



## Luminaire Property

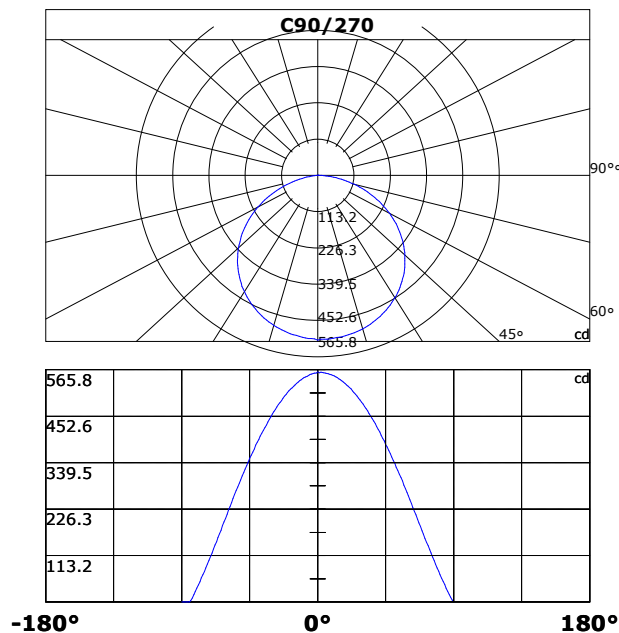
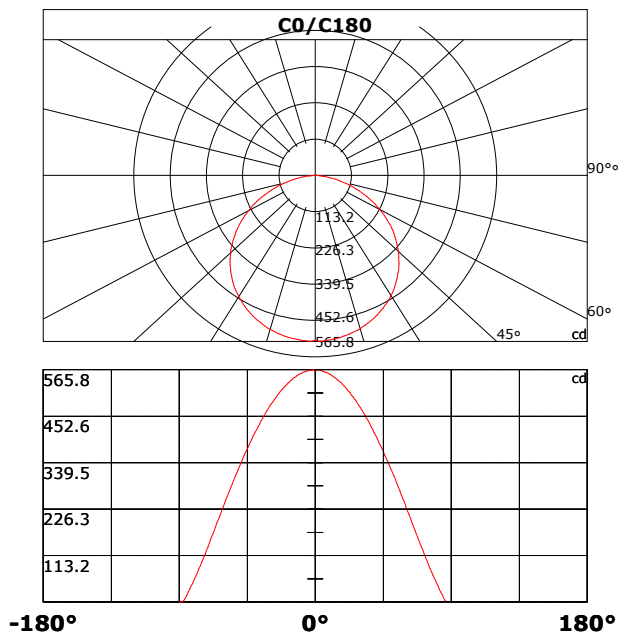
Luminaire Description: B1281-3-BF  
 Luminaire Categorie: DOWNLIGHT SQUARE SLIM 18W  
 Lamp Categorie:  
 Lamp Description: BLANCO FRIO 6000K  
 Number of Lamp: 1  
 Lamp Lumens(lm): NA  
 Luminous Length(m): 0.22  
 Luminous Width(m): 0.22  
 Luminous Height(m): 0.015

Voltage: 229.4 V  
 Current: 0.139 A  
 Power: 18.51 W  
 Power Factor: 0.580  
 Test Lab: BLED  
 Photometric Type: Type C  
 Manufactory:

## Photometric Results

CIE Class: Direct  
 Effective Luminous Flux: 1533.60 lm  
 Efficiency: 84.0999 lm/W  
 Central Intensity: 561.148cd  
 Max. Intensity: 565.765cd  
 Field Angle(10%Imax): NA

Max.Intensity Angle: C:0.0 G:1.0  
 Beam Angle(50%Imax): L: -56.5 R:53.6  
 Luminaire Efficacy Rating(LER) : 100.00%  
 Upward Ratio: NA  
 Downward Ratio: NA  
 Beamwidth(50%Imax): H=114.58V=115.04





### Light intensity data Unit[cd]

<b>C\G</b>	<b>G0.0</b>	<b>G1.0</b>	<b>G2.0</b>	<b>G3.0</b>	<b>G4.0</b>	<b>G5.0</b>	<b>G6.0</b>	<b>G7.0</b>	<b>G8.0</b>	<b>G9.0</b>
<b>C0.0</b>	561.1	565.8	565.2	565.3	563.8	562.5	560.9	559.4	558.1	556.1
<b>C45.0</b>	561.1	557.0	557.3	557.2	557.2	557.2	556.5	555.5	554.8	553.8
<b>C90.0</b>	561.1	558.6	559.5	559.0	558.4	557.5	556.7	555.9	554.9	553.4
<b>C135.0</b>	561.1	561.5	561.2	561.1	560.4	559.6	558.2	557.3	555.8	554.4
<b>C180.0</b>	561.1	565.7	565.6	564.7	564.2	562.8	562.0	560.9	559.5	557.0
<b>C225.0</b>	561.1	556.0	555.1	553.6	552.2	550.7	549.7	547.5	546.1	543.8
<b>C270.0</b>	561.1	557.9	557.3	556.7	555.5	554.0	552.0	550.1	548.2	546.3
<b>C315.0</b>	561.1	561.4	561.2	560.2	559.9	558.9	557.6	556.2	554.5	552.9
<b>C360.0</b>	561.1	565.8	565.2	565.3	563.8	562.5	560.9	559.4	558.1	556.1
<b>C\G</b>	<b>G10.0</b>	<b>G11.0</b>	<b>G12.0</b>	<b>G13.0</b>	<b>G14.0</b>	<b>G15.0</b>	<b>G16.0</b>	<b>G17.0</b>	<b>G18.0</b>	<b>G19.0</b>
<b>C0.0</b>	554.2	551.4	549.1	546.8	543.7	540.8	537.3	534.1	530.4	526.5
<b>C45.0</b>	552.6	551.0	549.5	547.7	545.7	543.4	540.9	538.7	535.6	532.8
<b>C90.0</b>	552.0	550.4	548.5	546.3	543.8	541.6	538.8	535.9	533.0	529.3
<b>C135.0</b>	552.7	551.4	548.3	546.4	543.9	541.4	538.3	535.3	531.9	528.8
<b>C180.0</b>	556.3	553.9	551.5	548.7	546.3	543.3	540.7	537.0	533.7	529.8
<b>C225.0</b>	541.1	538.7	535.9	532.5	530.1	525.8	522.6	519.0	515.2	510.7
<b>C270.0</b>	544.0	541.2	538.4	535.7	532.6	529.2	525.8	522.1	518.4	514.4
<b>C315.0</b>	551.2	548.8	546.4	544.2	541.4	538.4	535.3	532.2	528.5	524.8
<b>C360.0</b>	554.2	551.4	549.1	546.8	543.7	540.8	537.3	534.1	530.4	526.5
<b>C\G</b>	<b>G20.0</b>	<b>G21.0</b>	<b>G22.0</b>	<b>G23.0</b>	<b>G24.0</b>	<b>G25.0</b>	<b>G26.0</b>	<b>G27.0</b>	<b>G28.0</b>	<b>G29.0</b>
<b>C0.0</b>	522.6	518.6	514.1	509.3	504.3	499.7	494.7	489.7	483.7	478.5
<b>C45.0</b>	529.6	526.3	522.6	519.1	515.5	510.8	506.9	502.1	497.7	493.0
<b>C90.0</b>	525.9	522.3	519.1	514.2	510.3	506.4	501.6	497.0	492.3	486.9
<b>C135.0</b>	524.1	521.1	516.8	513.3	508.3	503.5	498.5	493.5	488.7	483.4
<b>C180.0</b>	526.0	521.6	517.6	513.4	508.8	504.0	498.8	494.1	488.7	483.1
<b>C225.0</b>	506.2	501.6	497.2	492.1	486.9	482.1	476.7	470.3	464.8	459.5
<b>C270.0</b>	509.9	505.4	501.1	495.9	490.6	485.9	481.0	475.4	469.6	463.9
<b>C315.0</b>	521.1	516.8	512.3	508.5	503.6	499.2	494.1	488.5	483.7	478.2
<b>C360.0</b>	522.6	518.6	514.1	509.3	504.3	499.7	494.7	489.7	483.7	478.5
<b>C\G</b>	<b>G30.0</b>	<b>G31.0</b>	<b>G32.0</b>	<b>G33.0</b>	<b>G34.0</b>	<b>G35.0</b>	<b>G36.0</b>	<b>G37.0</b>	<b>G38.0</b>	<b>G39.0</b>
<b>C0.0</b>	472.7	467.2	460.8	453.7	447.1	440.8	434.4	426.8	420.1	413.0
<b>C45.0</b>	488.1	483.2	477.4	471.7	466.6	460.8	454.7	448.7	442.1	435.6
<b>C90.0</b>	481.9	476.4	471.1	465.5	459.6	453.3	447.2	440.7	434.4	427.6
<b>C135.0</b>	478.1	472.0	466.7	460.5	453.9	448.4	441.7	435.3	427.5	420.8
<b>C180.0</b>	477.8	471.6	465.5	459.6	453.6	446.6	440.7	432.9	426.3	419.1
<b>C225.0</b>	453.6	446.8	439.7	433.4	427.1	420.3	412.0	404.5	397.2	389.5
<b>C270.0</b>	457.8	451.6	445.6	438.3	431.7	425.3	418.3	411.4	403.8	396.6
<b>C315.0</b>	472.0	466.1	459.6	453.9	447.7	440.9	433.7	426.7	419.7	411.9
<b>C360.0</b>	472.7	467.2	460.8	453.7	447.1	440.8	434.4	426.8	420.1	413.0



### Light intensity data Unit[cd]

<b>C\G</b>	<b>G40.0</b>	<b>G41.0</b>	<b>G42.0</b>	<b>G43.0</b>	<b>G44.0</b>	<b>G45.0</b>	<b>G46.0</b>	<b>G47.0</b>	<b>G48.0</b>	<b>G49.0</b>
<b>C0.0</b>	405.5	398.9	389.9	382.4	374.8	366.8	358.2	349.8	341.4	333.6
<b>C45.0</b>	428.9	422.0	415.0	408.6	401.4	394.1	386.0	379.0	370.7	362.9
<b>C90.0</b>	420.6	414.5	406.5	399.0	392.0	384.1	377.7	369.2	361.0	353.3
<b>C135.0</b>	413.7	406.6	398.7	391.9	383.7	377.0	368.4	360.4	351.7	344.1
<b>C180.0</b>	411.5	405.2	397.1	389.6	381.1	373.1	366.1	356.9	348.7	340.1
<b>C225.0</b>	382.0	373.8	365.8	356.9	348.4	339.7	330.0	320.8	311.0	301.0
<b>C270.0</b>	389.3	382.0	373.4	365.5	357.2	349.5	341.7	332.3	324.0	315.8
<b>C315.0</b>	404.5	396.9	388.9	380.9	372.2	363.9	355.2	346.2	335.7	326.2
<b>C360.0</b>	405.5	398.9	389.9	382.4	374.8	366.8	358.2	349.8	341.4	333.6
<b>C\G</b>	<b>G50.0</b>	<b>G51.0</b>	<b>G52.0</b>	<b>G53.0</b>	<b>G54.0</b>	<b>G55.0</b>	<b>G56.0</b>	<b>G57.0</b>	<b>G58.0</b>	<b>G59.0</b>
<b>C0.0</b>	324.9	316.1	307.2	298.4	289.7	279.1	270.4	260.8	251.5	242.4
<b>C45.0</b>	354.8	347.3	339.2	330.6	322.4	313.6	305.4	296.3	287.1	278.8
<b>C90.0</b>	345.0	337.4	328.5	320.3	311.7	303.5	294.6	284.8	276.4	266.9
<b>C135.0</b>	335.7	327.2	318.2	309.7	301.2	292.6	283.2	274.0	264.9	256.4
<b>C180.0</b>	331.6	323.0	314.6	305.6	296.4	287.8	278.6	269.3	259.4	250.2
<b>C225.0</b>	292.2	284.4	276.2	267.0	256.8	246.7	236.8	228.5	219.6	208.9
<b>C270.0</b>	307.6	297.7	289.3	280.0	271.6	262.0	252.3	242.7	233.1	224.0
<b>C315.0</b>	317.9	310.4	302.7	293.5	284.3	274.2	264.0	254.2	245.1	235.1
<b>C360.0</b>	324.9	316.1	307.2	298.4	289.7	279.1	270.4	260.8	251.5	242.4
<b>C\G</b>	<b>G60.0</b>	<b>G61.0</b>	<b>G62.0</b>	<b>G63.0</b>	<b>G64.0</b>	<b>G65.0</b>	<b>G66.0</b>	<b>G67.0</b>	<b>G68.0</b>	<b>G69.0</b>
<b>C0.0</b>	232.5	222.4	213.6	203.8	193.6	184.7	174.3	165.7	156.1	146.3
<b>C45.0</b>	269.3	260.9	251.6	242.1	233.3	223.8	214.8	204.0	195.4	186.3
<b>C90.0</b>	258.9	248.9	239.6	230.3	220.8	212.4	201.4	192.9	183.8	173.4
<b>C135.0</b>	246.3	237.5	227.8	218.7	209.8	198.7	189.4	179.6	170.8	160.6
<b>C180.0</b>	241.5	230.8	221.3	212.1	202.2	193.7	182.1	173.2	164.1	154.6
<b>C225.0</b>	198.5	189.5	180.0	169.3	159.8	150.4	141.3	131.9	122.1	113.2
<b>C270.0</b>	214.1	204.2	195.4	185.9	175.3	166.9	157.1	147.4	139.1	128.6
<b>C315.0</b>	226.6	216.9	207.1	197.4	187.1	178.7	168.2	159.2	150.4	139.5
<b>C360.0</b>	232.5	222.4	213.6	203.8	193.6	184.7	174.3	165.7	156.1	146.3
<b>C\G</b>	<b>G70.0</b>	<b>G71.0</b>	<b>G72.0</b>	<b>G73.0</b>	<b>G74.0</b>	<b>G75.0</b>	<b>G76.0</b>	<b>G77.0</b>	<b>G78.0</b>	<b>G79.0</b>
<b>C0.0</b>	136.0	127.1	118.3	108.2	99.7	90.3	81.4	73.2	65.0	57.0
<b>C45.0</b>	176.3	166.8	157.4	147.6	138.4	129.8	120.2	110.8	102.6	93.3
<b>C90.0</b>	165.7	154.8	145.5	137.2	127.6	119.4	109.4	100.7	92.0	83.4
<b>C135.0</b>	151.1	141.6	132.4	122.8	113.9	105.1	95.6	86.9	78.2	69.9
<b>C180.0</b>	145.5	134.4	126.2	116.7	107.0	98.9	88.9	80.7	71.8	63.7
<b>C225.0</b>	104.1	95.0	86.6	77.5	68.9	60.7	52.3	44.7	36.5	28.6
<b>C270.0</b>	119.8	110.7	101.8	91.9	83.4	74.7	66.5	58.6	49.8	41.3
<b>C315.0</b>	131.0	121.7	111.8	103.1	94.5	85.8	76.9	69.1	60.5	52.3
<b>C360.0</b>	136.0	127.1	118.3	108.2	99.7	90.3	81.4	73.2	65.0	57.0



### 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
<b>C0.0</b>	48.6	40.4	32.4	24.7	17.9	10.1	3.6	0.0	0.0	0.0
<b>C45.0</b>	84.6	76.0	67.8	59.6	51.5	43.6	35.5	28.3	21.0	13.8
<b>C90.0</b>	74.7	66.3	58.1	50.2	42.2	34.2	25.8	18.8	11.7	4.9
<b>C135.0</b>	60.7	53.1	45.0	37.4	29.4	21.6	14.3	7.5	1.0	0.0
<b>C180.0</b>	55.5	47.3	39.7	32.1	24.5	16.9	10.0	3.8	0.0	0.0
<b>C225.0</b>	21.6	14.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>C270.0</b>	34.0	25.2	17.9	9.8	3.3	0.0	0.0	0.0	0.0	0.0
<b>C315.0</b>	44.7	36.2	28.3	20.2	13.5	5.8	0.0	0.0	0.0	0.0
<b>C360.0</b>	48.6	40.4	32.4	24.7	17.9	10.1	3.6	0.0	0.0	0.0
<b>C\G</b>	<b>G90.0</b>									
<b>C0.0</b>	0.0									
<b>C45.0</b>	6.5									
<b>C90.0</b>	0.0									
<b>C135.0</b>	0.0									
<b>C180.0</b>	0.0									
<b>C225.0</b>	0.0									
<b>C270.0</b>	0.0									
<b>C315.0</b>	0.0									
<b>C360.0</b>	0.0									



## Zonal Luminous Flux Data

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0.0	561.15	0.00	0.00	0.00	0.00
0.0-1.0	560.49	0.54	0.54	0.03	0.03
1.0-2.0	560.29	1.61	2.15	0.10	0.14
2.0-3.0	559.71	2.68	4.82	0.17	0.31
3.0-4.0	558.94	3.74	8.57	0.24	0.55
4.0-5.0	557.90	4.80	13.37	0.31	0.86
5.0-6.0	556.71	5.86	19.23	0.38	1.24
6.0-7.0	555.35	6.90	26.13	0.44	1.68
7.0-8.0	553.99	7.94	34.07	0.51	2.19
8.0-9.0	552.22	8.97	43.04	0.58	2.76
9.0-10.0	550.51	9.98	53.02	0.64	3.41
10.0-11.0	548.35	10.98	64.00	0.71	4.11
11.0-12.0	545.96	11.96	75.96	0.77	4.88
12.0-13.0	543.54	12.93	88.89	0.83	5.71
13.0-14.0	540.94	13.88	102.77	0.89	6.60
14.0-15.0	537.99	14.81	117.58	0.95	7.55
15.0-16.0	534.95	15.72	133.30	1.01	8.56
16.0-17.0	531.78	16.61	149.92	1.07	9.63
17.0-18.0	528.33	17.48	167.39	1.12	10.75
18.0-19.0	524.63	18.32	185.71	1.18	11.93
19.0-20.0	520.69	19.13	204.85	1.23	13.16
20.0-21.0	516.72	19.92	224.77	1.28	14.44
21.0-22.0	512.60	20.68	245.45	1.33	15.77
22.0-23.0	508.22	21.42	266.87	1.38	17.14
23.0-24.0	503.53	22.12	288.99	1.42	18.56
24.0-25.0	498.95	22.79	311.79	1.46	20.03
25.0-26.0	494.03	23.44	335.23	1.51	21.53
26.0-27.0	488.82	24.05	359.27	1.54	23.08
27.0-28.0	483.63	24.62	383.89	1.58	24.66
28.0-29.0	478.30	25.17	409.06	1.62	26.28
29.0-30.0	472.73	25.68	434.74	1.65	27.93
30.0-31.0	466.86	26.15	460.88	1.68	29.61
31.0-32.0	460.81	26.58	487.46	1.71	31.31
32.0-33.0	454.59	26.97	514.43	1.73	33.05
33.0-34.0	448.42	27.33	541.76	1.76	34.80
34.0-35.0	442.03	27.65	569.41	1.78	36.58
35.0-36.0	435.34	27.94	597.35	1.79	38.37
36.0-37.0	428.36	28.17	625.52	1.81	40.18
37.0-38.0	421.40	28.36	653.88	1.82	42.00
38.0-39.0	414.28	28.52	682.40	1.83	43.84
39.0-40.0	407.01	28.64	711.05	1.84	45.68



## Zonal Luminous Flux Data

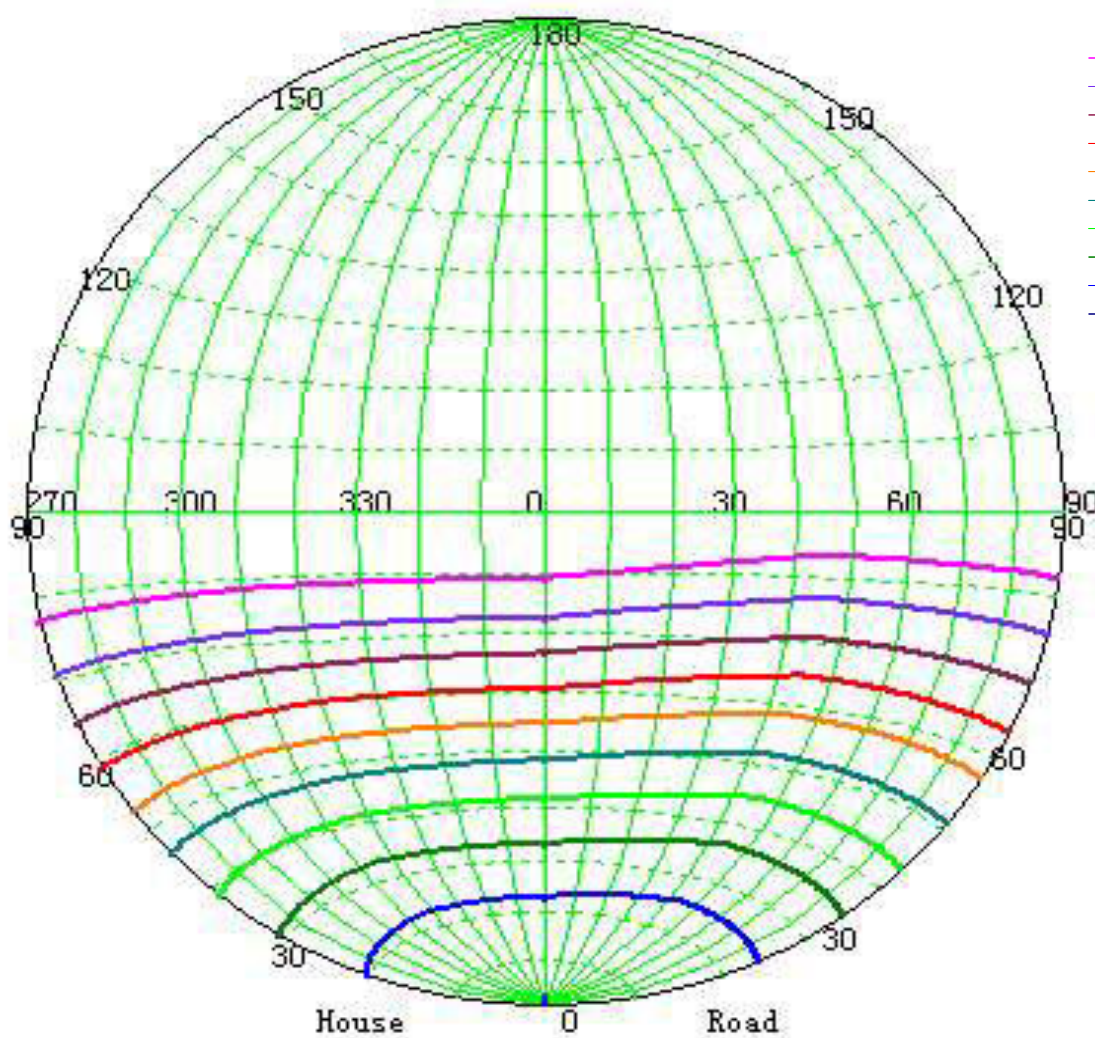
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
40.0-41.0	399.98	28.74	739.78	1.85	47.52
41.0-42.0	391.91	28.77	768.55	1.85	49.37
42.0-43.0	384.34	28.75	797.31	1.85	51.22
43.0-44.0	376.36	28.71	826.02	1.84	53.06
44.0-45.0	368.50	28.63	854.65	1.84	54.90
45.0-46.0	360.42	28.51	883.15	1.83	56.73
46.0-47.0	351.82	28.33	911.48	1.82	58.55
47.0-48.0	343.02	28.09	939.57	1.80	60.36
48.0-49.0	334.63	27.83	967.40	1.79	62.14
49.0-50.0	326.22	27.55	994.95	1.77	63.91
50.0-51.0	317.94	27.25	1022.20	1.75	65.67
51.0-52.0	309.48	26.92	1049.13	1.73	67.39
52.0-53.0	300.65	26.54	1075.67	1.70	69.10
53.0-54.0	291.75	26.11	1101.78	1.68	70.78
54.0-55.0	282.45	25.63	1127.41	1.65	72.42
55.0-56.0	273.16	25.11	1152.52	1.61	74.04
56.0-57.0	263.84	24.55	1177.07	1.58	75.61
57.0-58.0	254.63	23.98	1201.05	1.54	77.15
58.0-59.0	245.35	23.37	1224.42	1.50	78.66
59.0-60.0	235.98	22.74	1247.16	1.46	80.12
60.0-61.0	226.37	22.06	1269.22	1.42	81.53
61.0-62.0	217.04	21.37	1290.59	1.37	82.91
62.0-63.0	207.45	20.65	1311.23	1.33	84.23
63.0-64.0	197.75	19.88	1331.12	1.28	85.51
64.0-65.0	188.65	19.12	1350.24	1.23	86.74
65.0-66.0	178.59	18.32	1368.56	1.18	87.91
66.0-67.0	169.23	17.49	1386.05	1.12	89.04
67.0-68.0	160.23	16.69	1402.74	1.07	90.11
68.0-69.0	150.32	15.84	1418.58	1.02	91.13
69.0-70.0	141.19	14.97	1433.56	0.96	92.09
70.0-71.0	131.50	14.09	1447.65	0.91	93.00
71.0-72.0	122.51	13.21	1460.86	0.85	93.84
72.0-73.0	113.13	12.32	1473.18	0.79	94.64
73.0-74.0	104.17	11.42	1484.60	0.73	95.37
74.0-75.0	95.59	10.55	1495.16	0.68	96.05
75.0-76.0	86.41	9.66	1504.82	0.62	96.67
76.0-77.0	78.09	8.77	1513.59	0.56	97.23
77.0-78.0	69.55	7.90	1521.49	0.51	97.74
78.0-79.0	61.20	7.03	1528.52	0.45	98.19
79.0-80.0	53.06	6.16	1534.68	0.40	98.59
80.0-81.0	44.82	5.29	1539.97	0.34	98.93



## Zonal Luminous Flux Data

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
81.0-82.0	37.08	4.44	1544.41	0.29	99.21
82.0-83.0	29.26	3.61	1548.02	0.23	99.44
83.0-84.0	22.80	2.84	1550.85	0.18	99.63
84.0-85.0	16.53	2.15	1553.00	0.14	99.76
85.0-86.0	11.17	1.51	1554.52	0.10	99.86
86.0-87.0	7.29	1.01	1555.53	0.06	99.93
87.0-88.0	4.22	0.63	1556.16	0.04	99.97
88.0-89.0	2.34	0.36	1556.52	0.02	99.99
89.0-90.0	0.81	0.17	1556.69	0.01	100.00

# Iso-Candela [cd]

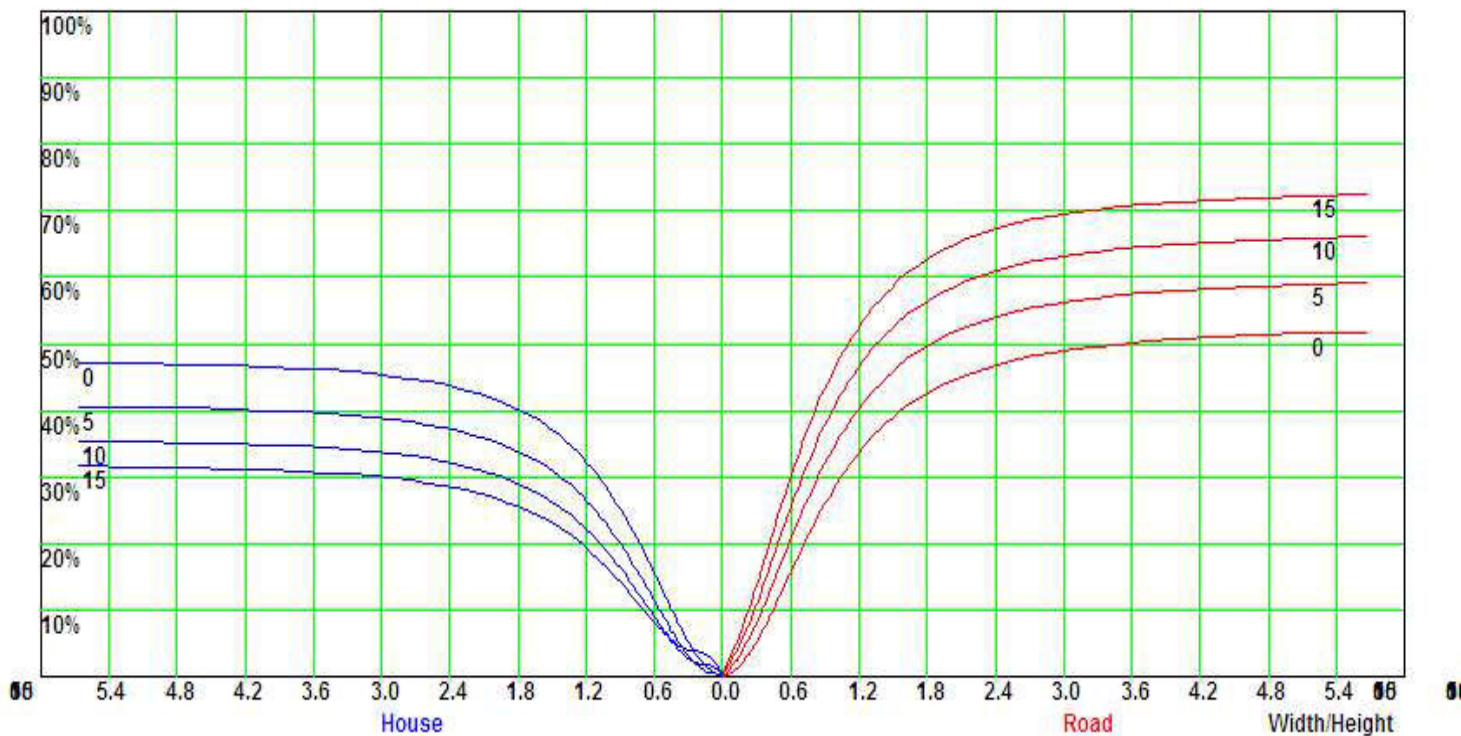


- (10%):-10.04867 cd
- (20%):0 cd
- (30%):0 cd
- (40%):0 cd
- (50%):0 cd
- (60%):0 cd
- (70%):0 cd
- (80%):0 cd
- (90%):3.683321 cd
- (100%):11.0142 cd

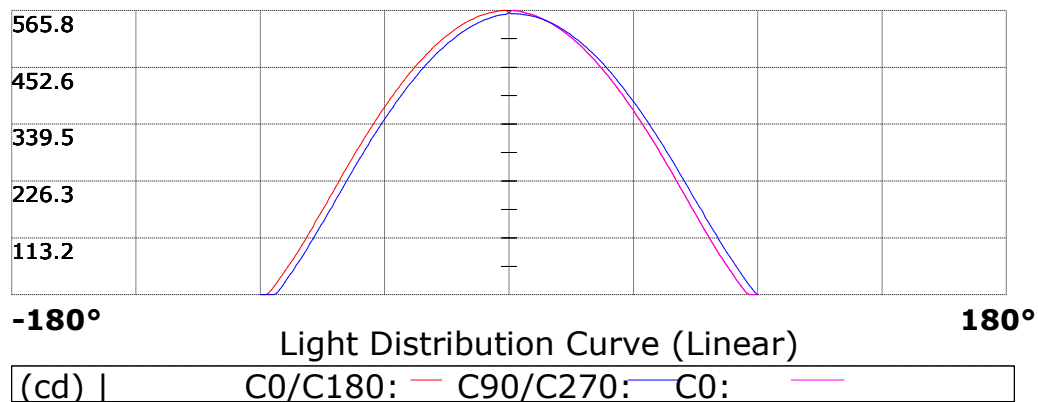
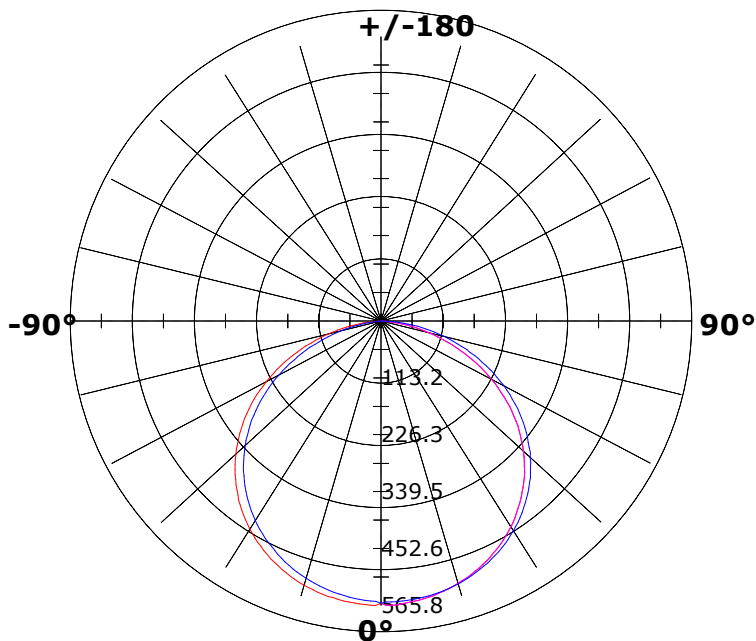


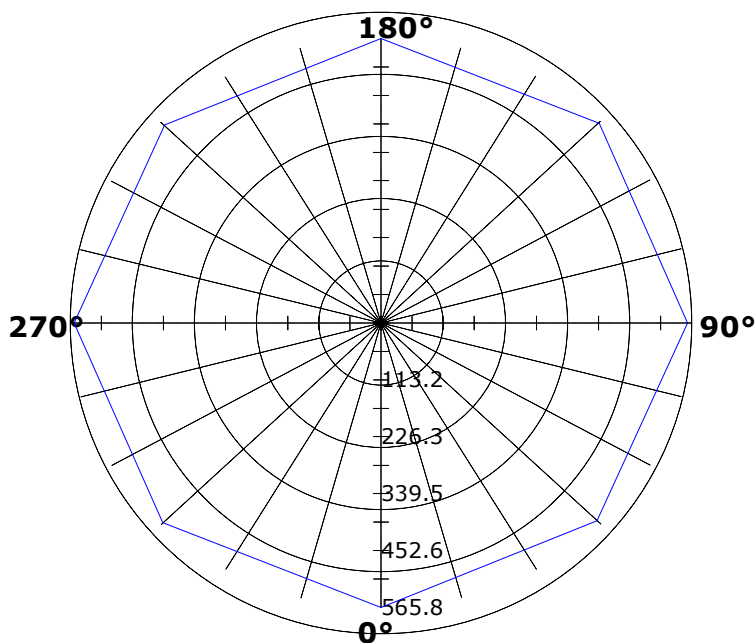


## Coefficient Utilization Curve



Light Distribution Curve [Unit: cd]



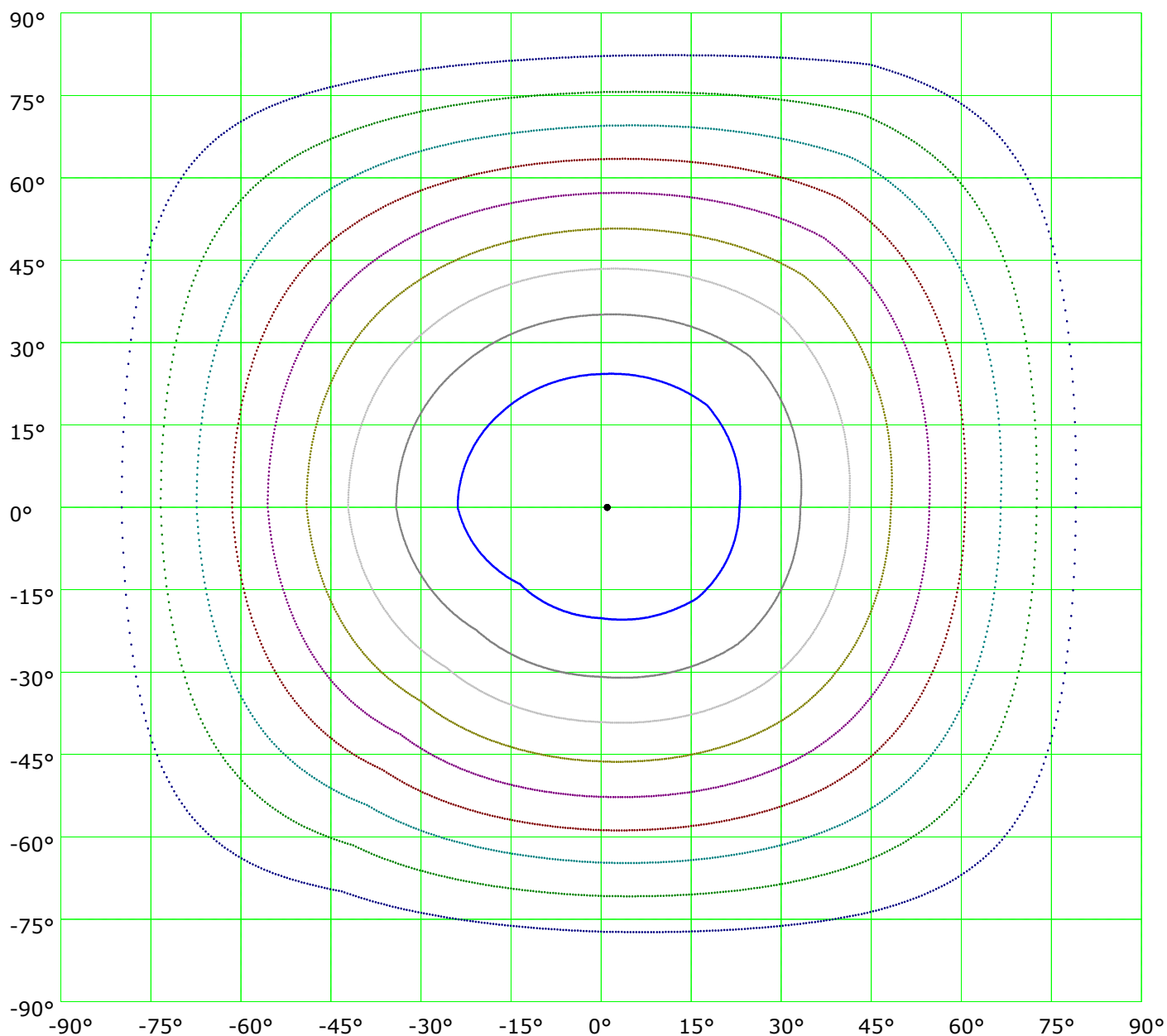


565.8							
452.6							
339.5							
226.3							
113.2							

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



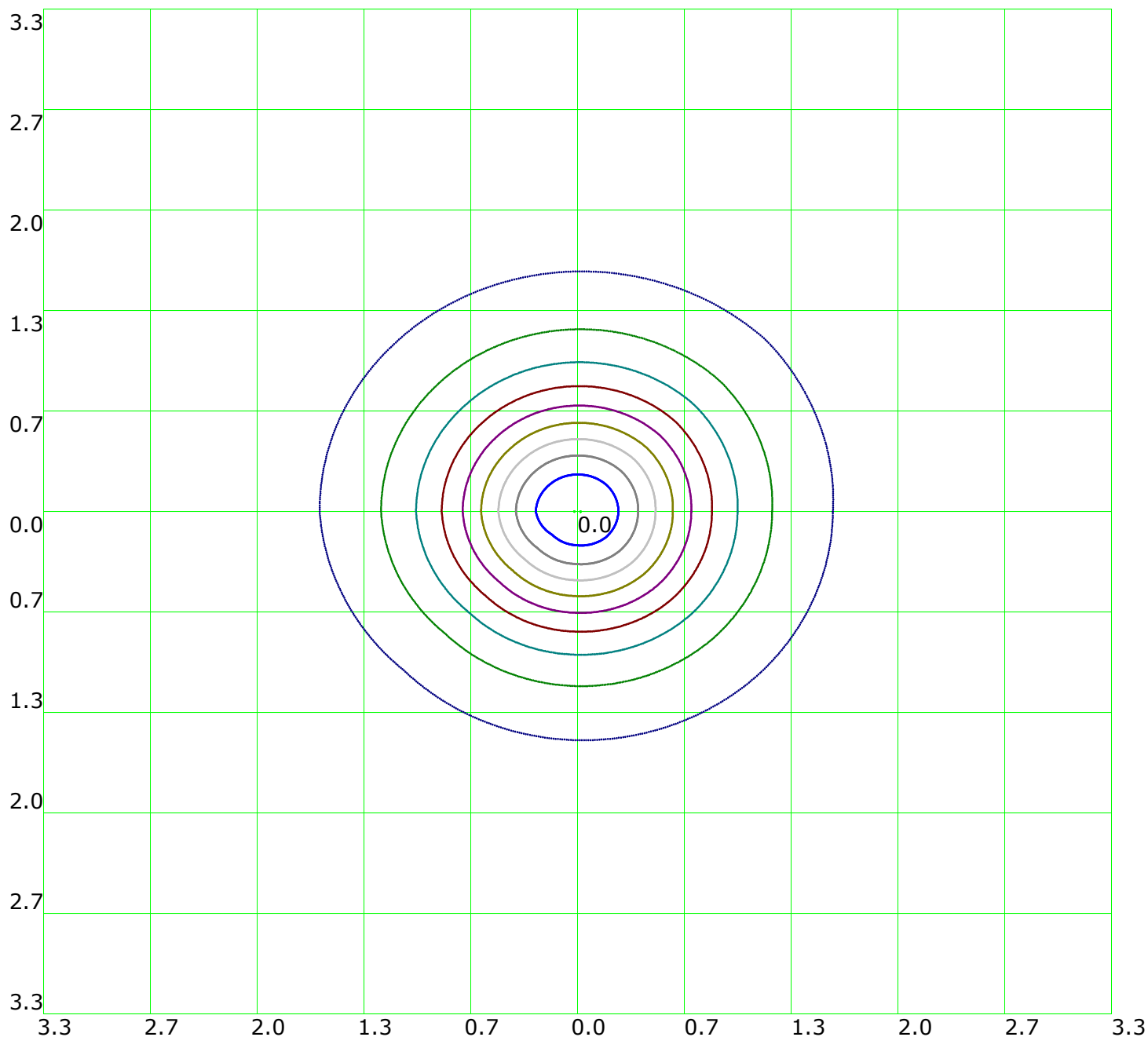
# Isocandela(rectangle)



— (10%): 56.6cd	— (20%): 113.2cd	— (30%): 169.7cd	— (40%): 226.3cd
— (50%): 282.9cd	— (60%): 339.5cd	— (70%): 396.cd	— (80%): 452.6cd
— (90%): 509.2cd	— (100%): 565.8cd		



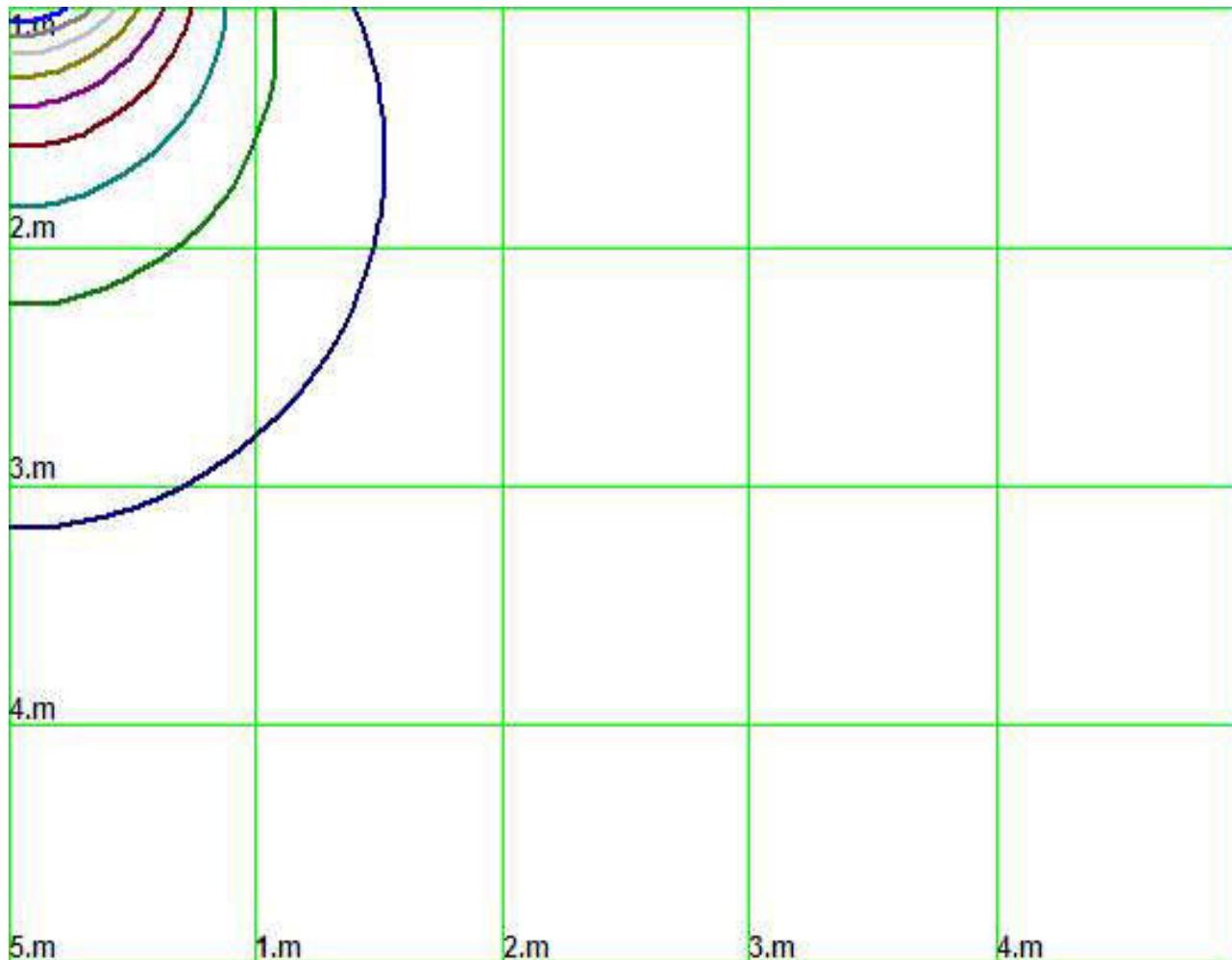
### Isolx curve



Height: 1 m

— (10%): 56.6lx	— (20%): 113.2lx	— (30%): 169.7lx	— (40%): 226.3lx
— (50%): 282.9lx	— (60%): 339.5lx	— (70%): 396.1lx	— (80%): 452.6lx
— (90%): 509.2lx	— (100%): 565.2lx		

## Space Isolx Curve



— (10%): 56.6lx	— (20%): 113.2lx	— (30%): 169.7lx	— (40%): 226.3lx
— (50%): 282.9lx	— (60%): 339.5lx	— (70%): 396.1lx	— (80%): 452.6lx
— (90%): 509.2lx	— (100%): 565.2lx		



## Luminance Limiting Curve

Diameter: 220mm

Length: 220mm

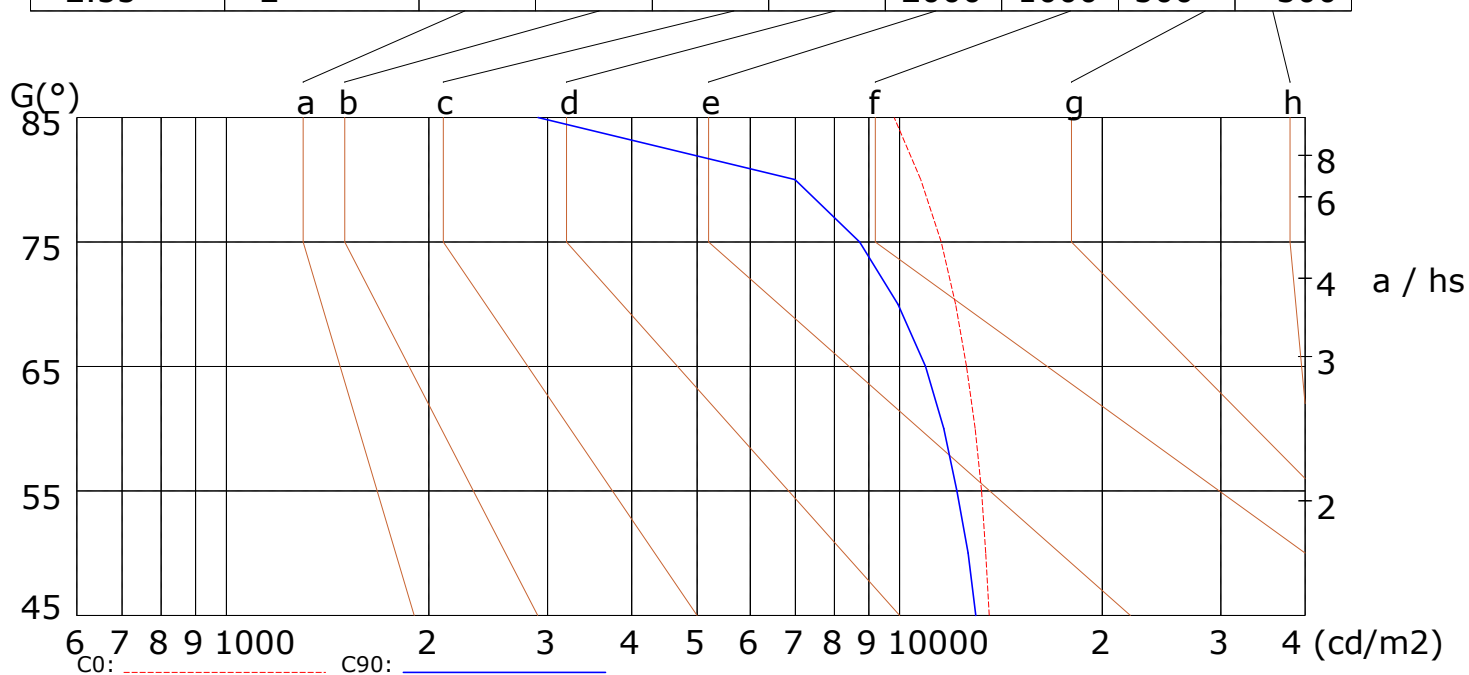
Width: 220mm

Height: 15mm

(cd/m<sup>2</sup>)

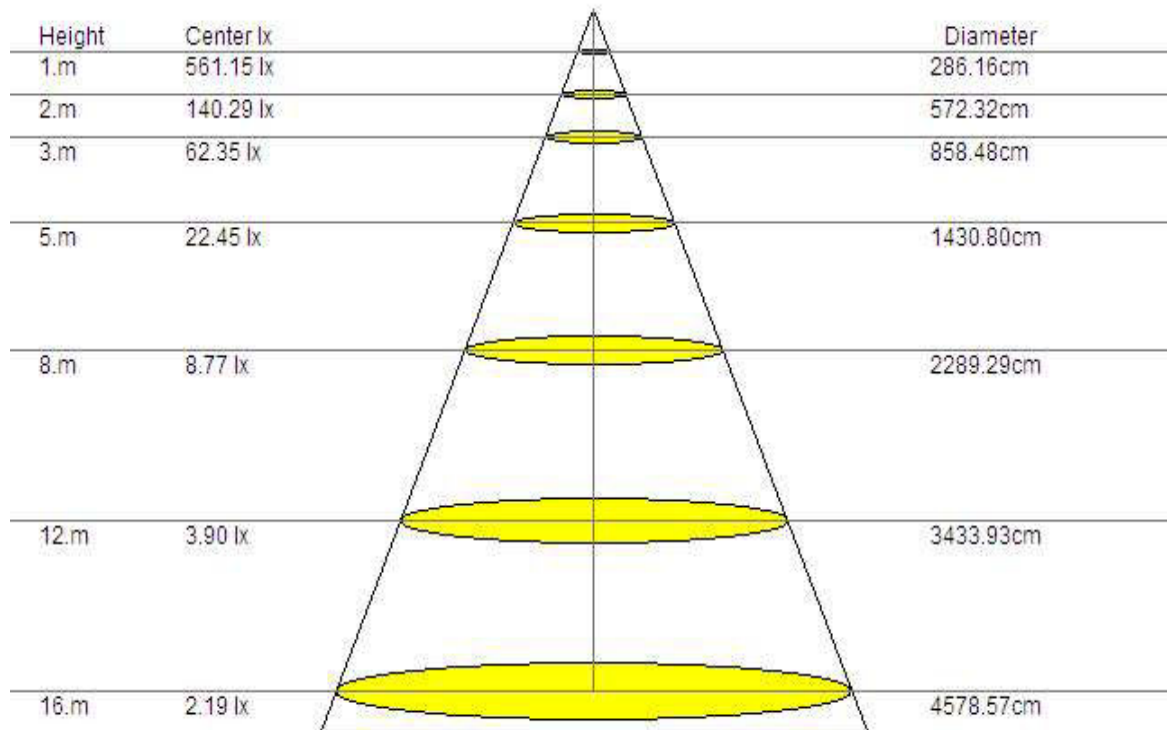
?	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	13579	13419	13230	12947	12566	12113	11530	10755	9817
C90	12967	12637	12165	11627	10928	9941	8722	6992	2903

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: 110.10°(50%Imax)



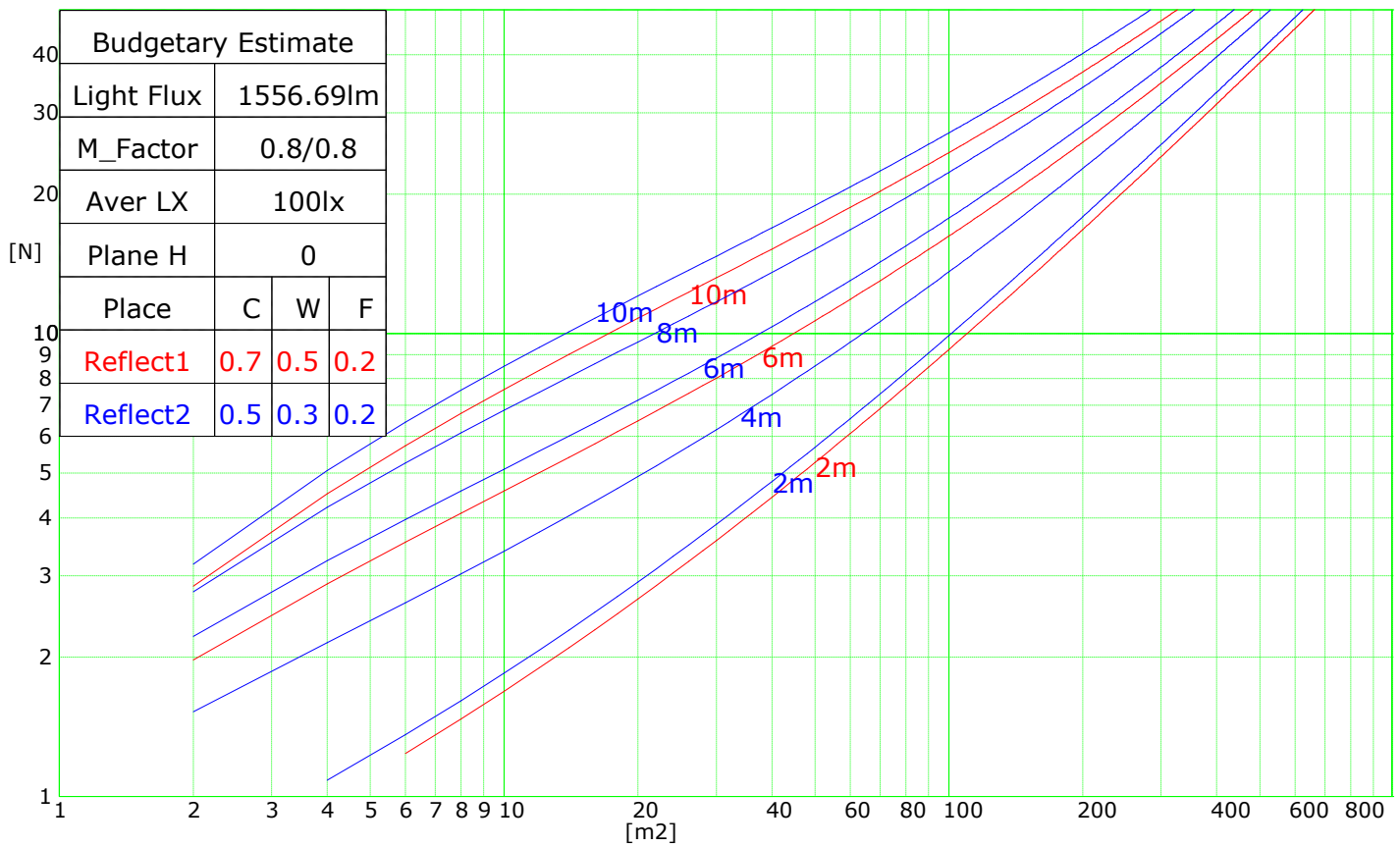


## Coefficients of Utilization

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	1.02	1.03	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.86	0.84	0.79
2	0.89	0.87	0.85	0.89	0.86	0.83	0.86	0.83	0.80	0.83	0.79	0.76	0.78	0.74	0.71	0.66
3	0.76	0.73	0.71	0.76	0.73	0.70	0.75	0.71	0.67	0.73	0.68	0.64	0.70	0.64	0.60	0.56
4	0.66	0.63	0.61	0.66	0.63	0.60	0.66	0.61	0.57	0.65	0.59	0.55	0.62	0.57	0.52	0.48
5	0.58	0.55	0.53	0.58	0.54	0.52	0.58	0.53	0.50	0.58	0.52	0.47	0.56	0.50	0.45	0.41
6	0.51	0.48	0.46	0.52	0.48	0.45	0.52	0.47	0.44	0.52	0.46	0.42	0.51	0.45	0.40	0.36
7	0.45	0.43	0.41	0.46	0.42	0.40	0.47	0.42	0.39	0.47	0.41	0.37	0.47	0.40	0.35	0.32
8	0.41	0.38	0.37	0.42	0.38	0.36	0.43	0.38	0.34	0.43	0.37	0.33	0.43	0.37	0.31	0.28
9	0.37	0.34	0.33	0.38	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	0.30	0.34	0.31	0.29	0.36	0.31	0.28	0.37	0.31	0.27	0.37	0.31	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 X Y	Weft to light axis direction of observation					Direction of light axis parallel observation					
2H	2H	14.8	15.9	15.1	15.9	16.3	14.7	15.9	14.9	15.9	16.3
	3H	16.2	17.4	16.7	17.7	18.0	16.2	17.4	16.5	17.9	18.0
	4H	16.9	18.1	17.4	18.6	18.7	17.0	18.0	17.3	18.6	18.8
	6H	17.5	18.5	18.0	18.9	19.0	17.3	18.3	17.8	18.8	19.1
	8H	17.9	18.9	18.2	18.9	19.3	17.8	18.7	18.0	19.0	19.3
4H	12H	18.0	18.8	18.2	19.3	19.5	17.8	18.6	18.0	19.2	19.5
	2H	15.6	16.6	15.9	16.9	17.1	15.6	16.6	15.8	16.8	17.0
	3H	17.5	18.4	17.8	18.3	18.7	17.3	18.2	17.5	18.4	18.8
	4H	18.2	19.0	18.5	19.1	19.5	18.0	18.9	18.4	19.2	19.5
	6H	18.8	19.5	19.2	19.8	20.1	18.8	19.4	19.0	19.7	20.1
8H	8H	19.0	19.8	19.5	19.9	20.4	19.0	19.6	19.2	19.9	20.3
	12H	19.3	19.9	19.7	20.2	20.4	19.2	19.7	19.6	20.2	20.5
	4H	18.6	19.2	18.8	19.4	19.9	18.4	19.0	18.8	19.4	19.8
	6H	19.4	19.8	19.7	20.2	20.7	19.2	19.9	19.7	20.2	20.6
	8H	19.8	20.2	20.1	20.5	20.9	19.6	20.0	20.0	20.5	20.9
12H	12H	19.9	20.5	20.4	20.7	21.3	19.9	20.4	20.2	20.7	21.1
	4H	18.6	19.1	18.9	19.5	19.9	18.4	19.0	18.8	19.6	19.9
	6H	19.6	20.0	19.9	20.2	20.6	19.3	19.8	19.8	20.2	20.7
	8H	19.9	20.4	20.3	20.7	21.1	19.9	20.3	20.2	20.6	21.1