

Luminaire Property

Luminaire Description: VEN-03-12

Luminaire Categorie:

Lamp Categorie:

Lamp Description:

Number of Lamp:

Lamp Lumens(lm): 914.43

Luminous Length(m): 0.0

Luminous Width(m): 0.0

Luminous Height(m): 0.0

Voltage: 110.4 V

Current: 0.115 A

Power: 12.2 W

Power Factor: 0.956

Test Lab: 0

Photometric Type: Type C

Manufactory:

Photometric Results

CIE Class: Direct

Measurement Flux: 914.43 lm

Efficiency: 74.9533 lm/W

Central Intensity: 378.362cd

Max. Intensity: 382.324cd

Field Angle(10%Imax): Left: -76.9 Right:74.9

Max.Intensity Angle: C:0.0 G:1.0

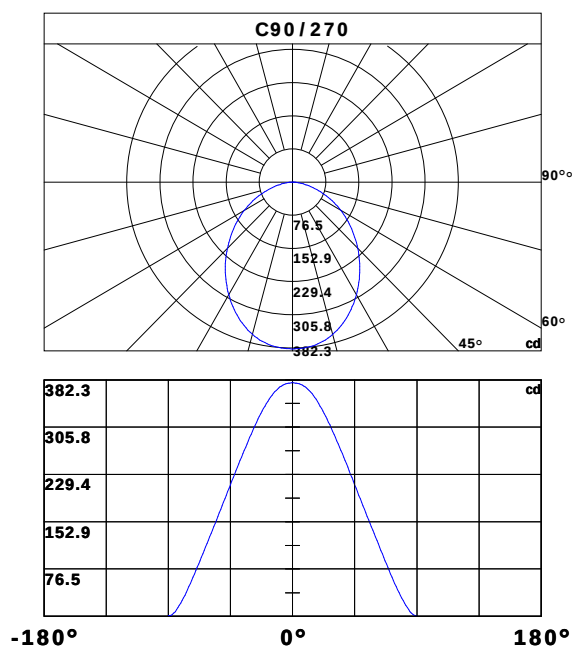
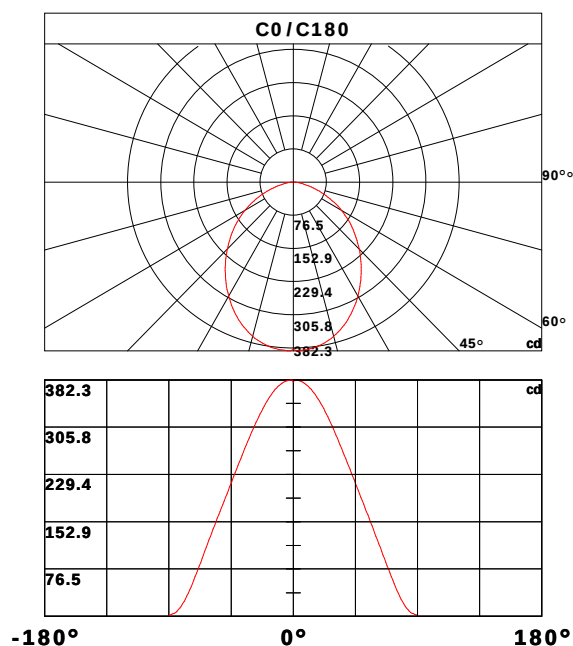
Beam Angle(50%Imax): L: -50.2 R:48.2

Luminaire Efficacy Rating(LER) : 100.00%

Upward Ratio: 0.0%

Downward Ratio: 100.0%

Beamwidth(50%Imax): C0/180=98.46 C90/270=98.14



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	378.4	382.3	382.1	381.7	381.1	380.5	379.4	378.3	376.9	375.2
C30.0	378.4	374.3	374.2	373.8	373.3	372.6	371.9	370.7	369.5	368.0
C60.0	378.4	375.4	375.2	375.0	374.6	374.0	373.0	371.9	370.7	369.2
C90.0	378.4	377.3	377.0	376.8	376.3	375.7	374.8	373.8	372.5	371.0
C120.0	378.4	378.5	378.4	378.2	377.6	377.0	376.2	375.0	373.7	372.2
C150.0	378.4	380.0	379.7	379.3	378.7	377.8	376.9	375.7	374.3	372.8
C180.0	378.4	382.3	382.1	381.7	381.1	380.5	379.4	378.3	376.9	375.2
C210.0	378.4	374.3	374.2	373.8	373.3	372.6	371.9	370.7	369.5	368.0
C240.0	378.4	375.4	375.2	375.0	374.6	374.0	373.0	371.9	370.7	369.2
C270.0	378.4	377.3	377.0	376.8	376.3	375.7	374.8	373.8	372.5	371.0
C300.0	378.4	378.5	378.4	378.2	377.6	377.0	376.2	375.0	373.7	372.2
C330.0	378.4	380.0	379.7	379.3	378.7	377.8	376.9	375.7	374.3	372.8
C360.0	378.4	382.3	382.1	381.7	381.1	380.5	379.4	378.3	376.9	375.2
C\G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	373.6	371.6	369.3	366.9	364.3	361.5	358.3	354.8	351.4	347.8
C30.0	366.3	364.4	362.2	359.7	357.1	354.4	351.2	348.0	344.7	341.1
C60.0	367.4	365.3	363.4	360.9	358.3	355.5	352.4	349.1	345.6	342.1
C90.0	369.2	367.3	365.1	362.6	360.0	357.2	354.1	350.9	347.5	343.8
C120.0	370.3	368.4	366.2	363.7	361.1	358.1	354.9	351.5	348.2	344.4
C150.0	370.9	368.9	366.7	364.3	361.6	358.8	355.8	352.4	349.2	345.6
C180.0	373.6	371.6	369.3	366.9	364.3	361.5	358.3	354.8	351.4	347.8
C210.0	366.3	364.4	362.2	359.7	357.1	354.4	351.2	348.0	344.7	341.1
C240.0	367.4	365.3	363.4	360.9	358.3	355.5	352.4	349.1	345.6	342.1
C270.0	369.2	367.3	365.1	362.6	360.0	357.2	354.1	350.9	347.5	343.8
C300.0	370.3	368.4	366.2	363.7	361.1	358.1	354.9	351.5	348.2	344.4
C330.0	370.9	368.9	366.7	364.3	361.6	358.8	355.8	352.4	349.2	345.6
C360.0	373.6	371.6	369.3	366.9	364.3	361.5	358.3	354.8	351.4	347.8
C\G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	344.0	339.9	336.0	331.5	327.2	322.5	318.1	313.2	308.2	303.2
C30.0	337.3	333.4	329.2	325.0	320.8	316.3	311.4	307.0	302.3	297.0
C60.0	338.3	334.4	330.2	325.9	321.7	317.4	312.6	308.0	303.4	298.1
C90.0	339.8	336.0	331.9	327.5	323.3	318.7	313.9	309.4	304.4	299.2
C120.0	340.6	336.8	332.7	328.3	324.0	319.5	314.9	310.3	305.6	300.3
C150.0	341.6	337.7	333.6	329.1	325.1	320.4	315.5	311.0	306.0	300.7
C180.0	344.0	339.9	336.0	331.5	327.2	322.5	318.1	313.2	308.2	303.2
C210.0	337.3	333.4	329.2	325.0	320.8	316.3	311.4	307.0	302.3	297.0
C240.0	338.3	334.4	330.2	325.9	321.7	317.4	312.6	308.0	303.4	298.1
C270.0	339.8	336.0	331.9	327.5	323.3	318.7	313.9	309.4	304.4	299.2
C300.0	340.6	336.8	332.7	328.3	324.0	319.5	314.9	310.3	305.6	300.3
C330.0	341.6	337.7	333.6	329.1	325.1	320.4	315.5	311.0	306.0	300.7
C360.0	344.0	339.9	336.0	331.5	327.2	322.5	318.1	313.2	308.2	303.2

Light intensity data Unit[cd]

C\G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	298.1	292.9	287.7	282.3	276.9	271.5	266.0	260.3	255.0	249.2
C30.0	292.3	287.2	281.6	276.6	271.6	266.0	260.8	255.6	250.1	244.5
C60.0	293.3	288.3	282.8	277.7	272.7	267.0	261.7	256.5	250.9	245.2
C90.0	294.5	289.5	283.8	278.7	273.7	268.2	262.8	257.5	252.0	246.3
C120.0	295.4	290.5	284.9	279.8	274.6	269.0	263.5	258.3	252.6	246.9
C150.0	296.4	290.9	285.6	280.3	275.1	269.7	264.2	258.9	253.4	247.7
C180.0	298.1	292.9	287.7	282.3	276.9	271.5	266.0	260.3	255.0	249.2
C210.0	292.3	287.2	281.6	276.6	271.6	266.0	260.8	255.6	250.1	244.5
C240.0	293.3	288.3	282.8	277.7	272.7	267.0	261.7	256.5	250.9	245.2
C270.0	294.5	289.5	283.8	278.7	273.7	268.2	262.8	257.5	252.0	246.3
C300.0	295.4	290.5	284.9	279.8	274.6	269.0	263.5	258.3	252.6	246.9
C330.0	296.4	290.9	285.6	280.3	275.1	269.7	264.2	258.9	253.4	247.7
C360.0	298.1	292.9	287.7	282.3	276.9	271.5	266.0	260.3	255.0	249.2
C\G	G40.0	G41.0	G42.0	G43.0	G44.0	G45.0	G46.0	G47.0	G48.0	G49.0
C0.0	243.8	238.1	232.1	226.6	221.0	214.9	209.5	203.6	197.9	192.3
C30.0	239.3	233.6	227.8	222.5	216.8	211.0	205.6	199.9	194.0	188.7
C60.0	239.8	234.2	228.5	223.0	217.3	211.5	206.2	200.6	194.8	189.4
C90.0	241.0	235.3	229.5	224.1	218.4	212.5	207.0	201.3	195.4	190.0
C120.0	241.5	235.9	230.1	224.6	218.9	213.0	207.6	201.8	196.2	190.7
C150.0	242.3	236.6	230.7	225.3	219.7	213.8	208.2	202.4	196.6	191.1
C180.0	243.8	238.1	232.1	226.6	221.0	214.9	209.5	203.6	197.9	192.3
C210.0	239.3	233.6	227.8	222.5	216.8	211.0	205.6	199.9	194.0	188.7
C240.0	239.8	234.2	228.5	223.0	217.3	211.5	206.2	200.6	194.8	189.4
C270.0	241.0	235.3	229.5	224.1	218.4	212.5	207.0	201.3	195.4	190.0
C300.0	241.5	235.9	230.1	224.6	218.9	213.0	207.6	201.8	196.2	190.7
C330.0	242.3	236.6	230.7	225.3	219.7	213.8	208.2	202.4	196.6	191.1
C360.0	243.8	238.1	232.1	226.6	221.0	214.9	209.5	203.6	197.9	192.3
C\G	G50.0	G51.0	G52.0	G53.0	G54.0	G55.0	G56.0	G57.0	G58.0	G59.0
C0.0	186.6	181.1	175.2	169.6	164.1	158.3	152.2	146.7	140.8	134.7
C30.0	183.0	177.2	171.9	166.3	160.4	155.0	149.8	143.9	138.5	133.3
C60.0	183.8	178.1	172.6	167.2	161.4	155.9	150.2	144.4	139.0	133.6
C90.0	184.3	178.4	172.8	167.3	161.6	156.1	150.6	145.1	139.4	134.1
C120.0	184.8	179.1	173.7	168.3	162.3	156.9	151.2	145.4	140.0	134.4
C150.0	185.4	179.5	173.9	168.5	162.5	156.9	151.5	145.8	140.1	134.6
C180.0	186.6	181.1	175.2	169.6	164.1	158.3	152.2	146.7	140.8	134.7
C210.0	183.0	177.2	171.9	166.3	160.4	155.0	149.8	143.9	138.5	133.3
C240.0	183.8	178.1	172.6	167.2	161.4	155.9	150.2	144.4	139.0	133.6
C270.0	184.3	178.4	172.8	167.3	161.6	156.1	150.6	145.1	139.4	134.1
C300.0	184.8	179.1	173.7	168.3	162.3	156.9	151.2	145.4	140.0	134.4
C330.0	185.4	179.5	173.9	168.5	162.5	156.9	151.5	145.8	140.1	134.6
C360.0	186.6	181.1	175.2	169.6	164.1	158.3	152.2	146.7	140.8	134.7

Light intensity data Unit[cd]

C\G	G60.0	G61.0	G62.0	G63.0	G64.0	G65.0	G66.0	G67.0	G68.0	G69.0
C0.0	129.3	123.1	117.2	111.2	105.1	99.3	93.3	87.2	81.6	75.7
C30.0	127.3	122.1	116.7	111.0	105.3	99.8	93.9	88.0	82.6	76.7
C60.0	127.8	122.4	117.0	111.2	105.7	100.5	95.0	89.5	84.5	79.1
C90.0	128.4	122.9	117.4	111.9	106.3	101.0	95.3	89.8	84.7	79.1
C120.0	128.7	123.0	117.6	111.9	106.3	101.1	95.5	90.0	85.1	79.4
C150.0	129.0	123.3	117.9	112.4	106.6	101.3	95.5	89.8	84.4	78.4
C180.0	129.3	123.1	117.2	111.2	105.1	99.3	93.3	87.2	81.6	75.7
C210.0	127.3	122.1	116.7	111.0	105.3	99.8	93.9	88.0	82.6	76.7
C240.0	127.8	122.4	117.0	111.2	105.7	100.5	95.0	89.5	84.5	79.1
C270.0	128.4	122.9	117.4	111.9	106.3	101.0	95.3	89.8	84.7	79.1
C300.0	128.7	123.0	117.6	111.9	106.3	101.1	95.5	90.0	85.1	79.4
C330.0	129.0	123.3	117.9	112.4	106.6	101.3	95.5	89.8	84.4	78.4
C360.0	129.3	123.1	117.2	111.2	105.1	99.3	93.3	87.2	81.6	75.7
C\G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	69.9	64.2	58.6	53.0	47.6	42.7	37.6	32.6	28.2	24.0
C30.0	71.4	65.4	60.1	54.4	49.1	44.3	39.1	33.9	29.6	25.2
C60.0	73.7	68.5	63.7	58.6	53.6	48.9	44.3	39.5	34.9	30.8
C90.0	74.0	68.4	63.5	58.1	53.0	48.4	43.3	38.5	33.8	29.7
C120.0	74.0	69.0	64.0	58.8	53.8	49.1	44.3	39.4	35.1	30.5
C150.0	73.2	67.4	62.3	56.7	51.5	46.6	41.6	36.6	32.2	28.0
C180.0	69.9	64.2	58.6	53.0	47.6	42.7	37.6	32.6	28.2	24.0
C210.0	71.4	65.4	60.1	54.4	49.1	44.3	39.1	33.9	29.6	25.2
C240.0	73.7	68.5	63.7	58.6	53.6	48.9	44.3	39.5	34.9	30.8
C270.0	74.0	68.4	63.5	58.1	53.0	48.4	43.3	38.5	33.8	29.7
C300.0	74.0	69.0	64.0	58.8	53.8	49.1	44.3	39.4	35.1	30.5
C330.0	73.2	67.4	62.3	56.7	51.5	46.6	41.6	36.6	32.2	28.0
C360.0	69.9	64.2	58.6	53.0	47.6	42.7	37.6	32.6	28.2	24.0
C\G	G80.0	G81.0	G82.0	G83.0	G84.0	G85.0	G86.0	G87.0	G88.0	G89.0
C0.0	20.2	16.5	13.7	10.7	8.5	6.4	5.0	4.0	3.1	2.4
C30.0	21.1	17.6	14.2	11.2	8.6	6.4	4.5	3.0	1.9	1.5
C60.0	26.4	22.4	18.7	14.9	11.6	8.4	5.9	3.7	2.4	1.5
C90.0	25.5	21.5	17.7	14.1	10.7	7.5	5.2	3.0	1.7	1.2
C120.0	26.3	22.1	18.3	14.5	11.2	8.2	5.6	3.3	1.9	1.4
C150.0	24.0	20.2	16.8	13.6	10.9	8.6	7.0	5.4	3.9	2.7
C180.0	20.2	16.5	13.7	10.7	8.5	6.4	5.0	4.0	3.1	2.4
C210.0	21.1	17.6	14.2	11.2	8.6	6.4	4.5	3.0	1.9	1.5
C240.0	26.4	22.4	18.7	14.9	11.6	8.4	5.9	3.7	2.4	1.5
C270.0	25.5	21.5	17.7	14.1	10.7	7.5	5.2	3.0	1.7	1.2
C300.0	26.3	22.1	18.3	14.5	11.2	8.2	5.6	3.3	1.9	1.4
C330.0	24.0	20.2	16.8	13.6	10.9	8.6	7.0	5.4	3.9	2.7
C360.0	20.2	16.5	13.7	10.7	8.5	6.4	5.0	4.0	3.1	2.4

Light intensity data Unit[cd]

C\G	G90.0									
C0.0	1.9									
C30.0	1.3									
C60.0	1.3									
C90.0	1.1									
C120.0	1.2									
C150.0	1.7									
C180.0	1.9									
C210.0	1.3									
C240.0	1.3									
C270.0	1.1									
C300.0	1.2									
C330.0	1.7									
C360.0	1.9									

Zonal Luminous Flux Data

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0.0	378.36	0.00	0.00	0.00	0.00
0.0-1.0	377.97	0.36	0.36	0.04	0.04
1.0-2.0	377.79	1.08	1.45	0.12	0.16
2.0-3.0	377.46	1.81	3.25	0.20	0.36
3.0-4.0	376.92	2.53	5.78	0.28	0.63
4.0-5.0	376.27	3.24	9.02	0.35	0.99
5.0-6.0	375.38	3.95	12.97	0.43	1.42
6.0-7.0	374.22	4.65	17.62	0.51	1.93
7.0-8.0	372.93	5.35	22.97	0.58	2.51
8.0-9.0	371.38	6.03	29.00	0.66	3.17
9.0-10.0	369.61	6.71	35.71	0.73	3.90
10.0-11.0	367.64	7.37	43.07	0.81	4.71
11.0-12.0	365.48	8.01	51.09	0.88	5.59
12.0-13.0	363.03	8.65	59.73	0.95	6.53
13.0-14.0	360.40	9.26	68.99	1.01	7.54
14.0-15.0	357.57	9.86	78.85	1.08	8.62
15.0-16.0	354.45	10.43	89.28	1.14	9.76
16.0-17.0	351.11	10.99	100.27	1.20	10.97
17.0-18.0	347.77	11.52	111.79	1.26	12.23
18.0-19.0	344.13	12.04	123.83	1.32	13.54
19.0-20.0	340.26	12.53	136.36	1.37	14.91
20.0-21.0	336.38	12.99	149.35	1.42	16.33
21.0-22.0	332.26	13.44	162.79	1.47	17.80
22.0-23.0	327.87	13.85	176.64	1.51	19.32
23.0-24.0	323.68	14.25	190.88	1.56	20.87
24.0-25.0	319.13	14.62	205.50	1.60	22.47
25.0-26.0	314.40	14.95	220.45	1.64	24.11
26.0-27.0	309.80	15.27	235.72	1.67	25.78
27.0-28.0	304.99	15.57	251.29	1.70	27.48
28.0-29.0	299.73	15.82	267.11	1.73	29.21
29.0-30.0	294.98	16.06	283.17	1.76	30.97
30.0-31.0	289.87	16.28	299.44	1.78	32.75
31.0-32.0	284.40	16.45	315.90	1.80	34.55
32.0-33.0	279.22	16.60	332.50	1.82	36.36
33.0-34.0	274.09	16.74	349.25	1.83	38.19
34.0-35.0	268.56	16.85	366.10	1.84	40.04
35.0-36.0	263.16	16.93	383.03	1.85	41.89
36.0-37.0	257.84	16.99	400.02	1.86	43.75
37.0-38.0	252.33	17.03	417.05	1.86	45.61
38.0-39.0	246.66	17.03	434.08	1.86	47.47
39.0-40.0	241.28	17.02	451.10	1.86	49.33

Zonal Luminous Flux Data

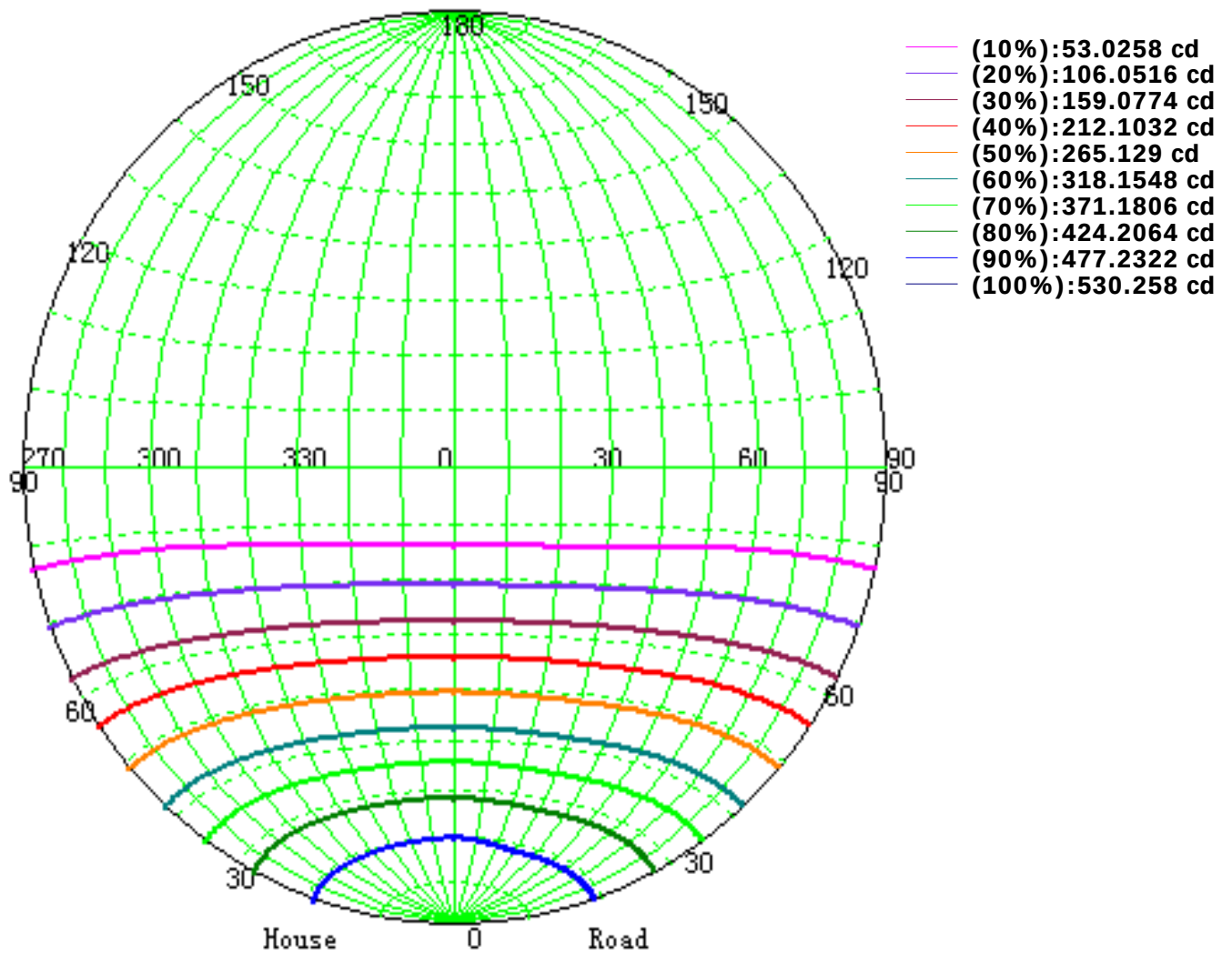
Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
40.0-41.0	235.61	16.98	468.08	1.86	51.19
41.0-42.0	229.79	16.91	484.99	1.85	53.04
42.0-43.0	224.36	16.82	501.81	1.84	54.88
43.0-44.0	218.69	16.72	518.53	1.83	56.71
44.0-45.0	212.78	16.58	535.12	1.81	58.52
45.0-46.0	207.33	16.43	551.55	1.80	60.32
46.0-47.0	201.60	16.26	567.81	1.78	62.09
47.0-48.0	195.83	16.07	583.88	1.76	63.85
48.0-49.0	190.37	15.86	599.74	1.73	65.59
49.0-50.0	184.66	15.64	615.37	1.71	67.30
50.0-51.0	178.90	15.38	630.75	1.68	68.98
51.0-52.0	173.37	15.12	645.87	1.65	70.63
52.0-53.0	167.85	14.84	660.71	1.62	72.25
53.0-54.0	162.07	14.54	675.26	1.59	73.84
54.0-55.0	156.51	14.22	689.48	1.56	75.40
55.0-56.0	150.93	13.89	703.37	1.52	76.92
56.0-57.0	145.21	13.54	716.91	1.48	78.40
57.0-58.0	139.62	13.17	730.08	1.44	79.84
58.0-59.0	134.11	12.80	742.88	1.40	81.24
59.0-60.0	128.42	12.40	755.28	1.36	82.60
60.0-61.0	122.78	11.99	767.27	1.31	83.91
61.0-62.0	117.32	11.57	778.84	1.27	85.17
62.0-63.0	111.60	11.13	789.97	1.22	86.39
63.0-64.0	105.89	10.67	800.64	1.17	87.56
64.0-65.0	100.50	10.21	810.86	1.12	88.67
65.0-66.0	94.74	9.74	820.60	1.07	89.74
66.0-67.0	89.05	9.24	829.84	1.01	90.75
67.0-68.0	83.82	8.76	838.59	0.96	91.71
68.0-69.0	78.05	8.26	846.85	0.90	92.61
69.0-70.0	72.71	7.74	854.59	0.85	93.46
70.0-71.0	67.16	7.23	861.82	0.79	94.25
71.0-72.0	62.02	6.72	868.54	0.73	94.98
72.0-73.0	56.62	6.20	874.75	0.68	95.66
73.0-74.0	51.47	5.68	880.43	0.62	96.28
74.0-75.0	46.65	5.18	885.61	0.57	96.85
75.0-76.0	41.70	4.69	890.30	0.51	97.36
76.0-77.0	36.75	4.18	894.49	0.46	97.82
77.0-78.0	32.29	3.70	898.18	0.40	98.22
78.0-79.0	28.04	3.24	901.42	0.35	98.58
79.0-80.0	23.92	2.80	904.22	0.31	98.88
80.0-81.0	20.06	2.38	906.60	0.26	99.14



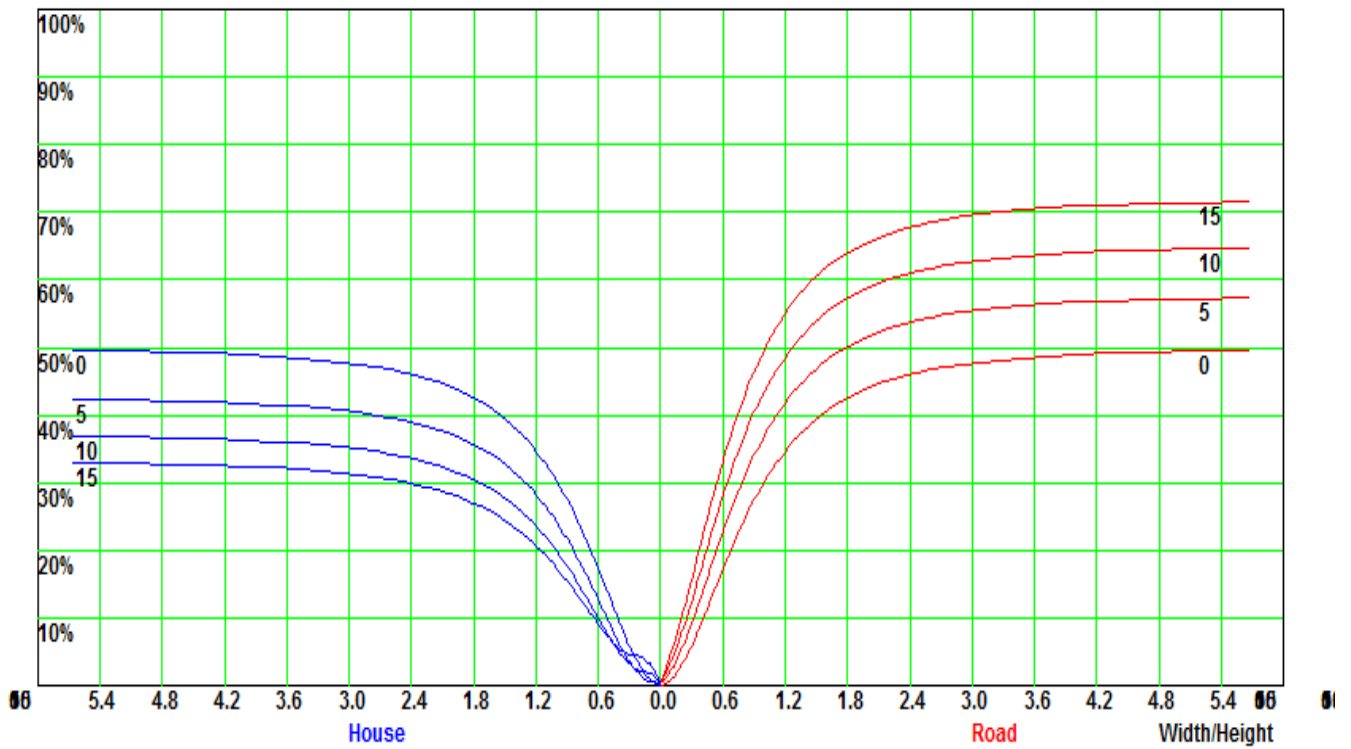
Zonal Luminous Flux Data

[illegible]

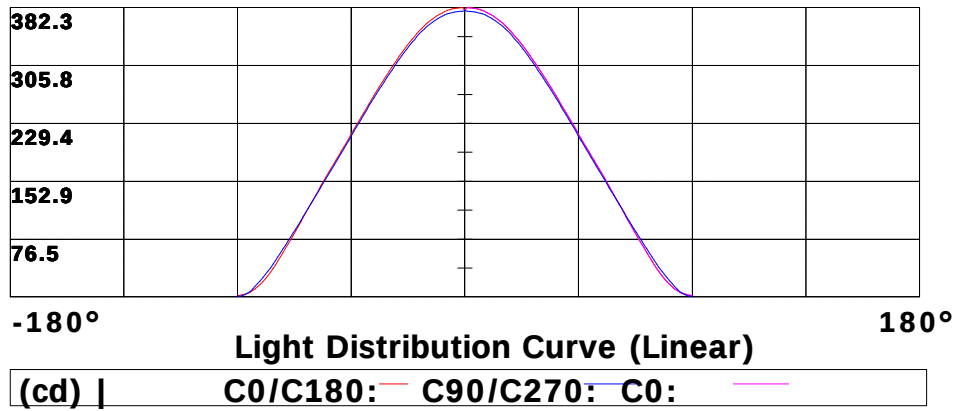
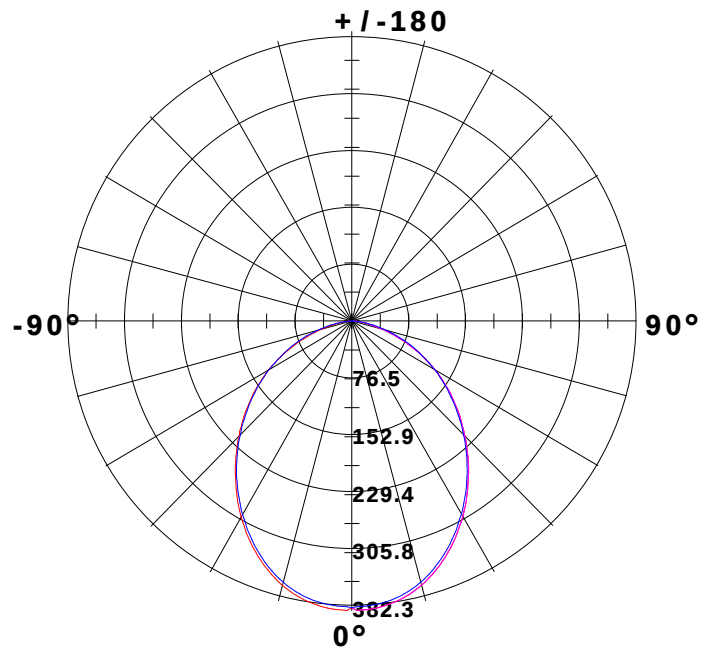
Iso-Candela [cd]

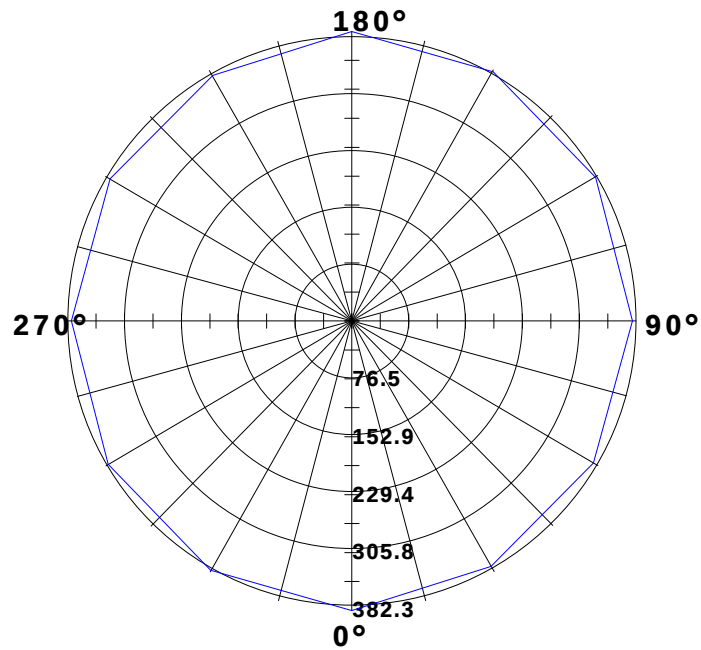


Coefficient Utilization Curve



Light Distribution Curve [Unit: cd]





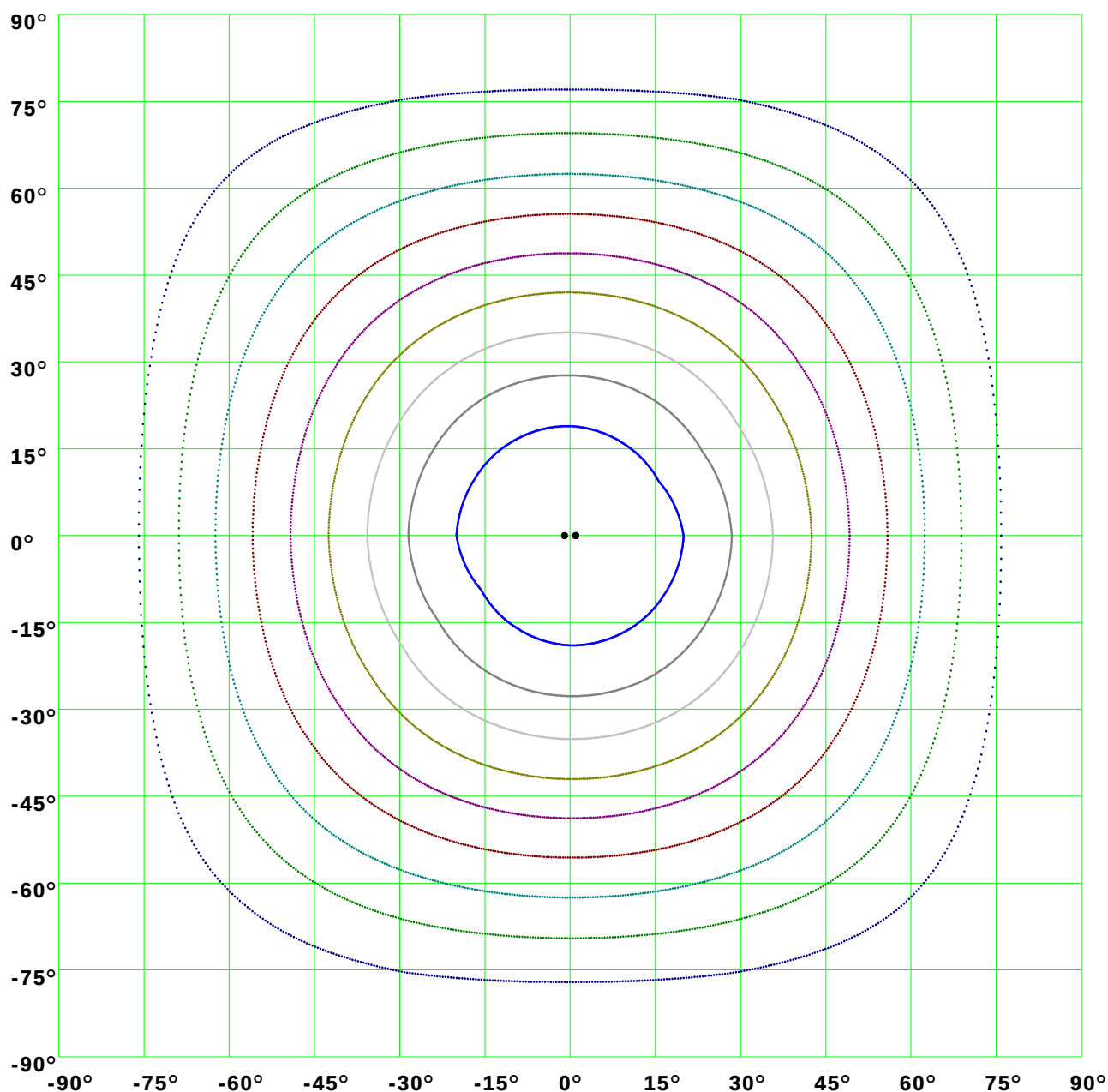
382.3						
305.8						
229.4						
152.9						
76.5						

-180° 180°

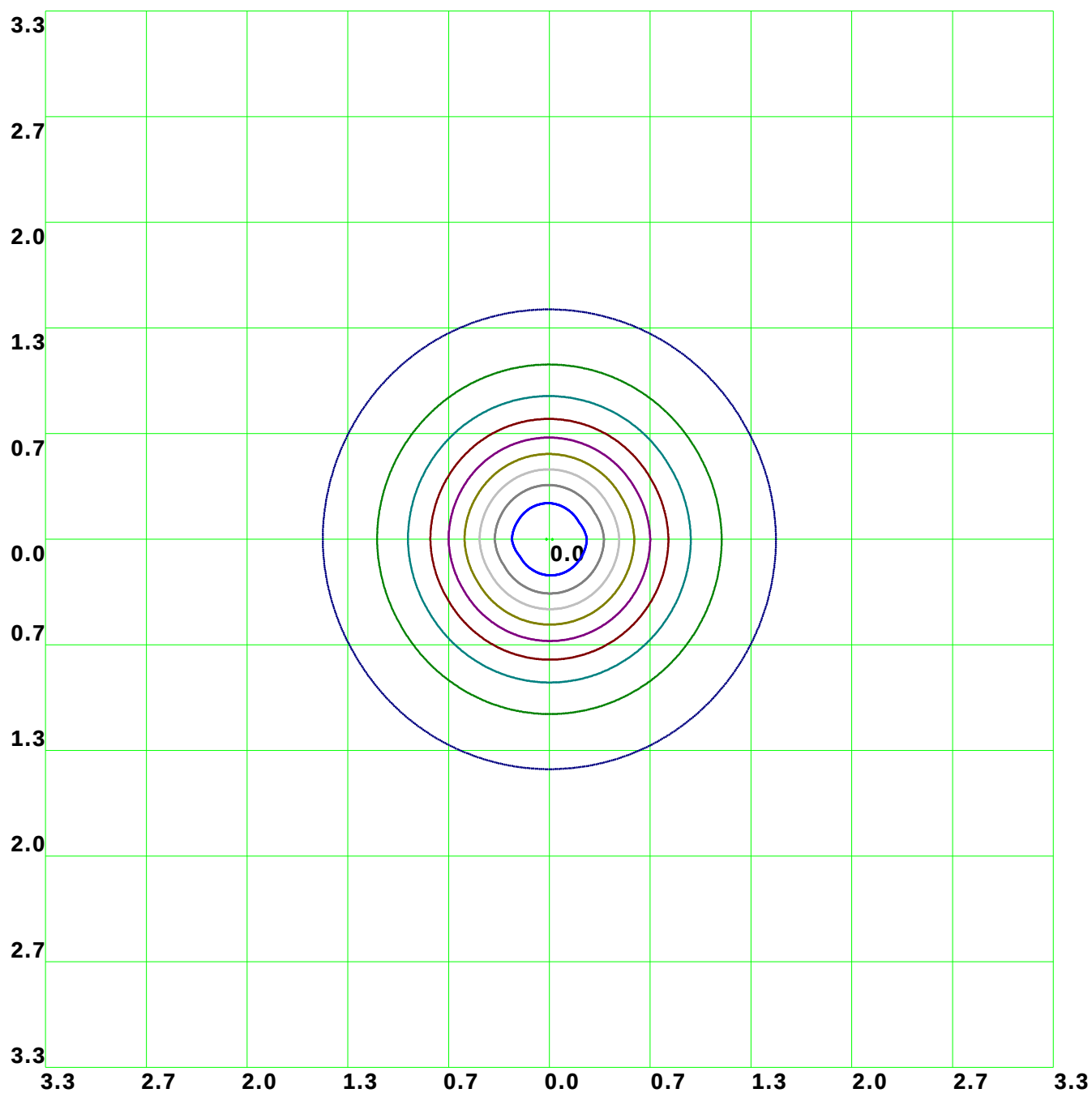
Light Distribution Curve (Linear)

(cd) | γ1:

Isocandela(rectangle)



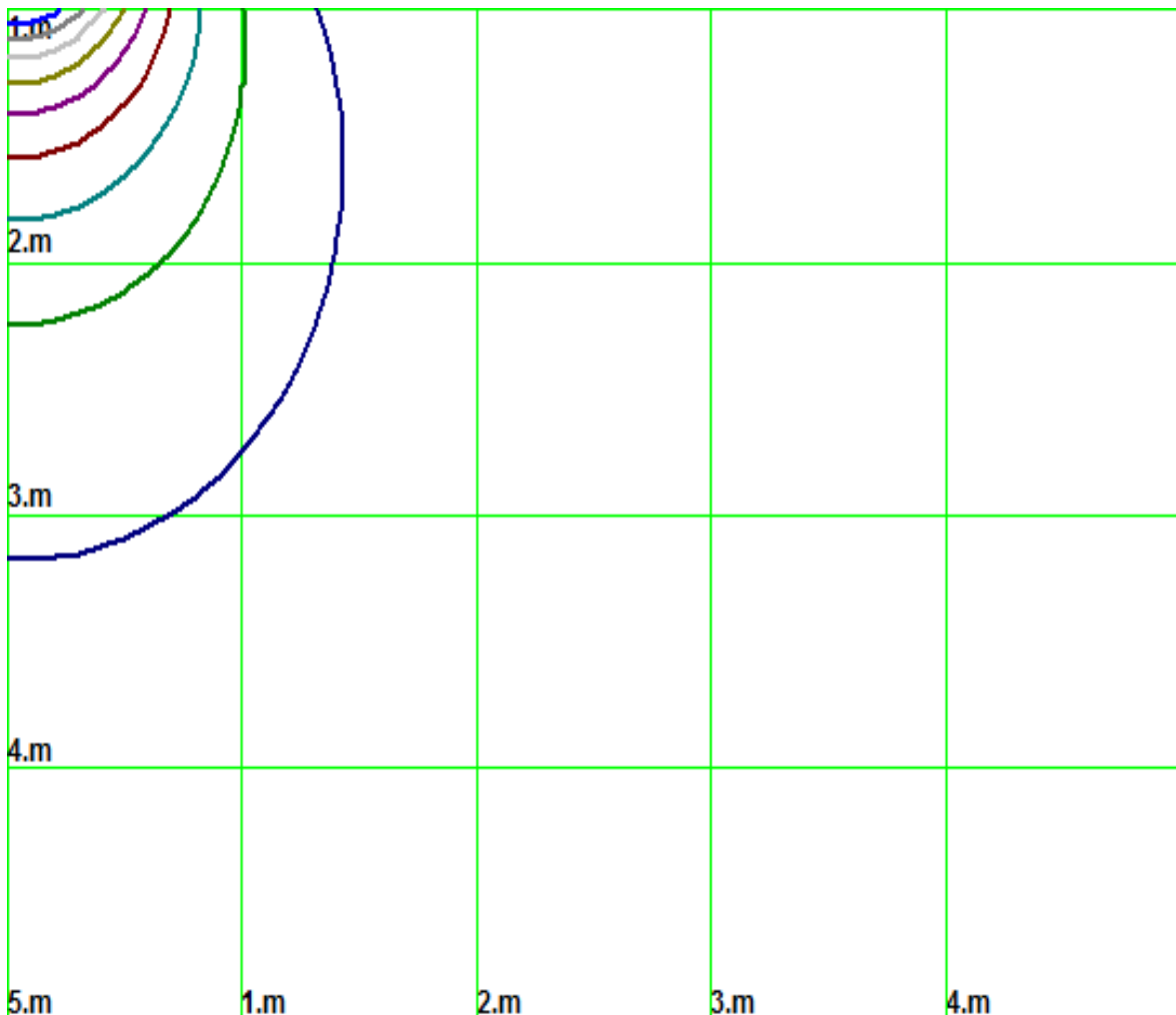
Isolx curve



Height: 1 m

(10%): 38.2lx	(20%): 76.5lx	(30%): 114.7lx	(40%): 152.9lx
(50%): 191.2lx	(60%): 229.4lx	(70%): 267.6lx	(80%): 305.9lx
(90%): 344.1lx	(100%): 381.9lx		

Space Isolx Curve



— (10%): 38.2lx	— (20%): 76.5lx	— (30%): 114.7lx	— (40%): 152.9lx
— (50%): 191.2lx	— (60%): 229.4lx	— (70%): 267.6lx	— (80%): 305.9lx
— (90%): 344.1lx	— (100%): 381.9lx		

Luminance Limiting Curve

Diameter: 0mm

Length: 0mm

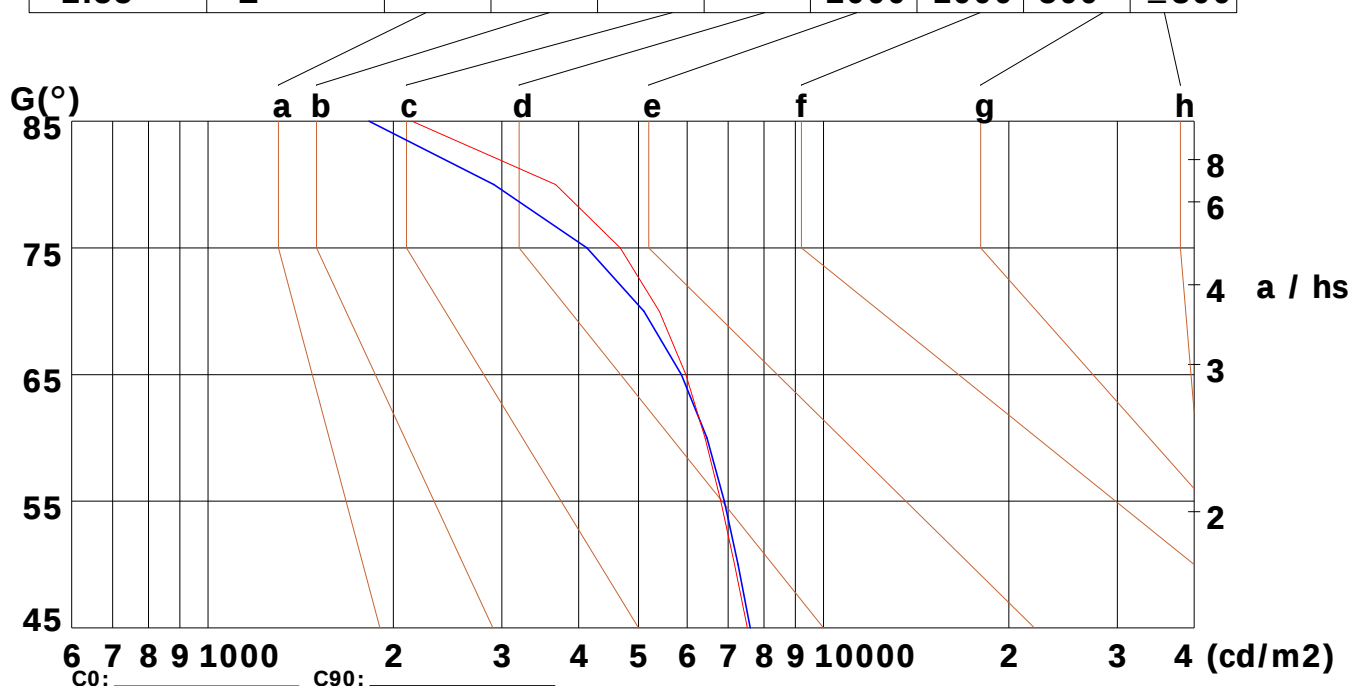
Width: 0mm

Height: 0mm

(cd/m²)

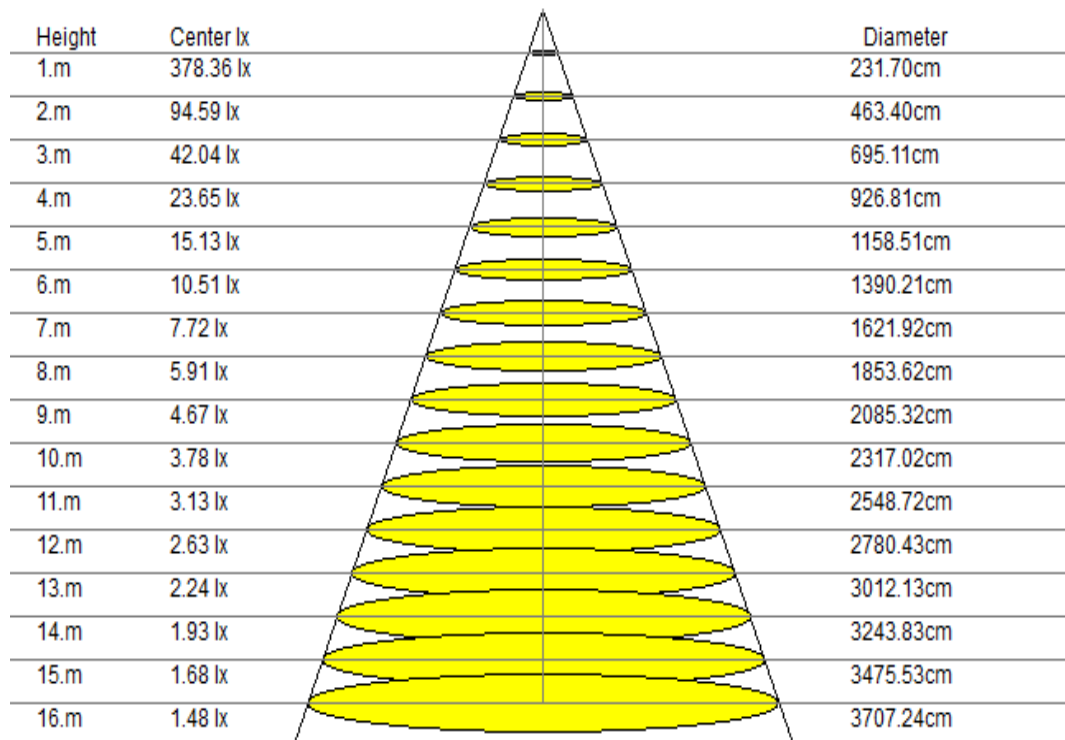
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	7512	7169	6803	6420	5975	5412	4673	3669	2145
C90	7599	7257	6899	6463	5871	5108	4125	2911	1825

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

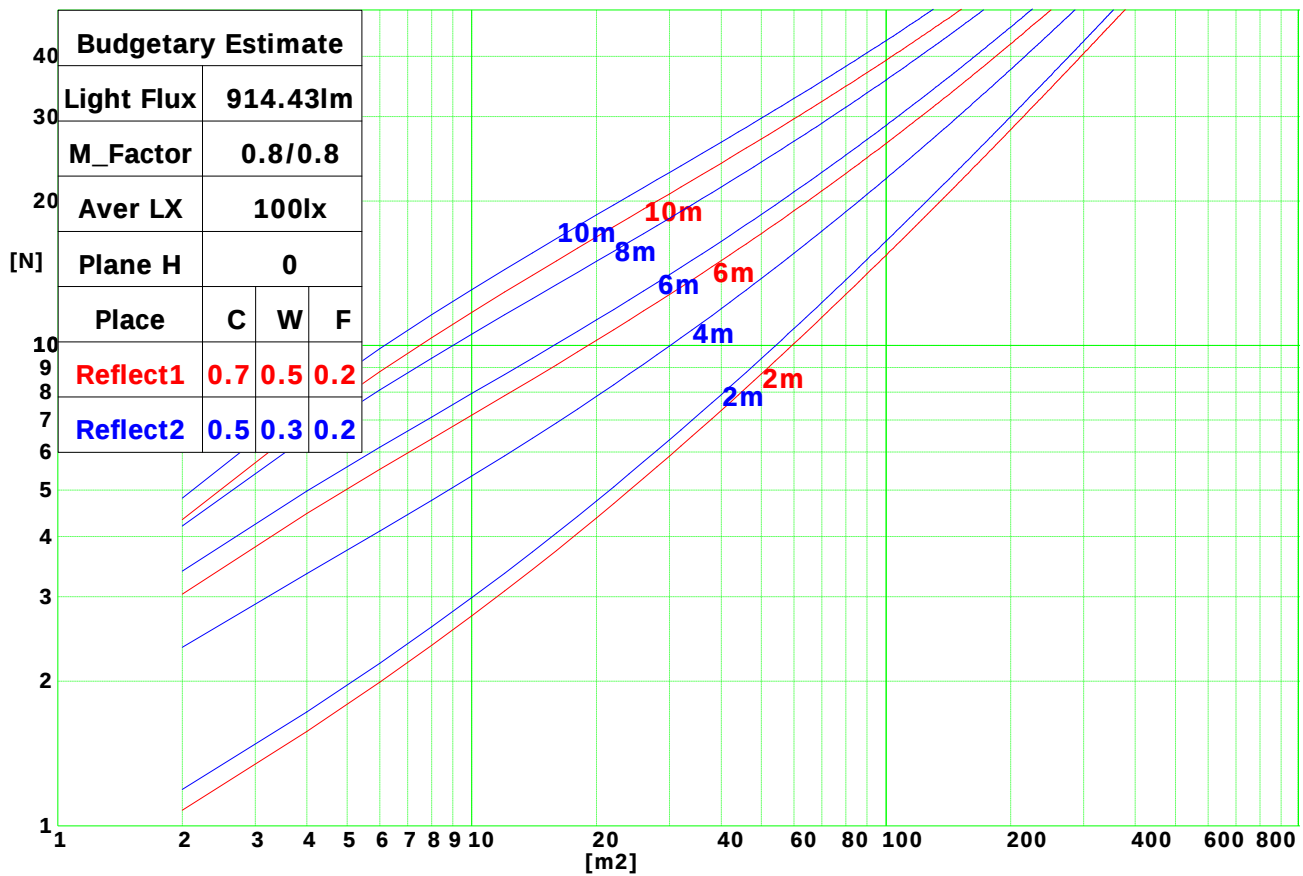


Beam Angle:98.40°(50%Imax)

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	1.06	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	0.91	0.89	0.87	0.90	0.87	0.85	0.88	0.84	0.82	0.84	0.81	0.77	0.80	0.76	0.72	0.68
3	0.78	0.76	0.74	0.78	0.75	0.72	0.77	0.73	0.69	0.75	0.70	0.66	0.71	0.66	0.62	0.58
4	0.68	0.66	0.64	0.69	0.65	0.62	0.68	0.63	0.60	0.66	0.61	0.57	0.64	0.58	0.54	0.50
5	0.60	0.57	0.56	0.61	0.57	0.54	0.61	0.56	0.52	0.60	0.54	0.50	0.58	0.52	0.47	0.43
6	0.53	0.51	0.49	0.54	0.50	0.48	0.54	0.50	0.46	0.54	0.48	0.44	0.53	0.47	0.42	0.38
7	0.48	0.45	0.44	0.48	0.45	0.43	0.49	0.44	0.41	0.49	0.44	0.39	0.49	0.42	0.37	0.34
8	0.43	0.41	0.39	0.44	0.40	0.38	0.45	0.40	0.37	0.45	0.39	0.35	0.45	0.39	0.34	0.30
9	0.39	0.37	0.35	0.40	0.37	0.35	0.41	0.36	0.33	0.42	0.36	0.32	0.42	0.35	0.30	0.27
10	0.36	0.33	0.32	0.37	0.33	0.32	0.38	0.33	0.30	0.39	0.33	0.29	0.39	0.32	0.28	0.25

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		Left to light axis direction of observation					Direction of light axis parallel observation				
X	Y										
2H	2H	14.7	15.9	15.0	16.0	16.5	14.5	15.8	14.8	15.9	16.4
	3H	16.4	17.4	16.6	17.7	18.0	16.1	17.3	16.6	17.8	18.0
	4H	17.1	18.0	17.4	18.6	18.7	17.0	17.9	17.2	18.6	18.7
	6H	17.5	18.6	18.0	18.8	19.1	17.4	18.4	17.8	18.8	19.0
	8H	17.9	18.9	18.1	18.9	19.4	17.7	18.7	18.0	19.0	19.3
4H	12H	18.0	18.9	18.3	19.3	19.6	17.8	18.8	18.1	19.2	19.6
	2H	15.8	16.7	15.7	16.9	17.1	15.7	16.6	15.7	16.8	17.1
	3H	17.4	18.3	17.7	18.4	18.9	17.3	18.3	17.6	18.5	18.7
	4H	18.1	19.1	18.5	19.2	19.6	18.0	18.9	18.4	19.1	19.4
	6H	18.9	19.6	19.1	19.7	20.1	18.6	19.4	19.1	19.8	20.0
8H	8H	19.0	19.7	19.4	19.9	20.4	18.9	19.6	19.4	20.0	20.3
	12H	19.3	19.9	19.6	20.0	20.4	19.1	19.8	19.5	20.2	20.4
	4H	18.6	19.1	18.8	19.3	19.9	18.4	19.1	18.7	19.3	19.9
	6H	19.4	19.9	19.7	20.2	20.5	19.3	19.8	19.7	20.3	20.5
	8H	19.7	20.1	20.2	20.5	20.9	19.6	20.0	20.0	20.4	20.9
12H	12H	20.0	20.4	20.4	20.8	21.2	19.8	20.3	20.3	20.8	21.2
	4H	18.6	19.1	19.1	19.4	19.9	18.4	19.1	18.9	19.5	19.8
	6H	19.5	19.9	19.9	20.3	20.6	19.5	20.0	19.8	20.3	20.6
	8H	19.8	20.4	20.4	20.5	21.0	19.7	20.2	20.3	20.5	21.1