



Luminaire Property

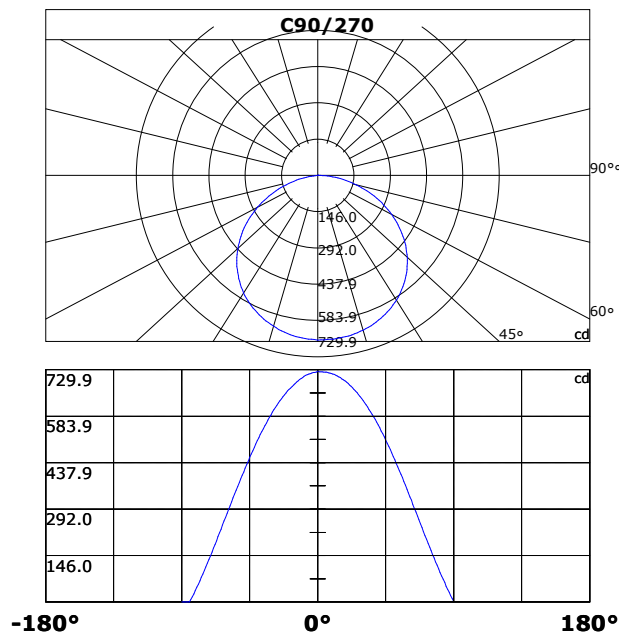
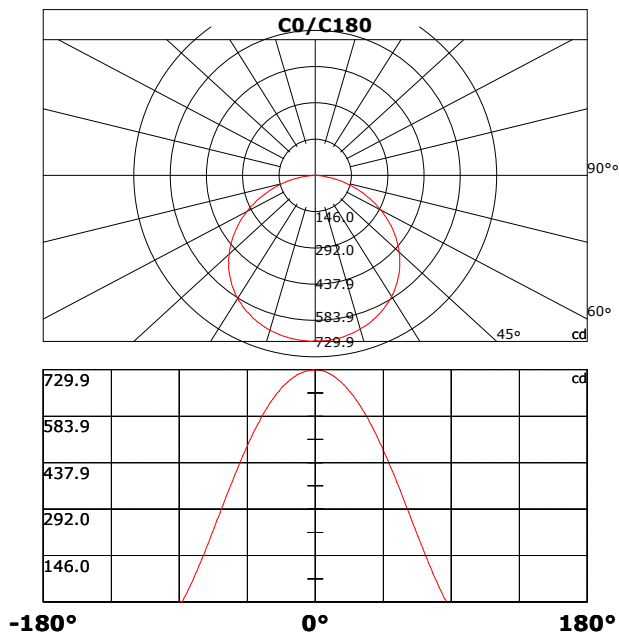
Luminaire Description: B1084-BF
 Luminaire Categorie: DOWNLIGHT 24W
 Lamp Categorie: LED
 Lamp Description: BLANCO FRIO 6000K
 Number of Lamp: 1
 Lamp Lumens(lm): 2048.2
 Luminous Length(m): 0.3
 Luminous Width(m): 0.3
 Luminous Height(m): 0.03

Voltage: 229.9 V
 Current: 0.202 A
 Power: 25.91 W
 Power Factor: 0.557
 Test Lab: BLED
 Photometric Type: Type C
 Manufactory: BLED

Photometric Results

CIE Class: Direct
 Luminaire Lumens: 2048.20 lm
 Efficiency: 79.0506 lm/W
 Central Intensity: 725.546cd
 Max. Intensity: 729.864cd
 Field Angle(10%Imax): NA

Max.Intensity Angle: C:180.0 G:1.0
 Beam Angle(50%Imax): L: -55.2 R:55.9
 Luminaire Efficacy Rating(LER) : 89.0522%
 Upward Ratio: NA
 Downward Ratio: NA
 Beamwidth(50%Imax): H=115.8V=116.51





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	725.5	729.8	728.8	728.3	727.5	726.2	725.0	723.8	721.5	718.8
C45.0	725.5	721.7	722.2	722.7	722.6	722.0	721.4	720.7	719.7	718.7
C90.0	725.5	723.5	723.8	723.5	723.1	722.6	721.9	720.9	719.6	718.4
C135.0	725.5	726.2	726.1	725.7	725.7	724.1	723.2	721.9	720.4	719.2
C180.0	725.5	729.9	729.2	728.9	728.0	727.2	725.9	724.6	722.9	720.7
C225.0	725.5	720.6	719.6	718.1	716.9	714.9	713.1	710.8	708.4	705.4
C270.0	725.5	722.5	721.5	721.1	718.9	717.6	716.1	714.4	712.4	709.4
C315.0	725.5	726.0	724.6	723.7	723.0	721.7	720.5	718.7	716.8	714.7
C360.0	725.5	729.8	728.8	728.3	727.5	726.2	725.0	723.8	721.5	718.8
C\G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	716.2	713.2	710.3	706.8	703.1	699.4	695.8	691.6	687.2	682.5
C45.0	717.0	715.6	713.2	711.5	708.9	706.5	703.6	700.6	696.7	693.7
C90.0	716.6	714.8	712.5	710.2	707.2	704.7	701.5	698.6	695.0	690.9
C135.0	716.7	715.2	712.3	709.7	706.3	703.4	700.5	696.7	692.8	688.9
C180.0	718.8	716.6	714.2	710.9	707.6	704.4	700.7	697.2	692.7	688.2
C225.0	703.1	699.4	696.5	692.5	688.4	684.2	680.1	675.4	670.7	665.4
C270.0	705.7	702.5	699.0	695.6	690.9	686.6	681.9	677.6	672.8	668.0
C315.0	711.9	709.2	706.2	703.2	700.1	696.3	692.4	688.4	684.5	679.6
C360.0	716.2	713.2	710.3	706.8	703.1	699.4	695.8	691.6	687.2	682.5
C\G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	677.3	672.4	666.3	660.3	655.1	649.3	642.7	634.9	629.4	622.3
C45.0	689.8	685.9	681.7	677.5	672.7	668.1	662.4	657.0	651.6	645.6
C90.0	686.9	682.2	678.3	673.2	668.5	662.9	658.2	652.6	645.8	639.7
C135.0	684.7	680.3	675.2	670.2	664.8	659.1	653.3	647.5	641.2	634.5
C180.0	684.2	679.1	674.7	668.3	662.7	658.3	651.4	645.4	638.0	631.9
C225.0	660.0	654.7	648.8	643.0	636.1	630.0	623.4	615.8	608.9	601.0
C270.0	662.9	657.4	650.8	644.6	638.9	632.7	626.3	618.2	611.6	604.5
C315.0	674.6	669.6	664.5	659.3	653.4	647.1	640.9	634.5	628.0	620.5
C360.0	677.3	672.4	666.3	660.3	655.1	649.3	642.7	634.9	629.4	622.3
C\G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	614.7	607.2	599.3	590.9	582.6	574.6	564.6	556.3	547.2	538.3
C45.0	639.3	633.0	626.8	620.0	613.1	605.4	597.4	590.1	582.2	573.0
C90.0	633.3	627.4	619.8	612.6	605.3	597.8	590.0	581.5	573.6	565.4
C135.0	627.5	620.8	614.0	606.5	597.7	590.5	582.1	574.0	565.5	555.7
C180.0	624.9	617.7	609.9	601.4	594.3	586.5	577.4	567.5	559.2	550.3
C225.0	593.3	585.4	576.7	567.5	559.0	550.8	541.6	532.1	520.5	510.5
C270.0	596.6	587.7	580.3	571.3	562.4	554.6	544.4	535.3	525.9	516.7
C315.0	613.6	605.9	598.1	590.2	581.6	574.0	565.3	555.7	545.5	535.7
C360.0	614.7	607.2	599.3	590.9	582.6	574.6	564.6	556.3	547.2	538.3



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	528.7	518.4	508.6	498.5	488.7	477.0	466.7	455.8	445.6	433.4
C45.0	565.1	556.6	547.7	539.0	528.5	520.3	509.4	500.5	488.6	479.2
C90.0	556.8	547.5	537.6	529.0	519.7	509.6	499.6	488.6	478.6	468.5
C135.0	547.3	538.0	528.4	518.4	508.1	498.7	487.6	478.6	466.3	457.0
C180.0	540.8	531.6	521.0	511.7	501.1	490.4	480.1	469.1	458.8	447.9
C225.0	500.0	489.6	477.9	466.5	456.1	444.0	431.7	418.3	405.2	392.6
C270.0	506.9	496.2	485.9	475.4	465.3	453.7	443.0	432.0	421.4	409.2
C315.0	526.0	515.9	504.9	494.5	483.5	472.5	461.4	448.4	436.4	424.2
C360.0	528.7	518.4	508.6	498.5	488.7	477.0	466.7	455.8	445.6	433.4
C\G	G50.0	G51.0	G52.0	G53.0	G54.0	G55.0	G56.0	G57.0	G58.0	G59.0
C0.0	422.7	411.6	400.5	388.8	376.5	364.1	352.8	341.1	328.6	315.8
C45.0	468.7	458.4	446.6	435.5	425.4	414.2	403.0	390.5	378.4	368.4
C90.0	456.9	446.7	435.4	424.7	412.7	401.9	390.3	378.8	367.6	354.7
C135.0	445.0	434.6	423.3	410.8	400.3	388.6	377.4	364.2	352.3	341.9
C180.0	436.0	424.9	413.1	402.3	389.8	378.6	367.2	354.5	342.0	329.7
C225.0	383.0	371.2	359.5	347.7	334.0	322.1	309.3	296.7	285.0	272.6
C270.0	398.1	387.1	375.4	364.0	351.2	339.1	327.5	315.5	302.1	290.1
C315.0	414.4	402.9	392.0	379.5	367.4	356.0	343.1	331.2	319.4	307.3
C360.0	422.7	411.6	400.5	388.8	376.5	364.1	352.8	341.1	328.6	315.8
C\G	G60.0	G61.0	G62.0	G63.0	G64.0	G65.0	G66.0	G67.0	G68.0	G69.0
C0.0	304.0	291.9	280.4	267.1	254.7	242.9	230.8	218.6	206.3	194.6
C45.0	355.8	343.7	331.3	319.9	309.1	295.6	283.3	270.8	259.3	246.3
C90.0	343.5	330.7	319.7	306.6	294.4	283.5	270.3	258.9	245.9	233.9
C135.0	329.0	316.8	304.3	292.6	281.0	268.4	255.7	243.1	231.8	218.8
C180.0	319.0	305.6	294.1	281.5	268.5	257.7	244.1	232.6	219.3	207.6
C225.0	259.8	247.4	236.0	224.0	211.4	198.7	186.2	174.7	163.7	150.8
C270.0	278.6	266.2	254.7	241.4	229.1	217.2	205.4	192.2	181.0	169.3
C315.0	294.6	282.4	271.2	259.9	246.8	233.9	221.9	210.1	198.7	186.1
C360.0	304.0	291.9	280.4	267.1	254.7	242.9	230.8	218.6	206.3	194.6
C\G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	181.5	169.8	158.4	145.7	134.9	123.2	111.4	100.6	89.0	77.6
C45.0	234.8	222.5	209.2	197.8	185.3	173.5	161.4	149.0	137.7	126.4
C90.0	221.9	208.8	197.5	184.8	172.9	161.8	148.3	137.9	126.0	115.8
C135.0	207.0	195.2	182.0	170.9	158.3	146.7	134.1	122.7	111.3	101.1
C180.0	195.9	182.2	171.5	158.8	147.1	136.3	123.3	113.3	101.0	91.1
C225.0	139.3	127.2	116.5	104.3	94.3	83.1	72.5	61.8	52.3	41.1
C270.0	157.4	145.4	134.1	121.7	110.5	100.2	88.3	78.1	66.9	55.9
C315.0	173.8	161.6	150.5	138.3	128.1	115.7	105.5	93.7	83.2	71.5
C360.0	181.5	169.8	158.4	145.7	134.9	123.2	111.4	100.6	89.0	77.6



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	67.4	56.9	46.1	36.3	26.6	17.0	8.4	0.3	0.0	0.0
C45.0	115.0	103.4	92.3	82.2	71.8	60.8	50.9	40.6	31.2	21.6
C90.0	104.2	93.0	82.5	71.6	61.3	50.0	39.8	30.5	20.3	11.1
C135.0	89.5	78.8	67.7	57.6	47.1	37.0	26.9	16.9	7.6	0.0
C180.0	80.0	69.0	59.3	48.2	39.1	28.7	19.3	10.6	0.7	0.0
C225.0	32.1	22.9	13.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0
C270.0	46.3	35.9	25.8	16.2	7.4	0.0	0.0	0.0	0.0	0.0
C315.0	61.8	51.1	40.8	30.5	20.5	12.0	3.7	0.0	0.0	0.0
C360.0	67.4	56.9	46.1	36.3	26.6	17.0	8.4	0.3	0.0	0.0
C\G	G90.0									
C0.0	0.0									
C45.0	12.6									
C90.0	1.7									
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

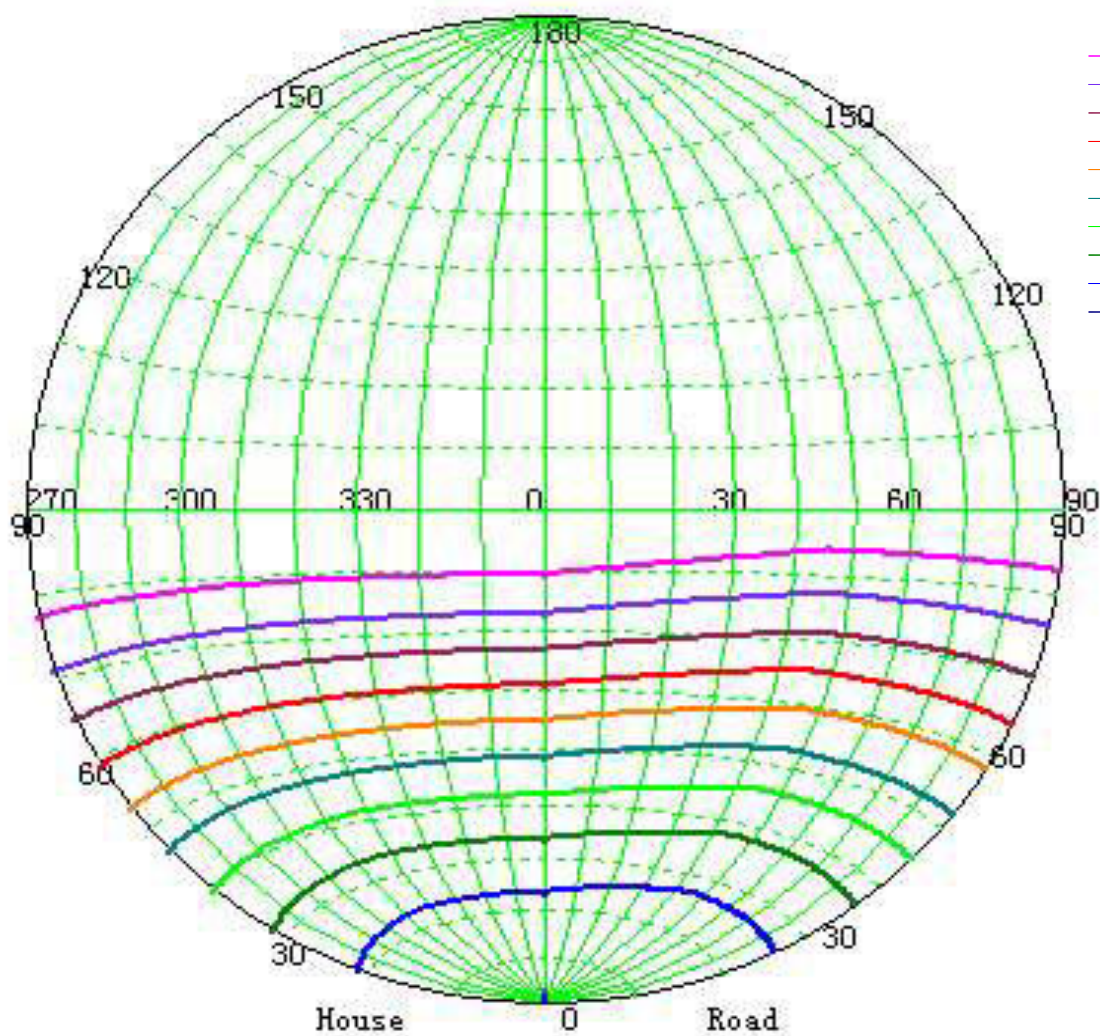
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0.0	725.55	0.00	0.00	0.00	0.00
0.0-1.0	725.02	0.69	0.69	0.03	0.03
1.0-2.0	724.47	2.08	2.77	0.09	0.12
2.0-3.0	723.99	3.46	6.24	0.15	0.27
3.0-4.0	723.21	4.84	11.08	0.21	0.48
4.0-5.0	722.05	6.22	17.30	0.27	0.75
5.0-6.0	720.90	7.58	24.88	0.33	1.08
6.0-7.0	719.47	8.94	33.82	0.39	1.47
7.0-8.0	717.71	10.29	44.11	0.45	1.92
8.0-9.0	715.67	11.62	55.73	0.51	2.42
9.0-10.0	713.23	12.93	68.66	0.56	2.99
10.0-11.0	710.81	14.23	82.89	0.62	3.60
11.0-12.0	708.03	15.51	98.40	0.67	4.28
12.0-13.0	705.03	16.77	115.17	0.73	5.01
13.0-14.0	701.56	18.00	133.17	0.78	5.79
14.0-15.0	698.19	19.22	152.39	0.84	6.63
15.0-16.0	694.57	20.41	172.79	0.89	7.51
16.0-17.0	690.76	21.57	194.37	0.94	8.45
17.0-18.0	686.55	22.71	217.08	0.99	9.44
18.0-19.0	682.16	23.81	240.89	1.04	10.47
19.0-20.0	677.54	24.89	265.78	1.08	11.56
20.0-21.0	672.71	25.93	291.70	1.13	12.68
21.0-22.0	667.54	26.93	318.64	1.17	13.85
22.0-23.0	662.05	27.90	346.53	1.21	15.07
23.0-24.0	656.52	28.83	375.36	1.25	16.32
24.0-25.0	650.94	29.73	405.09	1.29	17.61
25.0-26.0	644.81	30.59	435.68	1.33	18.94
26.0-27.0	638.24	31.39	467.07	1.36	20.31
27.0-28.0	631.82	32.16	499.22	1.40	21.71
28.0-29.0	625.00	32.88	532.11	1.43	23.14
29.0-30.0	617.93	33.56	565.66	1.46	24.59
30.0-31.0	610.64	34.19	599.85	1.49	26.08
31.0-32.0	603.12	34.77	634.63	1.51	27.59
32.0-33.0	595.05	35.30	669.93	1.53	29.13
33.0-34.0	587.00	35.77	705.70	1.56	30.68
34.0-35.0	579.25	36.22	741.92	1.57	32.26
35.0-36.0	570.33	36.60	778.52	1.59	33.85
36.0-37.0	561.56	36.92	815.44	1.61	35.45
37.0-38.0	552.45	37.18	852.62	1.62	37.07
38.0-39.0	543.20	37.40	890.02	1.63	38.70
39.0-40.0	533.95	37.57	927.58	1.63	40.33



Zonal Luminous Flux Data

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
40.0-41.0	524.23	37.68	965.27	1.64	41.97
41.0-42.0	514.01	37.72	1002.99	1.64	43.61
42.0-43.0	504.11	37.71	1040.70	1.64	45.25
43.0-44.0	493.87	37.67	1078.37	1.64	46.89
44.0-45.0	483.29	37.55	1115.92	1.63	48.52
45.0-46.0	472.44	37.38	1153.30	1.63	50.14
46.0-47.0	461.42	37.14	1190.44	1.61	51.76
47.0-48.0	450.13	36.85	1227.29	1.60	53.36
48.0-49.0	439.00	36.51	1263.80	1.59	54.95
49.0-50.0	428.11	36.15	1299.96	1.57	56.52
50.0-51.0	417.17	35.76	1335.72	1.55	58.07
51.0-52.0	405.72	35.31	1371.03	1.54	59.61
52.0-53.0	394.17	34.79	1405.82	1.51	61.12
53.0-54.0	382.18	34.22	1440.04	1.49	62.61
54.0-55.0	370.59	33.60	1473.64	1.46	64.07
55.0-56.0	358.83	32.96	1506.60	1.43	65.50
56.0-57.0	346.54	32.25	1538.86	1.40	66.91
57.0-58.0	334.41	31.49	1570.35	1.37	68.28
58.0-59.0	322.57	30.71	1601.06	1.34	69.61
59.0-60.0	310.53	29.91	1630.97	1.30	70.91
60.0-61.0	298.10	29.05	1660.01	1.26	72.17
61.0-62.0	286.47	28.17	1688.18	1.22	73.40
62.0-63.0	274.12	27.26	1715.45	1.19	74.58
63.0-64.0	261.88	26.30	1741.75	1.14	75.73
64.0-65.0	249.74	25.32	1767.07	1.10	76.83
65.0-66.0	237.20	24.30	1791.36	1.06	77.89
66.0-67.0	225.14	23.25	1814.61	1.01	78.90
67.0-68.0	213.24	22.21	1836.82	0.97	79.86
68.0-69.0	200.93	21.13	1857.95	0.92	80.78
69.0-70.0	188.95	20.02	1877.97	0.87	81.65
70.0-71.0	176.59	18.89	1896.86	0.82	82.47
71.0-72.0	164.95	17.76	1914.62	0.77	83.24
72.0-73.0	152.80	16.62	1931.24	0.72	83.97
73.0-74.0	141.40	15.47	1946.71	0.67	84.64
74.0-75.0	130.07	14.34	1961.05	0.62	85.26
75.0-76.0	118.11	13.17	1974.22	0.57	85.84
76.0-77.0	107.14	12.01	1986.23	0.52	86.36
77.0-78.0	95.94	10.87	1997.10	0.47	86.83
78.0-79.0	85.07	9.73	2006.83	0.42	87.25
79.0-80.0	74.53	8.60	2015.43	0.37	87.63
80.0-81.0	63.87	7.48	2022.92	0.33	87.95

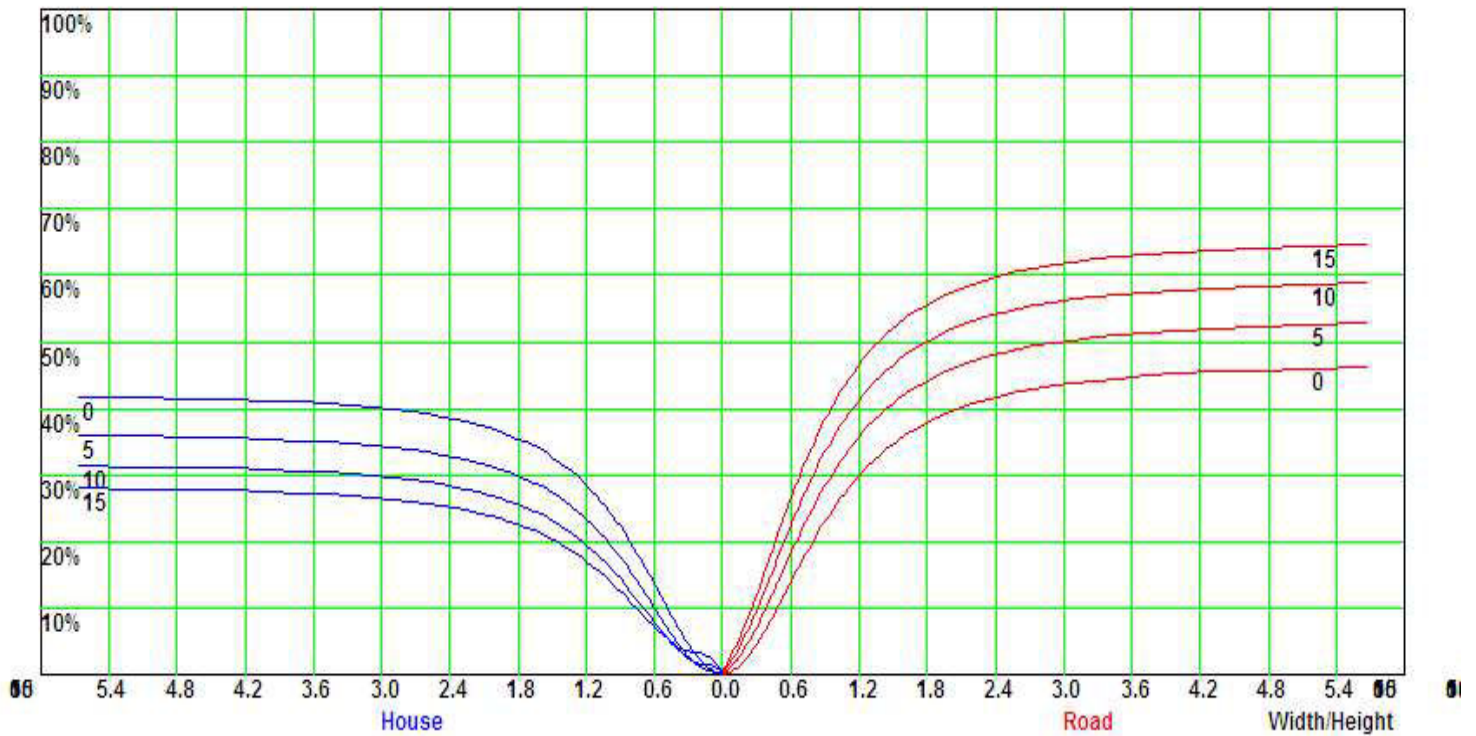
Iso-Candela [cd]



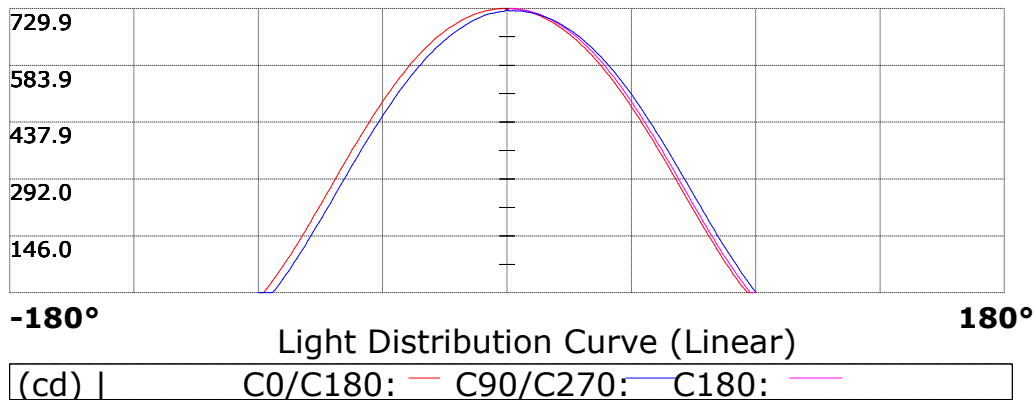
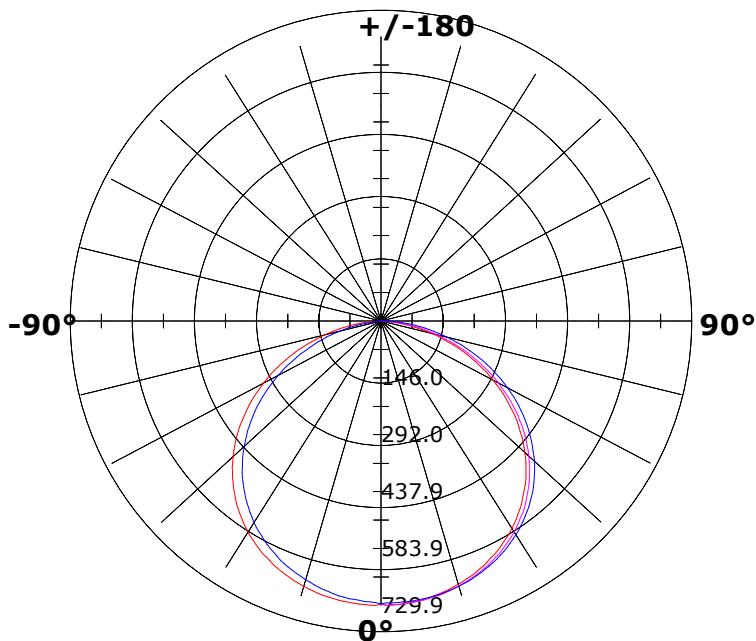
- (10%):-10.89518 cd
- (20%):0 cd
- (30%):0 cd
- (40%):0 cd
- (50%):0 cd
- (60%):0 cd
- (70%):0 cd
- (80%):1.771881 cd
- (90%):10.44279 cd
- (100%):20.13159 cd

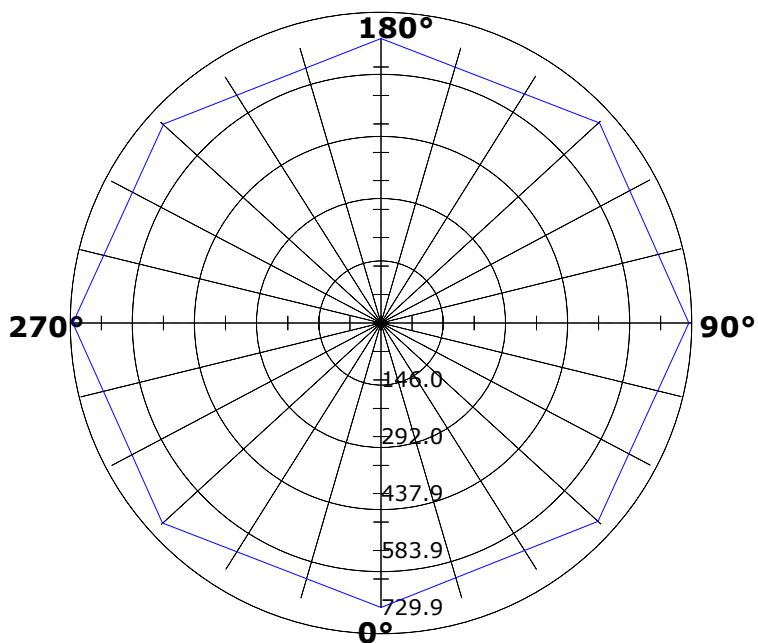


Coefficient Utilization Curve



Light Distribution Curve [Unit: cd]



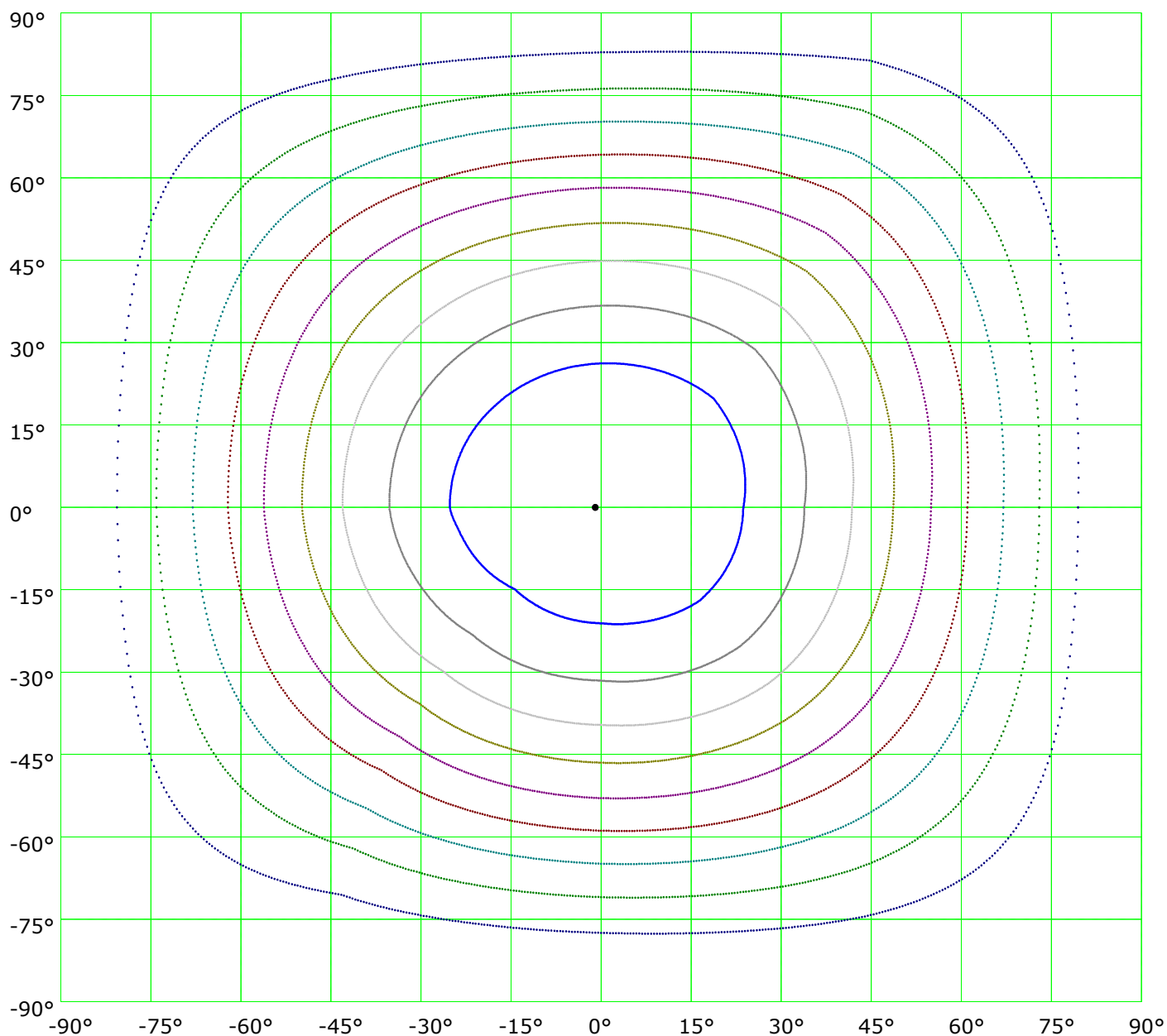


729.9							
583.9							
437.9							
292.0							
146.0							

-180° Light Distribution Curve (Linear) **180°**
 (cd) | ?1: —



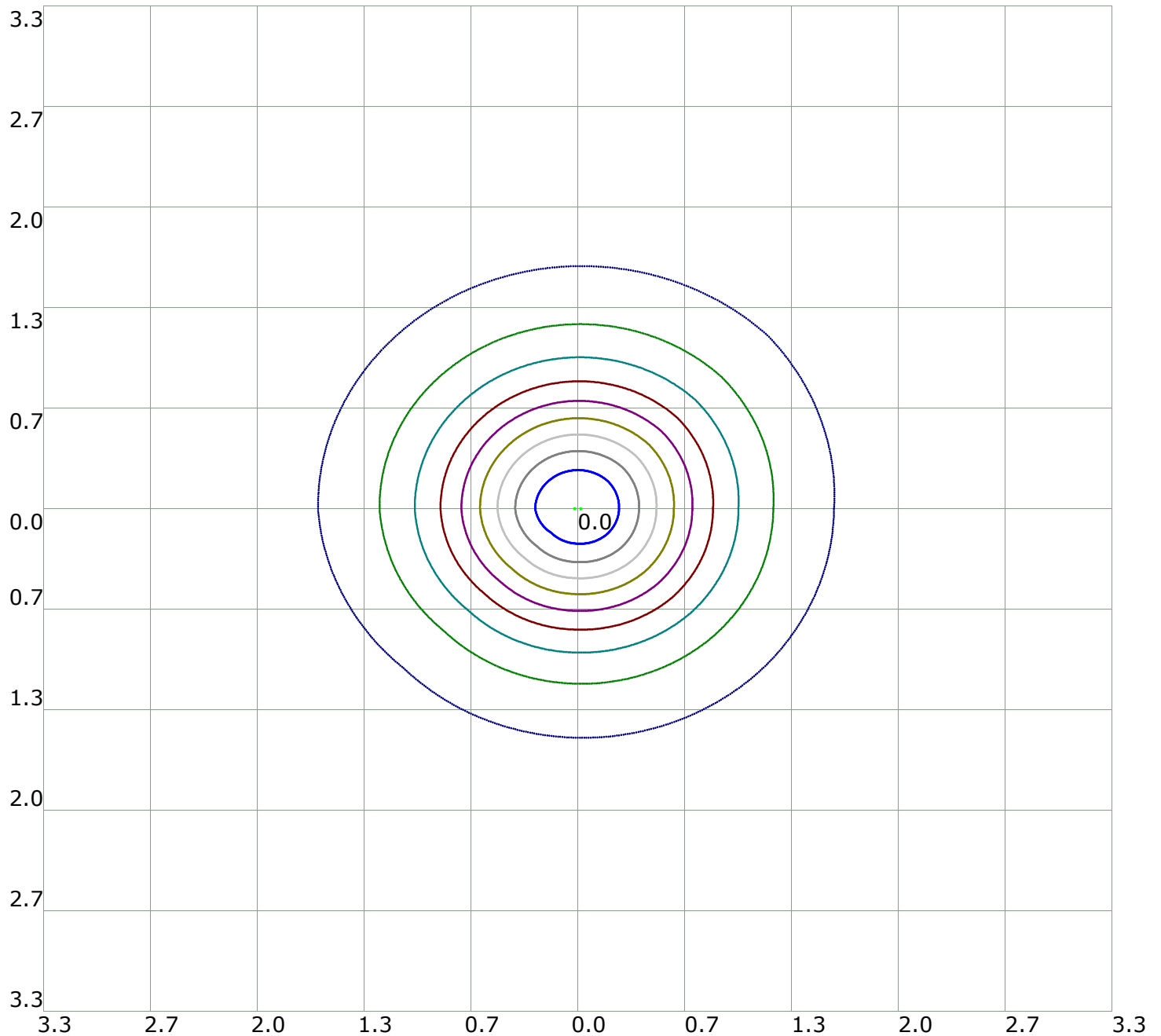
Isocandela(rectangle)



— (10%): 73.cd	— (20%): 146.cd	— (30%): 219.cd	— (40%): 291.9cd
— (50%): 364.9cd	— (60%): 437.9cd	— (70%): 510.9cd	— (80%): 583.9cd
— (90%): 656.9cd	— (100%): 729.9cd		



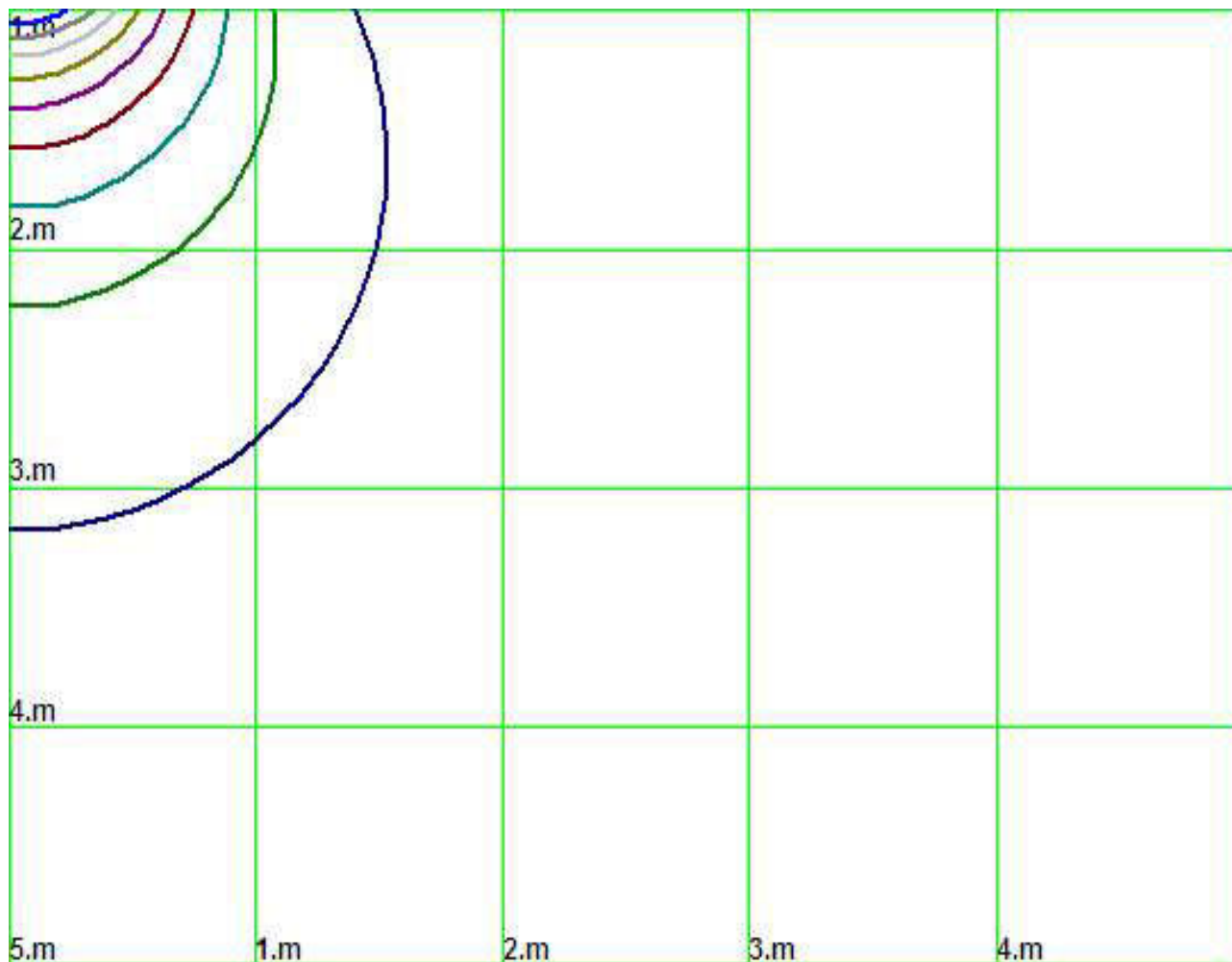
Isolx curve



Height: 1 m

- | | | | |
|------------------|-------------------|------------------|------------------|
| — (10%): 73.lx | — (20%): 146.lx | — (30%): 219.lx | — (40%): 292.lx |
| — (50%): 364.9lx | — (60%): 437.9lx | — (70%): 510.9lx | — (80%): 583.9lx |
| — (90%): 656.9lx | — (100%): 729.1lx | | |

Space Isolx Curve



— (10%): 73.lx	— (20%): 146.lx	— (30%): 219.lx	— (40%): 292.lx
— (50%): 364.9lx	— (60%): 437.9lx	— (70%): 510.9lx	— (80%): 583.9lx
— (90%): 656.9lx	— (100%): 729.1lx		



Luminance Limiting Curve

Diameter: 300mm

Length: 300mm

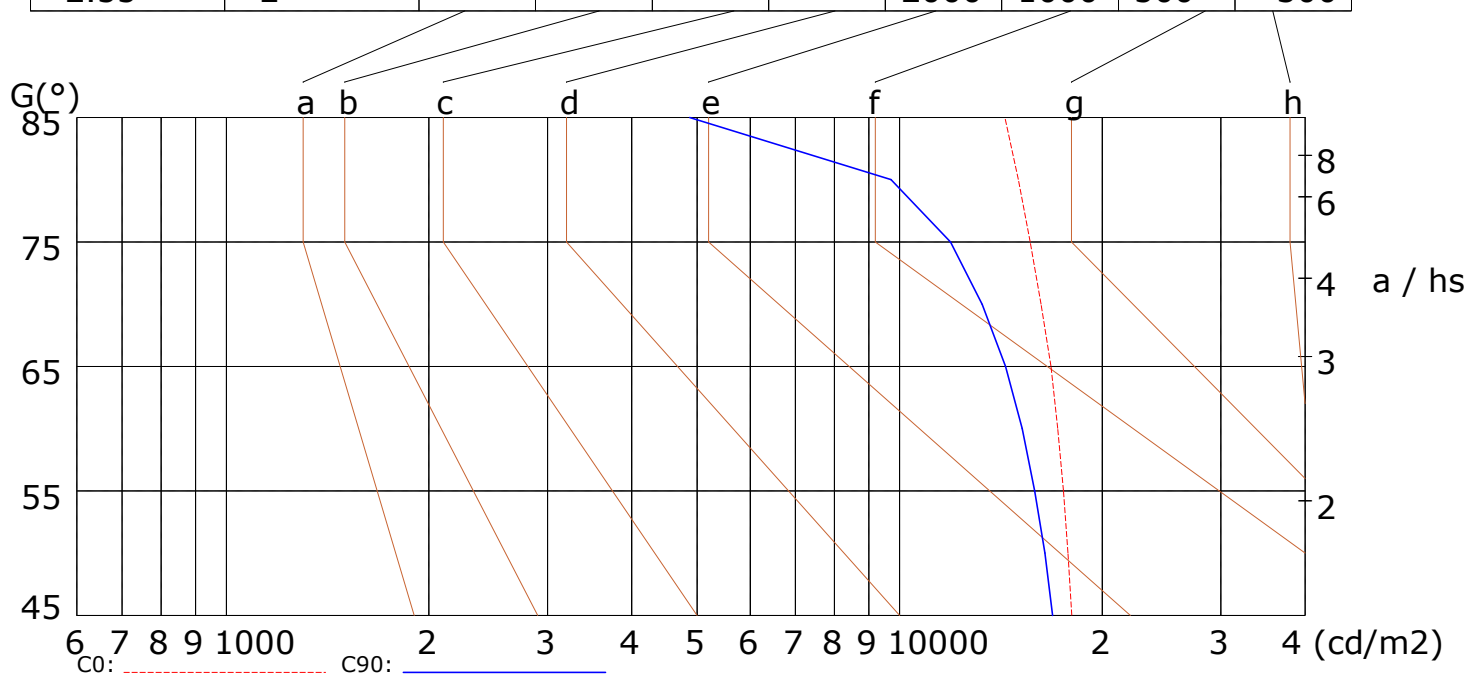
Width: 300mm

Height: 30mm

(cd/m²)

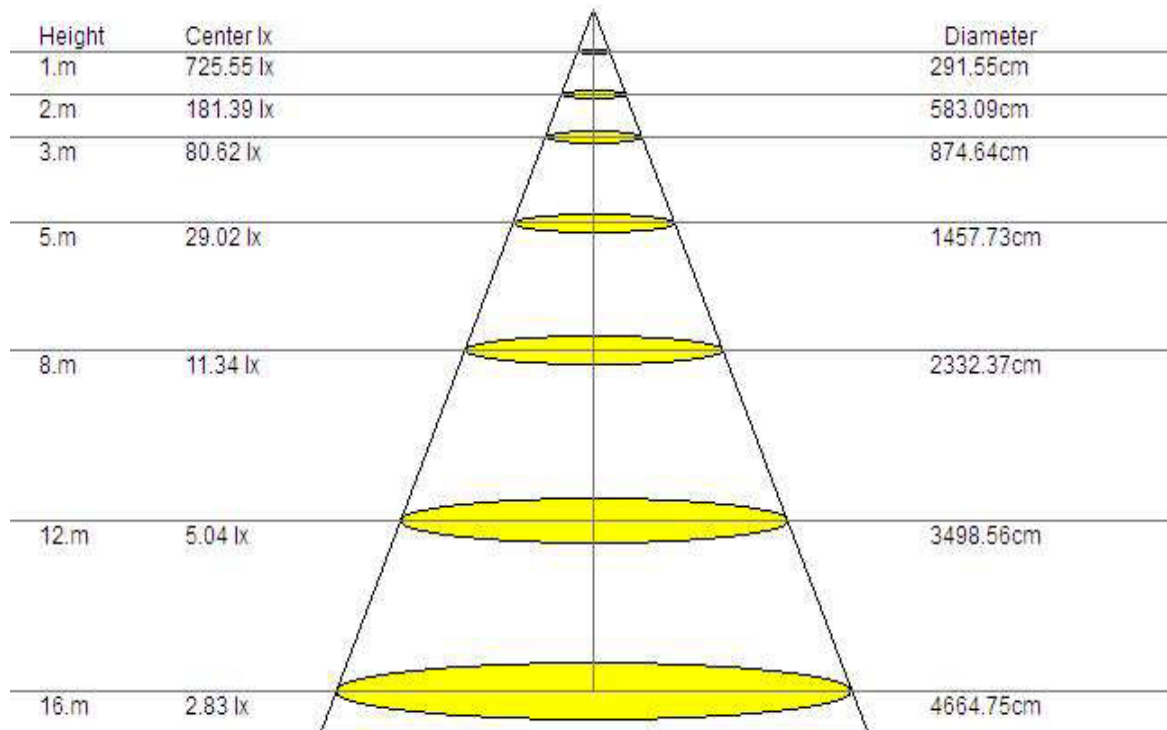
?	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	18018	17771	17516	17174	16771	16223	15629	15002	14339
C90	16865	16441	15871	15202	14366	13268	11904	9710	4877

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)

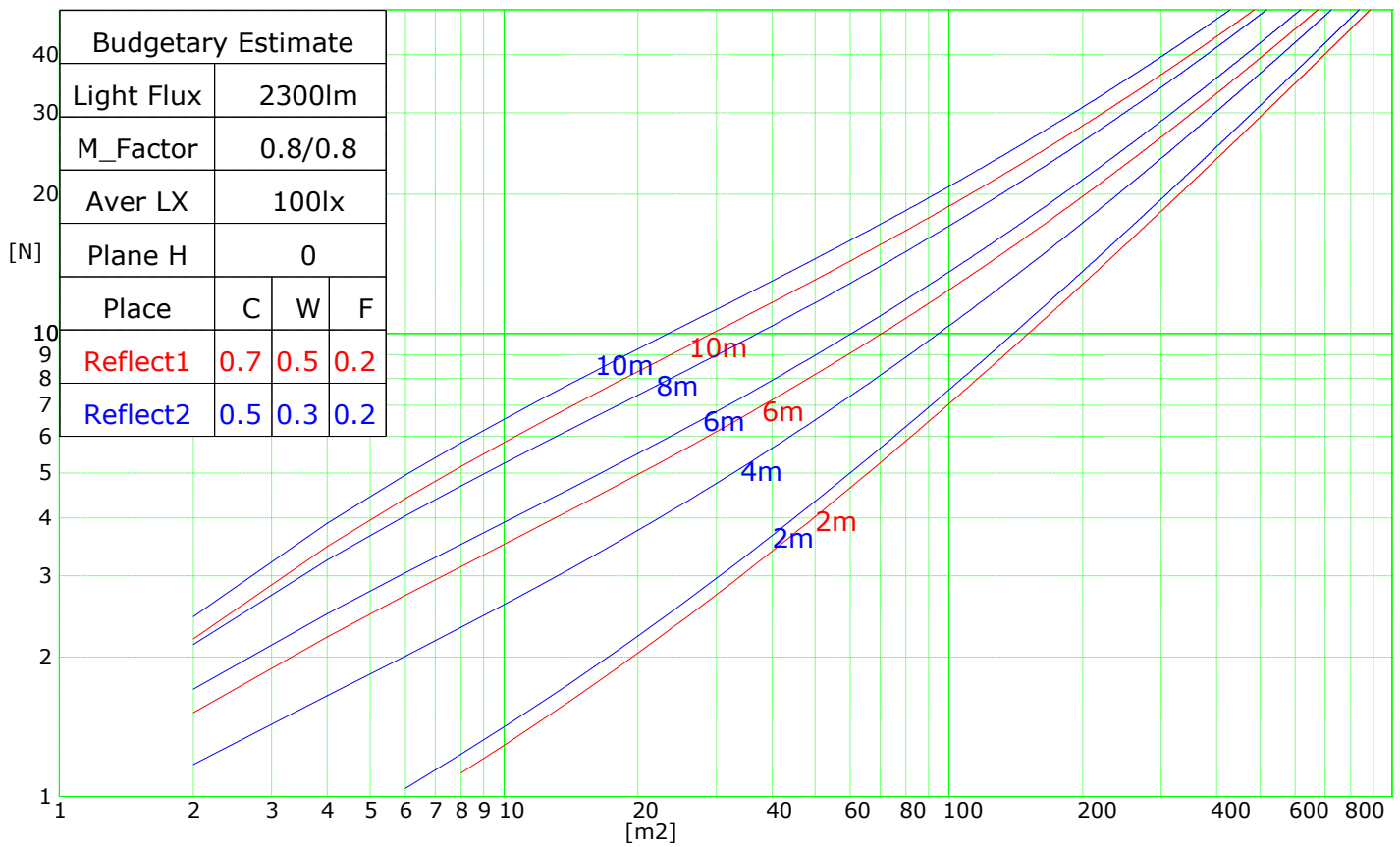


Coefficients of Utilization

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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.93	0.92	0.90	0.92	0.90	0.89	0.89	0.87	0.85	0.84	0.82	0.81	0.79	0.77	0.75	0.70
2	0.79	0.77	0.75	0.79	0.76	0.74	0.77	0.73	0.71	0.74	0.70	0.67	0.70	0.66	0.63	0.58
3	0.68	0.65	0.63	0.68	0.64	0.62	0.67	0.63	0.60	0.65	0.60	0.57	0.62	0.57	0.53	0.49
4	0.58	0.56	0.54	0.59	0.55	0.53	0.58	0.54	0.51	0.57	0.52	0.48	0.55	0.50	0.46	0.42
5	0.51	0.48	0.47	0.52	0.48	0.46	0.52	0.47	0.44	0.51	0.46	0.42	0.50	0.44	0.40	0.36
6	0.45	0.42	0.41	0.46	0.42	0.40	0.46	0.42	0.39	0.46	0.41	0.37	0.46	0.40	0.35	0.32
7	0.40	0.38	0.36	0.41	0.38	0.35	0.42	0.37	0.34	0.42	0.37	0.33	0.42	0.36	0.31	0.28
8	0.36	0.34	0.32	0.37	0.34	0.32	0.38	0.33	0.30	0.38	0.33	0.29	0.38	0.32	0.28	0.25
9	0.32	0.30	0.29	0.33	0.30	0.28	0.35	0.30	0.27	0.35	0.30	0.26	0.36	0.30	0.25	0.23
10	0.30	0.27	0.26	0.30	0.28	0.26	0.32	0.28	0.25	0.33	0.27	0.24	0.33	0.27	0.23	0.20



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	14.7	15.9	15.0	15.9	16.5	14.5	15.9	14.9	16.0	16.4
	3H	16.3	17.4	16.7	17.7	18.0	16.1	17.4	16.4	17.8	18.0
	4H	17.0	18.2	17.3	18.5	18.7	16.9	18.1	17.3	18.6	18.7
	6H	17.5	18.6	17.9	18.8	19.1	17.5	18.4	17.8	18.9	19.0
	8H	17.9	19.0	18.1	19.0	19.4	17.7	18.7	18.0	18.9	19.3
4H	12H	17.9	18.8	18.1	19.3	19.6	17.7	18.6	18.1	19.2	19.6
	2H	15.8	16.7	15.9	16.7	17.1	15.7	16.6	15.7	16.9	17.0
	3H	17.4	18.3	17.7	18.5	18.7	17.3	18.1	17.7	18.4	18.8
	4H	18.3	19.0	18.5	19.0	19.5	18.0	18.8	18.4	19.2	19.5
	6H	18.9	19.5	19.2	19.9	20.0	18.7	19.3	19.1	19.7	20.1
8H	8H	19.1	19.8	19.5	20.0	20.4	18.9	19.7	19.3	19.9	20.4
	12H	19.3	20.0	19.5	20.1	20.4	19.1	19.8	19.4	20.2	20.4
	4H	18.6	19.1	19.0	19.4	19.8	18.3	19.0	18.7	19.5	20.0
	6H	19.4	19.8	19.8	20.2	20.5	19.3	19.7	19.7	20.3	20.6
	8H	19.8	20.1	20.2	20.5	21.0	19.6	20.1	20.0	20.5	21.0
12H	12H	19.9	20.4	20.5	20.8	21.1	19.9	20.2	20.3	20.7	21.2
	4H	18.6	19.2	19.0	19.4	19.8	18.5	19.1	18.8	19.6	19.8
	6H	19.5	20.1	19.9	20.2	20.7	19.3	19.8	19.8	20.2	20.6
	8H	19.9	20.3	20.3	20.7	21.1	19.8	20.2	20.2	20.6	21.0