



Luminaire Property

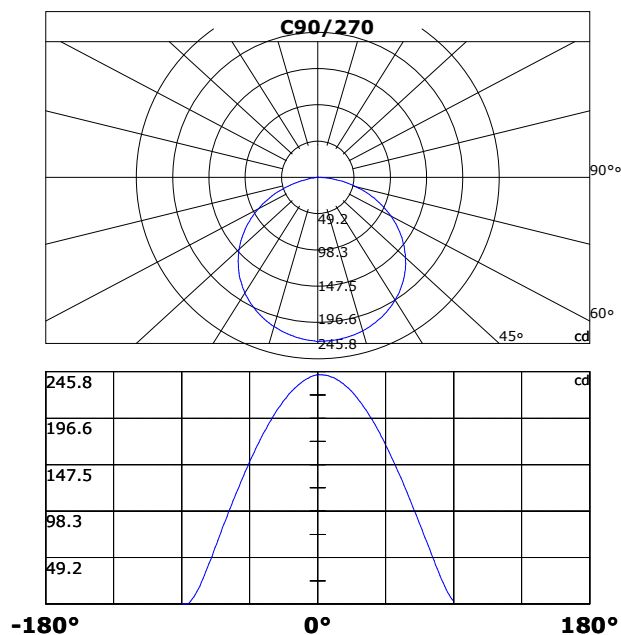
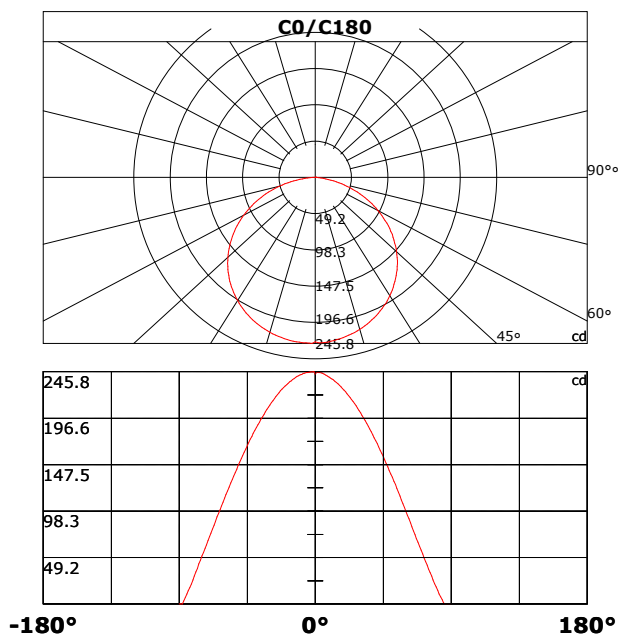
Luminaire Description: B1271-5-BF
Luminaire Category: DOWNLIGHT SLIM 12W
Lamp Category:
Lamp Description: BLANCO FRIO 6000K
Number of Lamp: 1
Lamp Lumens(lm): NA
Luminous Length(m): 0.17
Luminous Width(m): 0.17
Luminous Height(m): 0.005

Voltage: 231.4 V
Current: 0.098 A
Power: 12.72 W
Power Factor: 0.560
Test Lab: BLED
Photometric Type: Type C
Manufactory:

Photometric Results

CIE Class: Direct
Effective Luminous Flux: 672.63 lm
Efficiency: 53.6667 lm/W
Central Intensity: 243.501cd
Max. Intensity: 245.781cd
Field Angle(10%Imax): NA

Max.Intensity Angle: C:180.0 G:1.0
Beam Angle(50%Imax): L: -56.2 R:54.9
Luminaire Efficacy Rating(LER) : 100.00%
Upward Ratio: NA
Downward Ratio: NA
Beamwidth(50%Imax): H=115.97V=116.12





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	243.5	245.4	245.2	245.0	244.6	243.9	243.1	242.2	241.3	240.4
C45.0	243.5	241.6	241.7	241.6	241.6	241.5	241.1	240.7	240.3	239.7
C90.0	243.5	242.5	242.5	242.5	242.3	242.1	241.9	241.5	240.9	240.3
C135.0	243.5	243.7	243.9	243.8	243.6	243.3	243.0	242.6	242.1	241.6
C180.0	243.5	245.8	245.7	245.6	245.4	245.0	244.8	244.4	243.9	243.1
C225.0	243.5	241.1	240.8	240.3	239.8	239.3	238.7	237.9	237.1	236.1
C270.0	243.5	242.1	241.8	241.5	240.8	240.1	239.3	238.5	237.5	236.4
C315.0	243.5	243.5	243.2	243.0	242.4	241.8	241.2	240.6	239.7	238.9
C360.0	243.5	245.4	245.2	245.0	244.6	243.9	243.1	242.2	241.3	240.4
C\G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	239.3	238.2	237.1	235.7	234.4	233.1	231.4	229.9	228.2	226.5
C45.0	239.2	238.6	237.6	236.9	235.9	234.9	233.8	232.5	231.3	230.0
C90.0	239.7	239.0	238.2	237.2	236.3	235.3	234.1	233.0	231.5	230.1
C135.0	240.9	240.1	239.2	238.4	237.4	236.1	235.1	233.8	232.5	231.1
C180.0	242.4	241.7	240.7	239.7	238.7	237.6	236.2	235.1	233.6	232.0
C225.0	235.2	233.9	232.7	231.6	230.3	228.9	227.3	225.6	224.0	222.3
C270.0	235.4	234.1	232.9	231.7	230.2	228.7	227.2	225.5	223.9	222.1
C315.0	237.9	236.9	235.8	234.4	233.2	231.8	230.5	228.8	227.2	225.5
C360.0	239.3	238.2	237.1	235.7	234.4	233.1	231.4	229.9	228.2	226.5
C\G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	224.5	222.7	220.6	218.6	216.5	214.3	212.0	209.8	207.3	204.7
C45.0	228.5	227.0	225.4	223.8	222.1	220.4	218.3	216.4	214.5	212.2
C90.0	228.7	227.2	225.6	223.8	222.1	220.2	218.2	216.3	214.2	212.0
C135.0	229.5	228.0	226.3	224.8	222.6	220.9	218.9	216.8	214.8	212.4
C180.0	230.7	228.8	227.3	225.5	223.5	221.7	219.5	217.5	215.2	213.1
C225.0	220.5	218.5	216.6	214.6	212.5	210.3	208.0	205.6	203.3	200.8
C270.0	220.0	218.0	216.1	214.0	211.7	209.5	207.3	205.0	202.5	200.0
C315.0	223.9	222.0	220.0	218.0	215.9	213.9	211.6	209.1	206.9	204.5
C360.0	224.5	222.7	220.6	218.6	216.5	214.3	212.0	209.8	207.3	204.7
C\G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	202.3	199.5	197.0	194.1	191.0	188.1	185.3	182.4	179.1	176.0
C45.0	210.0	207.7	205.5	203.1	200.7	198.1	195.4	192.9	190.1	187.1
C90.0	209.6	207.3	205.2	202.7	200.3	197.5	195.0	192.2	189.5	186.9
C135.0	210.2	207.8	205.6	202.8	200.4	197.9	195.1	192.6	189.4	186.6
C180.0	210.5	208.3	205.8	203.3	200.6	197.9	195.4	192.5	189.6	186.5
C225.0	198.1	195.6	193.0	190.2	187.3	184.4	181.4	178.1	174.7	171.4
C270.0	197.3	194.6	192.1	188.9	186.1	183.2	180.6	177.3	174.0	170.9
C315.0	202.0	199.3	196.6	193.8	191.2	188.2	185.2	182.2	179.1	176.0
C360.0	202.3	199.5	197.0	194.1	191.0	188.1	185.3	182.4	179.1	176.0



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	172.7	169.6	166.3	162.6	159.2	155.8	152.4	148.4	145.0	141.4
C45.0	184.4	181.5	178.5	175.6	172.1	169.4	165.9	162.9	159.1	156.1
C90.0	183.6	180.9	177.7	174.8	171.4	168.1	165.2	161.7	158.1	154.9
C135.0	183.8	180.6	177.3	174.4	171.1	168.3	164.7	161.2	157.6	154.5
C180.0	183.6	180.7	177.3	174.4	170.8	167.7	164.1	160.8	157.1	153.8
C225.0	168.3	164.9	161.3	157.5	153.8	150.2	146.3	141.9	137.9	134.5
C270.0	167.6	164.5	160.9	157.5	154.2	150.8	147.3	143.3	140.0	136.2
C315.0	172.5	169.3	165.9	162.5	158.6	154.9	151.0	147.1	142.5	138.3
C360.0	172.7	169.6	166.3	162.6	159.2	155.8	152.4	148.4	145.0	141.4
C\G	G50.0	G51.0	G52.0	G53.0	G54.0	G55.0	G56.0	G57.0	G58.0	G59.0
C0.0	137.8	134.1	130.0	126.3	122.5	118.5	114.3	110.3	106.2	102.2
C45.0	152.5	149.2	145.7	141.8	138.5	134.8	131.2	127.1	123.4	119.9
C90.0	151.5	148.0	144.7	140.7	137.2	133.5	130.0	126.2	122.1	118.4
C135.0	150.8	147.1	143.5	139.8	136.4	132.5	128.6	124.7	120.8	117.2
C180.0	150.1	146.7	142.7	139.0	135.4	131.8	128.0	123.7	119.8	116.1
C225.0	131.2	127.1	123.3	119.2	115.5	111.8	107.3	103.3	99.3	95.4
C270.0	132.7	128.7	124.9	121.1	117.4	113.0	109.2	105.2	101.2	97.2
C315.0	135.0	131.7	128.2	124.2	120.1	115.7	111.5	107.6	103.8	99.5
C360.0	137.8	134.1	130.0	126.3	122.5	118.5	114.3	110.3	106.2	102.2
C\G	G60.0	G61.0	G62.0	G63.0	G64.0	G65.0	G66.0	G67.0	G68.0	G69.0
C0.0	98.3	93.9	90.0	85.9	81.8	77.5	73.4	69.3	65.5	61.2
C45.0	115.9	112.3	107.9	104.1	100.5	96.5	92.4	88.3	84.7	80.4
C90.0	114.7	110.7	106.6	102.8	98.8	95.0	90.5	86.8	82.7	78.7
C135.0	112.7	109.0	104.9	101.0	97.2	92.5	88.9	84.6	80.9	76.5
C180.0	112.3	107.7	103.8	100.0	95.8	92.2	87.3	83.5	79.4	75.1
C225.0	91.2	87.3	83.6	79.7	75.4	71.3	67.1	63.3	59.5	55.3
C270.0	92.9	88.7	84.8	80.6	76.4	71.8	67.7	63.5	59.6	55.1
C315.0	95.1	91.6	87.1	83.0	79.1	74.8	70.6	66.6	62.7	58.8
C360.0	98.3	93.9	90.0	85.9	81.8	77.5	73.4	69.3	65.5	61.2
C\G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	57.0	52.9	49.1	44.8	41.2	37.1	33.2	29.5	25.5	21.7
C45.0	76.7	72.7	68.4	64.7	60.5	56.5	52.7	48.5	45.2	41.1
C90.0	74.7	70.2	66.4	62.2	57.9	54.1	49.5	45.8	41.4	37.8
C135.0	72.3	68.2	64.2	60.1	56.0	52.3	48.1	44.2	40.3	36.6
C180.0	71.5	67.1	62.5	59.0	54.7	51.0	46.1	42.3	37.8	34.0
C225.0	51.6	47.6	43.6	39.8	35.8	31.6	28.0	24.0	20.5	16.8
C270.0	50.8	46.6	42.6	38.3	34.3	30.5	26.6	22.9	19.3	15.9
C315.0	54.7	50.5	46.7	42.3	38.3	34.4	30.5	26.8	23.1	19.6
C360.0	57.0	52.9	49.1	44.8	41.2	37.1	33.2	29.5	25.5	21.7



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	18.2	14.4	10.8	7.7	4.5	1.3	0.0	0.0	0.0	0.0
C45.0	37.2	33.5	29.9	26.2	22.6	19.3	15.9	12.6	9.4	6.4
C90.0	33.8	29.8	26.0	22.4	18.9	15.6	12.4	9.6	7.2	5.0
C135.0	32.6	28.5	24.5	20.6	17.2	13.8	10.7	7.8	5.1	3.0
C180.0	29.7	25.4	21.3	17.6	14.1	10.5	6.8	3.3	0.0	0.0
C225.0	13.7	10.5	7.5	4.9	2.8	1.0	0.0	0.0	0.0	0.0
C270.0	12.9	10.0	7.5	5.4	3.4	1.5	0.0	0.0	0.0	0.0
C315.0	16.6	13.4	10.3	7.5	5.0	2.5	0.8	0.0	0.0	0.0
C360.0	18.2	14.4	10.8	7.7	4.5	1.3	0.0	0.0	0.0	0.0
C\G	G90.0									
C0.0	0.0									
C45.0	3.6									
C90.0	3.0									
C135.0	1.2									
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	243.50	0.00	0.00	0.00	0.00
0.0-1.0	243.21	0.23	0.23	0.03	0.03
1.0-2.0	243.09	0.70	0.93	0.10	0.14
2.0-3.0	242.91	1.16	2.09	0.17	0.31
3.0-4.0	242.56	1.63	3.72	0.24	0.54
4.0-5.0	242.14	2.09	5.80	0.31	0.85
5.0-6.0	241.66	2.54	8.35	0.37	1.22
6.0-7.0	241.06	3.00	11.34	0.44	1.66
7.0-8.0	240.35	3.45	14.79	0.50	2.17
8.0-9.0	239.57	3.89	18.68	0.57	2.74
9.0-10.0	238.77	4.33	23.01	0.63	3.37
10.0-11.0	237.81	4.76	27.77	0.70	4.07
11.0-12.0	236.78	5.19	32.96	0.76	4.83
12.0-13.0	235.71	5.61	38.56	0.82	5.65
13.0-14.0	234.56	6.02	44.58	0.88	6.53
14.0-15.0	233.31	6.42	51.01	0.94	7.47
15.0-16.0	231.95	6.82	57.82	1.00	8.47
16.0-17.0	230.53	7.20	65.02	1.06	9.53
17.0-18.0	229.02	7.58	72.60	1.11	10.64
18.0-19.0	227.45	7.94	80.54	1.16	11.80
19.0-20.0	225.78	8.30	88.84	1.22	13.01
20.0-21.0	224.03	8.64	97.48	1.27	14.28
21.0-22.0	222.23	8.97	106.44	1.31	15.59
22.0-23.0	220.39	9.29	115.73	1.36	16.95
23.0-24.0	218.38	9.59	125.32	1.41	18.36
24.0-25.0	216.40	9.89	135.21	1.45	19.81
25.0-26.0	214.21	10.16	145.38	1.49	21.30
26.0-27.0	212.06	10.43	155.80	1.53	22.82
27.0-28.0	209.83	10.68	166.49	1.56	24.39
28.0-29.0	207.46	10.92	177.40	1.60	25.99
29.0-30.0	205.01	11.14	188.54	1.63	27.62
30.0-31.0	202.53	11.34	199.88	1.66	29.28
31.0-32.0	200.11	11.54	211.42	1.69	30.97
32.0-33.0	197.37	11.71	223.12	1.72	32.69
33.0-34.0	194.69	11.86	234.99	1.74	34.42
34.0-35.0	191.94	12.01	247.00	1.76	36.18
35.0-36.0	189.19	12.13	259.13	1.78	37.96
36.0-37.0	186.27	12.25	271.38	1.79	39.75
37.0-38.0	183.19	12.33	283.71	1.81	41.56
38.0-39.0	180.17	12.40	296.11	1.82	43.38
39.0-40.0	177.06	12.46	308.57	1.83	45.20



Zonal Luminous Flux Data

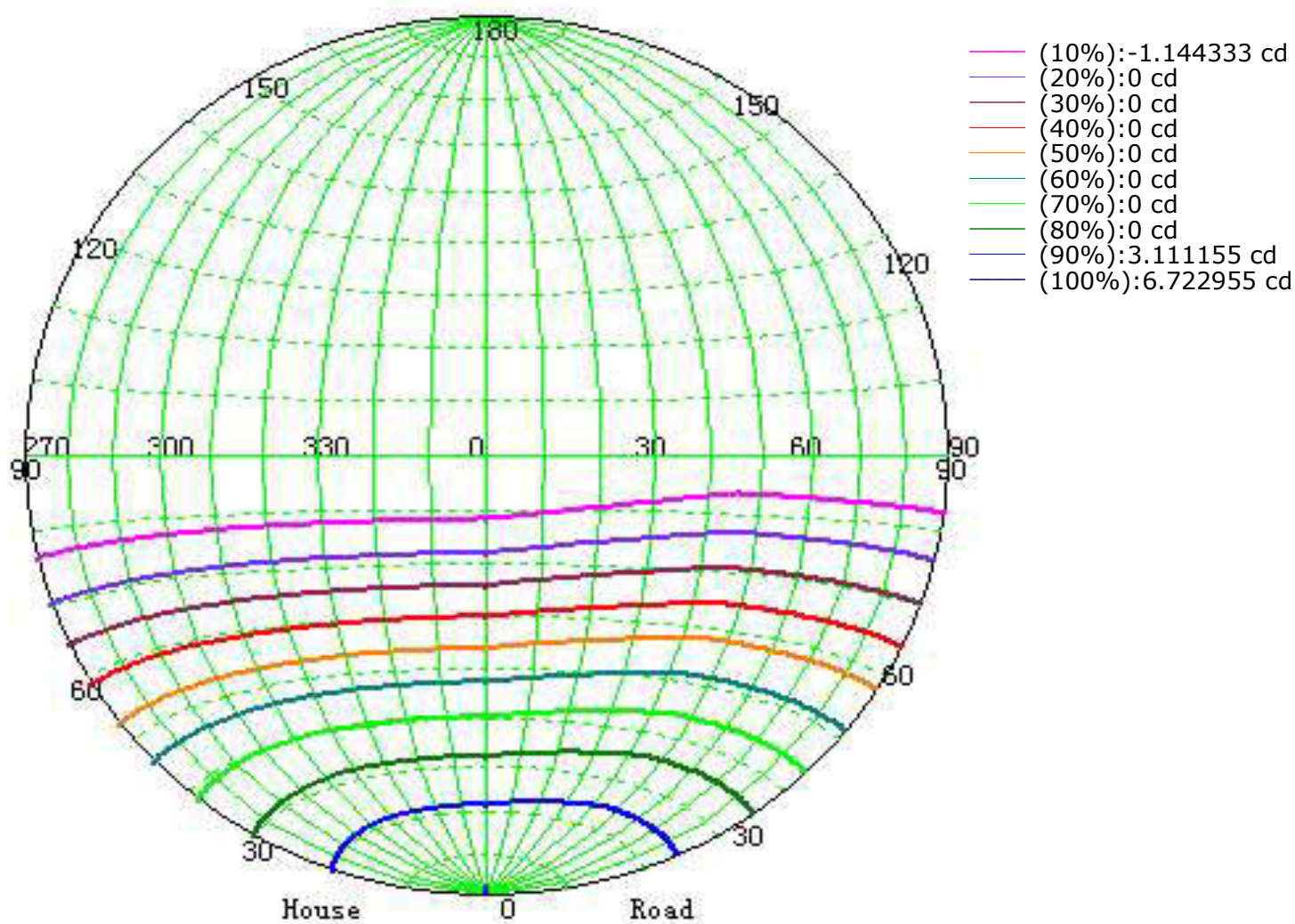
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
40.0-41.0	173.99	12.50	321.07	1.83	47.03
41.0-42.0	170.66	12.52	333.59	1.83	48.87
42.0-43.0	167.42	12.52	346.12	1.83	50.70
43.0-44.0	163.90	12.50	358.62	1.83	52.53
44.0-45.0	160.65	12.47	371.09	1.83	54.36
45.0-46.0	157.10	12.43	383.52	1.82	56.18
46.0-47.0	153.43	12.35	395.87	1.81	57.99
47.0-48.0	149.68	12.25	408.13	1.79	59.79
48.0-49.0	146.22	12.15	420.28	1.78	61.57
49.0-50.0	142.69	12.05	432.32	1.76	63.33
50.0-51.0	139.08	11.92	444.24	1.75	65.08
51.0-52.0	135.36	11.78	456.02	1.73	66.80
52.0-53.0	131.49	11.61	467.63	1.70	68.50
53.0-54.0	127.86	11.43	479.06	1.67	70.18
54.0-55.0	123.94	11.24	490.30	1.65	71.82
55.0-56.0	120.00	11.02	501.32	1.61	73.44
56.0-57.0	116.00	10.79	512.11	1.58	75.02
57.0-58.0	112.07	10.55	522.66	1.55	76.56
58.0-59.0	108.24	10.30	532.96	1.51	78.07
59.0-60.0	104.13	10.03	542.99	1.47	79.54
60.0-61.0	100.16	9.75	552.74	1.43	80.97
61.0-62.0	96.09	9.46	562.20	1.39	82.36
62.0-63.0	92.13	9.15	571.35	1.34	83.70
63.0-64.0	88.14	8.85	580.20	1.30	84.99
64.0-65.0	83.96	8.52	588.71	1.25	86.24
65.0-66.0	79.74	8.17	596.88	1.20	87.44
66.0-67.0	75.73	7.82	604.70	1.15	88.58
67.0-68.0	71.88	7.48	612.18	1.10	89.68
68.0-69.0	67.63	7.12	619.29	1.04	90.72
69.0-70.0	63.66	6.74	626.04	0.99	91.71
70.0-71.0	59.46	6.36	632.40	0.93	92.64
71.0-72.0	55.44	5.97	638.37	0.88	93.52
72.0-73.0	51.38	5.59	643.96	0.82	94.33
73.0-74.0	47.36	5.19	649.15	0.76	95.09
74.0-75.0	43.44	4.80	653.95	0.70	95.80
75.0-76.0	39.33	4.39	658.34	0.64	96.44
76.0-77.0	35.51	3.99	662.33	0.58	97.03
77.0-78.0	31.64	3.59	665.93	0.53	97.55
78.0-79.0	27.94	3.20	669.13	0.47	98.02
79.0-80.0	24.34	2.82	671.95	0.41	98.43
80.0-81.0	20.68	2.43	674.38	0.36	98.79



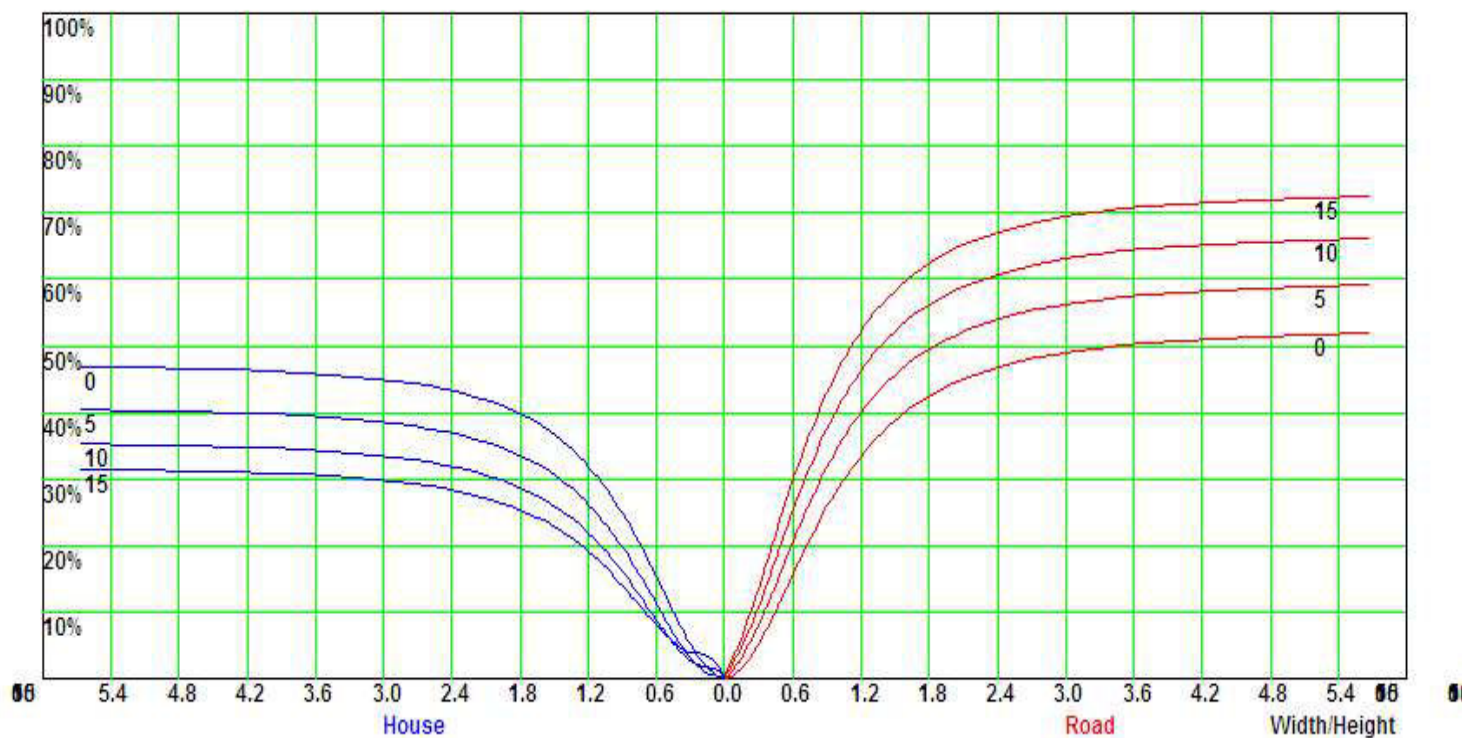
Zonal Luminous Flux Data

[illegible]

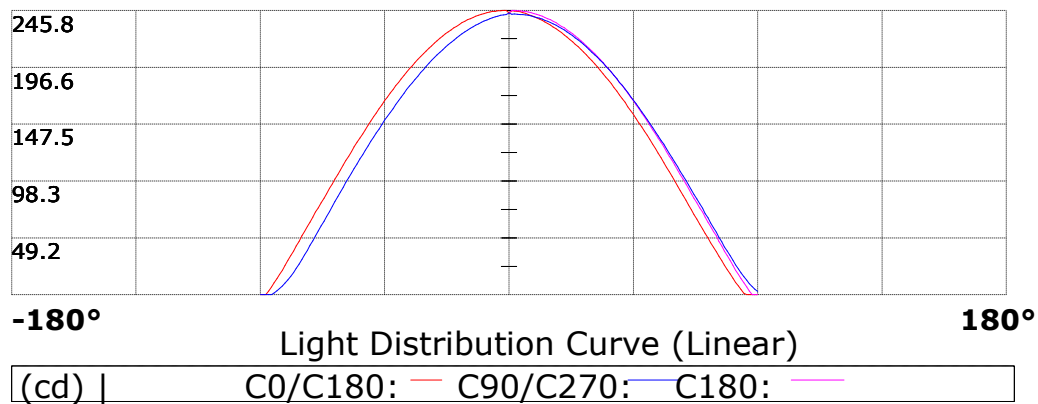
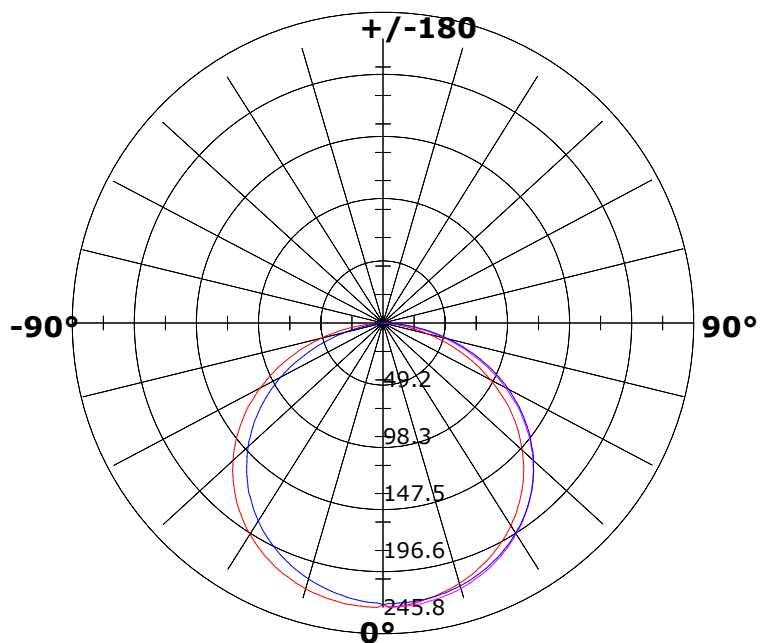
Iso-Candela [cd]

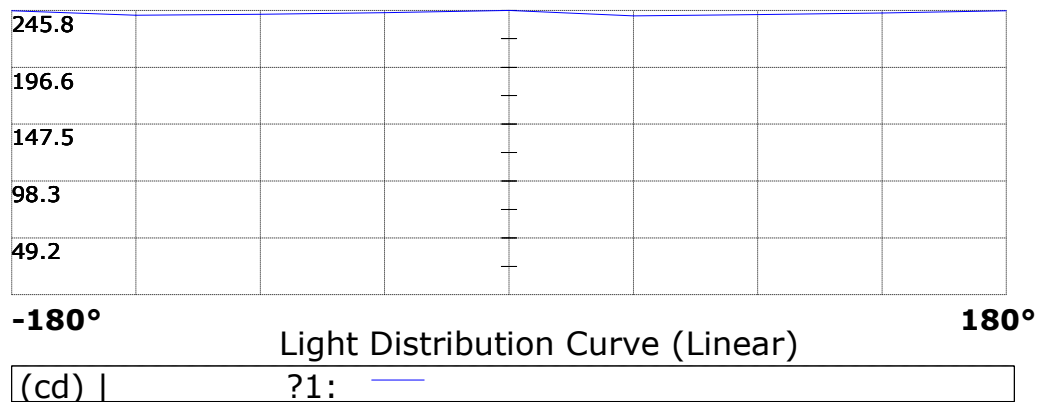
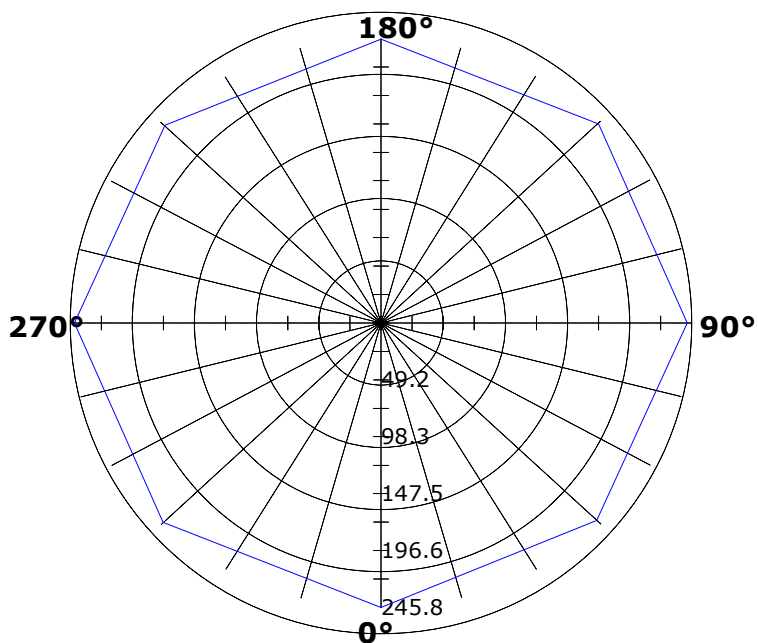


Coefficient Utilization Curve

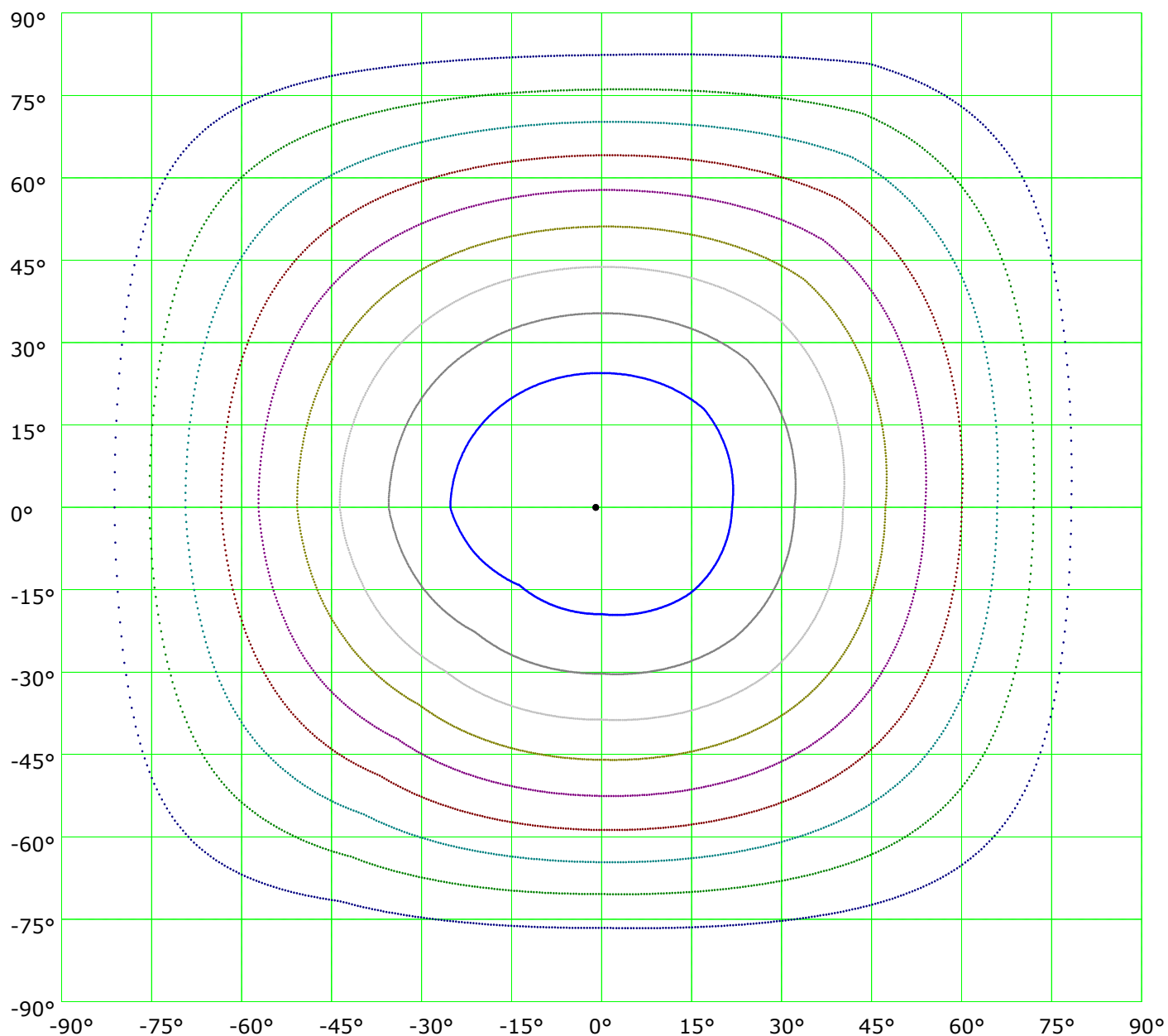


Light Distribution Curve [Unit: cd]



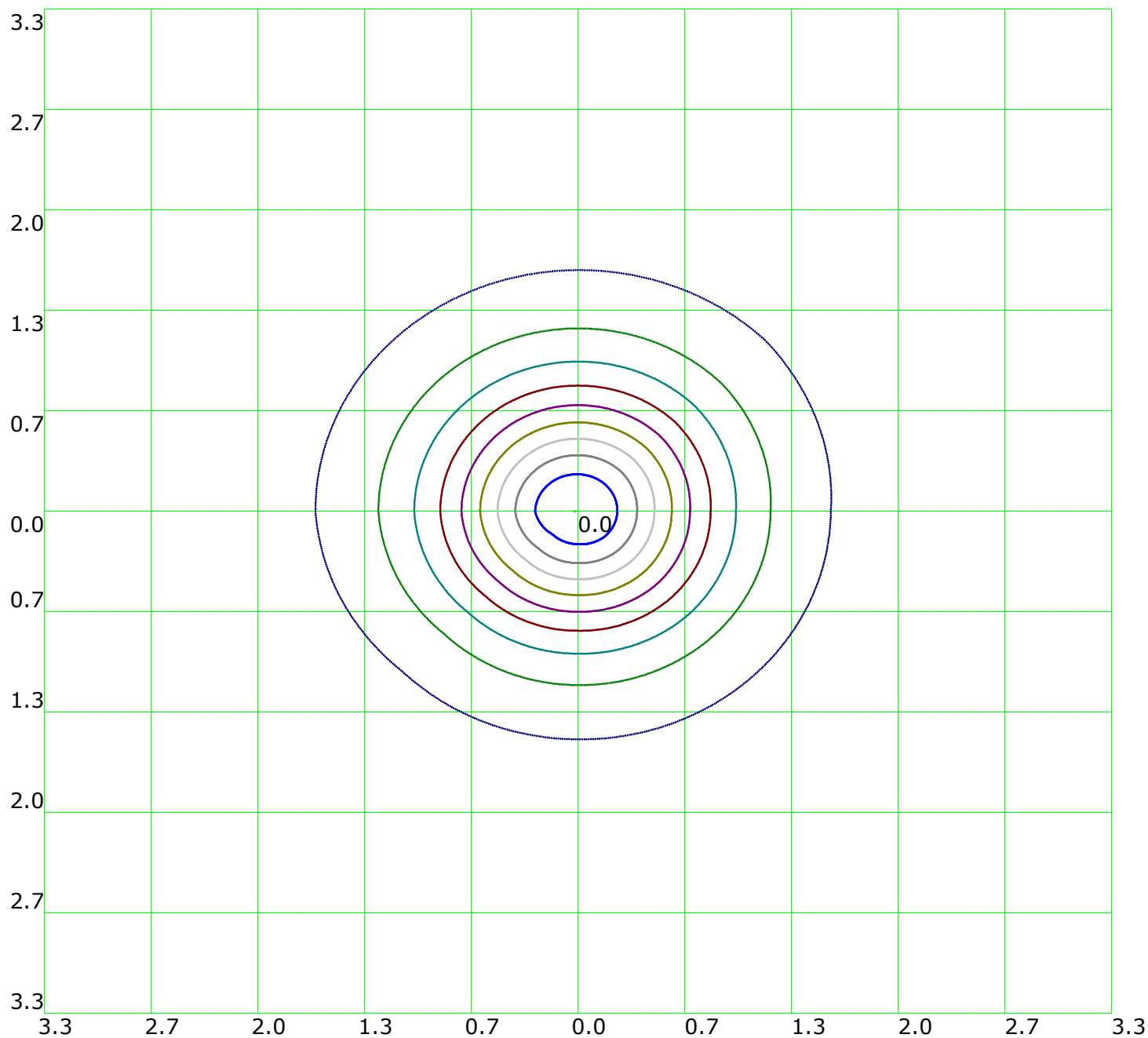


Isocandela(rectangle)



(10%): 24.6cd	(20%): 49.2cd	(30%): 73.7cd	(40%): 98.3cd
(50%): 122.9cd	(60%): 147.5cd	(70%): 172.cd	(80%): 196.6cd
(90%): 221.2cd	(100%): 245.8cd		

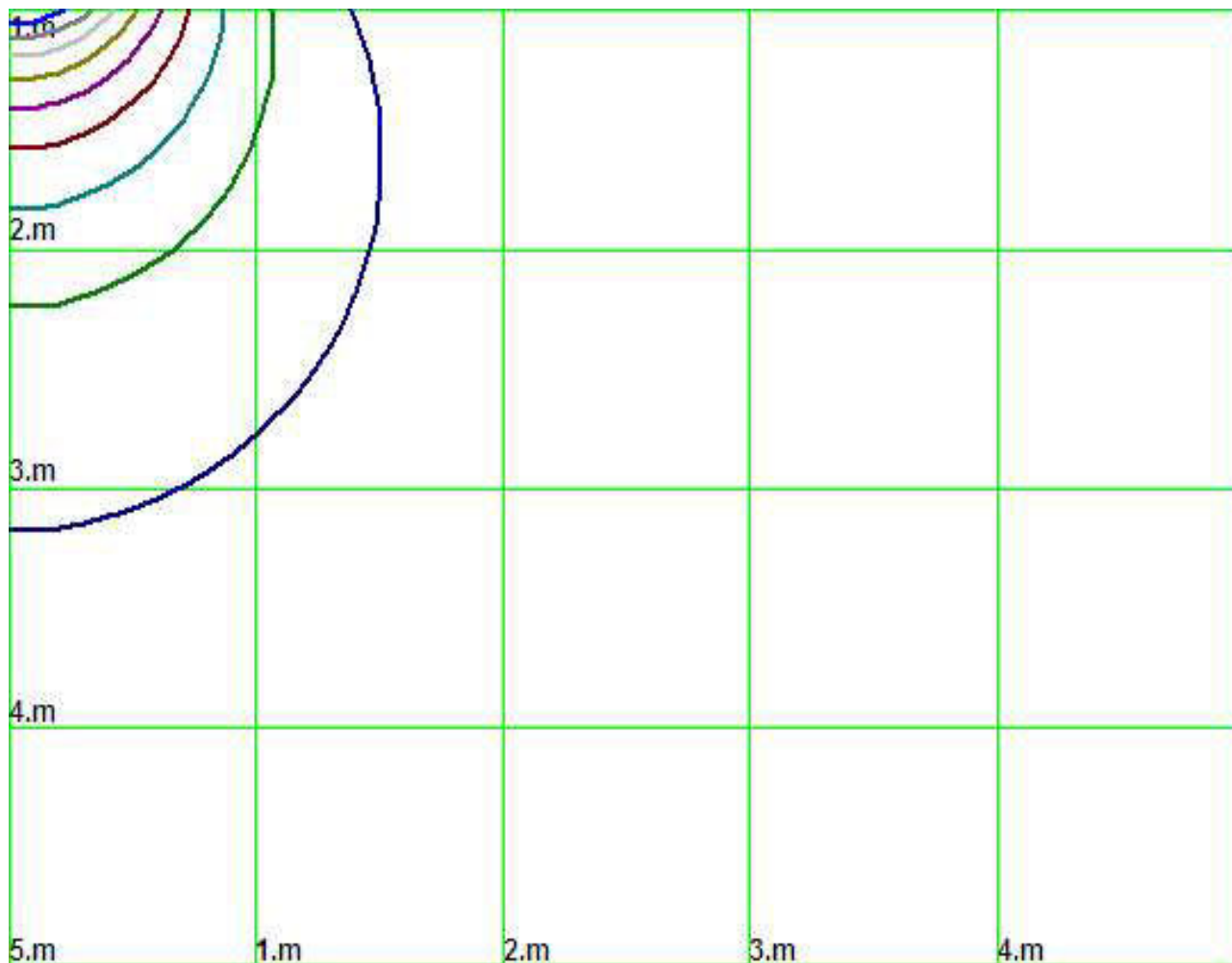
Isolx curve



Height: 1 m

(10%): 24.6lx	(20%): 49.2lx	(30%): 73.7lx	(40%): 98.3lx
(50%): 122.9lx	(60%): 147.5lx	(70%): 172.1lx	(80%): 196.6lx
(90%): 221.2lx	(100%): 245.5lx		

Space Isolx Curve



— (10%): 24.6lx	— (20%): 49.2lx	— (30%): 73.7lx	— (40%): 98.3lx
— (50%): 122.9lx	— (60%): 147.5lx	— (70%): 172.1lx	— (80%): 196.6lx
— (90%): 221.2lx	— (100%): 245.5lx		

Luminance Limiting Curve

Diameter: 170mm

Length: 170mm

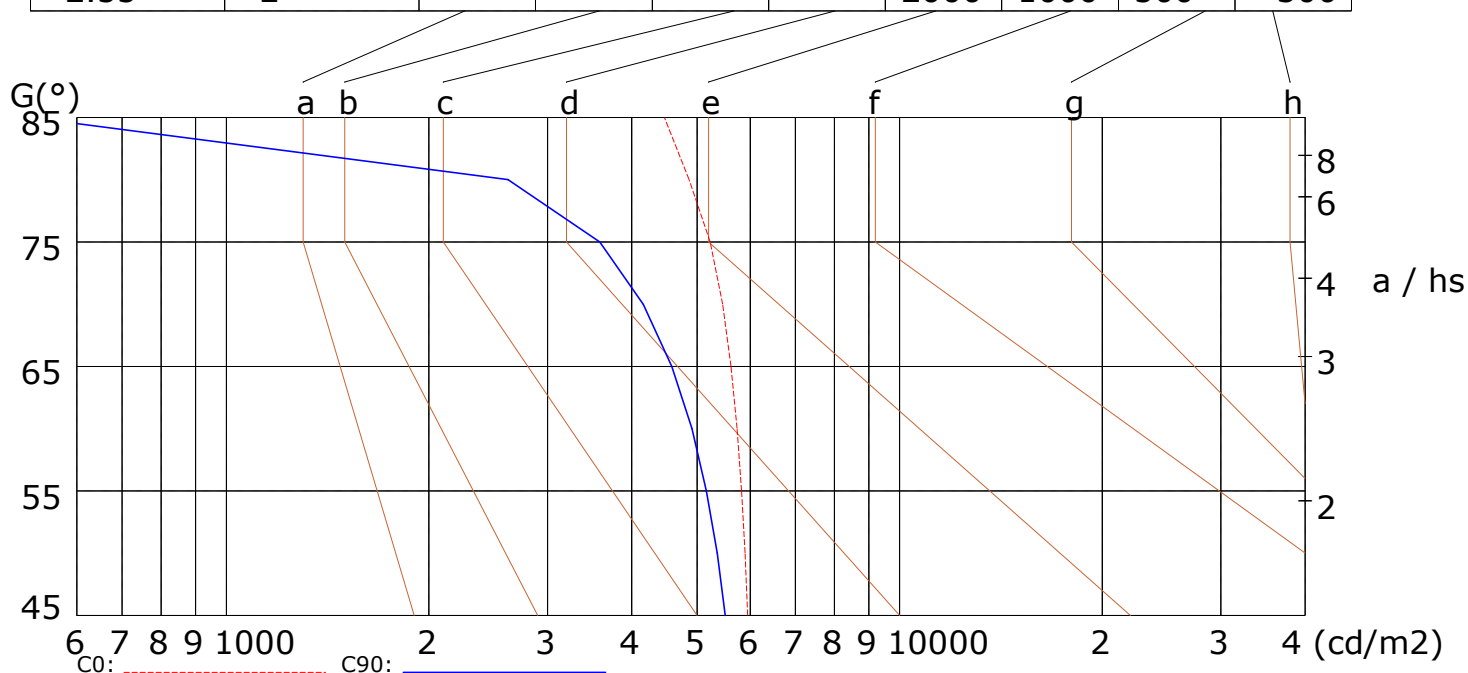
Width: 170mm

Height: 5mm

(cd/m²)

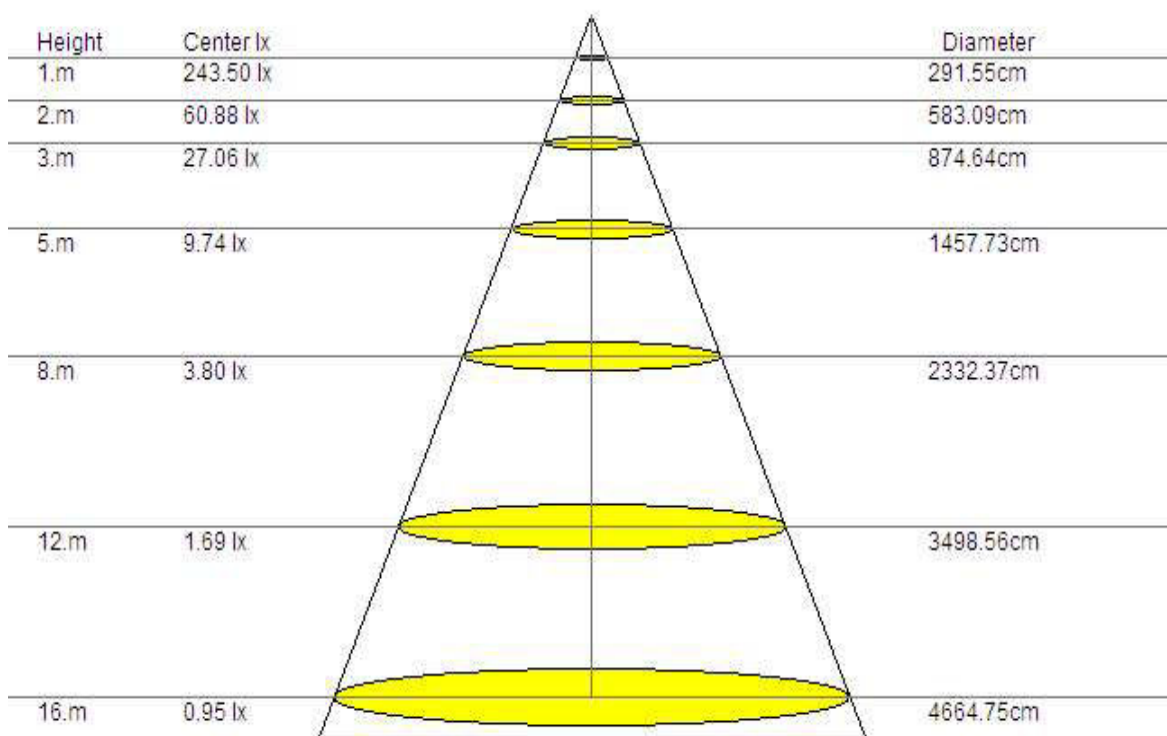
?	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	5945	5893	5820	5736	5621	5460	5230	4865	4472
C90	5509	5359	5164	4917	4586	4164	3585	2621	380

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: 111.10°(50%Imax)

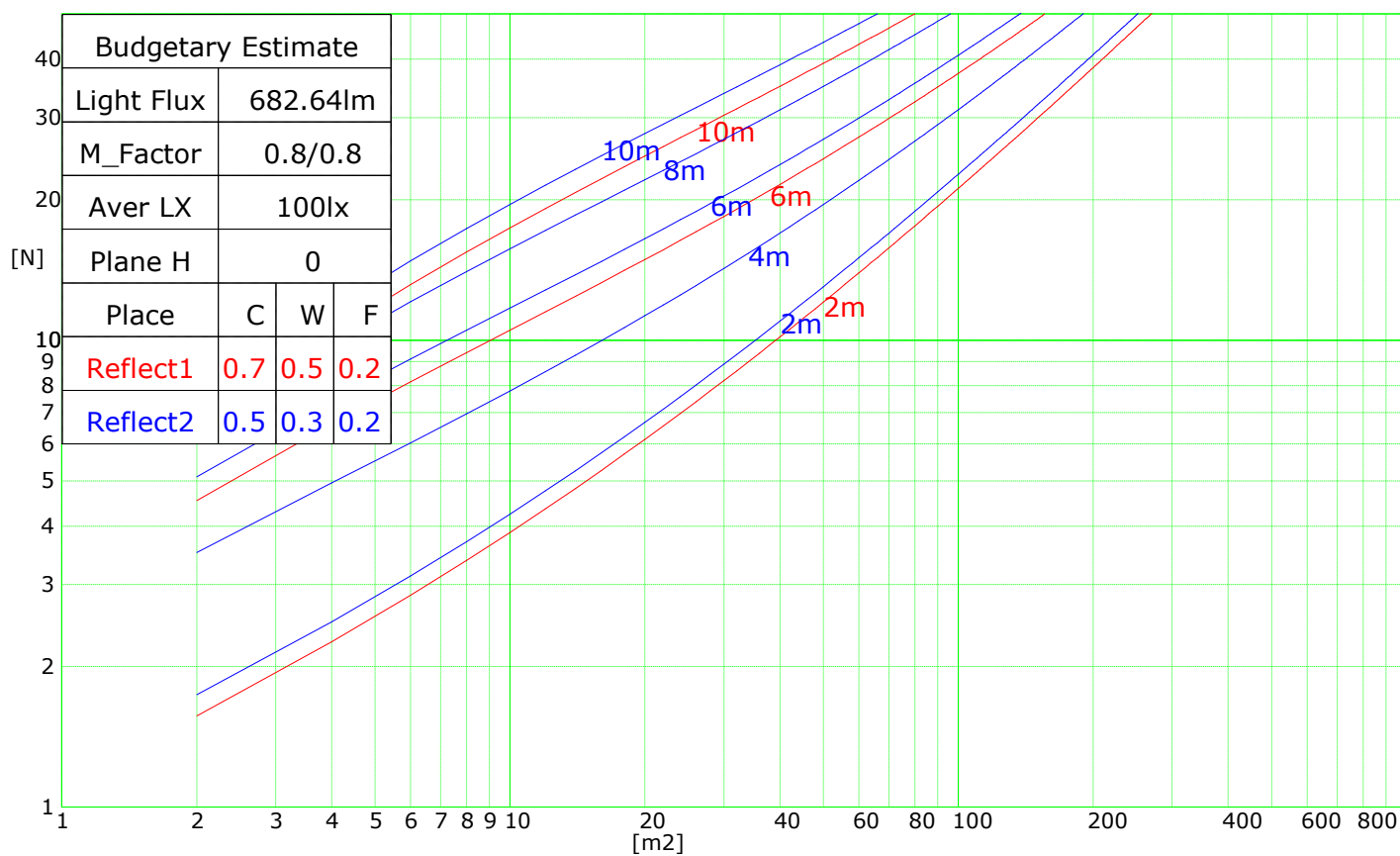


Coefficients of Utilization

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	1.05	1.03	1.01	1.03	1.01	1.00	1.00	0.97	0.95	0.95	0.93	0.90	0.88	0.86	0.84	0.79
2	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.82	0.79	0.83	0.79	0.75	0.78	0.74	0.70	0.66
3	0.76	0.73	0.71	0.76	0.72	0.70	0.75	0.70	0.67	0.73	0.68	0.64	0.69	0.64	0.60	0.55
4	0.66	0.63	0.61	0.66	0.62	0.59	0.66	0.61	0.57	0.64	0.59	0.54	0.62	0.56	0.51	0.47
5	0.57	0.54	0.52	0.58	0.54	0.51	0.58	0.53	0.49	0.57	0.52	0.47	0.56	0.50	0.45	0.41
6	0.50	0.48	0.46	0.51	0.47	0.45	0.52	0.47	0.43	0.52	0.46	0.41	0.51	0.44	0.39	0.36
7	0.45	0.42	0.41	0.46	0.42	0.40	0.47	0.42	0.38	0.47	0.41	0.37	0.47	0.40	0.35	0.32
8	0.40	0.38	0.36	0.41	0.38	0.36	0.42	0.38	0.34	0.43	0.37	0.33	0.43	0.36	0.31	0.28
9	0.36	0.34	0.33	0.37	0.34	0.32	0.39	0.34	0.31	0.40	0.34	0.30	0.40	0.33	0.28	0.25
10	0.33	0.31	0.29	0.34	0.31	0.29	0.36	0.31	0.28	0.37	0.31	0.27	0.37	0.30	0.26	0.23



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		Weft to light axis direction of observation					Direction of light axis parallel observation				
X	Y										
2H	2H	14.8	15.9	15.1	15.9	16.5	14.5	15.9	14.9	16.1	16.4
	3H	16.2	17.5	16.6	17.7	18.1	16.2	17.3	16.5	17.8	18.0
	4H	17.0	18.1	17.3	18.5	18.7	16.9	18.0	17.2	18.6	18.9
	6H	17.6	18.5	18.1	18.9	19.0	17.5	18.4	17.8	19.0	19.0
	8H	17.9	18.8	18.1	19.0	19.3	17.9	18.8	17.9	19.0	19.4
4H	12H	17.8	18.9	18.2	19.1	19.6	17.9	18.6	18.1	19.3	19.4
	2H	15.7	16.6	15.9	16.8	17.0	15.5	16.6	15.7	16.8	17.0
	3H	17.3	18.4	17.7	18.3	18.7	17.4	18.3	17.5	18.4	18.8
	4H	18.2	19.0	18.6	19.1	19.4	18.0	18.9	18.4	19.2	19.5
	6H	18.8	19.5	19.1	19.9	20.1	18.7	19.5	19.0	19.7	20.2
8H	8H	19.1	19.7	19.4	19.9	20.4	19.0	19.6	19.3	19.9	20.2
	12H	19.2	20.0	19.5	20.2	20.4	19.2	19.7	19.5	20.1	20.6
	4H	18.5	19.2	19.0	19.4	19.9	18.4	19.1	18.7	19.4	19.9
	6H	19.4	19.9	19.9	20.2	20.5	19.3	19.8	19.7	20.1	20.6
	8H	19.6	20.2	20.1	20.5	21.0	19.7	20.1	20.0	20.4	21.0
12H	12H	20.0	20.4	20.5	20.8	21.2	19.9	20.3	20.3	20.8	21.2
	4H	18.6	19.2	18.9	19.4	19.8	18.5	19.1	18.8	19.5	19.9
	6H	19.5	20.0	19.9	20.2	20.7	19.5	19.8	19.7	20.2	20.7
	8H	19.8	20.4	20.4	20.5	21.0	19.9	20.1	20.2	20.6	21.0