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.: TY-0080A-1-2
Test NO.:
Lamp:
Sum Lumens: 46.24 lm
Number of Lamps: 1
Diameter: 200mm
Length: mm
Photometric Type: Type C

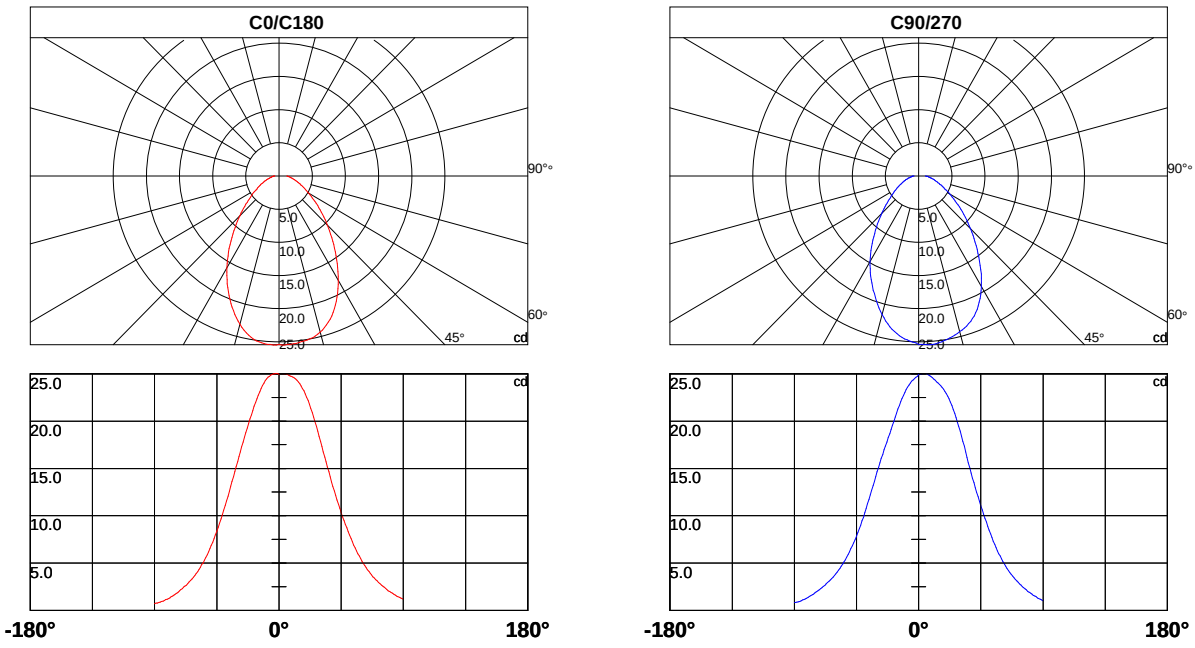
Voltage: 223.0 V
Current: 0.021 A
Power: 1.5 W
Power Factor: 0.329
Ballast Type:
Width: mm
Height: mm
Remark:

Photometric Results

Lumens: 46.24 lm
Efficiency: 28.90 lm/W
Central Intensity: 24.932cd
Maximum Intensity: 25.033cd

Beam Angle(10%): Left: -69.5 Right:74.5

Angle of maximum intensity: C:0.0 G:1.0
Half Peak Side Angle(50%): Left: -37.1 Right:39.2
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	24.9	25.0	25.0	25.0	25.0	25.0	24.9	24.8	24.8	24.7
45.0	24.9	24.9	25.0	25.0	25.0	25.0	25.0	24.9	24.8	24.7
90.0	24.9	24.9	25.0	25.0	25.0	25.0	25.0	24.9	24.8	24.7
135.0	24.9	25.0	25.0	25.0	25.0	24.9	24.8	24.7	24.7	24.5
180.0	24.9	25.0	25.0	25.0	25.0	24.9	24.8	24.7	24.7	24.5
225.0	24.9	24.7	24.6	24.5	24.4	24.2	24.0	23.8	23.6	23.3
270.0	24.9	24.7	24.6	24.5	24.4	24.2	24.0	23.8	23.6	23.3
315.0	24.9	25.0	25.0	25.0	25.0	25.0	24.9	24.8	24.8	24.7
360.0	24.9	25.0	25.0	25.0	25.0	25.0	24.9	24.8	24.8	24.7

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	24.7	24.5	24.5	24.3	24.1	23.9	23.7	23.4	23.2	22.8
45.0	24.6	24.4	24.3	24.2	24.1	23.9	23.8	23.6	23.4	23.1
90.0	24.6	24.4	24.3	24.2	24.1	23.9	23.8	23.6	23.4	23.1
135.0	24.3	24.0	23.8	23.4	23.1	22.7	22.4	22.0	21.6	21.1
180.0	24.3	24.0	23.8	23.4	23.1	22.7	22.4	22.0	21.6	21.1
225.0	23.0	22.7	22.4	22.1	21.6	21.3	20.8	20.4	20.0	19.6
270.0	23.0	22.7	22.4	22.1	21.6	21.3	20.8	20.4	20.0	19.6
315.0	24.7	24.5	24.5	24.3	24.1	23.9	23.7	23.4	23.2	22.8
360.0	24.7	24.5	24.5	24.3	24.1	23.9	23.7	23.4	23.2	22.8

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	22.5	22.2	21.8	21.3	20.9	20.4	19.9	19.5	18.9	18.4
45.0	22.9	22.6	22.4	22.0	21.6	21.2	20.8	20.4	19.9	19.5
90.0	22.9	22.6	22.4	22.0	21.6	21.2	20.8	20.4	19.9	19.5
135.0	20.7	20.2	19.8	19.3	18.8	18.3	17.8	17.3	16.7	16.2
180.0	20.7	20.2	19.8	19.3	18.8	18.3	17.8	17.3	16.7	16.2
225.0	19.1	18.7	18.2	17.8	17.3	17.0	16.5	16.1	15.6	15.1
270.0	19.1	18.7	18.2	17.8	17.3	17.0	16.5	16.1	15.6	15.1
315.0	22.5	22.2	21.8	21.3	20.9	20.4	19.9	19.5	18.9	18.4
360.0	22.5	22.2	21.8	21.3	20.9	20.4	19.9	19.5	18.9	18.4

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	17.8	17.3	16.7	16.2	15.7	15.2	14.6	14.1	13.6	13.1
45.0	18.9	18.4	17.9	17.3	16.7	16.2	15.6	15.0	14.5	14.0
90.0	18.9	18.4	17.9	17.3	16.7	16.2	15.6	15.0	14.5	14.0
135.0	15.7	15.2	14.7	14.1	13.6	13.1	12.6	12.1	11.6	11.1
180.0	15.7	15.2	14.7	14.1	13.6	13.1	12.6	12.1	11.6	11.1
225.0	14.6	14.1	13.6	13.2	12.7	12.2	11.7	11.3	10.7	10.3
270.0	14.6	14.1	13.6	13.2	12.7	12.2	11.7	11.3	10.7	10.3
315.0	17.8	17.3	16.7	16.2	15.7	15.2	14.6	14.1	13.6	13.1
360.0	17.8	17.3	16.7	16.2	15.7	15.2	14.6	14.1	13.6	13.1

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	12.6	12.1	11.6	11.2	10.8	10.3	9.9	9.5	9.1	8.7
45.0	13.5	13.0	12.5	12.0	11.5	11.0	10.6	10.1	9.7	9.3
90.0	13.5	13.0	12.5	12.0	11.5	11.0	10.6	10.1	9.7	9.3
135.0	10.6	10.1	9.7	9.2	8.7	8.4	8.0	7.6	7.2	6.9
180.0	10.6	10.1	9.7	9.2	8.7	8.4	8.0	7.6	7.2	6.9
225.0	9.8	9.5	9.0	8.6	8.2	7.8	7.5	7.1	6.8	6.5
270.0	9.8	9.5	9.0	8.6	8.2	7.8	7.5	7.1	6.8	6.5
315.0	12.6	12.1	11.6	11.2	10.8	10.3	9.9	9.5	9.1	8.7
360.0	12.6	12.1	11.6	11.2	10.8	10.3	9.9	9.5	9.1	8.7

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	8.3	8.0	7.6	7.3	6.9	6.6	6.3	6.0	5.7	5.5
45.0	8.9	8.5	8.1	7.7	7.3	7.0	6.6	6.3	6.0	5.7
90.0	8.9	8.5	8.1	7.7	7.3	7.0	6.6	6.3	6.0	5.7
135.0	6.5	6.2	5.9	5.6	5.3	5.0	4.8	4.5	4.3	4.1
180.0	6.5	6.2	5.9	5.6	5.3	5.0	4.8	4.5	4.3	4.1
225.0	6.2	5.9	5.6	5.4	5.1	4.9	4.7	4.4	4.3	4.0
270.0	6.2	5.9	5.6	5.4	5.1	4.9	4.7	4.4	4.3	4.0
315.0	8.3	8.0	7.6	7.3	6.9	6.6	6.3	6.0	5.7	5.5
360.0	8.3	8.0	7.6	7.3	6.9	6.6	6.3	6.0	5.7	5.5

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	5.2	5.0	4.7	4.5	4.3	4.1	3.9	3.7	3.5	3.4
45.0	5.4	5.2	4.9	4.7	4.4	4.2	4.0	3.8	3.6	3.4
90.0	5.4	5.2	4.9	4.7	4.4	4.2	4.0	3.8	3.6	3.4
135.0	3.9	3.7	3.5	3.3	3.2	3.0	2.8	2.7	2.6	2.5
180.0	3.9	3.7	3.5	3.3	3.2	3.0	2.8	2.7	2.6	2.5
225.0	3.8	3.7	3.5	3.4	3.2	3.1	2.9	2.8	2.6	2.5
270.0	3.8	3.7	3.5	3.4	3.2	3.1	2.9	2.8	2.6	2.5
315.0	5.2	5.0	4.7	4.5	4.3	4.1	3.9	3.7	3.5	3.4
360.0	5.2	5.0	4.7	4.5	4.3	4.1	3.9	3.7	3.5	3.4

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	3.2	3.1	2.9	2.8	2.7	2.6	2.5	2.3	2.2	2.1
45.0	3.3	3.1	3.0	2.8	2.7	2.5	2.4	2.3	2.1	2.0
90.0	3.3	3.1	3.0	2.8	2.7	2.5	2.4	2.3	2.1	2.0
135.0	2.3	2.2	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3
180.0	2.3	2.2	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3
225.0	2.4	2.3	2.1	2.1	2.0	1.8	1.7	1.7	1.5	1.5
270.0	2.4	2.3	2.1	2.1	2.0	1.8	1.7	1.7	1.5	1.5
315.0	3.2	3.1	2.9	2.8	2.7	2.6	2.5	2.3	2.2	2.1
360.0	3.2	3.1	2.9	2.8	2.7	2.6	2.5	2.3	2.2	2.1

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	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.4	1.3	1.2
45.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.2	1.1
90.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.2	1.1
135.0	1.2	1.2	1.1	1.1	1.0	0.9	0.9	0.8	0.8	0.8
180.0	1.2	1.2	1.1	1.1	1.0	0.9	0.9	0.8	0.8	0.8
225.0	1.4	1.3	1.2	1.1	1.1	1.0	0.9	0.9	0.9	0.8
270.0	1.4	1.3	1.2	1.1	1.1	1.0	0.9	0.9	0.9	0.8
315.0	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.4	1.3	1.2
360.0	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.4	1.3	1.2

C\G	90.0
0.0	1.2
45.0	1.0
90.0	1.0
135.0	0.7
180.0	0.7
225.0	0.8
270.0	0.8
315.0	1.2
360.0	1.2

Zonal Flux Distribution

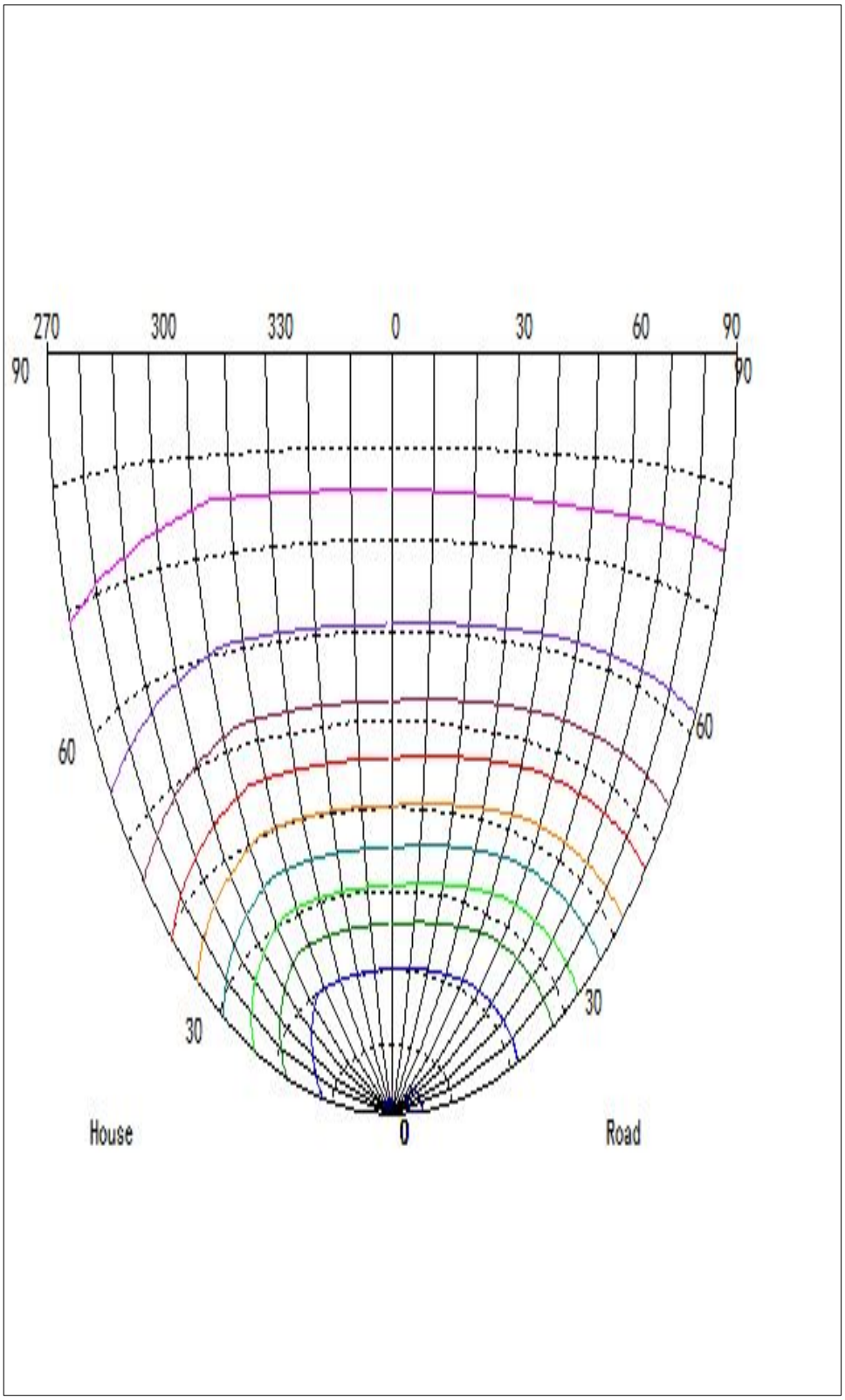
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0	24.93	0.00	0.00	0.00	0.00
1	24.93	0.02	0.02	0.05	0.05
2	24.91	0.07	0.10	0.15	0.21
3	24.88	0.12	0.21	0.26	0.46
4	24.84	0.17	0.38	0.36	0.82
5	24.78	0.21	0.59	0.46	1.29
6	24.69	0.26	0.85	0.56	1.85
7	24.57	0.31	1.16	0.66	2.51
8	24.45	0.35	1.51	0.76	3.27
9	24.31	0.40	1.91	0.85	4.12
10	24.14	0.44	2.34	0.95	5.07
11	23.93	0.48	2.82	1.04	6.11
12	23.73	0.52	3.35	1.13	7.24
13	23.50	0.56	3.91	1.21	8.45
14	23.23	0.60	4.50	1.29	9.74
15	22.95	0.63	5.14	1.37	11.11
16	22.67	0.67	5.81	1.45	12.56
17	22.36	0.70	6.51	1.52	14.07
18	22.03	0.73	7.24	1.58	15.66
19	21.67	0.76	8.00	1.64	17.30
20	21.31	0.79	8.79	1.70	19.00
21	20.93	0.81	9.60	1.75	20.76
22	20.54	0.83	10.43	1.80	22.56
23	20.10	0.85	11.28	1.84	24.40
24	19.67	0.87	12.15	1.88	26.28
25	19.23	0.88	13.04	1.91	28.20
26	18.76	0.90	13.93	1.94	30.13
27	18.28	0.91	14.84	1.96	32.09
28	17.78	0.91	15.75	1.97	34.07
29	17.30	0.92	16.67	1.99	36.05
30	16.78	0.92	17.59	1.99	38.04
31	16.26	0.92	18.51	1.99	40.03
32	15.73	0.92	19.43	1.98	42.01
33	15.22	0.91	20.34	1.97	43.99
34	14.67	0.90	21.24	1.96	45.94
35	14.17	0.90	22.14	1.94	47.88
36	13.64	0.89	23.03	1.91	49.79
37	13.12	0.87	23.90	1.89	51.68
38	12.60	0.86	24.76	1.86	53.54
39	12.12	0.84	25.60	1.82	55.36
40	11.64	0.83	26.43	1.79	57.16

Zonal Flux Distribution

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
41	11.17	0.81	27.24	1.76	58.91
42	10.70	0.79	28.04	1.72	60.63
43	10.25	0.78	28.81	1.68	62.31
44	9.82	0.76	29.57	1.64	63.95
45	9.40	0.74	30.31	1.60	65.54
46	9.00	0.72	31.03	1.56	67.10
47	8.59	0.70	31.73	1.51	68.61
48	8.21	0.68	32.41	1.47	70.08
49	7.85	0.66	33.07	1.43	71.51
50	7.47	0.64	33.70	1.38	72.89
51	7.13	0.62	34.32	1.34	74.23
52	6.80	0.60	34.92	1.29	75.52
53	6.47	0.58	35.50	1.25	76.77
54	6.16	0.56	36.05	1.20	77.97
55	5.87	0.54	36.59	1.16	79.13
56	5.61	0.52	37.11	1.12	80.26
57	5.31	0.50	37.61	1.08	81.33
58	5.08	0.48	38.09	1.04	82.37
59	4.83	0.46	38.55	1.00	83.38
60	4.59	0.44	39.00	0.96	84.34
61	4.38	0.43	39.43	0.93	85.26
62	4.16	0.41	39.84	0.89	86.15
63	3.97	0.40	40.23	0.85	87.01
64	3.77	0.38	40.61	0.82	87.83
65	3.59	0.36	40.98	0.79	88.62
66	3.42	0.35	41.33	0.76	89.37
67	3.25	0.34	41.66	0.73	90.10
68	3.09	0.32	41.98	0.69	90.79
69	2.95	0.31	42.29	0.67	91.46
70	2.80	0.30	42.59	0.64	92.10
71	2.68	0.28	42.87	0.61	92.71
72	2.53	0.27	43.14	0.59	93.30
73	2.40	0.26	43.40	0.56	93.85
74	2.28	0.25	43.64	0.53	94.39
75	2.15	0.23	43.88	0.51	94.89
76	2.05	0.22	44.10	0.48	95.37
77	1.94	0.21	44.31	0.46	95.84
78	1.83	0.20	44.52	0.44	96.27
79	1.72	0.19	44.71	0.41	96.68
80	1.64	0.18	44.89	0.39	97.07
81	1.54	0.17	45.06	0.37	97.45

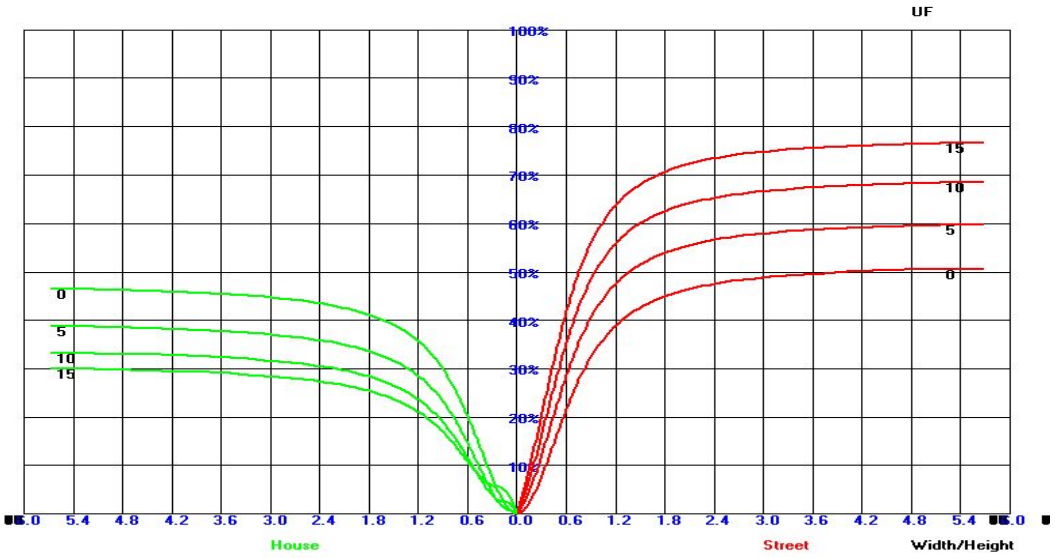
Zonal Flux Distribution

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
82	1.47	0.16	45.22	0.35	97.80
83	1.37	0.15	45.38	0.33	98.13
84	1.30	0.15	45.52	0.31	98.45
85	1.23	0.14	45.66	0.30	98.74
86	1.14	0.13	45.79	0.28	99.02
87	1.08	0.12	45.91	0.26	99.29
88	1.04	0.12	46.03	0.25	99.54
89	0.98	0.11	46.14	0.24	99.78
90	0.93	0.10	46.24	0.23	100.00



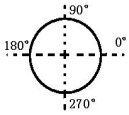
2.5033 cd
5.0066 cd
7.5099 cd
10.0132 cd
12.5165 cd
15.0198 cd
17.5231 cd
20.0264 cd
22.5297 cd
25.033 cd

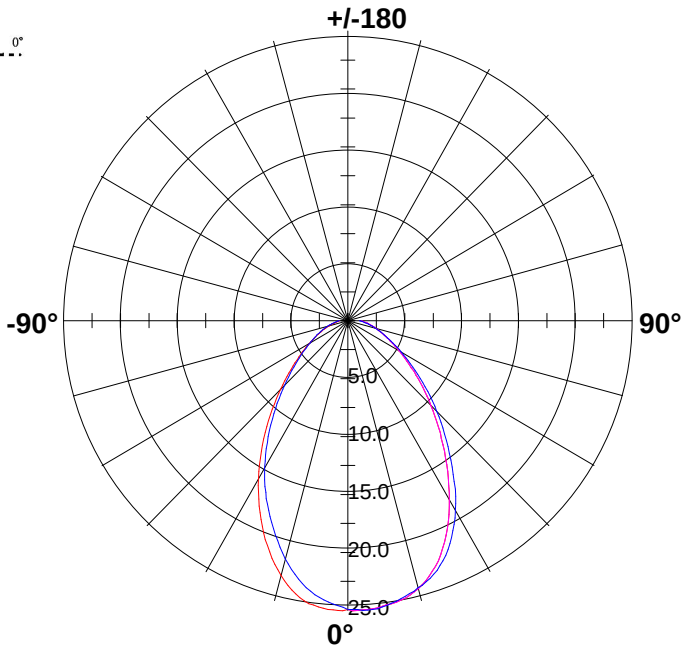
Coefficient Utilization Curve

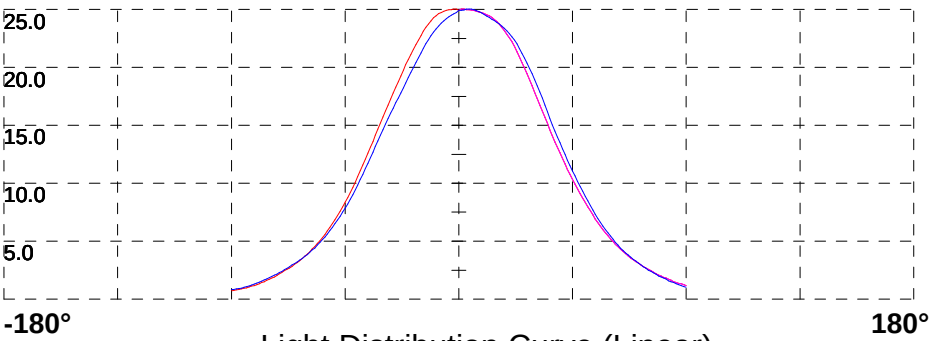


Light Distribution Curve [Unit: cd]

Luminaire



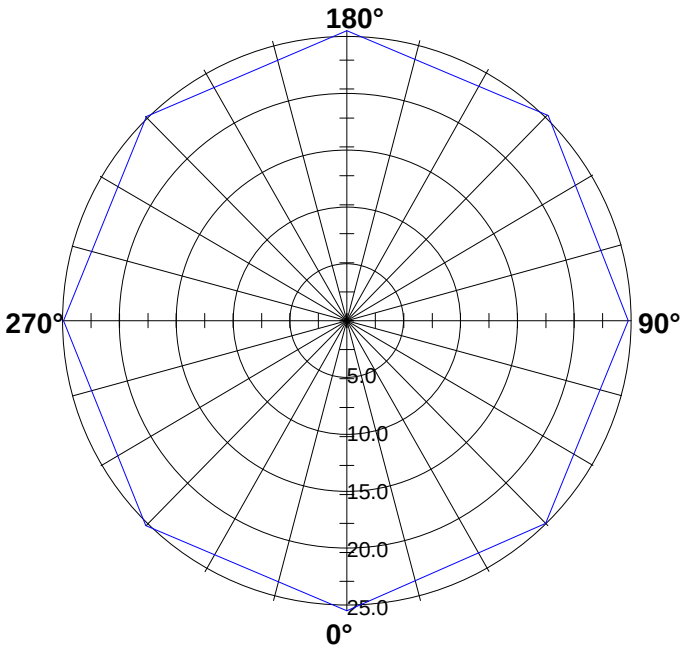


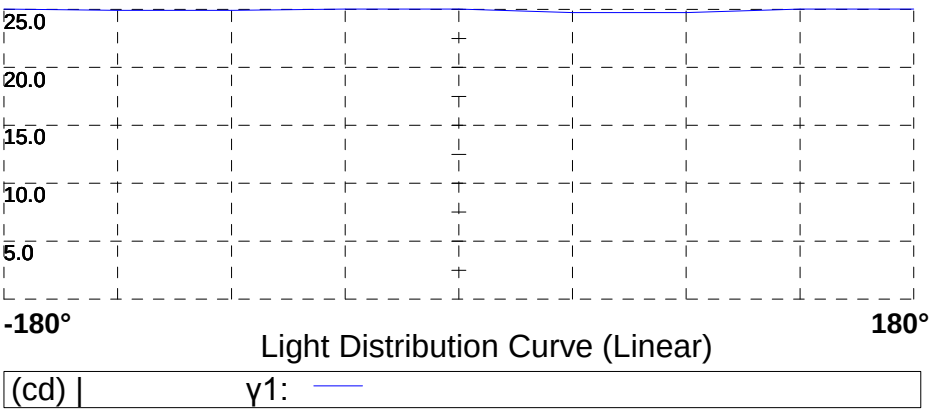


Light Distribution Curve (Linear)

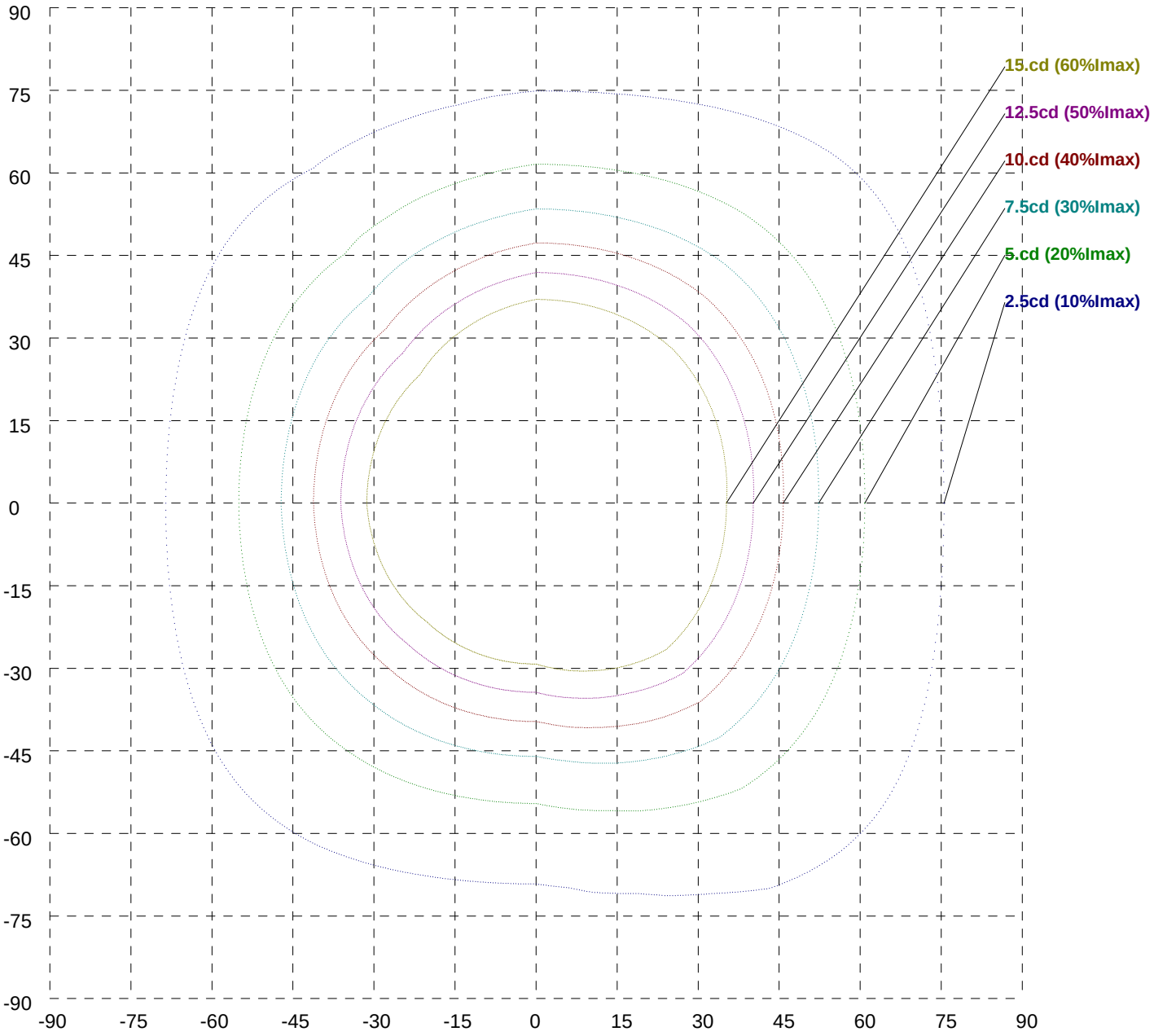
(cd) | C0/C180: C90/C270: C0:

Max Plane Light Distribution Curve [Unit: cd]





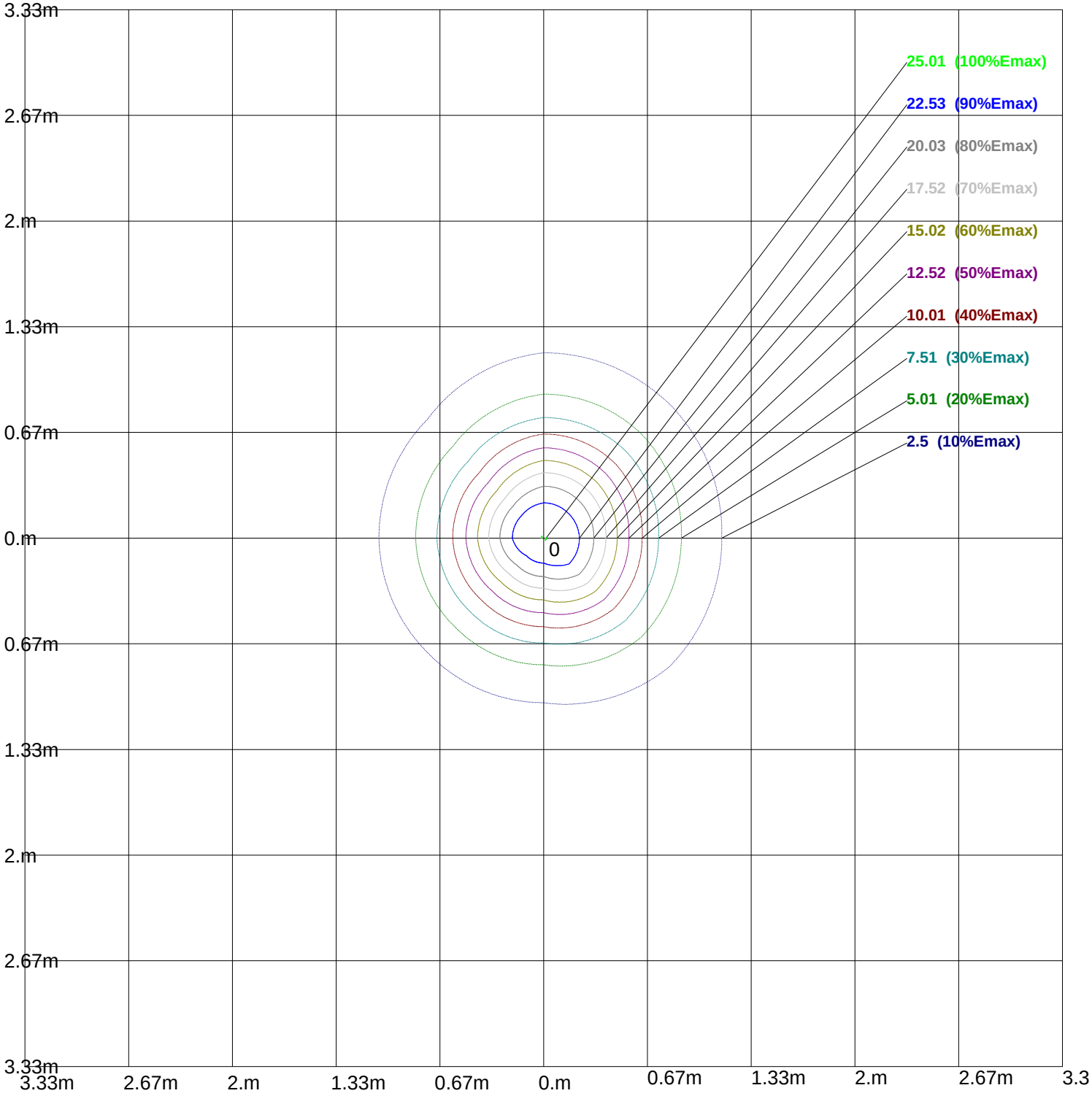
等光强曲线 V-H [cd]



测试设备:LINKCOLOR LCG-GONIO　　测试日期:2024-01-11　　测试人员:Engineer Su

环境温度:25℃　　环境湿度:60%　　报告编号:TY-0080A-1-2

Iso-Lux[lx]



Height: 1 m
Max Illuminance : 25.03lx

Luminance Limitting Curve

Diameter: 200mm

Length: mm

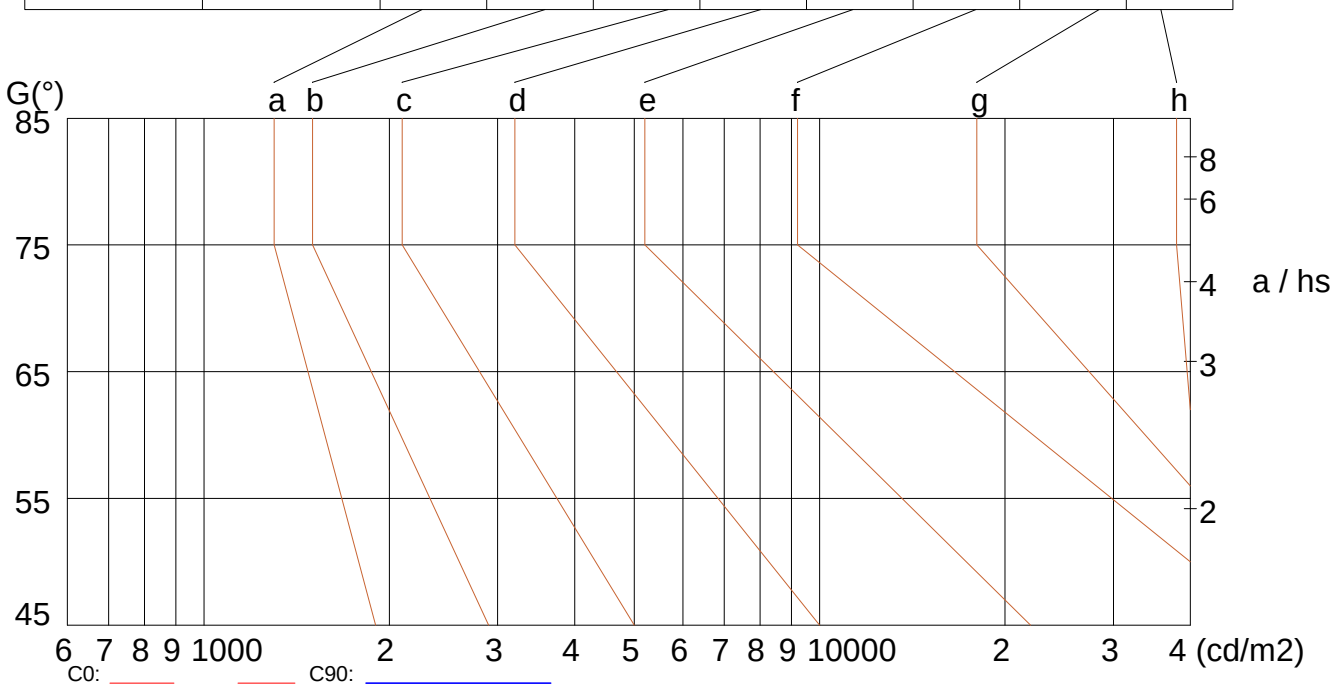
Width: mm

Height: mm

(cd/m2)

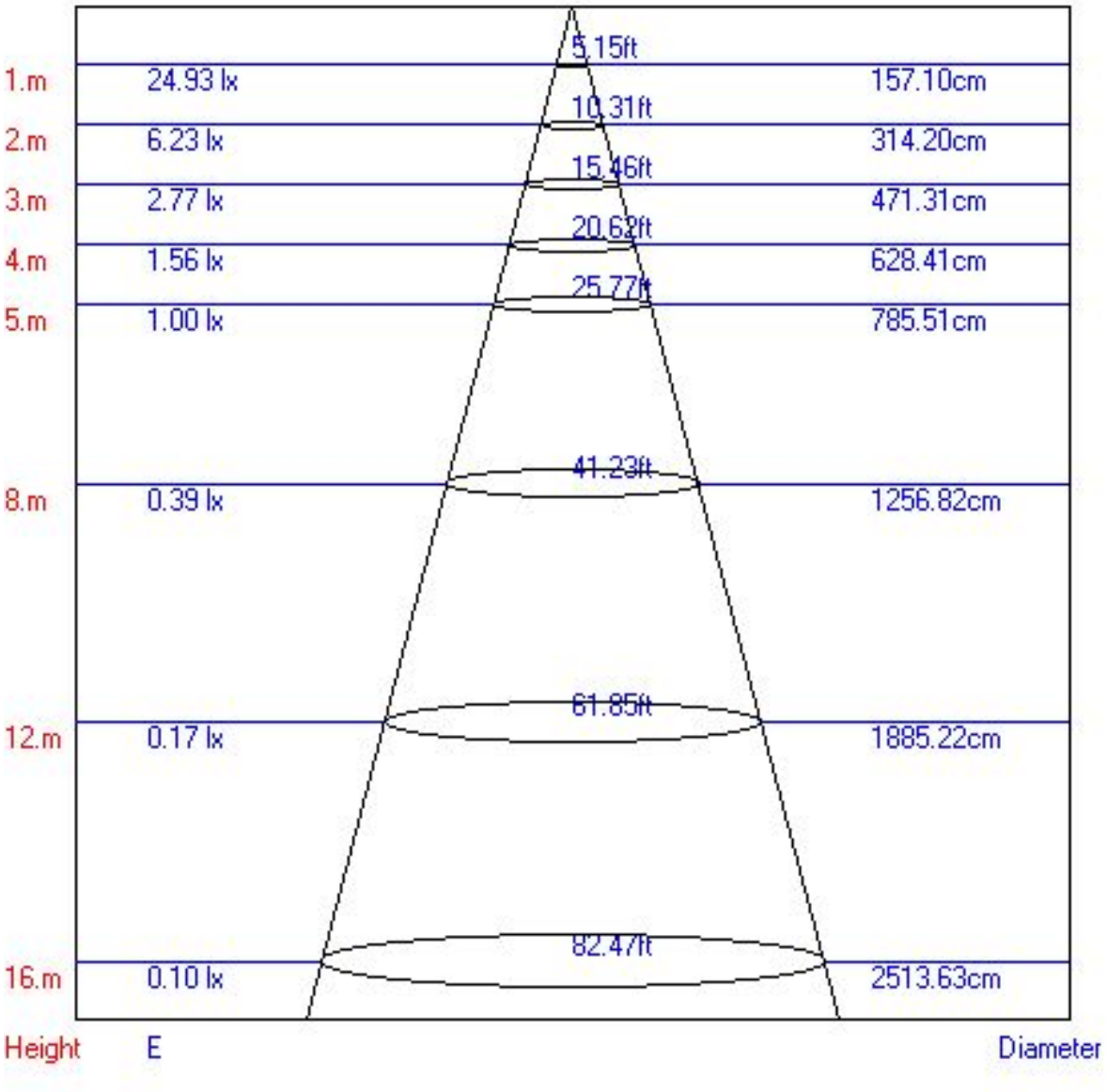
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	497	439	387	346	315	305	306	353	523
C90	465	413	366	331	310	302	315	366	551

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)

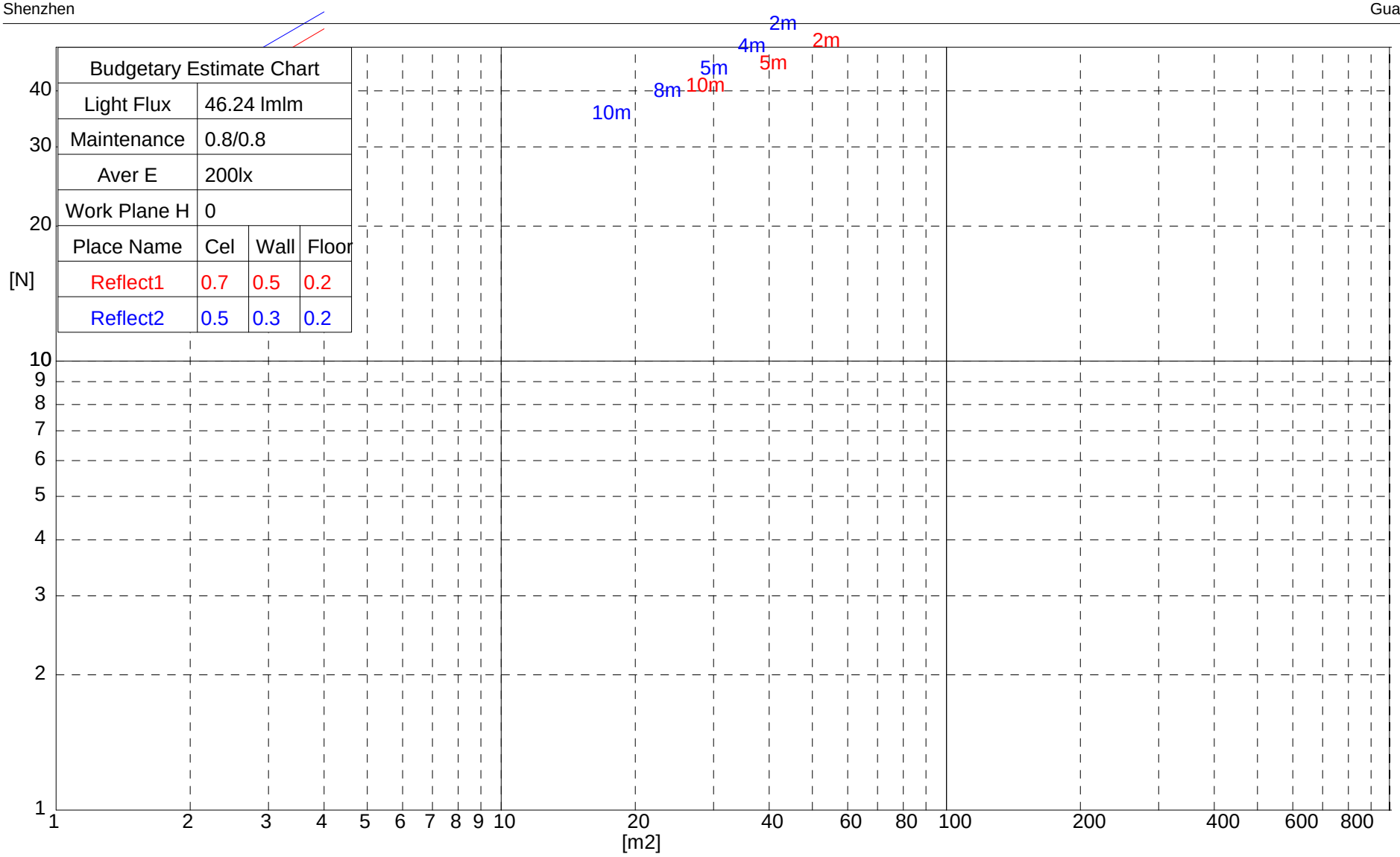
Lux-Distance Curve



Beam Angle:76.30°

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	1.06	1.04	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	0.92	0.90	0.88	0.92	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.69
3	0.81	0.79	0.77	0.81	0.78	0.75	0.79	0.75	0.72	0.77	0.72	0.69	0.73	0.68	0.64	0.60
4	0.72	0.69	0.68	0.72	0.69	0.66	0.71	0.67	0.63	0.69	0.64	0.60	0.67	0.61	0.57	0.53
5	0.64	0.62	0.60	0.65	0.61	0.59	0.64	0.60	0.56	0.63	0.58	0.54	0.61	0.55	0.51	0.47
6	0.58	0.55	0.54	0.58	0.55	0.53	0.58	0.54	0.51	0.58	0.52	0.48	0.57	0.50	0.46	0.42
7	0.53	0.50	0.49	0.53	0.50	0.48	0.53	0.49	0.46	0.53	0.48	0.44	0.52	0.46	0.41	0.38
8	0.48	0.46	0.44	0.49	0.45	0.43	0.49	0.45	0.42	0.49	0.44	0.40	0.49	0.42	0.38	0.34
9	0.44	0.42	0.40	0.45	0.42	0.40	0.45	0.41	0.38	0.46	0.40	0.36	0.45	0.39	0.35	0.32
10	0.41	0.38	0.37	0.41	0.38	0.36	0.42	0.38	0.35	0.42	0.37	0.33	0.43	0.36	0.32	0.29


Budgetary Estimate Chart
Light Flux 46.24 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
4m
2m
5m
5m
8m
10m
10m
[N]
40
30
20
10
9
8
7
6
5
4
3
2
1
1 2 3 4 5 6 7 8 9 10 20 40 60 80 100 200 400 600 800
[m2]