



Light intensity data Unit[cd]

C\G	G0.0	G1.0	G2.0	G3.0	G4.0	G5.0	G6.0	G7.0	G8.0	G9.0
C0.0	9679.2	9868.4	9811.0	9732.9	9569.1	9316.1	9016.5	8673.6	8250.3	7838.2
C45.0	9679.2	9637.2	9734.6	9802.7	9819.2	9785.4	9714.5	9575.1	9395.3	9181.4
C90.0	9679.2	9607.5	9680.9	9694.7	9643.3	9545.4	9429.1	9222.1	8948.6	8653.0
C135.0	9679.2	9748.6	9727.4	9646.0	9535.0	9369.2	9168.5	8910.9	8574.1	8239.8
C180.0	9679.2	9890.1	9821.4	9683.4	9491.0	9311.5	9068.2	8764.7	8378.9	8018.0
C225.0	9679.2	9301.0	9062.7	8744.8	8429.8	8055.1	7667.7	7194.6	6757.2	6334.4
C270.0	9679.2	9357.9	9191.6	8982.4	8669.8	8226.1	7752.1	7268.3	6753.9	6301.7
C315.0	9679.2	9661.7	9536.6	9368.7	9157.0	8883.7	8547.7	8190.3	7811.0	7423.6
C360.0	9679.2	9868.4	9811.0	9732.9	9569.1	9316.1	9016.5	8673.6	8250.3	7838.2
C\G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	7412.1	6973.6	6495.5	6061.9	5628.7	5205.0	4792.4	4350.3	3966.8	3622.0
C45.0	8898.5	8566.2	8185.1	7792.3	7331.8	6880.9	6377.3	5874.4	5404.0	4963.7
C90.0	8322.3	7878.3	7462.1	6946.1	6438.3	5979.2	5394.2	4951.5	4491.9	4036.1
C135.0	7832.4	7438.4	6922.7	6461.7	5962.7	5498.1	5052.4	4552.4	4142.4	3784.0
C180.0	7633.6	7138.8	6734.1	6263.4	5770.8	5357.1	4925.4	4475.7	4107.0	3701.5
C225.0	5894.0	5463.7	4997.4	4609.0	4245.0	3875.0	3551.9	3180.0	2875.4	2569.9
C270.0	5872.5	5458.2	5015.6	4626.9	4244.4	3878.0	3505.2	3202.5	2926.8	2662.6
C315.0	7006.0	6564.2	6151.5	5754.8	5364.2	4919.4	4544.1	4159.0	3814.2	3475.8
C360.0	7412.1	6973.6	6495.5	6061.9	5628.7	5205.0	4792.4	4350.3	3966.8	3622.0
C\G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	3285.3	2939.4	2596.9	2320.8	2041.5	1760.8	1506.3	1272.0	1054.0	883.6
C45.0	4463.3	4097.9	3713.6	3390.8	3078.5	2785.4	2534.5	2292.5	2051.4	1773.8
C90.0	3666.3	3336.4	3036.5	2769.5	2535.8	2303.0	2099.0	1905.5	1670.9	1377.3
C135.0	3415.6	3107.7	2806.9	2553.7	2291.7	2055.5	1790.3	1549.4	1312.7	1066.1
C180.0	3372.4	3038.1	2754.1	2434.4	2133.6	1877.4	1618.4	1383.9	1148.9	927.6
C225.0	2279.3	1968.7	1692.4	1438.9	1186.5	973.8	769.0	616.4	505.8	424.2
C270.0	2381.9	2013.2	1669.8	1366.6	1082.9	856.6	728.8	619.4	522.4	449.5
C315.0	3138.2	2853.1	2565.8	2290.1	1982.7	1666.0	1382.6	1118.7	918.5	744.5
C360.0	3285.3	2939.4	2596.9	2320.8	2041.5	1760.8	1506.3	1272.0	1054.0	883.6
C\G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	710.4	550.1	438.2	337.9	260.6	200.4	153.7	111.6	76.7	45.1
C45.0	1543.7	1299.8	1080.7	849.0	661.7	519.1	395.6	313.1	239.2	189.1
C90.0	1104.4	820.1	588.9	400.3	296.3	237.5	208.1	152.8	79.5	37.7
C135.0	837.7	646.6	494.0	376.4	288.1	236.2	185.6	147.4	104.2	58.8
C180.0	753.3	601.5	472.9	357.4	285.7	217.5	172.4	125.9	92.1	64.6
C225.0	349.1	290.9	237.8	188.3	143.2	108.9	76.4	41.5	11.6	0.0
C270.0	376.1	314.2	266.7	214.7	166.6	111.9	56.9	14.6	0.0	0.0
C315.0	612.8	518.2	437.7	361.5	307.1	258.2	211.1	162.2	114.6	71.8
C360.0	710.4	550.1	438.2	337.9	260.6	200.4	153.7	111.6	76.7	45.1



Light intensity data Unit[cd]

C\G	G40.0	G41.0	G42.0	G43.0	G44.0	G45.0	G46.0	G47.0	G48.0	G49.0
C0.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C45.0	148.7	108.9	67.1	36.8	5.2	0.0	0.0	0.0	0.0	0.0
C90.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C135.0	28.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C180.0	33.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C315.0	35.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C360.0	20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C\G	G50.0	G51.0	G52.0	G53.0	G54.0	G55.0	G56.0	G57.0	G58.0	G59.0
C0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C\G	G60.0	G61.0	G62.0	G63.0	G64.0	G65.0	G66.0	G67.0	G68.0	G69.0
C0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C\G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Light intensity data Unit[cd]

C\G	G80.0	G81.0	G82.0	G83.0	G84.0	G85.0	G86.0	G87.0	G88.0	G89.0
C0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C\G	G90.0									
C0.0	0.0									
C45.0	0.0									
C90.0	0.0									
C135.0	0.0									
C180.0	0.0									
C225.0	0.0									
C270.0	0.0									
C315.0	0.0									
C360.0	0.0									



Zonal Luminous Flux Data

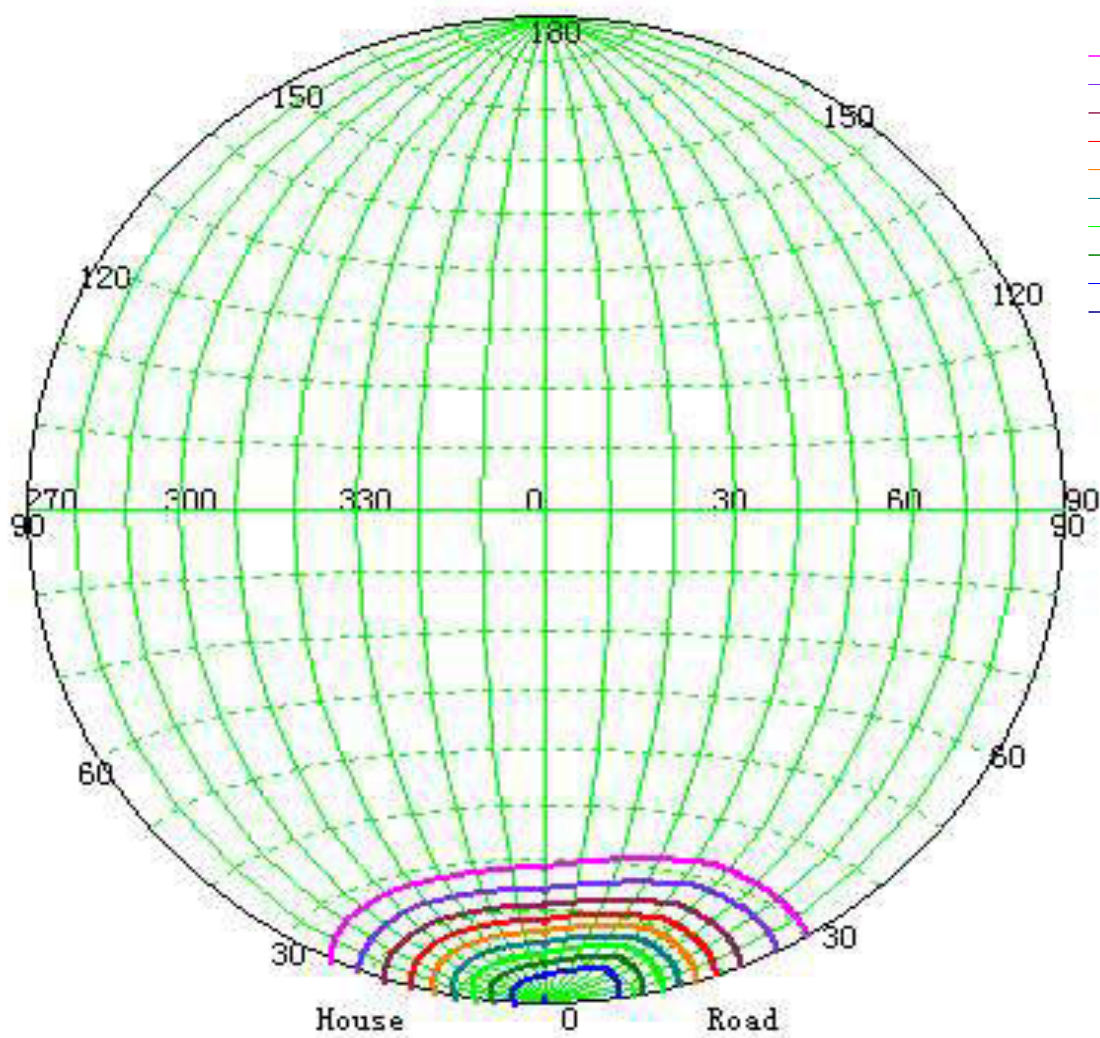
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0.0	9679.15	0.00	0.00	0.00	0.00
0.0-1.0	9634.07	9.24	9.24	0.29	0.29
1.0-2.0	9570.77	27.56	36.81	0.85	1.14
2.0-3.0	9456.96	45.51	82.31	1.41	2.54
3.0-4.0	9289.26	62.75	145.06	1.94	4.48
4.0-5.0	9061.56	78.94	224.01	2.44	6.92
5.0-6.0	8795.54	93.84	317.85	2.90	9.82
6.0-7.0	8474.96	107.20	425.05	3.31	13.13
7.0-8.0	8108.66	118.69	543.73	3.67	16.80
8.0-9.0	7748.76	128.52	672.25	3.97	20.77
9.0-10.0	7358.92	136.72	808.97	4.22	25.00
10.0-11.0	6935.18	142.83	951.80	4.41	29.41
11.0-12.0	6495.52	146.82	1098.61	4.54	33.95
12.0-13.0	6064.50	149.06	1247.67	4.61	38.55
13.0-14.0	5623.23	149.60	1397.27	4.62	43.18
14.0-15.0	5199.07	148.57	1545.85	4.59	47.77
15.0-16.0	4767.86	146.04	1691.89	4.51	52.28
16.0-17.0	4343.22	141.88	1833.77	4.38	56.66
17.0-18.0	3966.06	137.00	1970.77	4.23	60.90
18.0-19.0	3601.93	131.67	2102.44	4.07	64.97
19.0-20.0	3250.29	125.41	2227.86	3.88	68.84
20.0-21.0	2919.32	118.47	2346.33	3.66	72.50
21.0-22.0	2604.50	111.00	2457.33	3.43	75.93
22.0-23.0	2320.62	103.34	2560.67	3.19	79.13
23.0-24.0	2041.67	95.38	2656.05	2.95	82.07
24.0-25.0	1784.83	87.01	2743.05	2.69	84.76
25.0-26.0	1553.60	78.80	2821.86	2.44	87.20
26.0-27.0	1344.73	70.91	2892.77	2.19	89.39
27.0-28.0	1148.09	63.11	2955.88	1.95	91.34
28.0-29.0	955.82	55.04	3010.92	1.70	93.04
29.0-30.0	785.92	47.03	3057.95	1.45	94.49
30.0-31.0	630.18	39.41	3097.36	1.22	95.71
31.0-32.0	502.10	32.44	3129.80	1.00	96.71
32.0-33.0	385.67	26.15	3155.95	0.81	97.52
33.0-34.0	301.17	20.79	3176.73	0.64	98.16
34.0-35.0	236.19	16.69	3193.42	0.52	98.68
35.0-36.0	182.47	13.33	3206.75	0.41	99.09
36.0-37.0	133.64	10.31	3217.06	0.32	99.41
37.0-38.0	89.73	7.46	3224.52	0.23	99.64
38.0-39.0	58.39	5.06	3229.57	0.16	99.79
39.0-40.0	34.33	3.23	3232.81	0.10	99.89



Zonal Luminous Flux Data

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
40.0-41.0	16.29	1.80	3234.61	0.06	99.95
41.0-42.0	8.39	0.90	3235.51	0.03	99.98
42.0-43.0	4.60	0.48	3235.99	0.01	99.99
43.0-44.0	0.65	0.20	3236.19	0.01	100.00
44.0-45.0	0.00	0.03	3236.21	0.00	100.00
45.0-46.0	0.00	0.00	3236.21	0.00	100.00
46.0-47.0	0.00	0.00	3236.21	0.00	100.00
47.0-48.0	0.00	0.00	3236.21	0.00	100.00
48.0-49.0	0.00	0.00	3236.21	0.00	100.00
49.0-50.0	0.00	0.00	3236.21	0.00	100.00
50.0-51.0	0.00	0.00	3236.21	0.00	100.00
51.0-52.0	0.00	0.00	3236.21	0.00	100.00
52.0-53.0	0.00	0.00	3236.21	0.00	100.00
53.0-54.0	0.00	0.00	3236.21	0.00	100.00
54.0-55.0	0.00	0.00	3236.21	0.00	100.00
55.0-56.0	0.00	0.00	3236.21	0.00	100.00
56.0-57.0	0.00	0.00	3236.21	0.00	100.00
57.0-58.0	0.00	0.00	3236.21	0.00	100.00
58.0-59.0	0.00	0.00	3236.21	0.00	100.00
59.0-60.0	0.00	0.00	3236.21	0.00	100.00
60.0-61.0	0.00	0.00	3236.21	0.00	100.00
61.0-62.0	0.00	0.00	3236.21	0.00	100.00
62.0-63.0	0.00	0.00	3236.21	0.00	100.00
63.0-64.0	0.00	0.00	3236.21	0.00	100.00
64.0-65.0	0.00	0.00	3236.21	0.00	100.00
65.0-66.0	0.00	0.00	3236.21	0.00	100.00
66.0-67.0	0.00	0.00	3236.21	0.00	100.00
67.0-68.0	0.00	0.00	3236.21	0.00	100.00
68.0-69.0	0.00	0.00	3236.21	0.00	100.00
69.0-70.0	0.00	0.00	3236.21	0.00	100.00
70.0-71.0	0.00	0.00	3236.21	0.00	100.00
71.0-72.0	0.00	0.00	3236.21	0.00	100.00
72.0-73.0	0.00	0.00	3236.21	0.00	100.00
73.0-74.0	0.00	0.00	3236.21	0.00	100.00
74.0-75.0	0.00	0.00	3236.21	0.00	100.00
75.0-76.0	0.00	0.00	3236.21	0.00	100.00
76.0-77.0	0.00	0.00	3236.21	0.00	100.00
77.0-78.0	0.00	0.00	3236.21	0.00	100.00
78.0-79.0	0.00	0.00	3236.21	0.00	100.00
79.0-80.0	0.00	0.00	3236.21	0.00	100.00
80.0-81.0	0.00	0.00	3236.21	0.00	100.00

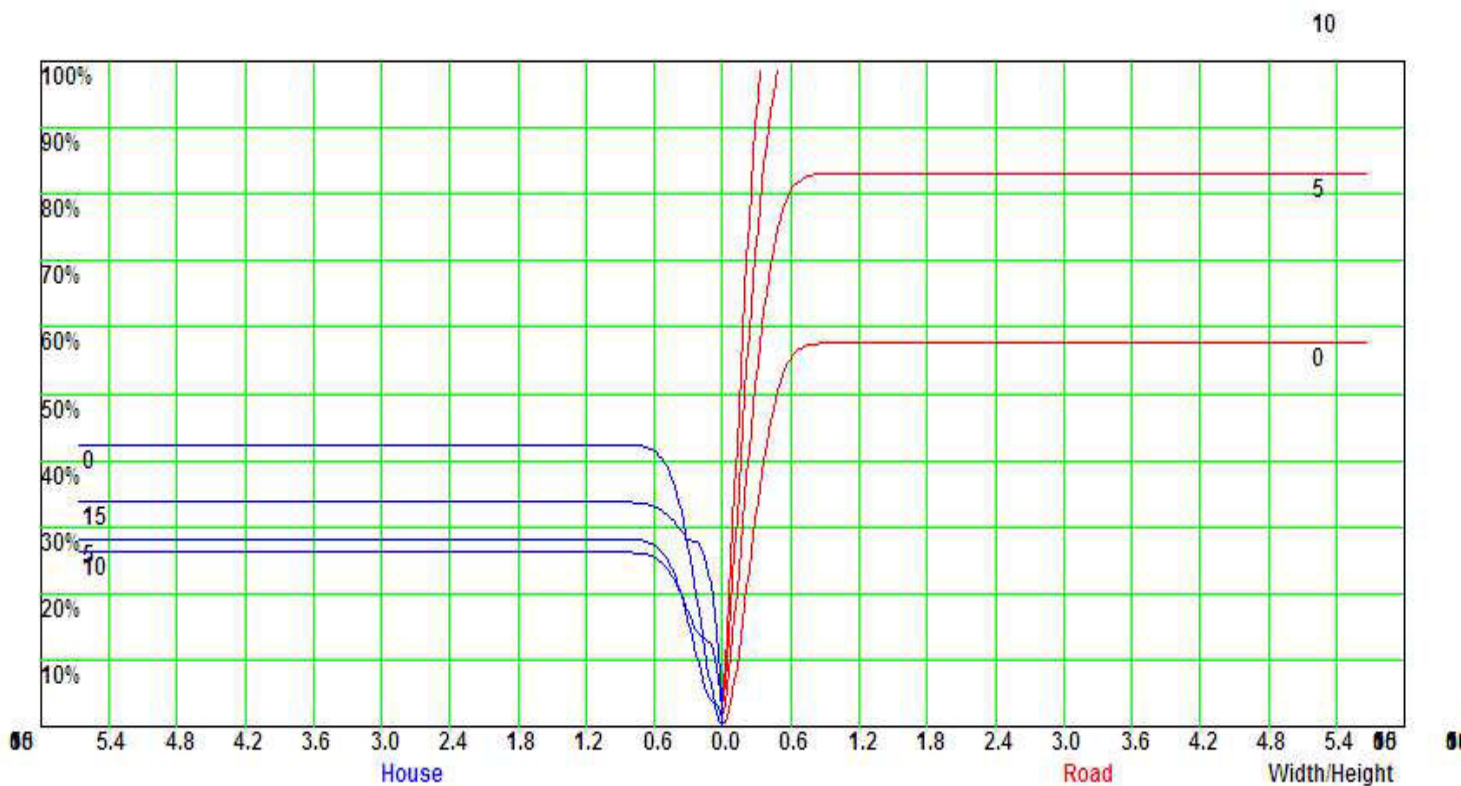
Iso-Candela [cd]



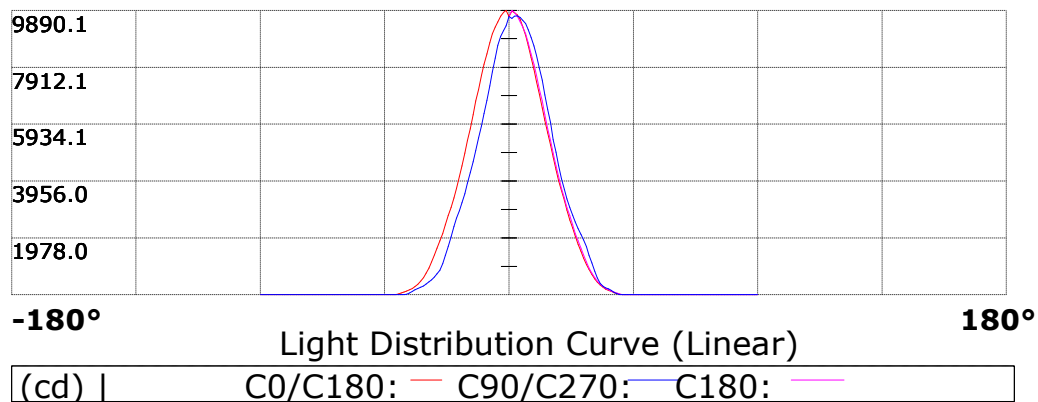
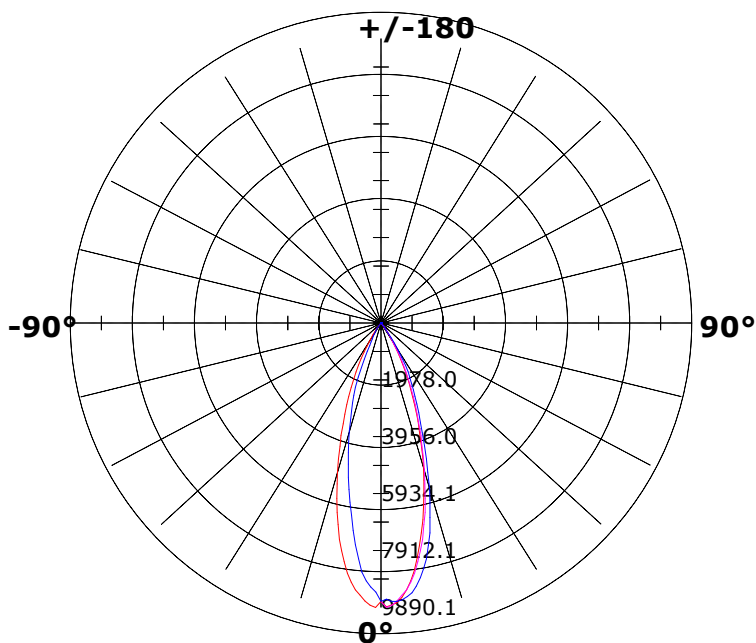
- (10%):989.0146 cd
- (20%):1978.029 cd
- (30%):2967.044 cd
- (40%):3956.059 cd
- (50%):4945.073 cd
- (60%):5934.088 cd
- (70%):6923.103 cd
- (80%):7912.117 cd
- (90%):8901.132 cd
- (100%):9890.146 cd

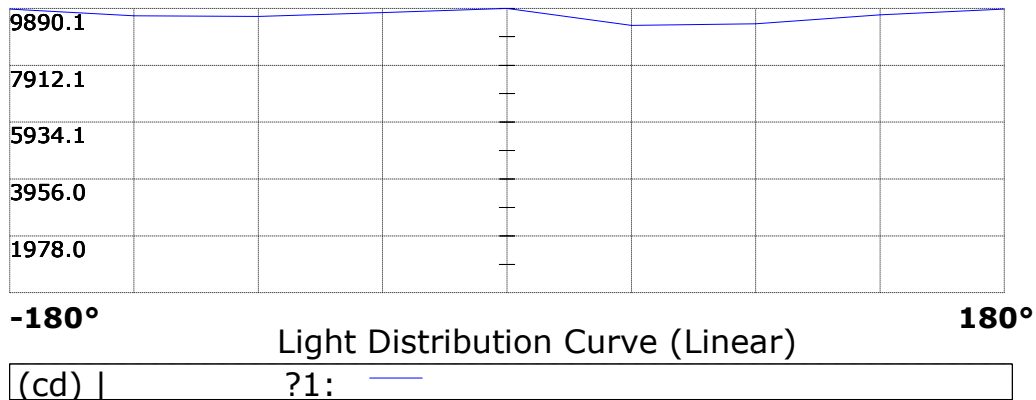
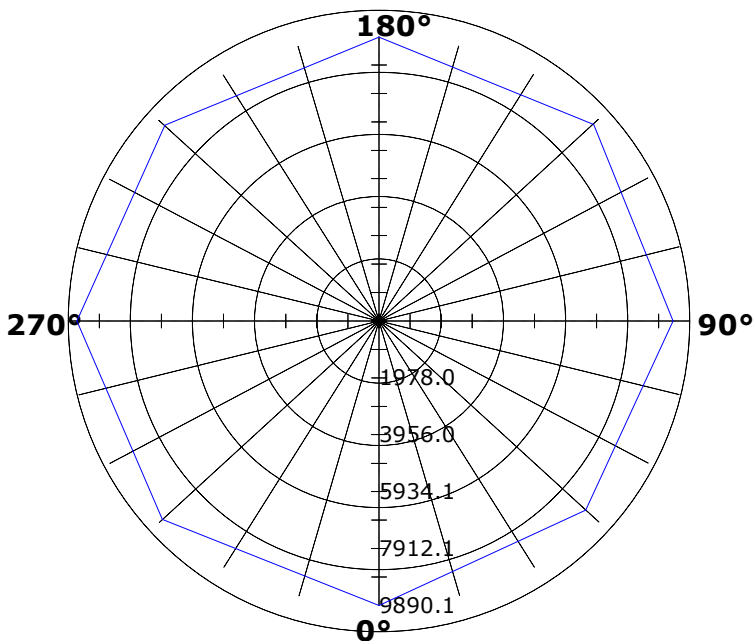


Coefficient Utilization Curve



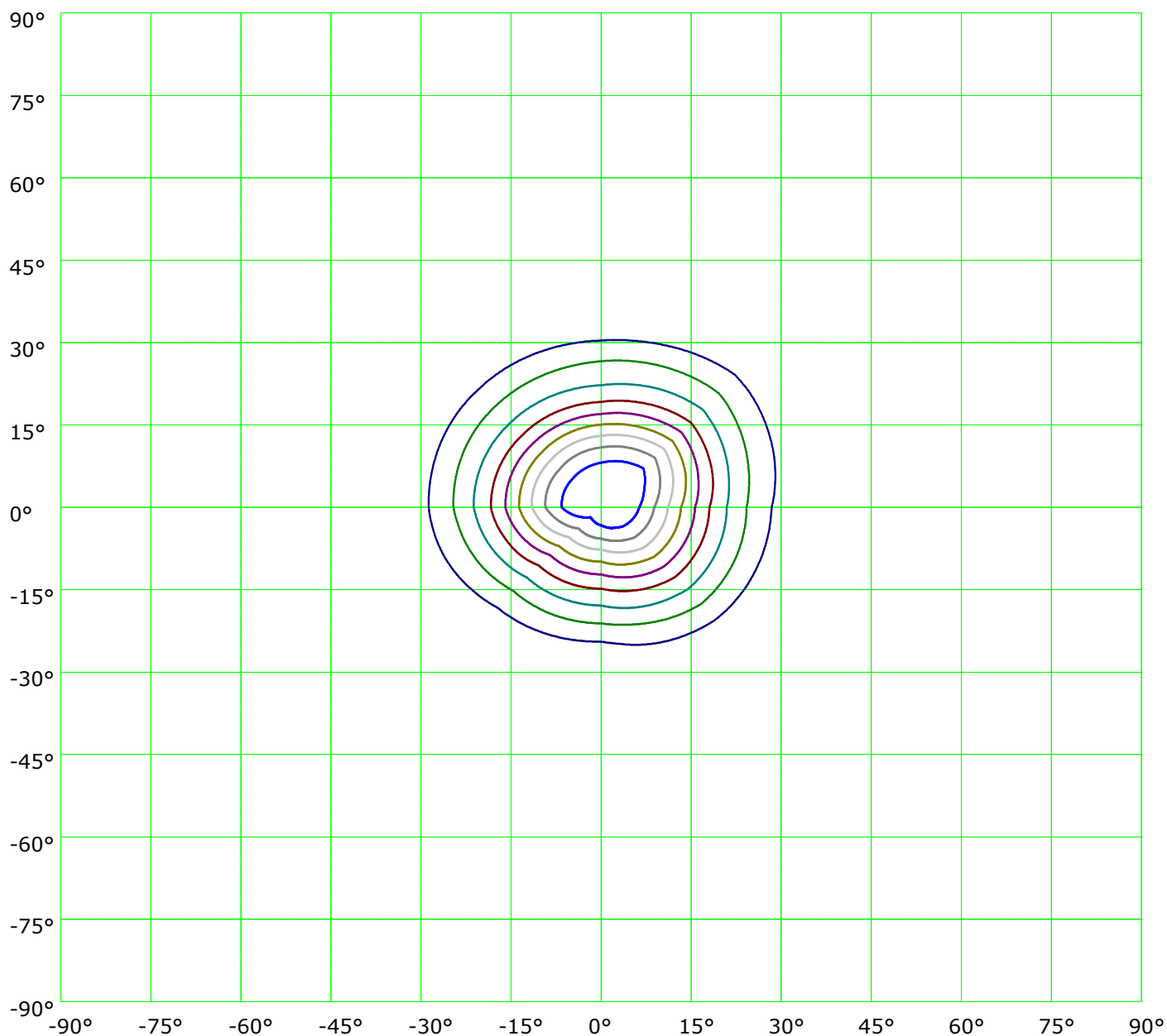
Light Distribution Curve [Unit: cd]







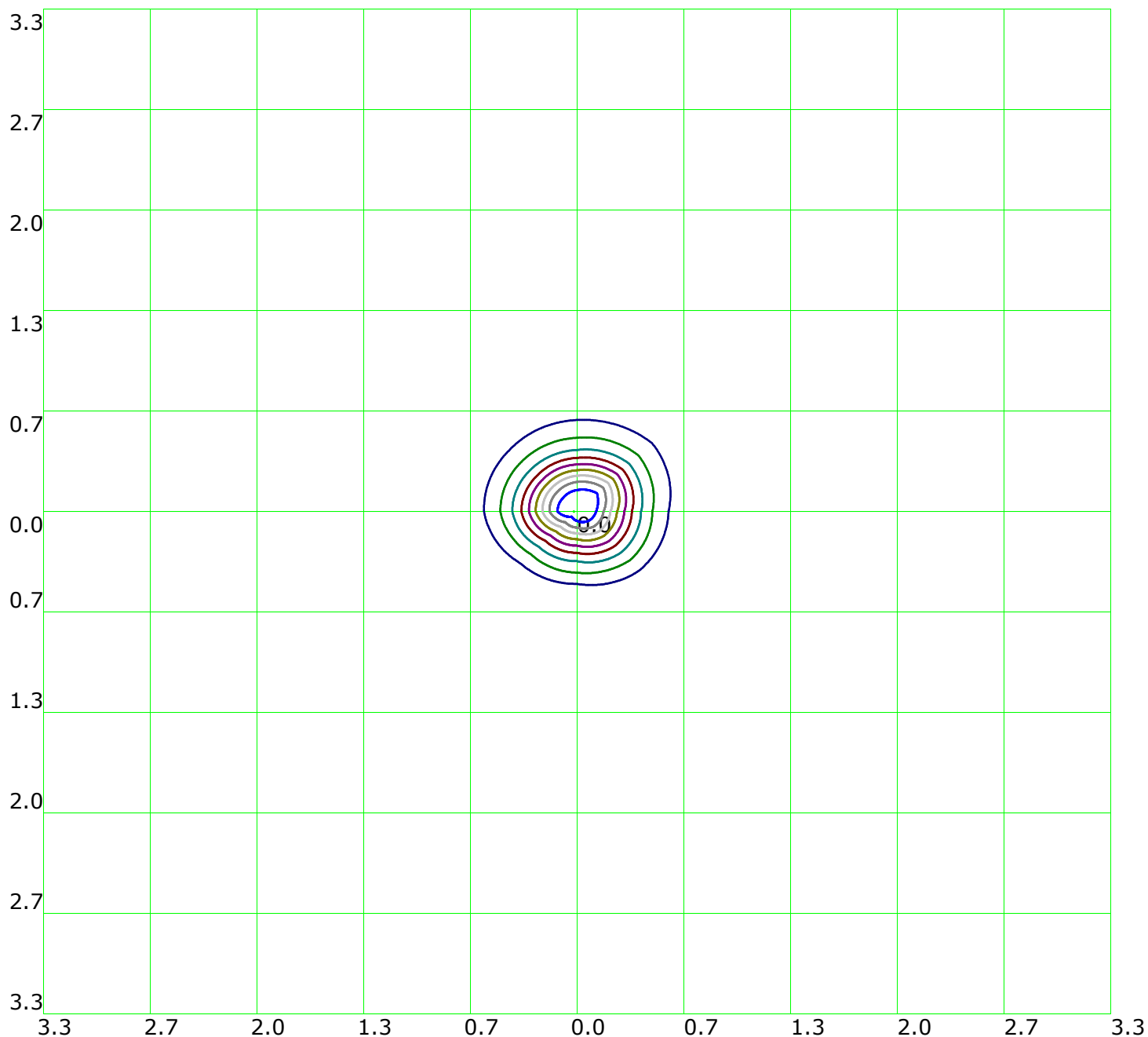
Isocandela(rectangle)



(10%): 989.cd	(20%): 1978.cd	(30%): 2967.cd	(40%): 3956.1cd
(50%): 4945.1cd	(60%): 5934.1cd	(70%): 6923.1cd	(80%): 7912.1cd
(90%): 8901.1cd	(100%): 9890.1cd		



Isolx curve

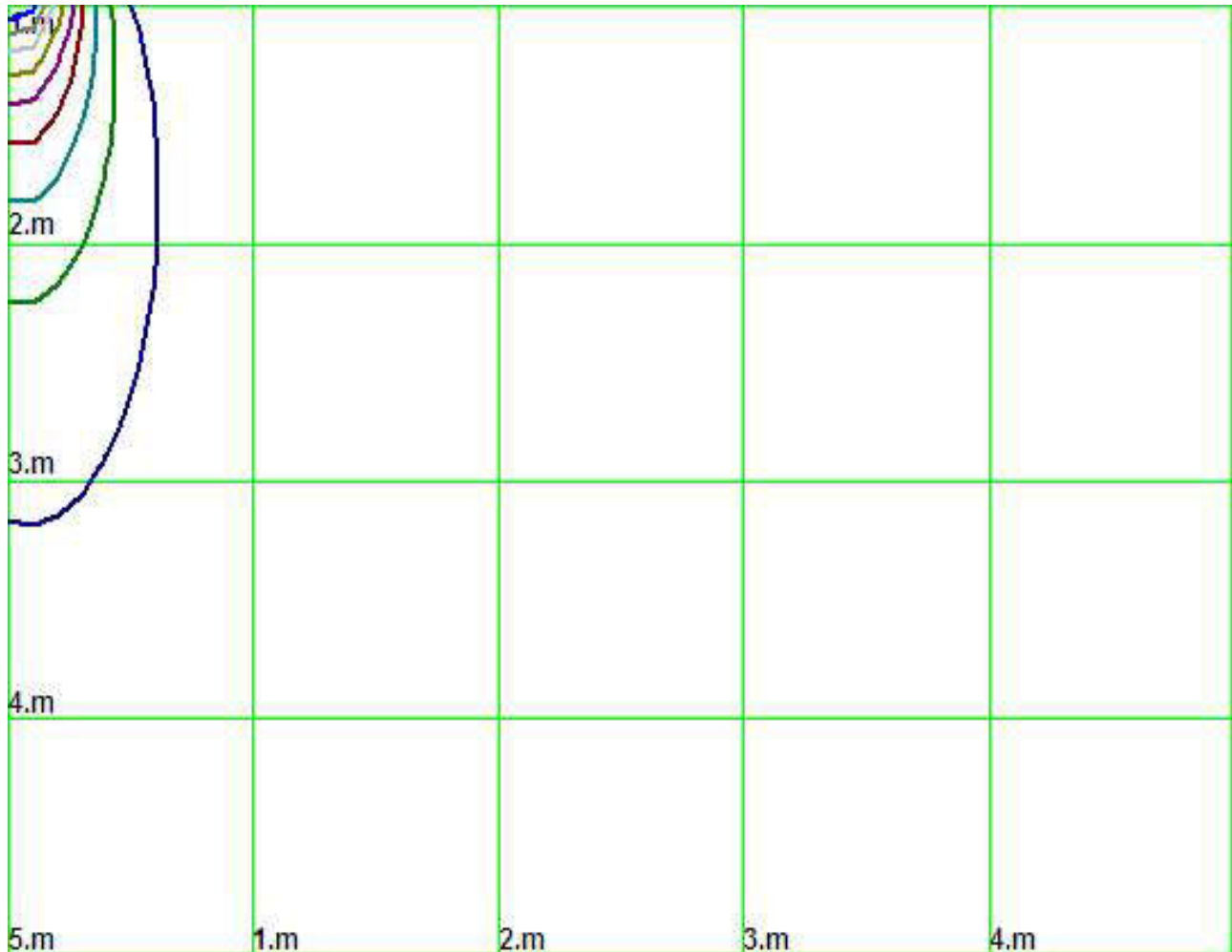


Height: 1 m

- | | | | |
|-------------------|--------------------|-------------------|-------------------|
| — (10%): 989.1lx | — (20%): 1978.1lx | — (30%): 2967.1lx | — (40%): 3956.1lx |
| — (50%): 4945.1lx | — (60%): 5934.1lx | — (70%): 6923.1lx | — (80%): 7912.1lx |
| — (90%): 8901.1lx | — (100%): 9880.3lx | | |



Space Isolx Curve



— (10%): 989.1lx	— (20%): 1978.1lx	— (30%): 2967.1lx	— (40%): 3956.1lx
— (50%): 4945.1lx	— (60%): 5934.1lx	— (70%): 6923.1lx	— (80%): 7912.1lx
— (90%): 8901.1lx	— (100%): 9880.3lx		



Luminance Limiting Curve

Diameter: 1300mm

Length: 1300mm

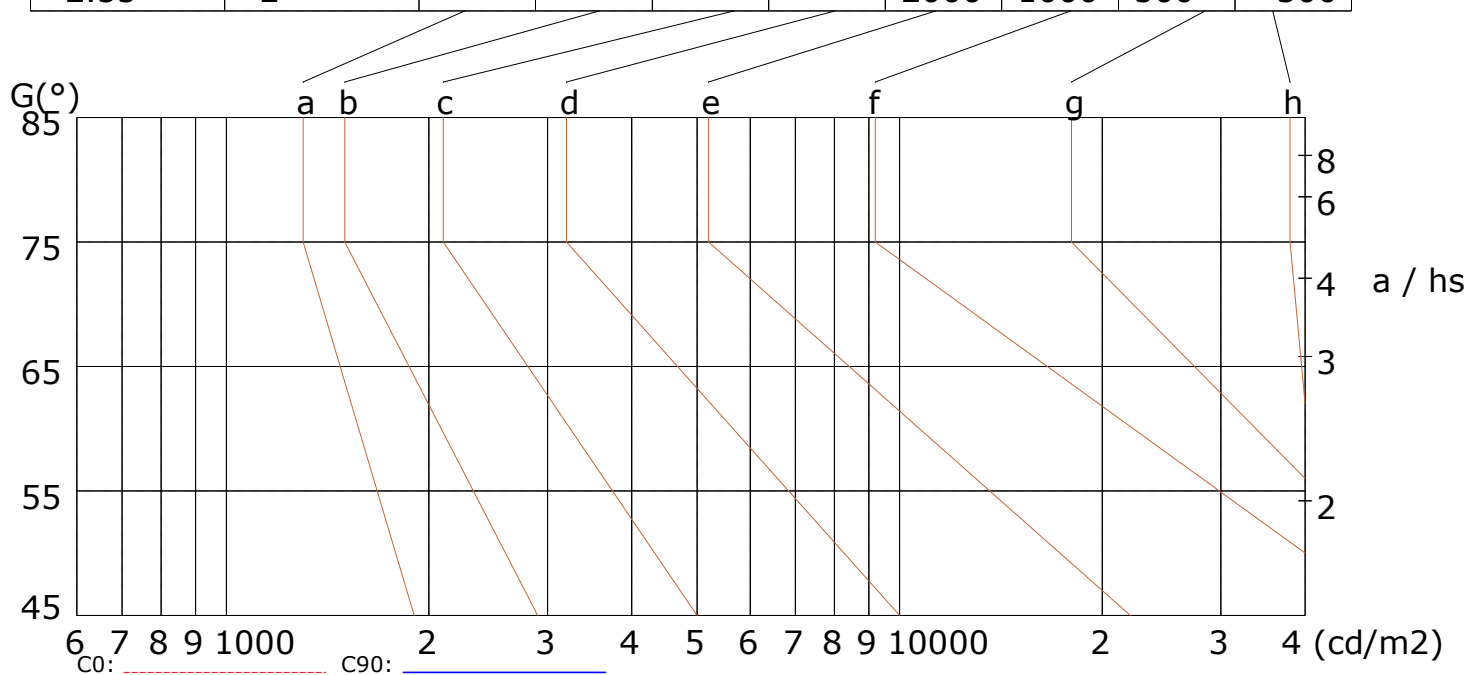
Width: 50mm

Height: 65mm

(cd/m²)

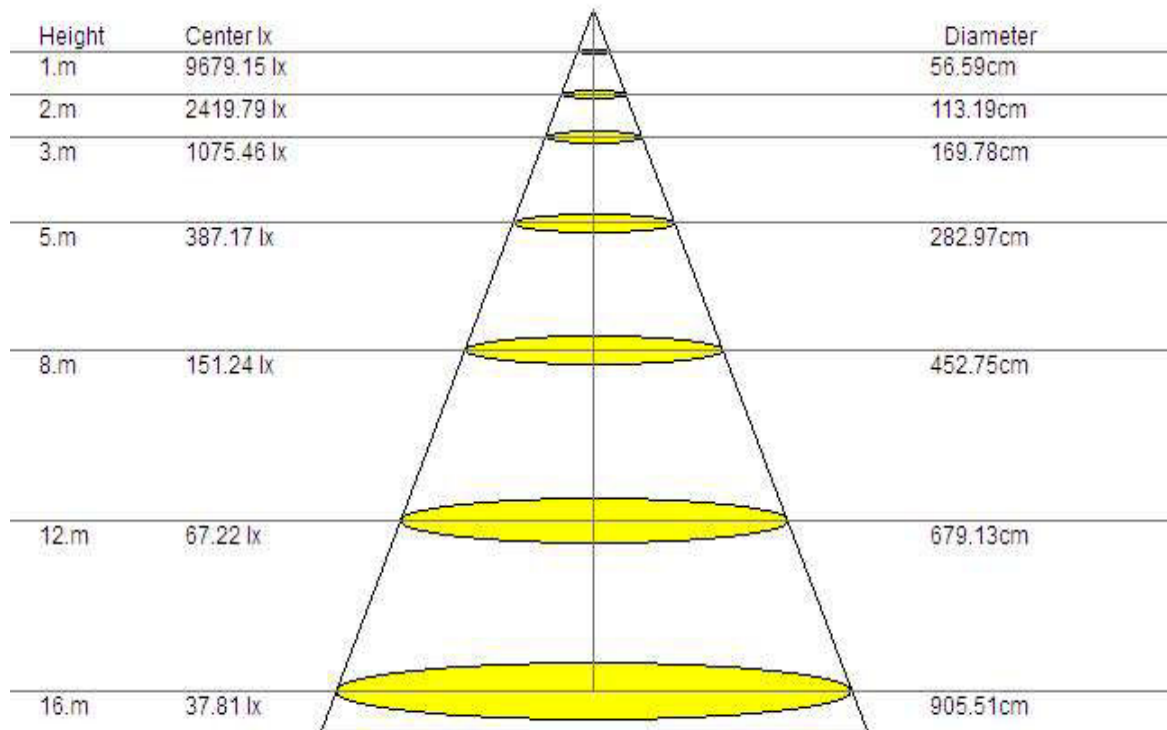
?	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0									
C90									

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. Limiting Curve (C0/C90)

Lux-Distance Curve



Beam Angle: 31.60°(50%Imax)

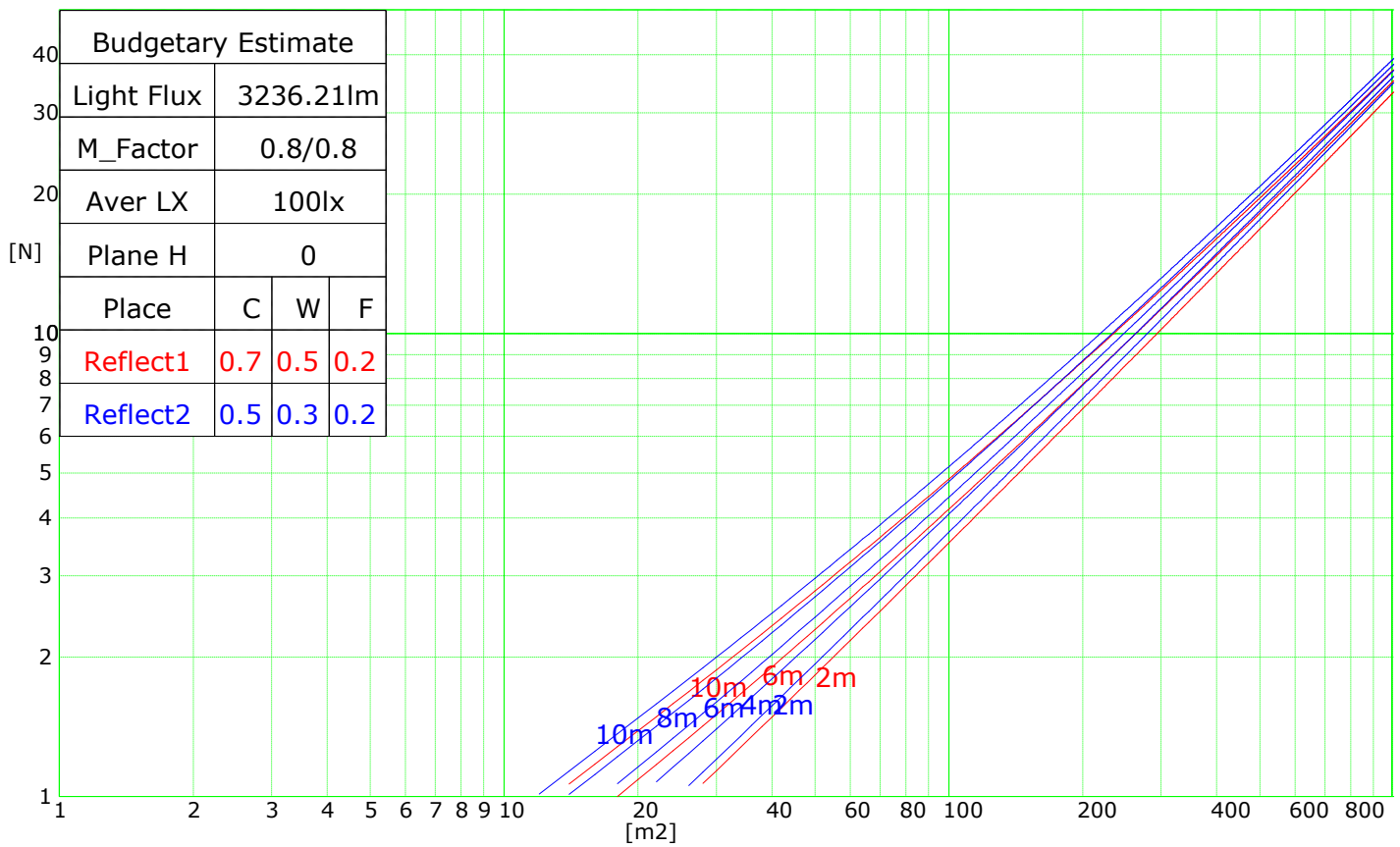


Coefficients of Utilization

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	COEFFICIENTS 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	1.17	1.16	1.15	1.15	1.14	1.13	1.10	1.09	1.08	1.04	1.03	1.03	0.97	0.96	0.95	0.90
2	1.12	1.11	1.10	1.10	1.09	1.08	1.06	1.04	1.03	1.01	0.99	0.98	0.94	0.93	0.91	0.86
3	1.07	1.06	1.06	1.05	1.04	1.03	1.02	1.00	0.98	0.97	0.95	0.93	0.91	0.89	0.87	0.83
4	1.03	1.02	1.01	1.01	1.00	0.99	0.98	0.96	0.94	0.94	0.91	0.89	0.89	0.86	0.84	0.79
5	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.92	0.90	0.90	0.88	0.86	0.86	0.83	0.80	0.76
6	0.95	0.94	0.93	0.94	0.92	0.91	0.91	0.88	0.87	0.87	0.84	0.82	0.83	0.80	0.77	0.73
7	0.92	0.91	0.90	0.90	0.89	0.88	0.87	0.85	0.83	0.84	0.81	0.79	0.81	0.77	0.74	0.71
8	0.88	0.87	0.87	0.87	0.86	0.85	0.84	0.82	0.80	0.81	0.78	0.76	0.78	0.74	0.72	0.68
9	0.85	0.84	0.84	0.84	0.83	0.82	0.81	0.79	0.78	0.79	0.76	0.73	0.76	0.72	0.69	0.66
10	0.82	0.81	0.81	0.81	0.80	0.79	0.79	0.76	0.75	0.76	0.73	0.71	0.73	0.70	0.67	0.64



Indoor Budgetary Estimate Chart





UGR Glare Index

Ceiling	70	70	50	50	30	70	70	50	50	30	
Wall	50	30	50	30	30	50	30	50	30	30	
Floor	20	20	20	20	20	20	20	20	20	20	
Room Size X Y	Weft to light axis direction of observation					Direction of light axis parallel observation					
2H	2H	13.1	14.2	13.3	14.1	14.6	13.0	14.1	13.1	14.2	14.7
	3H	14.5	15.5	14.8	15.9	15.9	14.3	15.4	14.6	15.8	15.9
	4H	15.0	16.1	15.4	16.6	16.7	15.0	16.0	15.4	16.4	16.7
	6H	15.7	16.4	16.0	16.8	16.8	15.5	16.3	15.8	16.8	16.9
	8H	15.8	16.7	16.0	16.9	17.1	15.7	16.6	15.9	16.8	17.1
4H	12H	15.9	16.7	16.1	17.0	17.3	15.7	16.6	16.1	17.0	17.4
	2H	13.9	14.7	14.1	14.9	15.1	13.9	14.7	14.0	15.0	15.0
	3H	15.5	16.4	15.7	16.3	16.7	15.4	16.2	15.6	16.3	16.6
	4H	16.2	16.8	16.4	16.9	17.3	16.0	16.8	16.3	16.9	17.4
	6H	16.7	17.3	17.0	17.5	17.9	16.6	17.3	16.8	17.5	17.8
8H	8H	16.8	17.5	17.2	17.7	18.0	16.9	17.3	17.1	17.7	18.0
	12H	17.1	17.6	17.4	17.8	18.2	17.0	17.5	17.3	17.8	18.1
	4H	16.4	17.0	16.7	17.2	17.6	16.4	17.0	16.6	17.3	17.6
	6H	17.1	17.6	17.5	17.9	18.3	17.0	17.5	17.4	17.9	18.2
	8H	17.6	17.9	17.9	18.2	18.5	17.4	17.8	17.9	18.1	18.7
12H	12H	17.8	18.1	18.1	18.5	18.7	17.5	18.0	18.0	18.5	18.8
	4H	16.5	17.1	16.9	17.4	17.6	16.4	16.9	16.8	17.2	17.6
	6H	17.3	17.8	17.7	17.9	18.4	17.2	17.7	17.6	17.9	18.3
	8H	17.6	18.0	18.1	18.2	18.7	17.5	17.9	18.0	18.3	18.7