



Luminaire Property

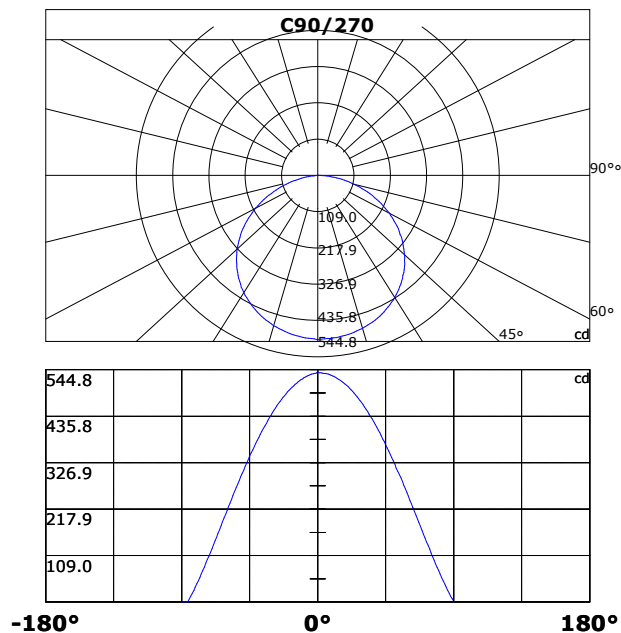
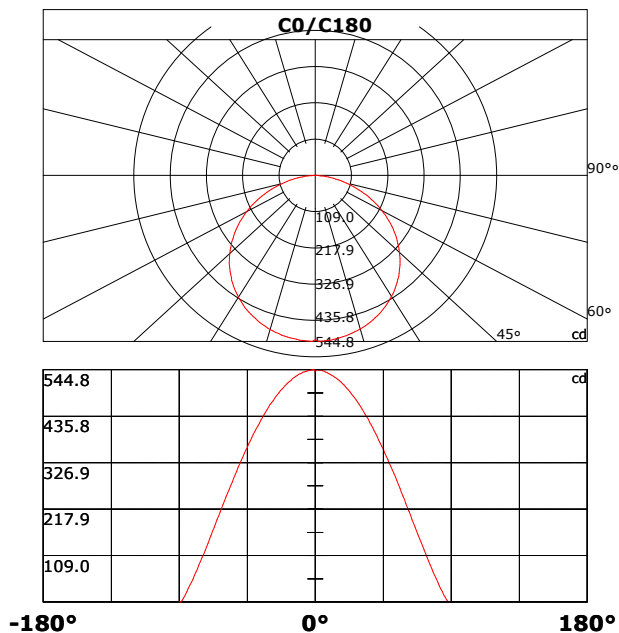
Luminaire Description: B1275-7-BF
Luminaire Categorie: DOWNLIGHT ADJUSTABLE 20W
Lamp Categorie:
Lamp Description: BLANCO FRIO 6000K
Number of Lamp: 1
Lamp Lumens(lm): NA
Luminous Length(m): 0.23
Luminous Width(m): 0.23
Luminous Height(m): 0.005

Voltage: 231.3 V
Current: 0.153 A
Power: 19.66 W
Power Factor: 0.554
Test Lab: BLED
Photometric Type: Type C
Manufactory:

Photometric Results

CIE Class: Direct
Effective Luminous Flux: 1501.09 lm
Efficiency: 77.4736 lm/W
Central Intensity: 539.899cd
Max. Intensity: 544.845cd
Field Angle(10%Imax): NA

Max.Intensity Angle: C:0.0 G:1.0
Beam Angle(50%Imax): L: -57.1 R:54.3
Luminaire Efficacy Rating(LER) : 100.00%
Upward Ratio: NA
Downward Ratio: NA
Beamwidth(50%Imax): H=115.2V=115.09





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	539.9	544.8	544.6	544.3	543.6	542.3	541.1	539.2	537.9	535.9
C45.0	539.9	534.9	535.0	534.9	534.8	534.5	534.0	533.3	532.2	530.9
C90.0	539.9	537.4	537.3	537.0	536.4	536.0	535.2	534.5	533.0	531.5
C135.0	539.9	540.6	540.3	539.9	539.1	538.5	537.0	535.7	534.9	533.3
C180.0	539.9	544.8	544.8	543.9	543.1	542.3	541.1	540.2	539.1	537.2
C225.0	539.9	533.9	533.2	532.0	530.9	529.2	528.1	525.8	523.8	522.6
C270.0	539.9	536.9	536.2	535.7	534.6	533.4	531.6	530.0	528.2	526.1
C315.0	539.9	540.5	540.3	539.9	538.8	538.3	537.0	536.0	534.4	532.7
C360.0	539.9	544.8	544.6	544.3	543.6	542.3	541.1	539.2	537.9	535.9
C\G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	534.3	532.2	529.5	527.4	524.7	521.7	519.0	515.8	512.4	508.8
C45.0	530.1	528.6	527.4	525.5	523.4	520.9	519.2	516.7	514.2	511.3
C90.0	530.2	528.6	526.6	524.3	521.6	520.0	517.3	514.4	511.2	508.5
C135.0	531.5	529.8	527.1	525.4	522.6	519.8	517.1	514.4	511.1	507.7
C180.0	535.3	533.7	530.7	529.4	526.3	524.0	520.9	517.7	514.5	511.0
C225.0	520.0	517.3	514.8	512.4	509.1	505.4	502.8	499.5	495.2	491.6
C270.0	523.7	521.6	518.8	516.5	513.2	510.4	507.2	503.6	500.1	496.6
C315.0	530.8	529.0	526.7	524.2	521.9	519.2	516.6	513.1	510.0	506.5
C360.0	534.3	532.2	529.5	527.4	524.7	521.7	519.0	515.8	512.4	508.8
C\G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	504.9	501.1	497.1	492.9	488.1	483.7	479.2	474.2	469.3	463.9
C45.0	507.6	505.1	501.5	497.9	494.5	490.6	486.3	482.1	477.5	472.7
C90.0	505.0	501.5	498.0	494.1	490.4	485.7	481.1	477.3	472.4	467.9
C135.0	503.9	500.9	497.2	492.8	488.4	483.9	479.5	474.9	470.3	463.9
C180.0	507.5	503.4	499.5	495.4	491.2	486.4	482.4	477.3	472.1	466.9
C225.0	487.3	483.5	479.4	474.3	469.4	465.0	459.8	454.5	449.0	443.8
C270.0	493.1	488.2	484.0	479.7	475.1	469.9	465.5	460.0	454.8	450.2
C315.0	502.9	499.6	495.2	491.2	486.7	482.1	477.3	472.3	467.9	462.8
C360.0	504.9	501.1	497.1	492.9	488.1	483.7	479.2	474.2	469.3	463.9
C\G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	458.2	452.7	447.1	440.3	434.2	428.5	421.6	415.7	408.8	401.7
C45.0	468.3	463.2	458.3	453.4	447.8	442.7	436.1	430.8	424.8	418.6
C90.0	462.6	457.3	452.2	446.8	441.0	435.1	429.5	423.2	416.0	410.9
C135.0	460.0	454.3	448.9	442.7	436.8	431.3	424.9	419.0	411.8	405.3
C180.0	462.3	456.2	450.5	444.8	439.2	432.5	426.7	419.7	413.0	406.9
C225.0	437.8	432.5	425.6	419.4	413.2	407.4	400.7	393.1	386.3	379.0
C270.0	443.8	438.1	432.7	426.1	419.6	413.3	406.9	400.2	392.9	386.2
C315.0	456.9	451.8	445.9	440.2	434.3	428.1	421.9	415.1	408.0	400.1
C360.0	458.2	452.7	447.1	440.3	434.2	428.5	421.6	415.7	408.8	401.7



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	395.2	388.0	380.0	372.8	365.5	358.0	349.6	341.8	334.3	326.3
C45.0	411.8	405.6	398.9	392.6	385.6	378.6	370.8	364.0	356.1	348.9
C90.0	403.6	397.7	390.8	382.5	376.6	368.9	361.5	354.0	345.8	339.0
C135.0	398.1	391.6	384.1	377.1	369.5	363.3	354.2	346.9	339.3	331.4
C180.0	399.4	393.3	386.0	377.9	371.0	363.3	355.9	348.1	339.1	332.4
C225.0	371.6	363.3	355.5	347.1	339.0	330.4	320.6	311.7	302.6	295.7
C270.0	379.1	372.1	364.7	356.9	349.8	342.1	334.4	326.2	318.1	309.8
C315.0	392.5	385.7	378.1	370.1	361.2	353.1	344.7	336.4	327.5	320.3
C360.0	395.2	388.0	380.0	372.8	365.5	358.0	349.6	341.8	334.3	326.3
C\G	G50.0	G51.0	G52.0	G53.0	G54.0	G55.0	G56.0	G57.0	G58.0	G59.0
C0.0	318.6	309.6	301.4	293.2	284.6	275.5	266.5	257.9	248.6	240.3
C45.0	340.9	333.8	325.6	318.1	309.7	301.2	293.6	285.2	276.2	268.5
C90.0	331.1	323.7	314.3	307.0	298.9	291.2	282.1	273.3	265.4	256.4
C135.0	323.5	315.3	306.9	298.5	290.8	281.0	273.1	264.5	255.6	247.6
C180.0	323.5	316.1	307.3	298.6	290.5	282.0	273.7	264.0	255.5	246.8
C225.0	287.3	279.2	270.6	261.7	252.3	243.0	234.3	225.4	216.7	206.9
C270.0	302.0	294.2	285.3	276.8	268.3	259.5	250.1	241.3	232.3	223.9
C315.0	313.2	304.5	296.5	286.8	278.0	270.2	261.1	251.1	242.6	234.0
C360.0	318.6	309.6	301.4	293.2	284.6	275.5	266.5	257.9	248.6	240.3
C\G	G60.0	G61.0	G62.0	G63.0	G64.0	G65.0	G66.0	G67.0	G68.0	G69.0
C0.0	230.8	221.5	212.9	203.9	194.1	185.2	176.2	167.5	158.2	149.0
C45.0	259.4	251.5	241.6	233.3	225.3	216.0	207.7	197.7	189.4	180.9
C90.0	248.3	238.5	230.2	221.8	213.1	203.6	194.1	186.3	177.2	167.9
C135.0	237.8	229.3	220.3	211.7	202.2	192.9	185.0	175.6	167.2	157.5
C180.0	238.6	229.1	219.5	211.0	201.8	193.4	183.1	174.3	165.7	155.7
C225.0	198.5	189.4	181.1	171.7	162.2	153.8	145.2	136.4	127.5	118.8
C270.0	215.3	205.0	196.9	188.1	179.1	169.4	160.8	151.7	143.5	134.2
C315.0	225.4	216.2	206.9	198.6	189.1	180.3	171.3	161.8	153.8	143.7
C360.0	230.8	221.5	212.9	203.9	194.1	185.2	176.2	167.5	158.2	149.0
C\G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	140.0	130.9	122.6	113.4	104.2	96.3	87.3	79.4	70.7	62.9
C45.0	171.9	162.7	154.0	144.7	136.1	127.3	118.7	109.4	101.6	92.8
C90.0	159.6	150.3	140.6	132.9	124.0	115.5	106.4	97.9	89.6	81.7
C135.0	148.3	139.5	130.3	121.5	112.8	104.8	95.7	87.5	79.4	71.3
C180.0	147.9	138.0	129.0	120.7	111.6	103.9	94.6	86.6	78.0	70.2
C225.0	110.0	101.2	93.4	84.6	76.5	68.3	60.7	53.2	45.2	38.2
C270.0	125.8	116.9	108.0	99.7	91.0	82.5	74.5	66.4	58.0	50.0
C315.0	135.7	126.8	118.0	109.6	101.1	92.7	84.3	76.1	68.0	60.0
C360.0	140.0	130.9	122.6	113.4	104.2	96.3	87.3	79.4	70.7	62.9



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	55.3	46.8	39.1	31.3	25.1	17.4	11.3	5.0	0.0	0.0
C45.0	84.5	76.2	68.3	60.6	53.1	45.3	37.3	30.9	23.7	17.1
C90.0	73.8	66.0	57.6	49.8	42.3	35.4	27.5	20.6	14.3	8.1
C135.0	63.3	55.3	47.5	40.0	32.8	25.5	18.4	12.1	5.5	0.0
C180.0	61.7	53.8	46.3	39.1	32.1	24.5	17.2	10.3	4.5	0.0
C225.0	30.9	23.7	16.2	10.4	3.9	0.0	0.0	0.0	0.0	0.0
C270.0	43.1	34.8	27.7	20.7	13.6	7.7	1.2	0.0	0.0	0.0
C315.0	52.5	44.3	36.8	29.7	22.6	15.7	9.4	3.2	0.0	0.0
C360.0	55.3	46.8	39.1	31.3	25.1	17.4	11.3	5.0	0.0	0.0
C\G	G90.0									
C0.0	0.0									
C45.0	10.4									
C90.0	2.0									
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	539.90	0.00	0.00	0.00	0.00
0.0-1.0	539.24	0.52	0.52	0.03	0.03
1.0-2.0	538.96	1.55	2.06	0.10	0.14
2.0-3.0	538.46	2.58	4.64	0.17	0.30
3.0-4.0	537.65	3.60	8.24	0.24	0.54
4.0-5.0	536.82	4.62	12.87	0.30	0.84
5.0-6.0	535.66	5.64	18.50	0.37	1.21
6.0-7.0	534.34	6.64	25.14	0.44	1.65
7.0-8.0	532.92	7.64	32.78	0.50	2.15
8.0-9.0	531.29	8.62	41.41	0.57	2.72
9.0-10.0	529.47	9.60	51.01	0.63	3.35
10.0-11.0	527.59	10.56	61.57	0.69	4.04
11.0-12.0	525.19	11.51	73.08	0.76	4.80
12.0-13.0	523.14	12.44	85.52	0.82	5.61
13.0-14.0	520.35	13.36	98.87	0.88	6.49
14.0-15.0	517.68	14.25	113.12	0.94	7.43
15.0-16.0	515.00	15.13	128.26	0.99	8.42
16.0-17.0	511.89	15.99	144.25	1.05	9.47
17.0-18.0	508.58	16.83	161.07	1.10	10.58
18.0-19.0	505.26	17.64	178.71	1.16	11.73
19.0-20.0	501.52	18.43	197.14	1.21	12.94
20.0-21.0	497.91	19.19	216.33	1.26	14.20
21.0-22.0	493.99	19.93	236.26	1.31	15.51
22.0-23.0	489.79	20.64	256.90	1.36	16.87
23.0-24.0	485.48	21.32	278.23	1.40	18.27
24.0-25.0	480.92	21.97	300.20	1.44	19.71
25.0-26.0	476.39	22.60	322.80	1.48	21.19
26.0-27.0	471.57	23.19	345.99	1.52	22.72
27.0-28.0	466.67	23.75	369.75	1.56	24.28
28.0-29.0	461.50	24.28	394.03	1.59	25.87
29.0-30.0	456.24	24.78	418.81	1.63	27.50
30.0-31.0	450.77	25.24	444.05	1.66	29.15
31.0-32.0	445.16	25.67	469.72	1.69	30.84
32.0-33.0	439.21	26.05	495.77	1.71	32.55
33.0-34.0	433.27	26.40	522.17	1.73	34.28
34.0-35.0	427.37	26.73	548.90	1.75	36.04
35.0-36.0	421.03	27.01	575.91	1.77	37.81
36.0-37.0	414.59	27.25	603.17	1.79	39.60
37.0-38.0	407.70	27.45	630.61	1.80	41.40
38.0-39.0	401.07	27.61	658.22	1.81	43.22
39.0-40.0	393.92	27.73	685.95	1.82	45.04



Zonal Luminous Flux Data

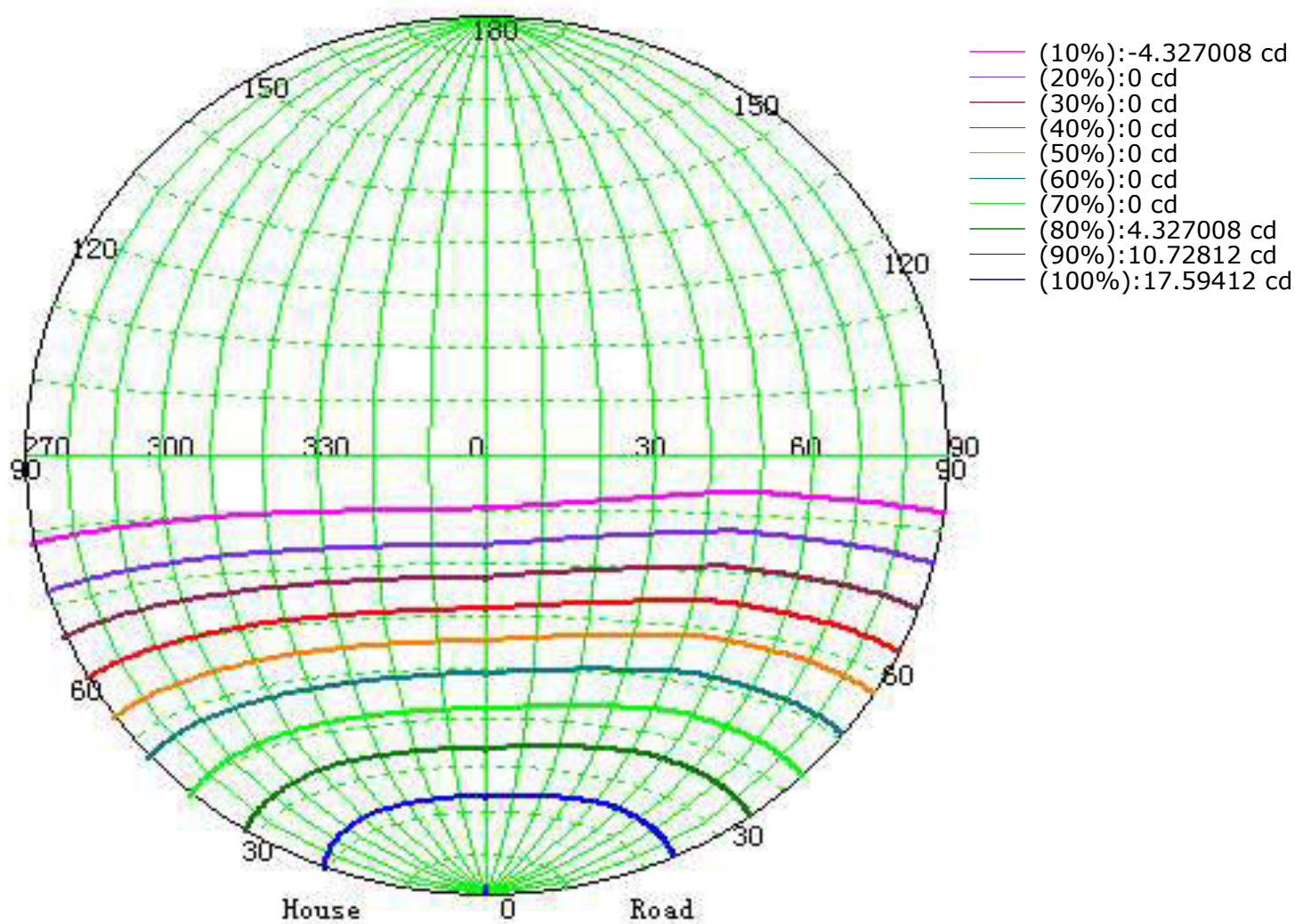
Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
40.0-41.0	387.16	27.81	713.76	1.83	46.86
41.0-42.0	379.74	27.86	741.62	1.83	48.69
42.0-43.0	372.15	27.85	769.48	1.83	50.52
43.0-44.0	364.77	27.81	797.29	1.83	52.35
44.0-45.0	357.20	27.75	825.03	1.82	54.17
45.0-46.0	348.97	27.62	852.65	1.81	55.98
46.0-47.0	341.14	27.45	880.10	1.80	57.78
47.0-48.0	332.85	27.25	907.35	1.79	59.57
48.0-49.0	325.46	27.03	934.38	1.77	61.35
49.0-50.0	317.52	26.81	961.19	1.76	63.11
50.0-51.0	309.56	26.53	987.72	1.74	64.85
51.0-52.0	300.98	26.20	1013.92	1.72	66.57
52.0-53.0	292.59	25.82	1039.74	1.70	68.26
53.0-54.0	284.14	25.42	1065.16	1.67	69.93
54.0-55.0	275.44	24.98	1090.14	1.64	71.57
55.0-56.0	266.81	24.50	1114.64	1.61	73.18
56.0-57.0	257.83	23.99	1138.63	1.57	74.76
57.0-58.0	249.13	23.44	1162.07	1.54	76.29
58.0-59.0	240.55	22.89	1184.96	1.50	77.80
59.0-60.0	231.75	22.31	1207.28	1.46	79.26
60.0-61.0	222.55	21.68	1228.96	1.42	80.69
61.0-62.0	213.67	21.02	1249.98	1.38	82.07
62.0-63.0	205.01	20.36	1270.34	1.34	83.40
63.0-64.0	195.88	19.67	1290.01	1.29	84.69
64.0-65.0	186.83	18.94	1308.95	1.24	85.94
65.0-66.0	177.91	18.20	1327.15	1.19	87.13
66.0-67.0	168.91	17.44	1344.59	1.14	88.28
67.0-68.0	160.32	16.68	1361.26	1.09	89.37
68.0-69.0	150.97	15.88	1377.15	1.04	90.42
69.0-70.0	142.41	15.07	1392.21	0.99	91.40
70.0-71.0	133.28	14.25	1406.46	0.94	92.34
71.0-72.0	124.50	13.40	1419.87	0.88	93.22
72.0-73.0	115.87	12.57	1432.44	0.83	94.05
73.0-74.0	107.16	11.73	1444.16	0.77	94.82
74.0-75.0	98.91	10.89	1455.05	0.71	95.53
75.0-76.0	90.26	10.04	1465.09	0.66	96.19
76.0-77.0	82.07	9.19	1474.28	0.60	96.79
77.0-78.0	73.81	8.34	1482.62	0.55	97.34
78.0-79.0	65.89	7.51	1490.13	0.49	97.83
79.0-80.0	58.15	6.69	1496.82	0.44	98.27
80.0-81.0	50.11	5.85	1502.67	0.38	98.66



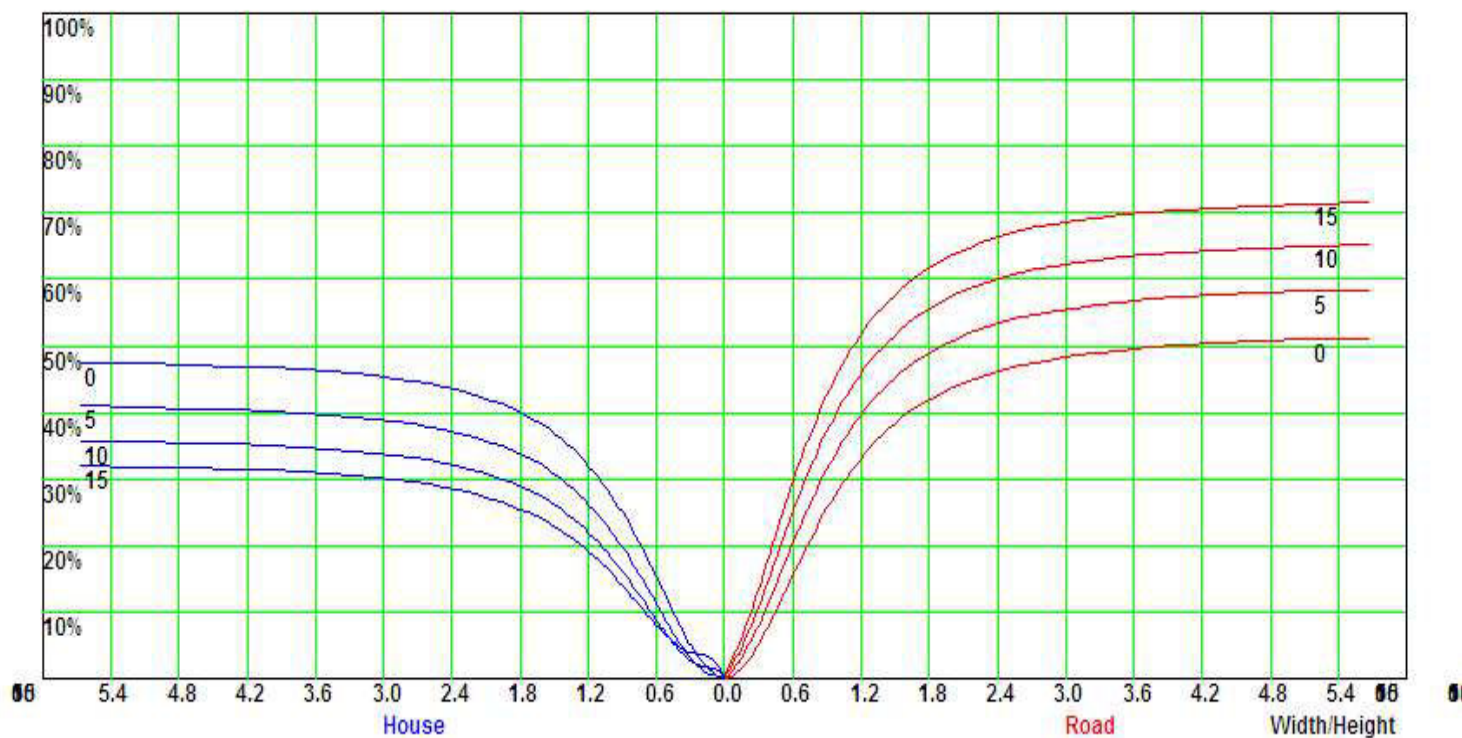
Zonal Luminous Flux Data

[illegible]

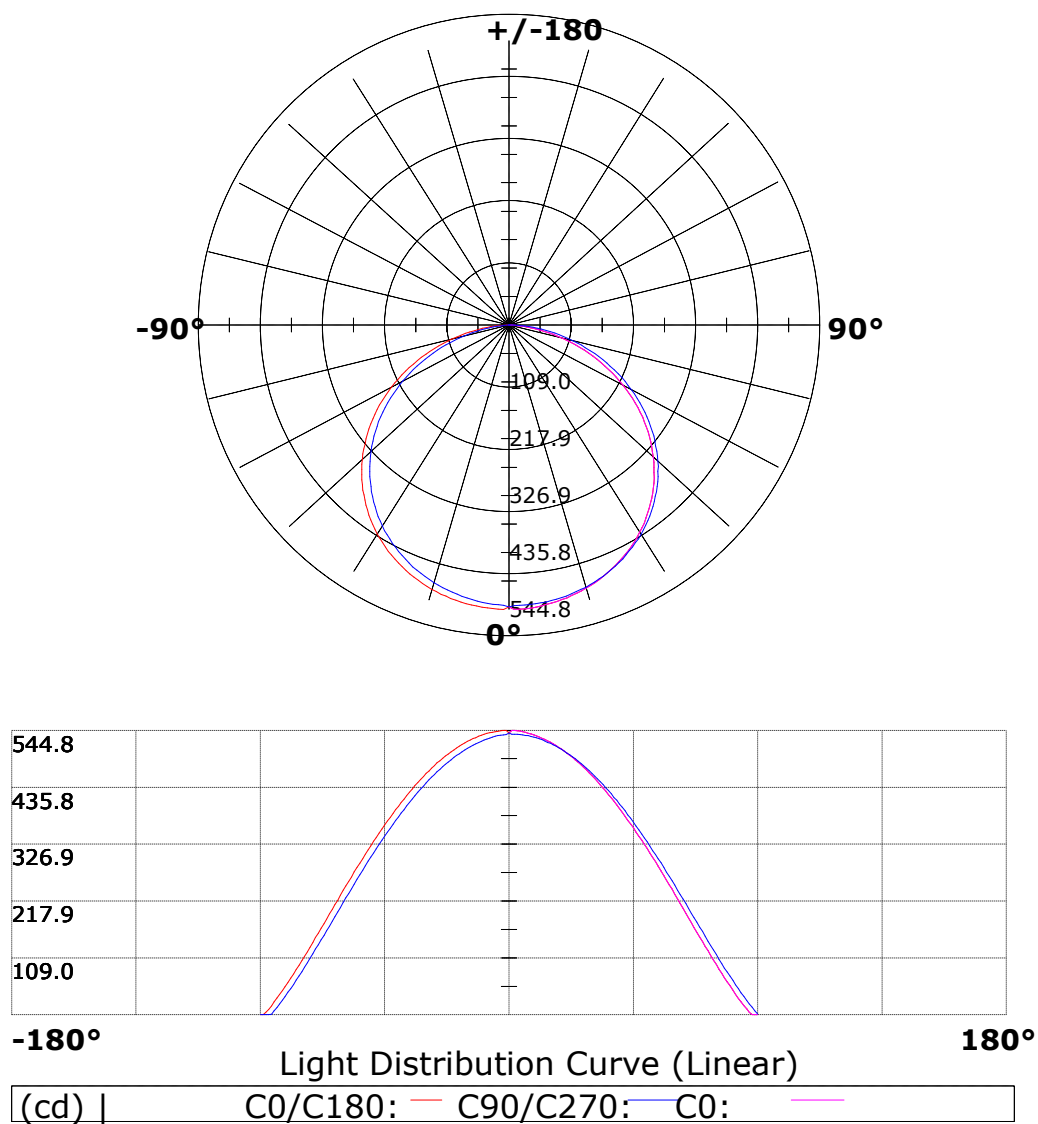
Iso-Candela [cd]

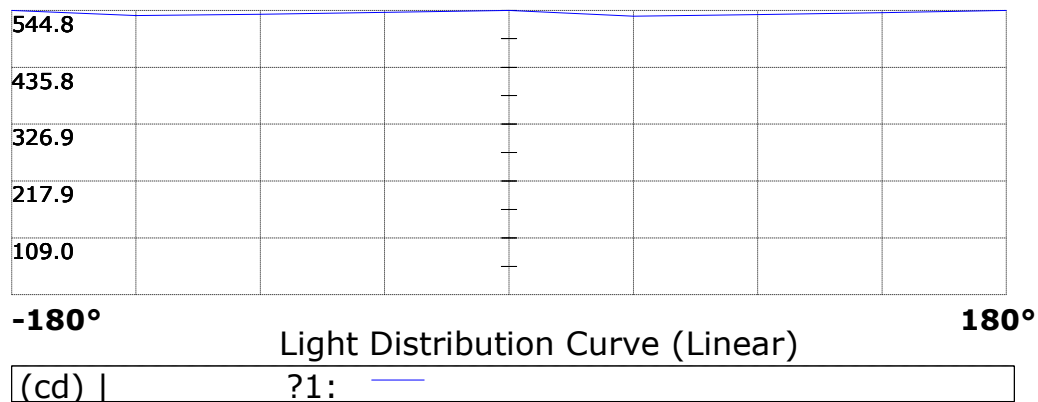
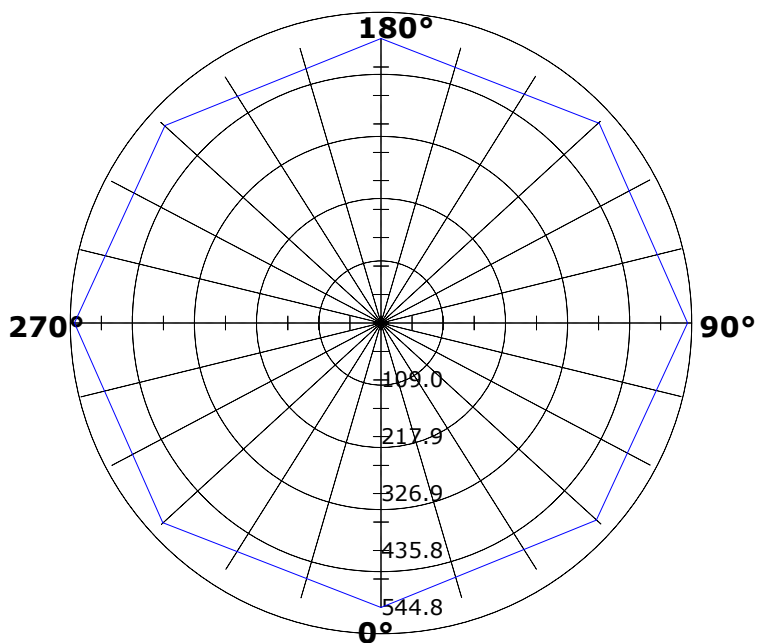


Coefficient Utilization Curve

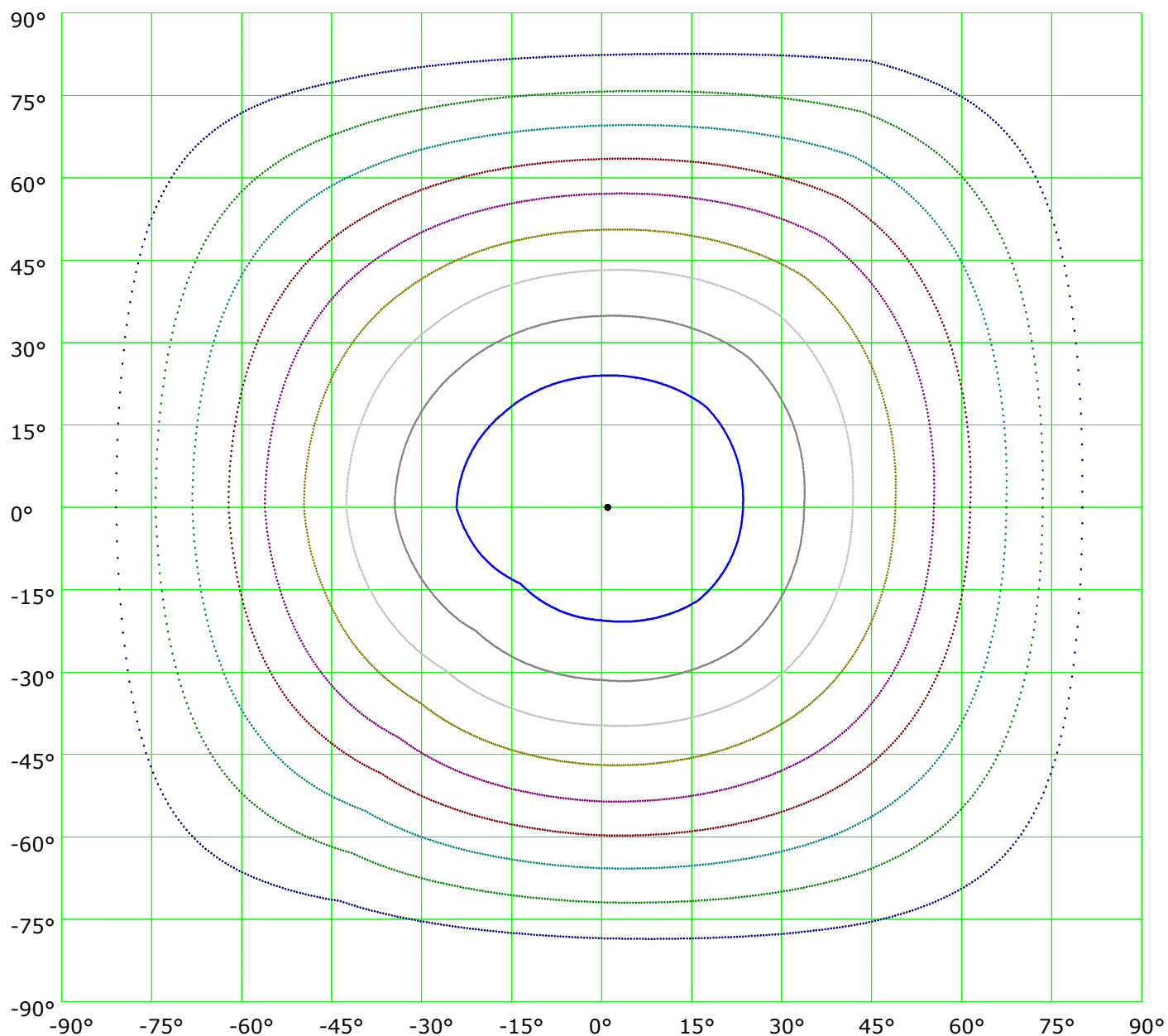


Light Distribution Curve [Unit: cd]



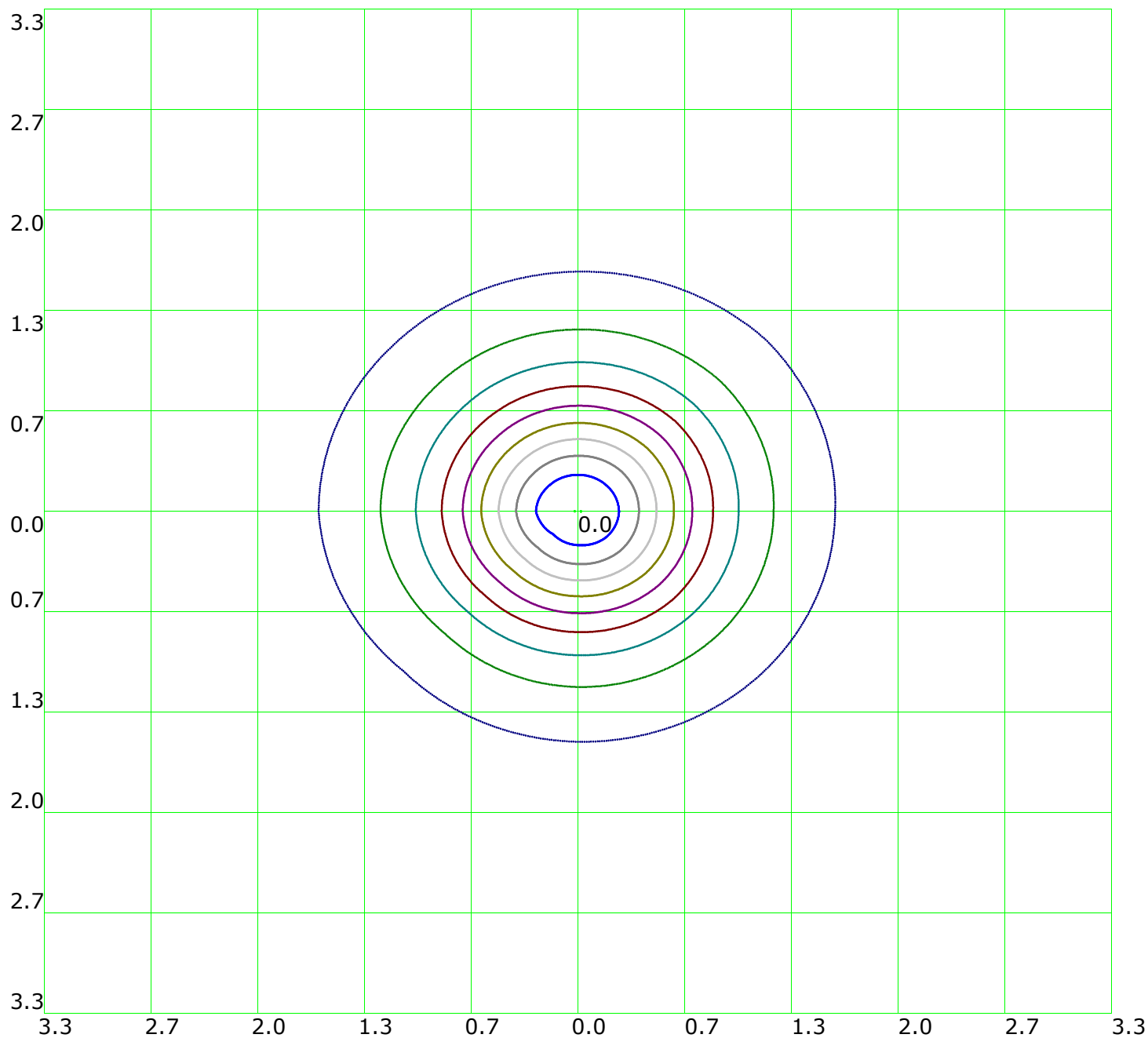


Isocandela(rectangle)



(10%): 54.5cd	(20%): 109.9cd	(30%): 163.5cd	(40%): 217.9cd
(50%): 272.4cd	(60%): 326.9cd	(70%): 381.4cd	(80%): 435.9cd
(90%): 490.4cd	(100%): 544.8cd		

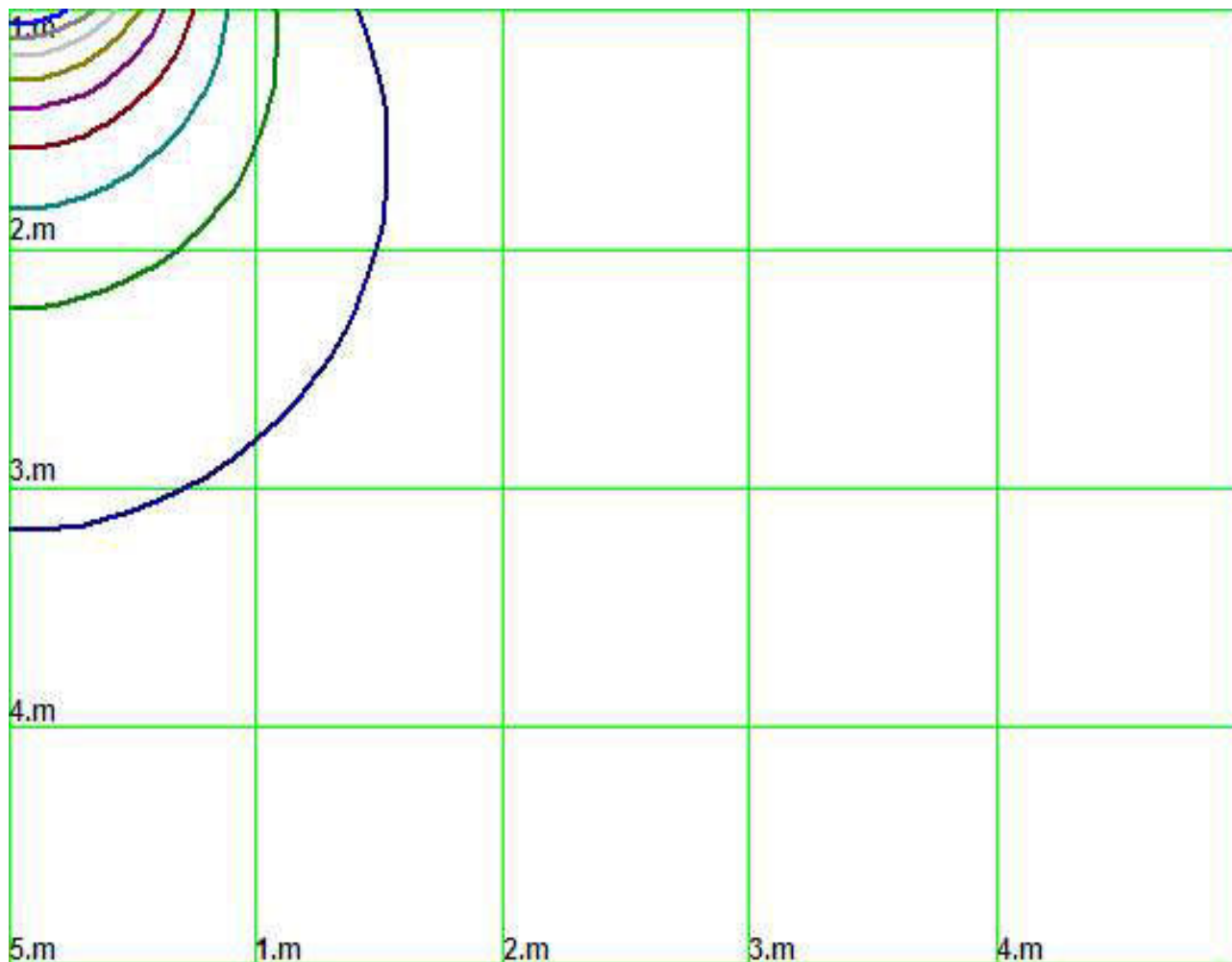
Isolx curve



Height: 1 m

(10%): 54.5lx	(20%): 109.1lx	(30%): 163.5lx	(40%): 217.9lx
(50%): 272.4lx	(60%): 326.9lx	(70%): 381.4lx	(80%): 435.9lx
(90%): 490.4lx	(100%): 544.3lx		

Space Isolx Curve



— (10%): 54.5lx	— (20%): 109.1lx	— (30%): 163.5lx	— (40%): 217.9lx
— (50%): 272.4lx	— (60%): 326.9lx	— (70%): 381.4lx	— (80%): 435.9lx
— (90%): 490.4lx	— (100%): 544.3lx		

Luminance Limiting Curve

Diameter: 230mm

Length: 230mm

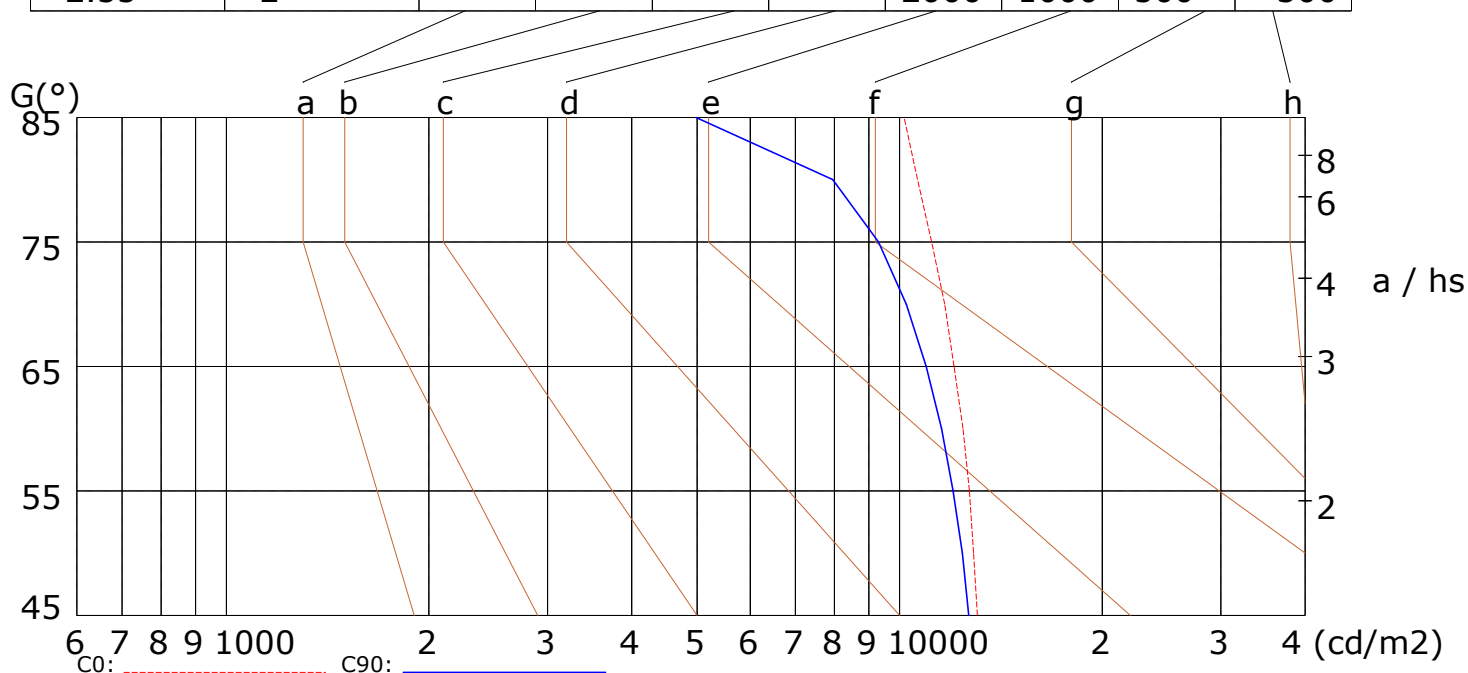
Width: 230mm

Height: 5mm

(cd/m²)

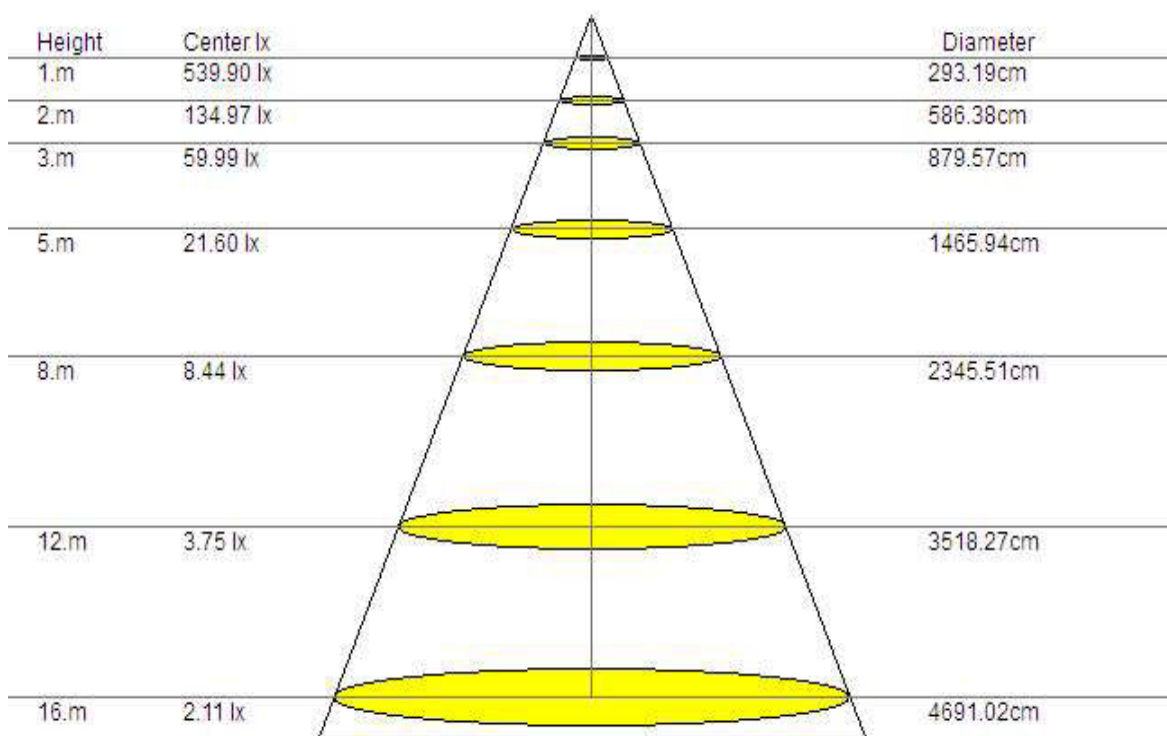
?	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	13041	12879	12691	12416	12043	11666	11154	10631	10155
C90	12658	12391	12009	11540	10958	10231	9302	7959	4985

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



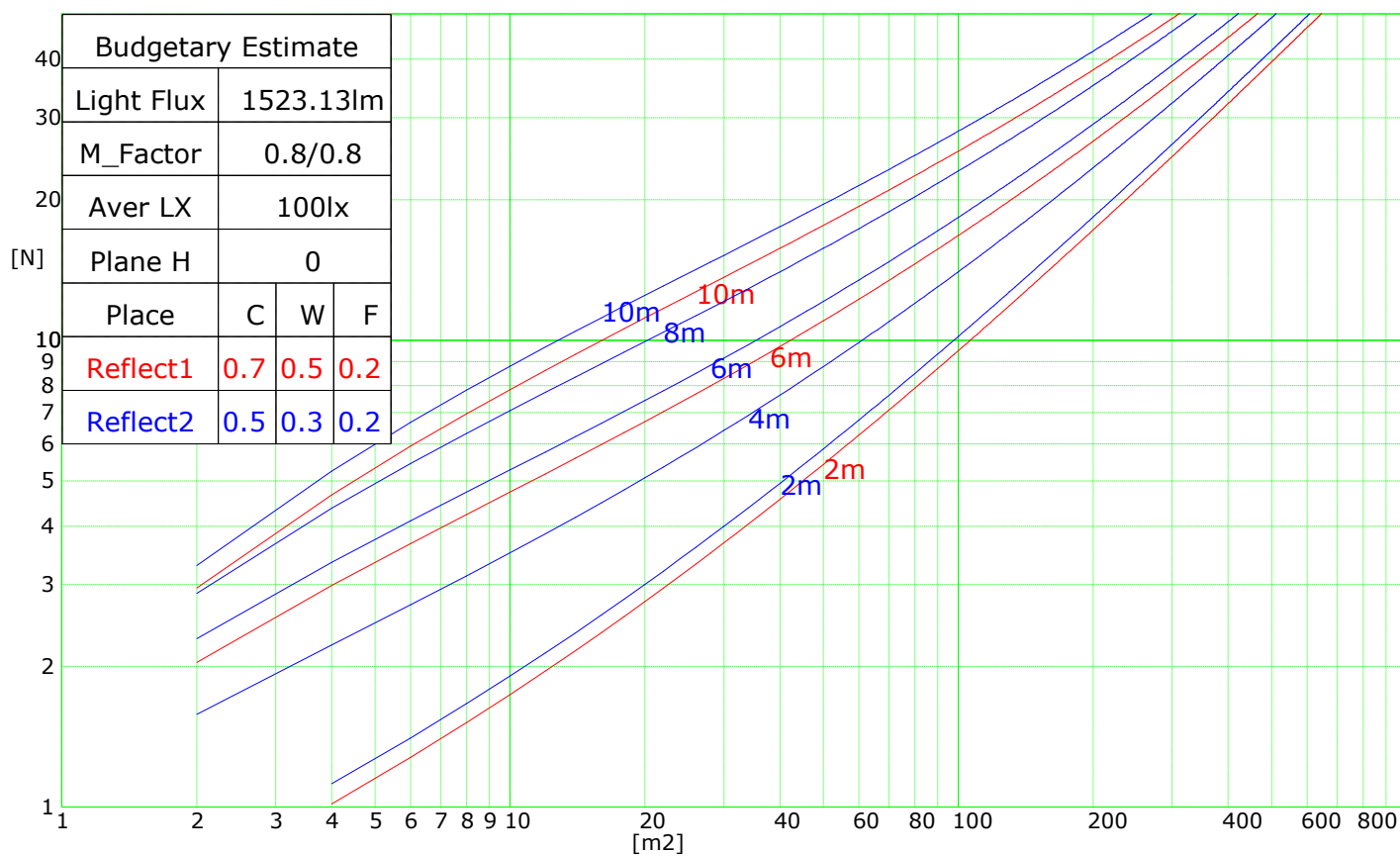
Beam Angle: 111.40° (50% I_{max})



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	1.04	1.03	1.01	1.03	1.01	0.99	1.00	0.97	0.95	0.95	0.92	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	0.82	0.79	0.75	0.78	0.74	0.70	0.65
3	0.76	0.73	0.71	0.76	0.72	0.69	0.75	0.70	0.67	0.72	0.67	0.63	0.69	0.64	0.59	0.55
4	0.65	0.62	0.60	0.66	0.62	0.59	0.65	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	0.51	0.47	0.56	0.50	0.44	0.41
6	0.50	0.47	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	0.40	0.46	0.42	0.40	0.47	0.42	0.38	0.47	0.41	0.36	0.47	0.40	0.35	0.31
8	0.40	0.38	0.36	0.41	0.38	0.35	0.42	0.37	0.34	0.43	0.37	0.33	0.43	0.36	0.31	0.28
9	0.36	0.34	0.32	0.37	0.34	0.32	0.39	0.34	0.31	0.39	0.34	0.29	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	0.36	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	16.0	14.9	16.0	16.5	14.7	15.8	14.9	15.9	16.4
	3H	16.3	17.5	16.5	17.8	18.0	16.2	17.4	16.6	17.9	18.0
	4H	17.1	18.0	17.3	18.7	18.7	16.8	17.9	17.2	18.5	18.8
	6H	17.6	18.6	18.0	18.8	19.1	17.5	18.5	17.9	19.0	19.1
	8H	17.9	18.8	18.1	18.9	19.3	17.8	18.9	17.9	18.9	19.2
4H	12H	17.9	18.8	18.1	19.2	19.6	17.7	18.6	18.0	19.3	19.5
	2H	15.8	16.7	15.8	16.8	17.0	15.7	16.5	15.7	16.9	17.1
	3H	17.4	18.3	17.7	18.5	18.8	17.4	18.2	17.6	18.5	18.8
	4H	18.2	19.0	18.5	19.2	19.5	18.0	18.9	18.3	19.1	19.4
	6H	18.7	19.6	19.3	19.7	20.2	18.7	19.4	19.0	19.7	20.1
8H	8H	19.2	19.7	19.5	19.9	20.2	18.9	19.5	19.2	19.9	20.4
	12H	19.3	19.8	19.6	20.1	20.5	19.2	19.8	19.4	20.1	20.6
	4H	18.6	19.2	19.0	19.5	19.8	18.4	19.0	18.7	19.5	19.8
	6H	19.3	19.9	19.8	20.2	20.5	19.3	19.8	19.7	20.3	20.5
	8H	19.7	20.1	20.1	20.6	21.0	19.6	20.1	19.9	20.5	21.0
12H	12H	19.9	20.5	20.3	20.8	21.1	19.8	20.3	20.3	20.8	21.2
	4H	18.6	19.1	18.9	19.5	19.9	18.5	19.1	18.9	19.4	19.8
	6H	19.5	20.0	19.9	20.2	20.6	19.4	19.9	19.8	20.3	20.7
	8H	20.0	20.4	20.4	20.7	21.0	19.7	20.3	20.1	20.6	21.0