Shen Zhen BST Technology Co..Ltd.
Buildilding 23-24 Zhiheng ldutral Park Guankouer
SRoad Nantou Nanshan District Shenzhen Guandong China.

Luminaire Property

Luminaire:

Report NO.: BD-0013A-7W
Test NO.:
Lamp:
Sum Lumens: 118.1 lm
Number of Lamps: 1
Diameter: 200mm
Length: mm
Photometric Type: Type C

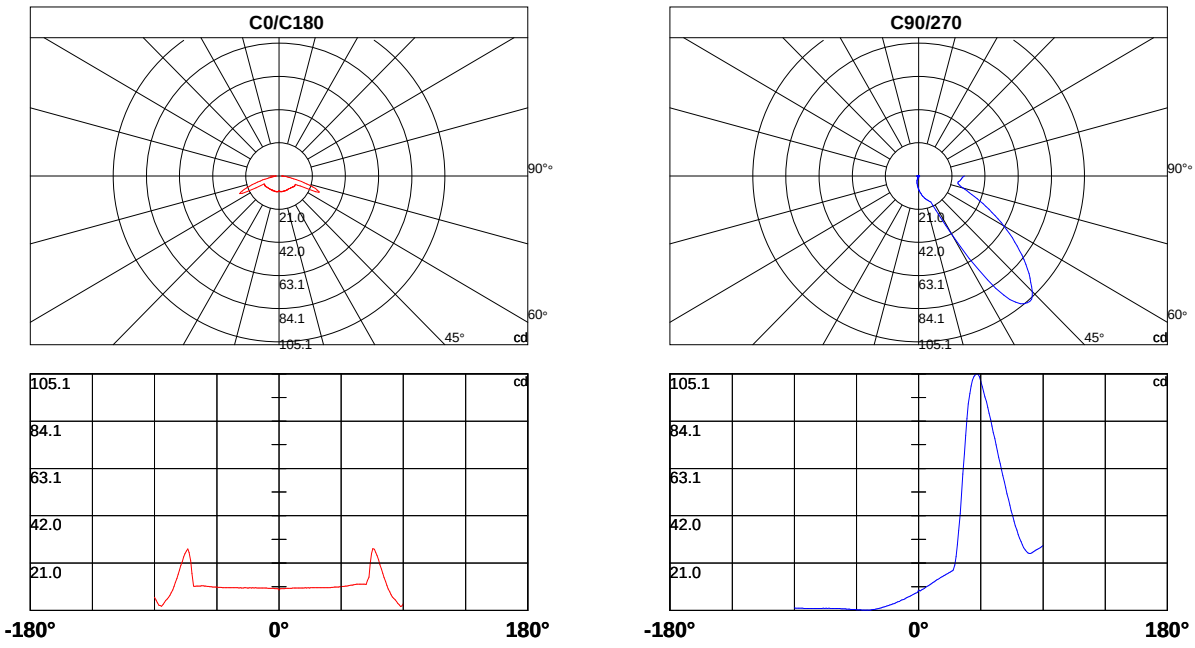
Voltage: 231.3 V
Current: 0.057 A
Power: 7.2 W
Power Factor: 0.544
Ballast Type:
Width: mm
Height: mm
Remark:

Photometric Results

Lumens: 118.10 lm
Efficiency: 16.4028 lm/W
Central Intensity: 9.081cd
Maximum Intensity: 105.144cd

Beam Angle(10%): Left: -78.2 Right:36.2

Angle of maximum intensity: C:45.0 G:42.0
Half Peak Side Angle(50%): Left: -63.7 Right:21.7
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	9.1	9.7	9.7	9.7	9.7	9.8	9.8	9.8	9.8	9.8
45.0	9.1	8.7	9.1	9.4	9.8	10.2	10.6	11.0	11.4	11.8
90.0	9.1	8.7	9.1	9.4	9.8	10.2	10.6	11.0	11.4	11.8
135.0	9.1	9.7	9.7	9.7	9.8	9.8	9.8	9.8	9.8	9.9
180.0	9.1	9.7	9.7	9.7	9.8	9.8	9.8	9.8	9.8	9.9
225.0	9.1	8.0	7.7	7.3	7.0	6.7	6.4	6.0	5.8	5.5
270.0	9.1	8.0	7.7	7.3	7.0	6.7	6.4	6.0	5.8	5.5
315.0	9.1	9.7	9.7	9.7	9.7	9.8	9.8	9.8	9.8	9.8
360.0	9.1	9.7	9.7	9.7	9.7	9.8	9.8	9.8	9.8	9.8

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	9.9	9.9	9.9	9.9	10.0	10.0	10.0	10.0	10.0	10.0
45.0	12.2	12.6	13.0	13.4	13.8	14.2	14.6	14.9	15.3	15.6
90.0	12.2	12.6	13.0	13.4	13.8	14.2	14.6	14.9	15.3	15.6
135.0	9.9	9.9	10.0	9.9	10.0	9.9	10.0	10.0	10.0	10.0
180.0	9.9	9.9	10.0	9.9	10.0	9.9	10.0	10.0	10.0	10.0
225.0	5.2	4.9	4.6	4.3	4.0	3.8	3.5	3.3	3.0	2.8
270.0	5.2	4.9	4.6	4.3	4.0	3.8	3.5	3.3	3.0	2.8
315.0	9.9	9.9	9.9	9.9	10.0	10.0	10.0	10.0	10.0	10.0
360.0	9.9	9.9	9.9	9.9	10.0	10.0	10.0	10.0	10.0	10.0

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
45.0	16.0	16.3	16.7	17.1	17.5	17.9	20.1	23.9	29.1	35.4
90.0	16.0	16.3	16.7	17.1	17.5	17.9	20.1	23.9	29.1	35.4
135.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
180.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
225.0	2.6	2.3	2.1	1.9	1.7	1.5	1.3	1.2	1.0	0.9
270.0	2.6	2.3	2.1	1.9	1.7	1.5	1.3	1.2	1.0	0.9
315.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
360.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	10.0	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.2	10.2
45.0	43.0	51.5	60.6	69.5	77.8	85.4	91.7	96.2	99.8	102.3
90.0	43.0	51.5	60.6	69.5	77.8	85.4	91.7	96.2	99.8	102.3
135.0	10.0	10.0	10.0	10.0	10.0	10.0	10.1	10.0	10.1	10.1
180.0	10.0	10.0	10.0	10.0	10.0	10.0	10.1	10.0	10.1	10.1
225.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1
270.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1
315.0	10.0	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.2	10.2
360.0	10.0	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.2	10.2

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	10.3	10.3	10.4	10.4	10.5	10.5	10.6	10.7	10.8	10.9
45.0	103.9	104.7	105.1	104.8	103.8	101.8	99.4	97.1	94.9	92.7
90.0	103.9	104.7	105.1	104.8	103.8	101.8	99.4	97.1	94.9	92.7
135.0	10.1	10.1	10.2	10.2	10.3	10.3	10.3	10.4	10.4	10.5
180.0	10.1	10.1	10.2	10.2	10.3	10.3	10.3	10.4	10.4	10.5
225.0	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5
270.0	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5
315.0	10.3	10.3	10.4	10.4	10.5	10.5	10.6	10.7	10.8	10.9
360.0	10.3	10.3	10.4	10.4	10.5	10.5	10.6	10.7	10.8	10.9

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	11.0	11.0	11.2	11.3	11.4	11.5	11.6	11.6	11.7	11.7
45.0	90.2	87.5	84.7	81.9	79.1	76.3	73.5	70.7	67.9	65.2
90.0	90.2	87.5	84.7	81.9	79.1	76.3	73.5	70.7	67.9	65.2
135.0	10.6	10.6	10.7	10.7	10.8	10.9	10.9	10.9	10.8	10.7
180.0	10.6	10.6	10.7	10.7	10.8	10.9	10.9	10.9	10.8	10.7
225.0	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.8
270.0	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.8
315.0	11.0	11.0	11.2	11.3	11.4	11.5	11.6	11.6	11.7	11.7
360.0	11.0	11.0	11.2	11.3	11.4	11.5	11.6	11.6	11.7	11.7

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	11.7	11.6	11.6	11.5	13.1	14.8	21.0	25.2	27.4	27.2
45.0	62.4	59.8	57.0	54.4	51.8	49.2	46.7	44.2	41.9	39.7
90.0	62.4	59.8	57.0	54.4	51.8	49.2	46.7	44.2	41.9	39.7
135.0	10.7	10.6	10.9	16.3	22.1	25.6	27.3	26.4	25.1	23.8
180.0	10.7	10.6	10.9	16.3	22.1	25.6	27.3	26.4	25.1	23.8
225.0	0.8	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
270.0	0.8	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
315.0	11.7	11.6	11.6	11.5	13.1	14.8	21.0	25.2	27.4	27.2
360.0	11.7	11.6	11.6	11.5	13.1	14.8	21.0	25.2	27.4	27.2

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	25.7	24.4	22.4	20.4	18.4	16.5	14.6	12.7	11.0	9.5
45.0	37.6	35.6	33.7	32.0	30.5	29.1	27.9	26.9	26.1	25.5
90.0	37.6	35.6	33.7	32.0	30.5	29.1	27.9	26.9	26.1	25.5
135.0	21.8	19.8	17.9	16.0	14.1	12.3	10.6	9.1	7.8	6.6
180.0	21.8	19.8	17.9	16.0	14.1	12.3	10.6	9.1	7.8	6.6
225.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8
270.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8
315.0	25.7	24.4	22.4	20.4	18.4	16.5	14.6	12.7	11.0	9.5
360.0	25.7	24.4	22.4	20.4	18.4	16.5	14.6	12.7	11.0	9.5

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	8.2	7.0	6.0	5.3	4.6	3.9	3.1	2.3	1.7	2.0
45.0	25.3	25.3	25.6	26.0	26.5	26.8	27.2	27.5	27.8	28.3
90.0	25.3	25.3	25.6	26.0	26.5	26.8	27.2	27.5	27.8	28.3
135.0	5.8	5.1	4.3	3.5	2.6	1.8	2.0	2.3	3.4	4.6
180.0	5.8	5.1	4.3	3.5	2.6	1.8	2.0	2.3	3.4	4.6
225.0	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0
270.0	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0
315.0	8.2	7.0	6.0	5.3	4.6	3.9	3.1	2.3	1.7	2.0
360.0	8.2	7.0	6.0	5.3	4.6	3.9	3.1	2.3	1.7	2.0

C\G	90.0
0.0	2.9
45.0	28.9
90.0	28.9
135.0	5.8
180.0	5.8
225.0	1.1
270.0	1.1
315.0	2.9
360.0	2.9

Zonal Flux Distribution

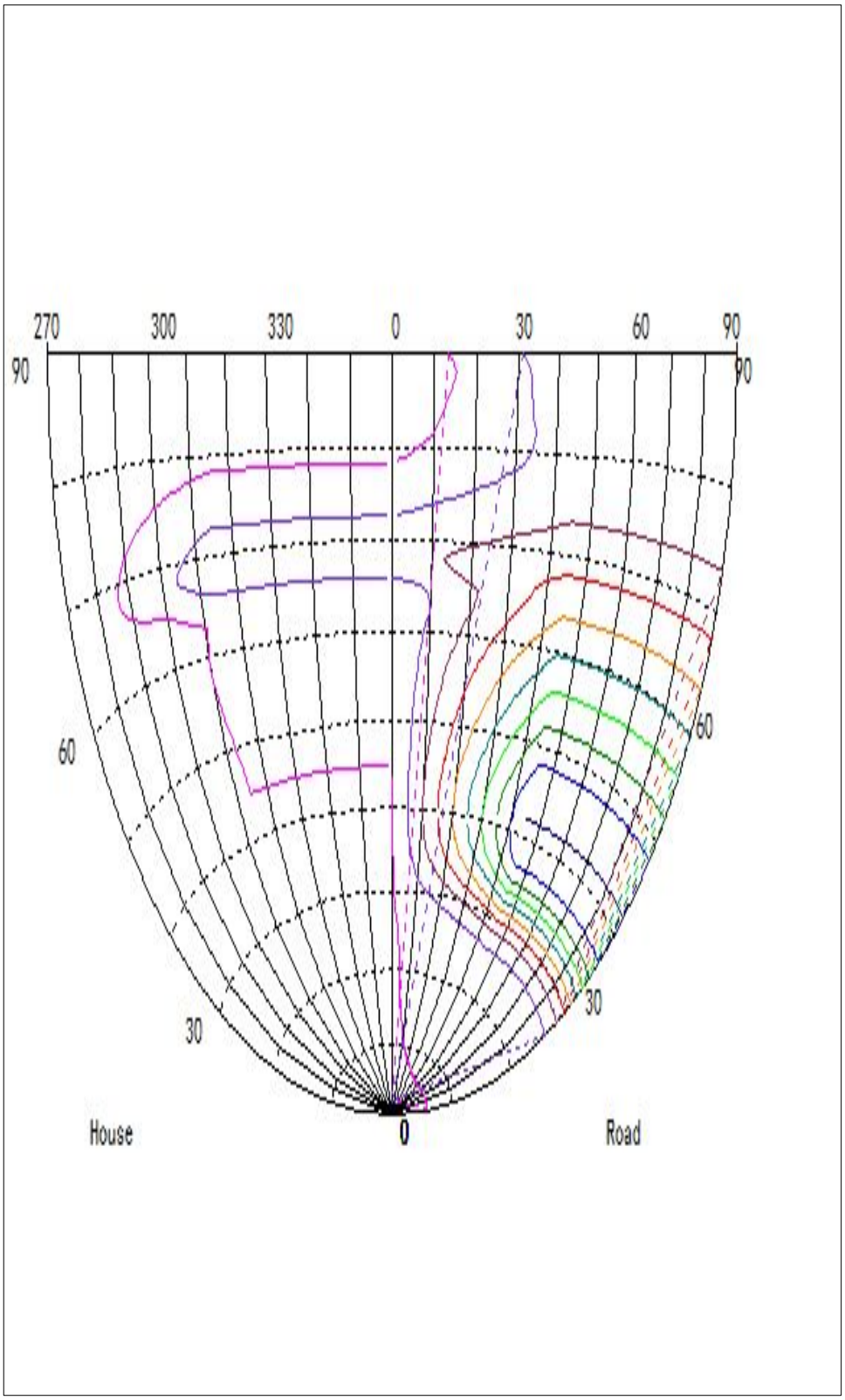
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	9.08	0.00	0.00	0.00	0.00
1	9.02	0.01	0.01	0.01	0.01
2	9.02	0.03	0.03	0.02	0.03
3	9.04	0.04	0.08	0.04	0.07
4	9.08	0.06	0.14	0.05	0.12
5	9.10	0.08	0.22	0.07	0.18
6	9.14	0.10	0.31	0.08	0.26
7	9.16	0.11	0.43	0.10	0.36
8	9.21	0.13	0.56	0.11	0.47
9	9.24	0.15	0.71	0.13	0.60
10	9.29	0.17	0.87	0.14	0.74
11	9.31	0.19	1.06	0.16	0.90
12	9.37	0.20	1.26	0.17	1.07
13	9.40	0.22	1.49	0.19	1.26
14	9.43	0.24	1.73	0.20	1.46
15	9.47	0.26	1.99	0.22	1.68
16	9.50	0.28	2.27	0.24	1.92
17	9.54	0.30	2.56	0.25	2.17
18	9.56	0.31	2.88	0.27	2.44
19	9.60	0.33	3.21	0.28	2.72
20	9.62	0.35	3.56	0.30	3.02
21	9.65	0.37	3.93	0.31	3.33
22	9.68	0.39	4.32	0.33	3.66
23	9.74	0.41	4.73	0.34	4.00
24	9.80	0.43	5.16	0.36	4.37
25	9.87	0.45	5.60	0.38	4.74
26	10.35	0.48	6.08	0.40	5.15
27	11.26	0.53	6.61	0.45	5.60
28	12.53	0.60	7.21	0.51	6.11
29	14.06	0.70	7.91	0.59	6.70
30	15.93	0.81	8.72	0.69	7.38
31	18.03	0.94	9.66	0.80	8.18
32	20.27	1.10	10.76	0.93	9.11
33	22.47	1.26	12.02	1.07	10.18
34	24.54	1.42	13.44	1.20	11.38
35	26.40	1.58	15.02	1.34	12.72
36	28.00	1.73	16.75	1.47	14.19
37	29.12	1.86	18.62	1.58	15.76
38	30.04	1.97	20.59	1.67	17.44
39	30.67	2.07	22.66	1.75	19.19
40	31.11	2.15	24.82	1.82	21.02

Zonal Flux Distribution

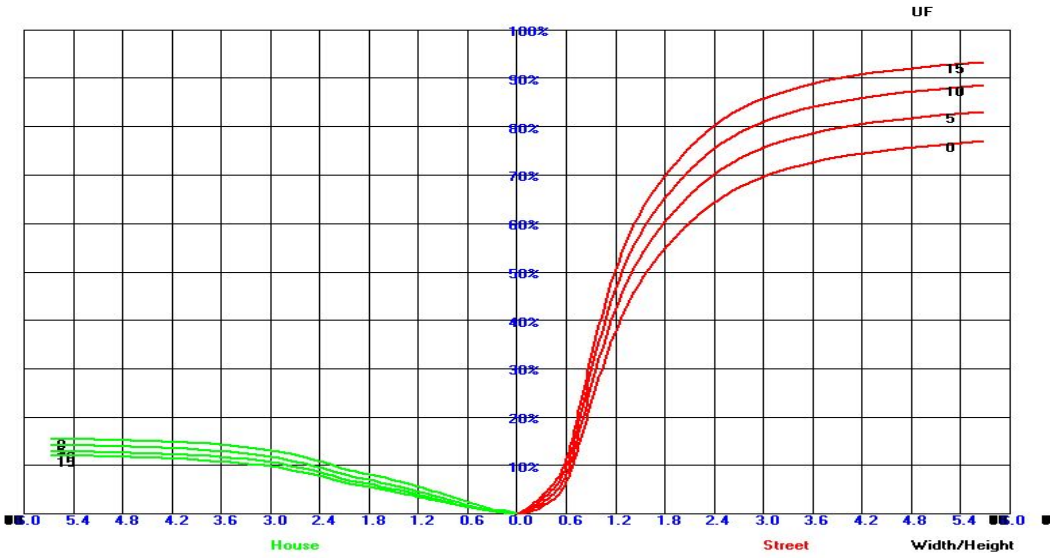
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	31.34	2.22	27.04	1.88	22.90
42	31.49	2.28	29.33	1.93	24.83
43	31.43	2.33	31.66	1.97	26.80
44	31.20	2.36	34.02	2.00	28.81
45	30.73	2.38	36.40	2.02	30.82
46	30.18	2.38	38.78	2.02	32.84
47	29.64	2.38	41.16	2.01	34.85
48	29.14	2.38	43.54	2.01	36.86
49	28.62	2.37	45.91	2.01	38.87
50	28.07	2.36	48.27	2.00	40.87
51	27.45	2.35	50.62	1.99	42.86
52	26.78	2.33	52.95	1.97	44.83
53	26.14	2.30	55.25	1.95	46.78
54	25.49	2.28	57.53	1.93	48.71
55	24.84	2.25	59.77	1.90	50.61
56	24.17	2.21	61.99	1.88	52.49
57	23.50	2.18	64.17	1.85	54.33
58	22.81	2.14	66.31	1.81	56.15
59	22.11	2.10	68.41	1.78	57.92
60	21.39	2.06	70.46	1.74	59.66
61	20.71	2.01	72.47	1.70	61.37
62	20.08	1.97	74.44	1.66	63.03
63	20.77	1.99	76.42	1.68	64.71
64	21.96	2.10	78.52	1.78	66.49
65	22.64	2.21	80.73	1.87	68.36
66	23.98	2.33	83.05	1.97	70.33
67	24.19	2.42	85.48	2.05	72.38
68	23.83	2.43	87.91	2.06	74.44
69	22.88	2.38	90.29	2.02	76.45
70	21.48	2.28	92.57	1.93	78.38
71	20.18	2.15	94.72	1.82	80.21
72	18.71	2.02	96.75	1.71	81.92
73	17.31	1.88	98.63	1.59	83.51
74	15.96	1.75	100.38	1.48	84.99
75	14.67	1.62	102.00	1.37	86.36
76	13.48	1.49	103.49	1.26	87.63
77	12.40	1.38	104.87	1.17	88.80
78	11.45	1.28	106.15	1.08	89.88
79	10.62	1.19	107.33	1.00	90.88
80	10.03	1.11	108.45	0.94	91.83
81	9.54	1.06	109.50	0.90	92.72

Zonal Flux Distribution

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
82	9.19	1.02	110.52	0.86	93.58
83	8.92	0.98	111.50	0.83	94.41
84	8.66	0.96	112.46	0.81	95.23
85	8.35	0.93	113.39	0.79	96.01
86	8.31	0.91	114.30	0.77	96.78
87	8.27	0.91	115.21	0.77	97.55
88	8.46	0.92	116.12	0.78	98.33
89	8.97	0.96	117.08	0.81	99.14
90	9.66	1.02	118.10	0.87	100.00

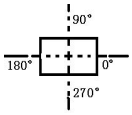

270
300
330
0
30
60
90
90
90
60
60
30
30
House
0
Road
10.5144 cd
21.0288 cd
31.5432 cd
42.0576 cd
52.572 cd
63.0864 cd
73.6008 cd
84.1152 cd
94.6296 cd
105.144 cd

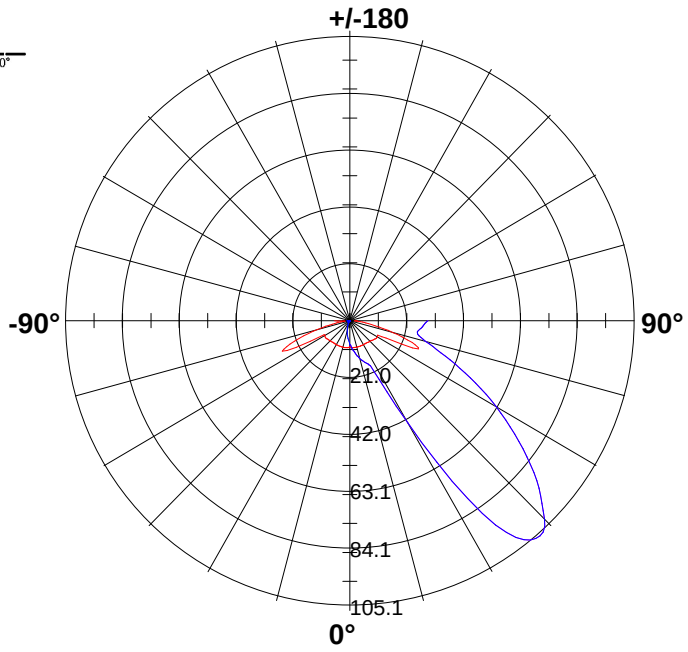
Coefficient Utilization Curve

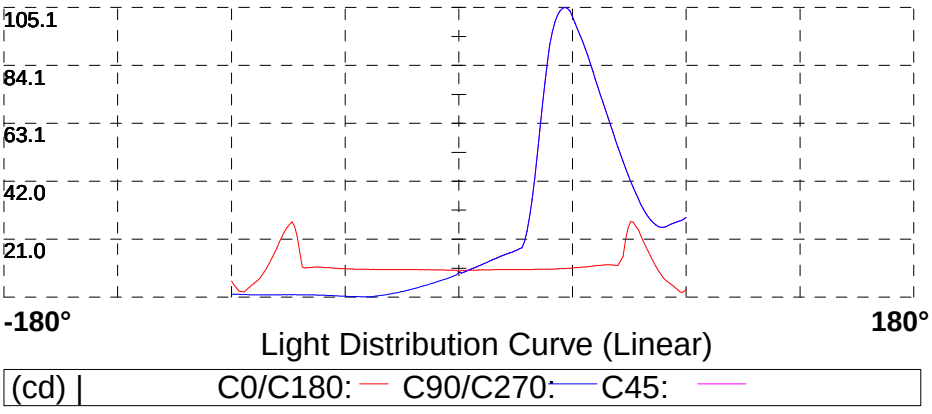


Light Distribution Curve [Unit: cd]

Luminaire



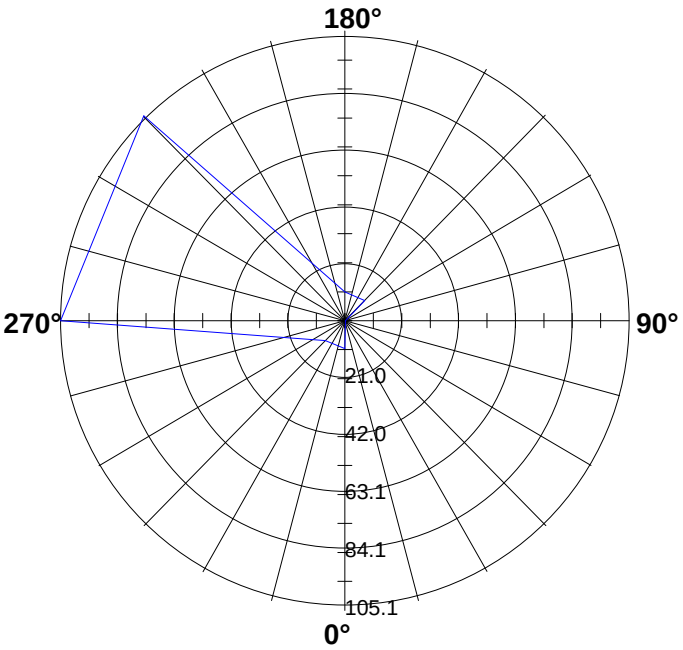


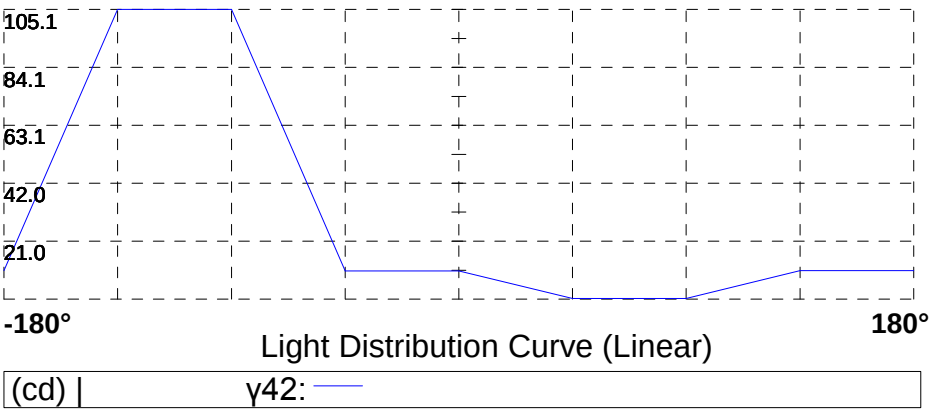


Light Distribution Curve (Linear)

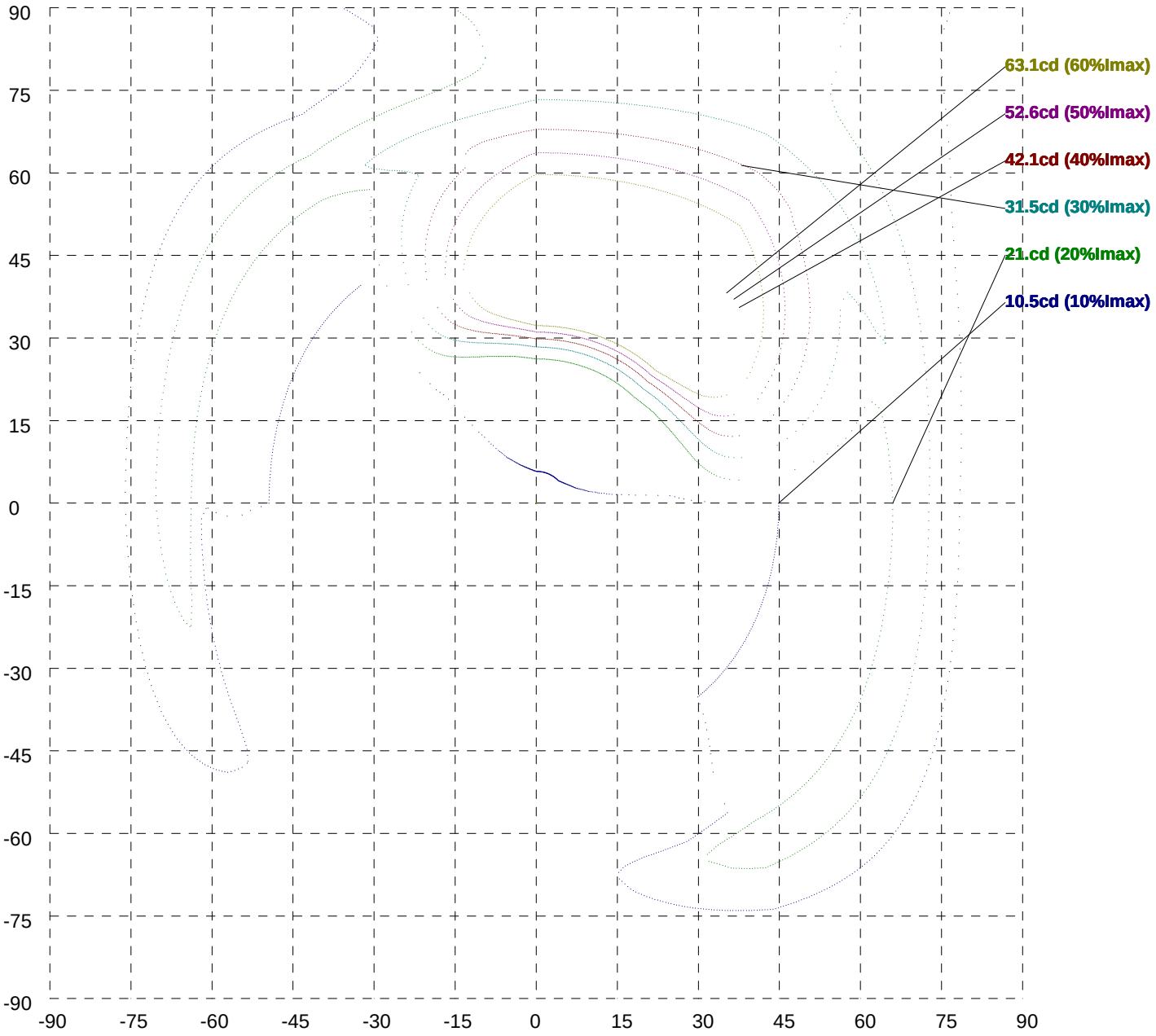
(cd) | C0/C180: C90/C270: C45:

Max Plane Light Distribution Curve [Unit: cd]



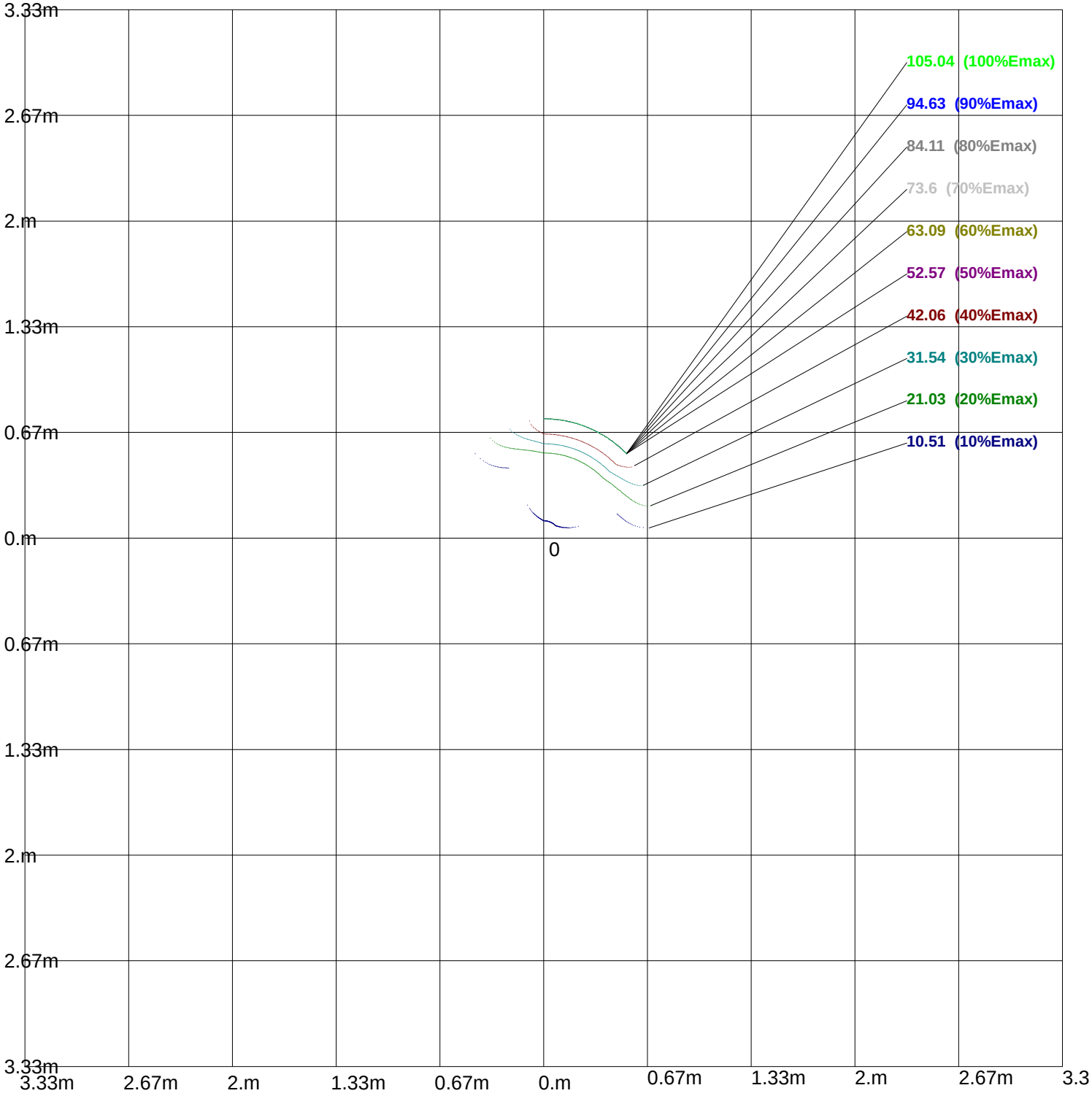


等光强曲线 V-H [cd]



测试设备:LINKCOLOR LCG-GONIO　　测试日期:2023-07-17　　测试人员:Operator
环境温度:25℃　　环境湿度:60%　　报告编号: BD-0013A-7W

Iso-Lux[lx]



Height: 1 m
Max Illuminance : 105.14lx

Luminance Limitting Curve

Diameter: 200mm

Length: mm

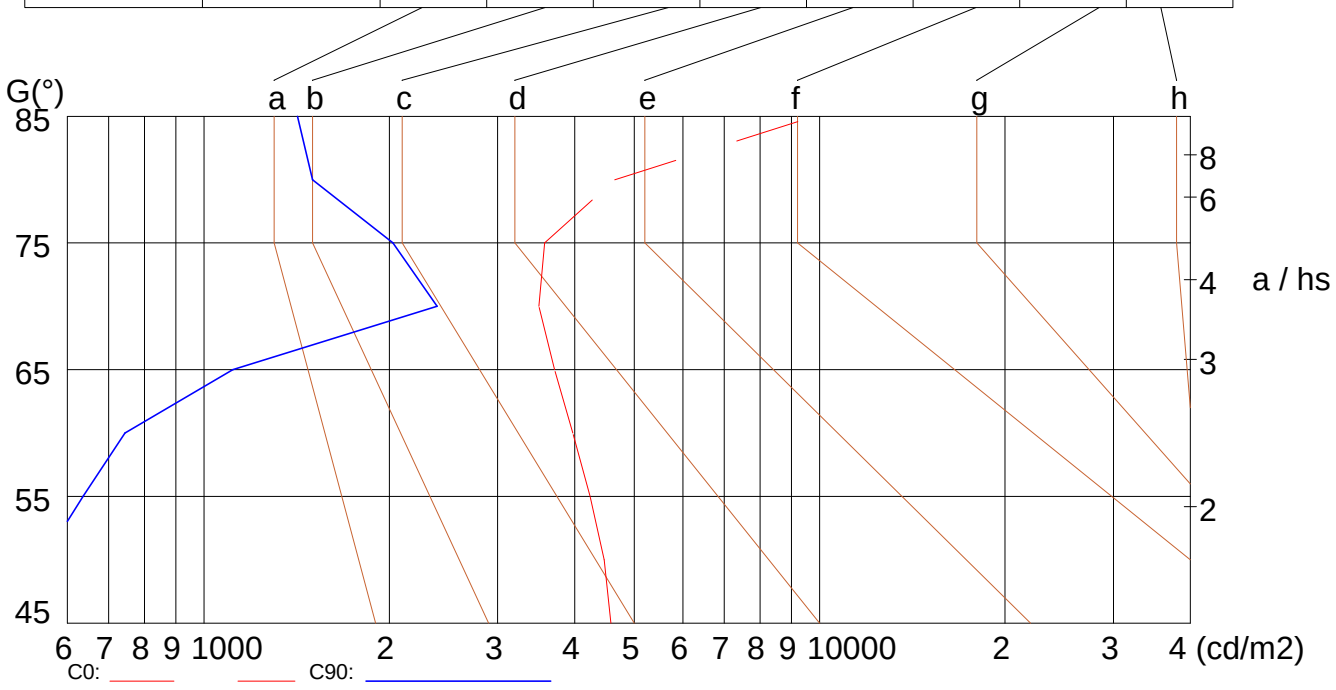
Width: mm

Height: mm

(cd/m2)

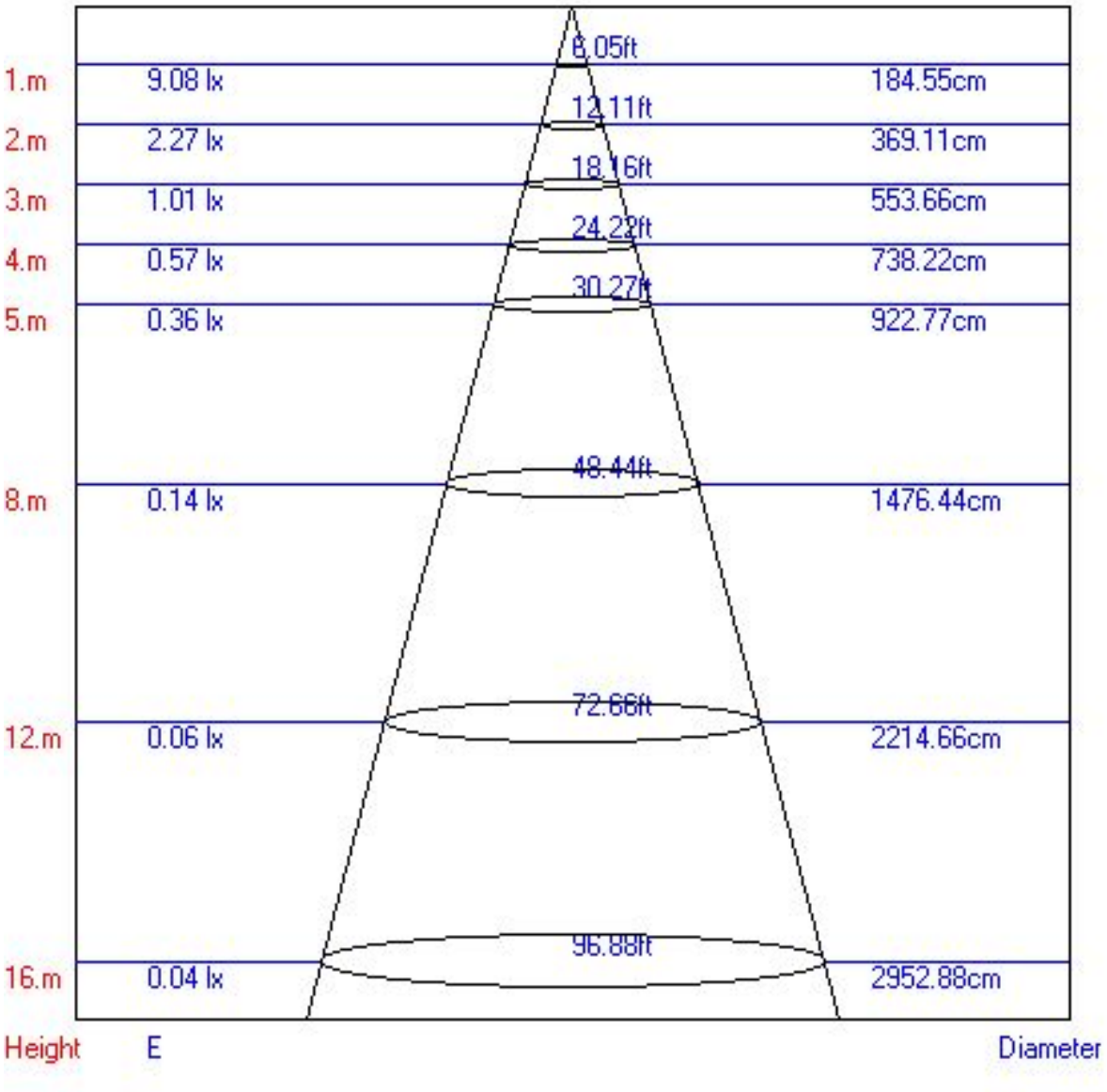
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4583	4468	4237	3974	3710	3500	3577	4646	9794
C90	474	544	636	744	1114	2391	2027	1500	1419

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)

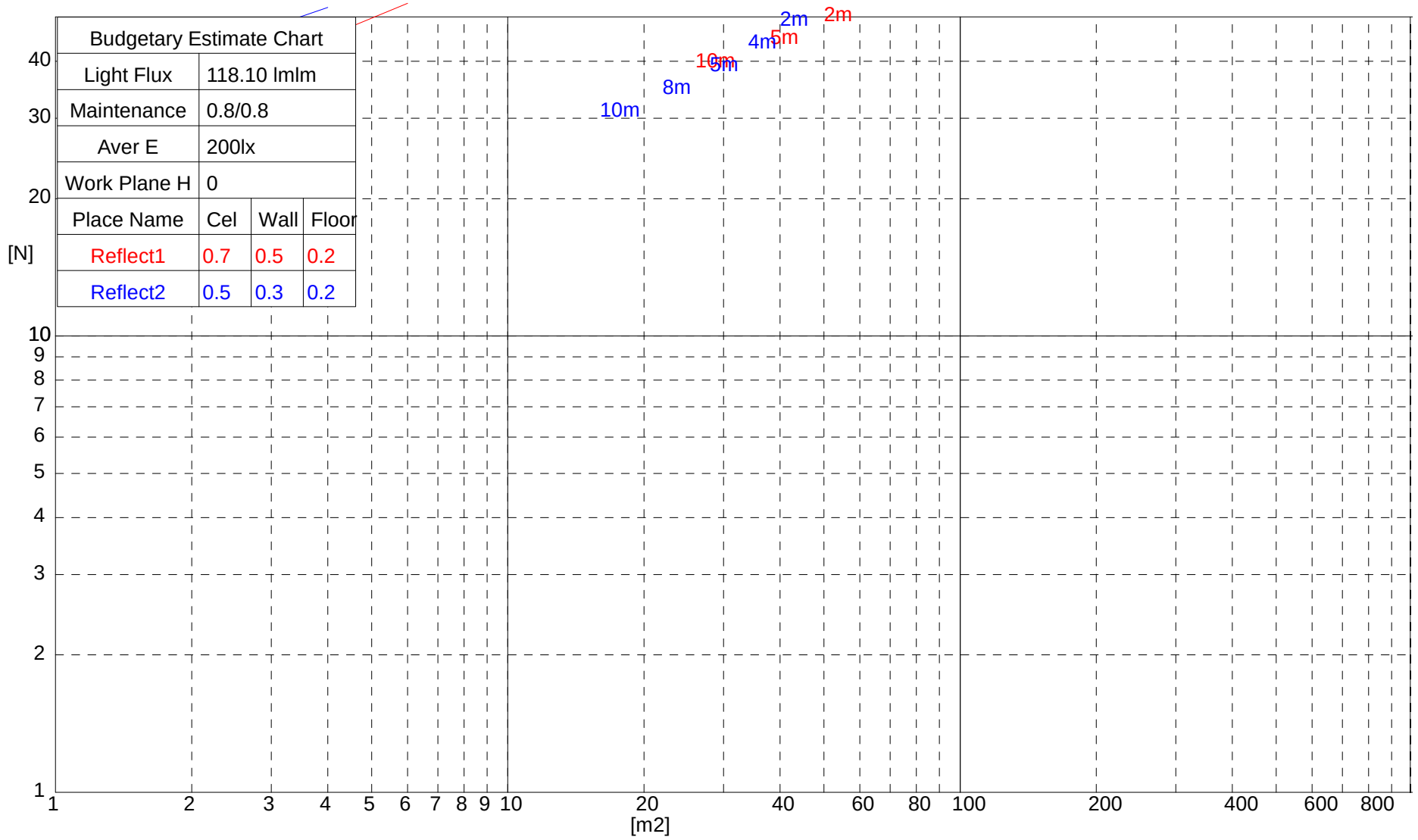
Lux-Distance Curve



Beam Angle:85.40°

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	0.95	0.92	0.90	0.94	0.91	0.88	0.91	0.88	0.85	0.87	0.83	0.80	0.81	0.78	0.75	0.69
2	0.74	0.71	0.68	0.75	0.70	0.67	0.74	0.69	0.64	0.71	0.66	0.61	0.68	0.62	0.57	0.53
3	0.59	0.56	0.53	0.60	0.56	0.52	0.61	0.55	0.50	0.60	0.53	0.48	0.58	0.51	0.45	0.41
4	0.48	0.44	0.42	0.50	0.45	0.41	0.51	0.45	0.40	0.51	0.44	0.38	0.50	0.43	0.36	0.32
5	0.40	0.36	0.34	0.41	0.37	0.33	0.43	0.37	0.32	0.44	0.37	0.31	0.44	0.36	0.30	0.26
6	0.33	0.30	0.28	0.35	0.30	0.27	0.37	0.31	0.27	0.38	0.31	0.26	0.39	0.31	0.25	0.21
7	0.28	0.25	0.23	0.30	0.26	0.23	0.32	0.26	0.22	0.34	0.27	0.22	0.35	0.27	0.21	0.18
8	0.24	0.21	0.19	0.26	0.22	0.19	0.29	0.23	0.19	0.30	0.23	0.18	0.32	0.24	0.18	0.15
9	0.21	0.18	0.16	0.23	0.19	0.16	0.25	0.20	0.16	0.27	0.20	0.16	0.29	0.21	0.15	0.12
10	0.18	0.16	0.14	0.20	0.16	0.14	0.23	0.17	0.14	0.25	0.18	0.14	0.26	0.19	0.13	0.11


Budgetary Estimate Chart
Light Flux 118.10 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
2m
2m
4m
5m
10m
5m
8m
10m
[N]
[m2]
1 2 3 4 5 6 7 8 9 10 20 40 60 80 100 200 400 600 800