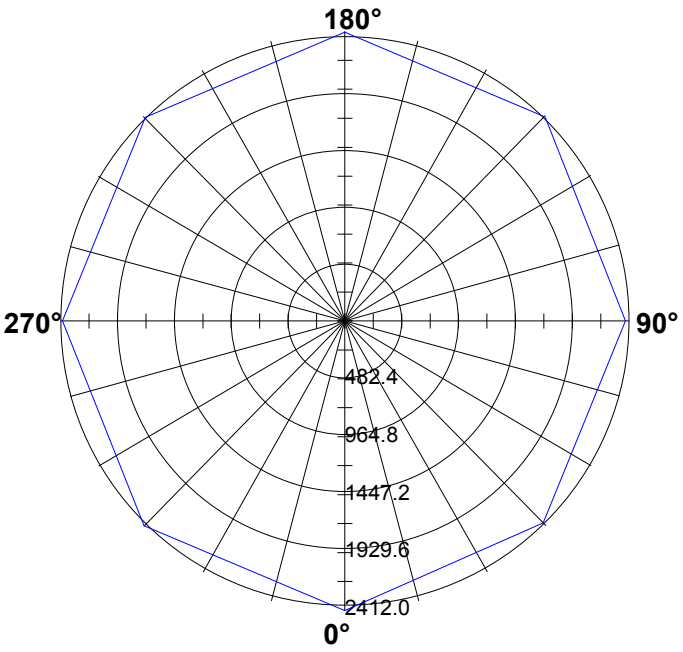


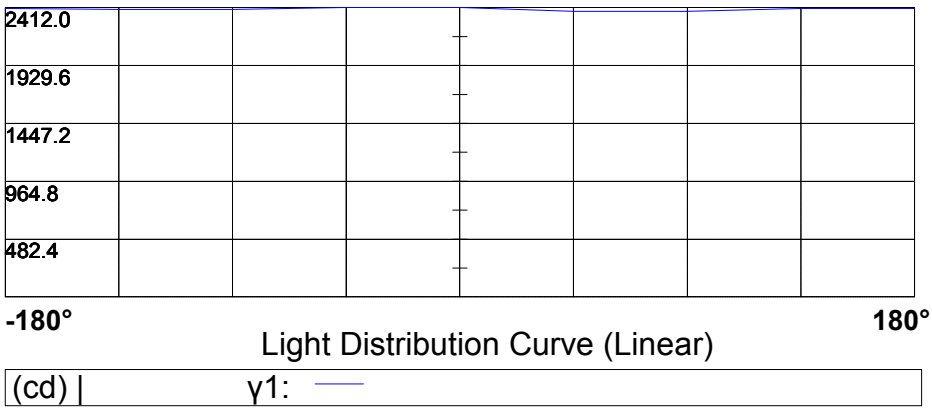


Light Distribution Curve (Linear)

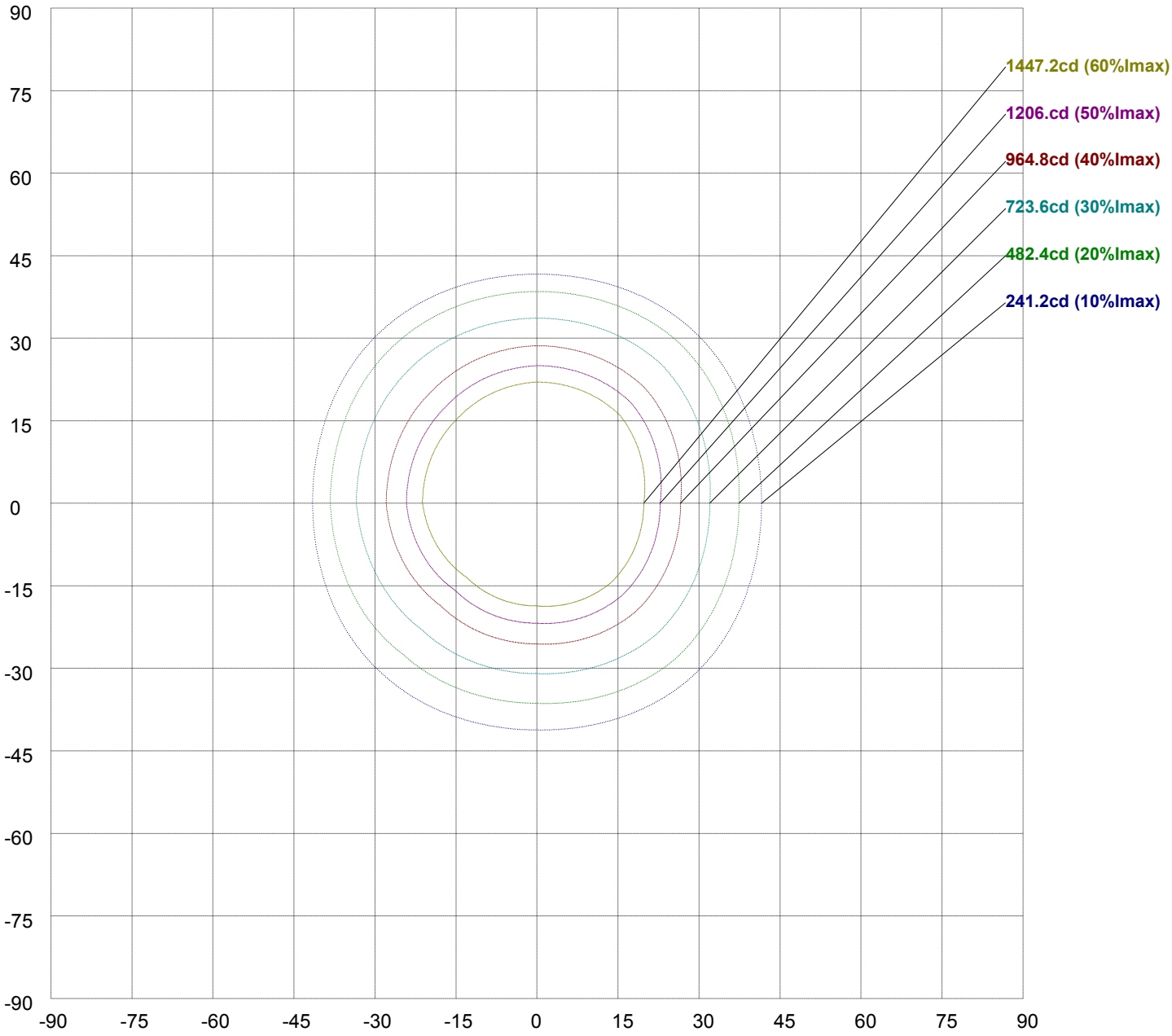
(cd) | C0/C180: C90/C270: C135:

Max Plane Light Distribution Curve [Unit: cd]



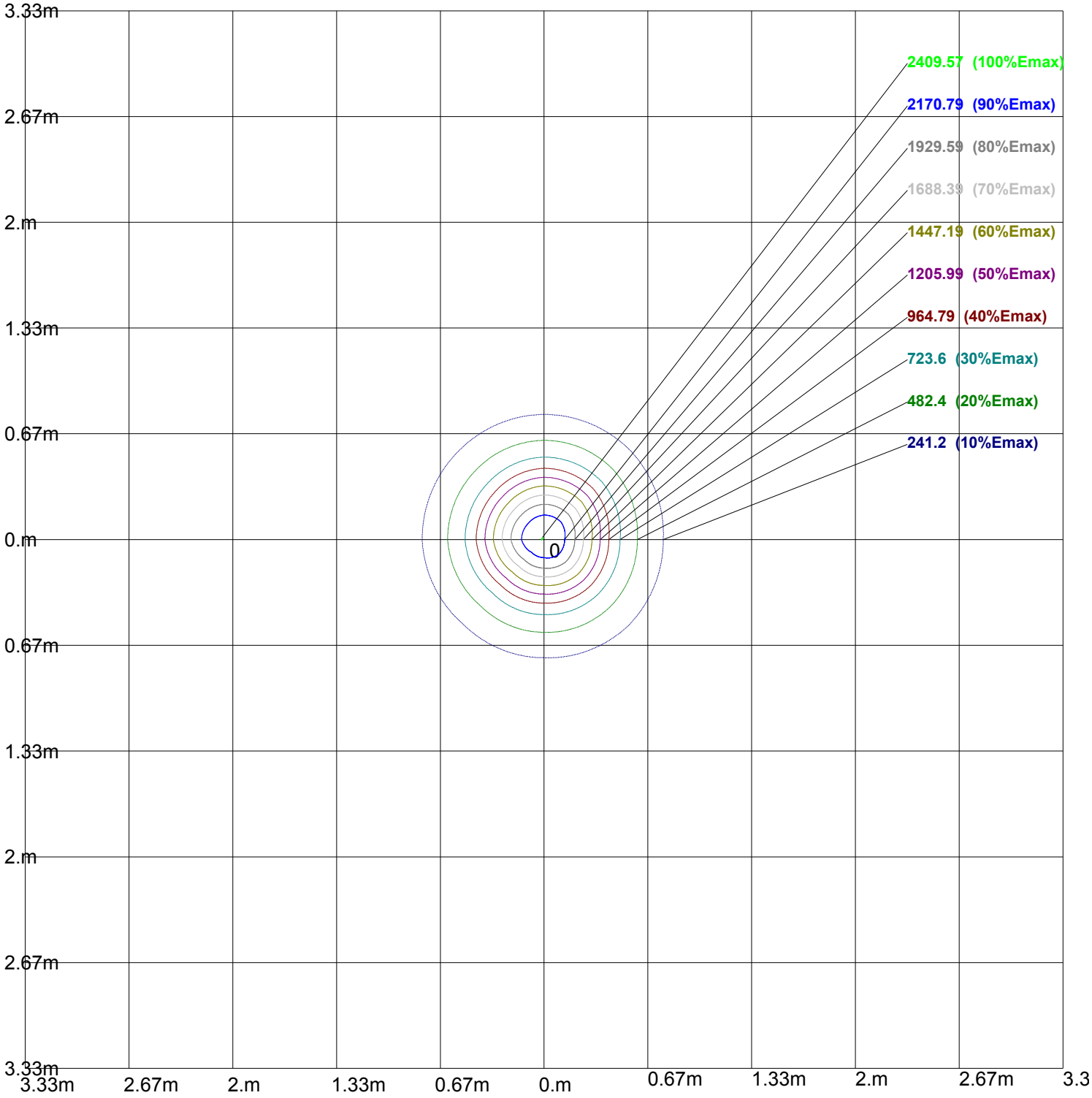


等光强曲线 V-H [cd]



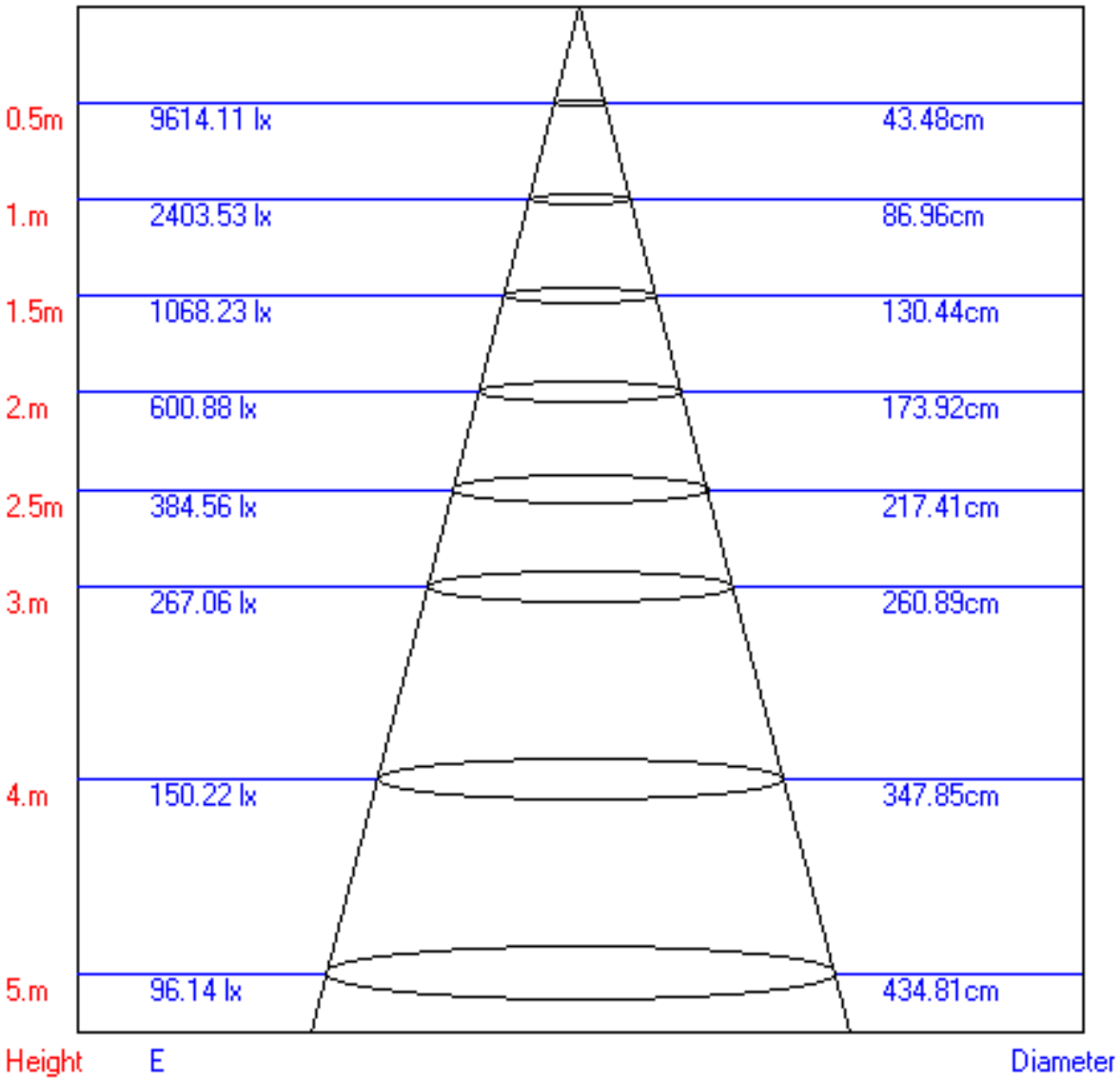
测试设备:LINKCOLOR LCG-GONIO　　测试日期:2020-06-11　　测试人员:Jeffrey
环境温度:25℃　　环境湿度:60%　　报告编号:

Iso-Lux[lx]



Height: 1 m
Max Illuminance : 2411.99lx

Lux-Distance Curve



Beam Angle:47.00°

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	0.92	0.92	0.92	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.79	0.79	0.79	0.77
1	0.89	0.88	0.87	0.87	0.86	0.86	0.84	0.83	0.82	0.79	0.79	0.78	0.74	0.73	0.72	0.68
2	0.83	0.82	0.81	0.82	0.81	0.80	0.79	0.77	0.76	0.75	0.74	0.72	0.70	0.69	0.67	0.64
3	0.78	0.77	0.76	0.77	0.75	0.74	0.74	0.72	0.71	0.71	0.69	0.67	0.67	0.65	0.63	0.59
4	0.73	0.72	0.71	0.72	0.70	0.69	0.70	0.68	0.66	0.67	0.65	0.63	0.64	0.61	0.59	0.56
5	0.68	0.67	0.66	0.67	0.66	0.65	0.66	0.63	0.62	0.63	0.61	0.59	0.61	0.58	0.55	0.52
6	0.64	0.63	0.62	0.63	0.62	0.61	0.62	0.60	0.58	0.60	0.57	0.55	0.58	0.54	0.52	0.49
7	0.60	0.59	0.58	0.60	0.58	0.57	0.58	0.56	0.54	0.57	0.54	0.52	0.55	0.51	0.49	0.46
8	0.57	0.56	0.55	0.56	0.55	0.54	0.55	0.53	0.51	0.54	0.51	0.48	0.52	0.48	0.46	0.43
9	0.54	0.53	0.52	0.53	0.52	0.51	0.52	0.50	0.48	0.51	0.48	0.46	0.49	0.46	0.43	0.41
10	0.51	0.50	0.49	0.50	0.49	0.48	0.50	0.47	0.46	0.48	0.45	0.43	0.47	0.44	0.41	0.38

Budgetary Estimate Chart			
Light Flux	2199.6lm		
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