



Luminaire Property

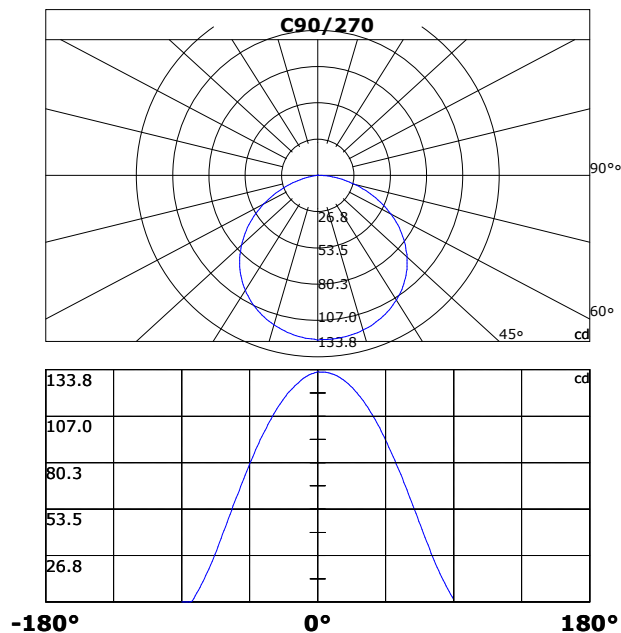
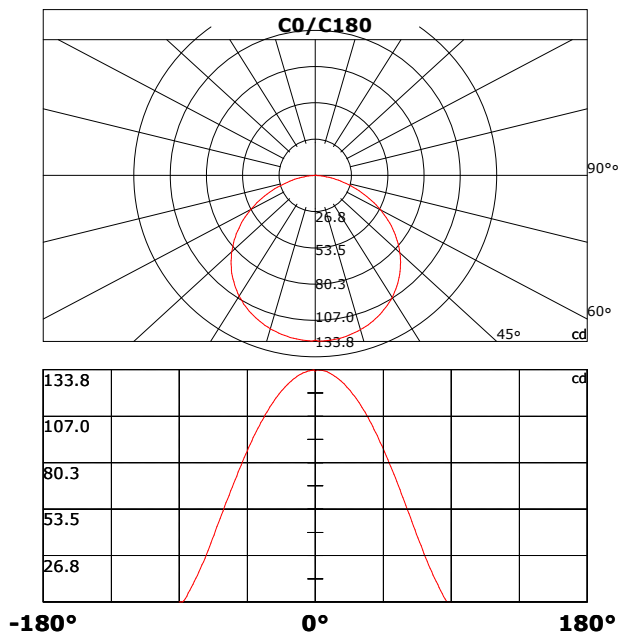
Luminaire Description: B1080-BN
Luminaire Categorie: DOWNLIGHT SLIM 6W
Lamp Categorie: DOWNLIGHT
Lamp Description: BLANCO NEUTRO 4000K
Number of Lamp: 1
Lamp Lumens(lm): 365.48
Luminous Length(m): 0.12
Luminous Width(m): 0.12
Luminous Height(m): 0.03

Voltage: 229.9 V
Current: 0.057 A
Power: 7.29 W
Power Factor: 0.556
Test Lab: BLED
Photometric Type: Type C
Manufactory: BLED

Photometric Results

CIE Class: Direct
Luminaire Lumens: 365.48 lm
Efficiency: 50.1344 lm/W
Central Intensity: 132.786cd
Max. Intensity: 133.778cd
Field Angle(10%Imax): NA

Max.Intensity Angle: C:0.0 G:1.0
Beam Angle(50%Imax): L: -55.7 R:54.1
Luminaire Efficacy Rating(LER) : 67.6815%
Upward Ratio: NA
Downward Ratio: NA
Beamwidth(50%Imax): H=114.63V=115.91





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	132.8	133.8	133.7	133.6	133.5	133.4	133.2	132.9	132.6	132.1
C45.0	132.8	132.0	132.1	132.2	132.3	132.2	132.2	132.2	131.9	131.9
C90.0	132.8	132.4	132.4	132.5	132.4	132.4	132.2	132.1	131.8	131.5
C135.0	132.8	133.0	132.9	132.8	132.6	132.5	132.3	132.1	131.7	131.3
C180.0	132.8	133.6	133.6	133.4	133.1	132.9	132.6	132.3	132.0	131.5
C225.0	132.8	131.6	131.4	131.1	130.7	130.3	129.9	129.4	128.8	128.3
C270.0	132.8	132.2	132.0	131.7	131.5	131.1	130.8	130.3	129.7	129.1
C315.0	132.8	132.9	132.8	132.7	132.5	132.3	132.0	131.8	131.4	131.0
C360.0	132.8	133.8	133.7	133.6	133.5	133.4	133.2	132.9	132.6	132.1
C\G	G10.0	G11.0	G12.0	G13.0	G14.0	G15.0	G16.0	G17.0	G18.0	G19.0
C0.0	131.7	131.1	130.6	130.0	129.4	128.8	128.0	127.3	126.5	125.7
C45.0	131.5	131.4	130.9	130.7	130.3	129.8	129.4	128.9	128.3	127.7
C90.0	131.3	130.9	130.5	130.1	129.7	129.1	128.5	128.0	127.3	126.6
C135.0	130.9	130.5	130.1	129.5	128.9	128.4	127.7	126.9	126.1	125.5
C180.0	131.0	130.5	130.0	129.3	128.7	128.1	127.2	126.6	125.6	124.8
C225.0	127.7	126.9	126.2	125.6	124.8	123.9	123.0	122.1	121.1	120.1
C270.0	128.5	127.8	127.0	126.3	125.5	124.7	123.8	122.9	121.9	121.0
C315.0	130.6	130.0	129.5	129.0	128.2	127.7	126.9	126.2	125.4	124.5
C360.0	131.7	131.1	130.6	130.0	129.4	128.8	128.0	127.3	126.5	125.7
C\G	G20.0	G21.0	G22.0	G23.0	G24.0	G25.0	G26.0	G27.0	G28.0	G29.0
C0.0	124.7	123.8	122.9	121.9	120.8	119.6	118.5	117.4	116.1	114.9
C45.0	127.0	126.3	125.5	124.8	123.9	123.0	122.1	121.2	120.2	119.0
C90.0	125.8	125.1	124.2	123.3	122.5	121.5	120.5	119.4	118.3	117.2
C135.0	124.5	123.8	122.7	121.8	120.7	119.7	118.6	117.4	116.2	115.1
C180.0	123.9	122.8	121.9	120.8	119.8	118.6	117.5	116.3	114.9	113.7
C225.0	119.0	117.9	116.8	115.7	114.4	113.0	111.7	110.3	108.9	107.4
C270.0	120.0	118.8	117.7	116.4	115.2	114.0	112.7	111.2	109.9	108.6
C315.0	123.7	122.7	121.6	120.6	119.6	118.5	117.2	116.1	114.7	113.4
C360.0	124.7	123.8	122.9	121.9	120.8	119.6	118.5	117.4	116.1	114.9
C\G	G30.0	G31.0	G32.0	G33.0	G34.0	G35.0	G36.0	G37.0	G38.0	G39.0
C0.0	113.5	112.1	110.7	109.3	107.6	106.1	104.5	102.9	101.1	99.4
C45.0	117.9	116.7	115.5	114.3	112.9	111.7	110.3	108.9	107.4	105.8
C90.0	116.0	114.8	113.5	112.3	111.0	109.4	108.1	106.5	105.0	103.5
C135.0	113.8	112.3	111.1	109.6	108.3	107.0	105.1	103.7	102.0	100.4
C180.0	112.4	110.9	109.5	108.1	106.5	104.9	103.4	101.7	100.1	98.3
C225.0	105.9	104.4	102.7	101.1	99.4	97.7	96.0	94.2	92.1	90.3
C270.0	106.8	105.4	103.9	102.2	100.3	98.7	97.0	95.2	93.5	91.5
C315.0	112.1	110.7	109.1	107.6	106.2	104.7	103.1	101.1	99.3	97.5
C360.0	113.5	112.1	110.7	109.3	107.6	106.1	104.5	102.9	101.1	99.4



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	97.7	95.8	94.1	91.9	90.2	88.2	86.3	84.1	82.2	80.1
C45.0	104.4	102.7	101.1	99.5	97.7	96.1	94.1	92.5	90.4	88.6
C90.0	101.8	100.3	98.5	96.7	94.9	93.2	91.5	89.2	87.4	85.6
C135.0	98.6	97.0	95.2	93.5	91.5	89.8	87.7	85.9	83.8	81.8
C180.0	96.5	94.8	92.9	90.9	89.1	87.1	85.3	83.2	81.0	79.1
C225.0	88.5	86.6	84.5	82.5	80.4	78.3	76.1	73.5	71.0	68.5
C270.0	89.6	87.7	85.7	83.5	81.6	79.6	77.5	75.4	73.1	71.0
C315.0	95.8	93.7	91.8	89.8	87.8	85.7	83.3	81.1	78.9	76.4
C360.0	97.7	95.8	94.1	91.9	90.2	88.2	86.3	84.1	82.2	80.1
C\G	G50.0	G51.0	G52.0	G53.0	G54.0	G55.0	G56.0	G57.0	G58.0	G59.0
C0.0	78.1	75.9	73.7	71.4	69.4	67.1	64.7	62.4	60.1	57.9
C45.0	86.5	84.7	82.5	80.4	78.6	76.4	74.4	72.1	69.9	67.9
C90.0	83.6	81.7	79.4	77.5	75.5	73.4	71.1	68.9	66.8	64.6
C135.0	79.8	77.8	75.6	73.5	71.4	69.2	67.2	64.9	62.4	60.5
C180.0	77.0	75.0	72.5	70.5	68.3	66.3	64.1	61.6	59.3	57.1
C225.0	65.9	63.5	61.5	59.5	57.3	54.9	52.0	49.7	47.4	45.2
C270.0	68.9	66.7	64.3	62.1	59.9	57.6	55.3	52.8	50.5	48.2
C315.0	74.4	72.4	70.5	68.4	66.1	63.4	60.8	58.7	56.5	53.7
C360.0	78.1	75.9	73.7	71.4	69.4	67.1	64.7	62.4	60.1	57.9
C\G	G60.0	G61.0	G62.0	G63.0	G64.0	G65.0	G66.0	G67.0	G68.0	G69.0
C0.0	55.7	53.1	50.9	48.6	46.3	43.8	41.6	39.2	37.0	34.5
C45.0	65.6	63.4	61.0	58.8	56.7	54.4	52.0	49.6	47.5	45.0
C90.0	62.4	60.0	57.8	55.8	53.4	51.1	48.7	46.4	44.3	41.8
C135.0	58.2	56.1	53.7	51.3	49.2	46.8	44.7	42.1	39.9	37.6
C180.0	55.1	52.5	50.2	48.1	45.7	43.6	41.1	38.7	36.5	34.0
C225.0	42.7	40.3	38.1	35.8	33.5	31.0	28.9	26.7	24.6	22.5
C270.0	46.0	43.4	41.2	39.0	36.5	34.3	31.8	29.6	27.5	25.2
C315.0	51.7	49.4	47.1	44.8	42.2	40.0	37.7	35.5	33.1	30.8
C360.0	55.7	53.1	50.9	48.6	46.3	43.8	41.6	39.2	37.0	34.5
C\G	G70.0	G71.0	G72.0	G73.0	G74.0	G75.0	G76.0	G77.0	G78.0	G79.0
C0.0	32.4	29.9	27.8	25.6	23.6	21.4	19.4	17.6	15.6	13.8
C45.0	42.9	40.5	38.1	35.9	33.5	31.2	29.0	26.7	24.6	22.7
C90.0	39.7	37.3	34.9	32.8	30.4	28.2	26.0	23.9	22.0	20.1
C135.0	35.3	33.1	30.9	28.6	26.3	24.4	22.2	20.2	18.3	16.4
C180.0	32.1	29.5	27.3	25.3	23.1	21.4	19.3	17.3	15.5	13.7
C225.0	20.6	18.7	16.7	14.9	13.1	11.3	9.6	7.9	6.4	4.6
C270.0	23.3	21.2	19.2	17.3	15.5	13.5	11.8	10.1	8.4	6.7
C315.0	28.6	26.3	24.3	22.1	20.2	18.2	16.3	14.6	12.7	10.9
C360.0	32.4	29.9	27.8	25.6	23.6	21.4	19.4	17.6	15.6	13.8



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	11.9	10.2	8.4	6.6	4.9	3.3	1.8	0.3	0.0	0.0
C45.0	20.7	18.7	16.9	15.1	13.4	11.6	9.9	8.2	6.5	4.9
C90.0	18.2	16.3	14.6	12.7	11.0	9.3	7.6	6.0	4.5	3.0
C135.0	14.6	12.9	11.0	9.3	7.6	5.9	4.3	2.8	1.3	0.0
C180.0	11.9	10.2	8.5	6.8	5.2	3.5	1.9	0.6	0.0	0.0
C225.0	3.2	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C270.0	5.2	3.6	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
C315.0	9.2	7.4	5.7	4.0	2.5	1.0	0.0	0.0	0.0	0.0
C360.0	11.9	10.2	8.4	6.6	4.9	3.3	1.8	0.3	0.0	0.0
C\G	G90.0									
C0.0	0.0									
C45.0	3.4									
C90.0	1.4									
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

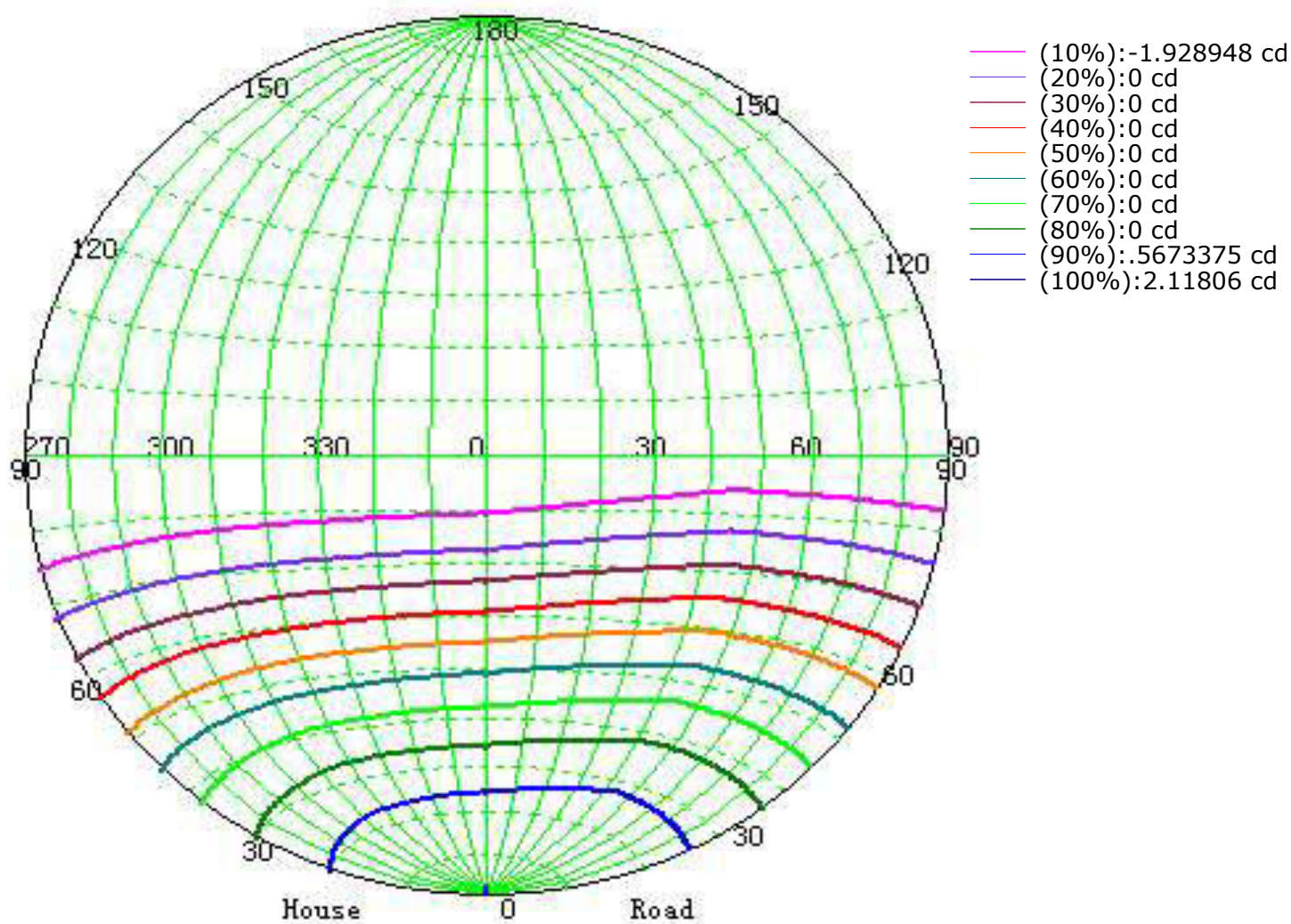
Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
0.0	132.79	0.00	0.00	0.00	0.00
0.0-1.0	132.70	0.13	0.13	0.02	0.02
1.0-2.0	132.62	0.38	0.51	0.07	0.09
2.0-3.0	132.48	0.63	1.14	0.12	0.21
3.0-4.0	132.33	0.89	2.03	0.16	0.38
4.0-5.0	132.15	1.14	3.17	0.21	0.59
5.0-6.0	131.90	1.39	4.55	0.26	0.84
6.0-7.0	131.63	1.64	6.19	0.30	1.15
7.0-8.0	131.24	1.88	8.07	0.35	1.49
8.0-9.0	130.84	2.12	10.19	0.39	1.89
9.0-10.0	130.40	2.36	12.56	0.44	2.33
10.0-11.0	129.90	2.60	15.16	0.48	2.81
11.0-12.0	129.35	2.83	17.99	0.52	3.33
12.0-13.0	128.81	3.06	21.06	0.57	3.90
13.0-14.0	128.18	3.29	24.35	0.61	4.51
14.0-15.0	127.55	3.51	27.86	0.65	5.16
15.0-16.0	126.80	3.73	31.58	0.69	5.85
16.0-17.0	126.10	3.94	35.52	0.73	6.58
17.0-18.0	125.28	4.14	39.67	0.77	7.35
18.0-19.0	124.48	4.35	44.01	0.80	8.15
19.0-20.0	123.58	4.54	48.55	0.84	8.99
20.0-21.0	122.65	4.73	53.28	0.88	9.87
21.0-22.0	121.66	4.91	58.19	0.91	10.78
22.0-23.0	120.67	5.08	63.28	0.94	11.72
23.0-24.0	119.62	5.25	68.53	0.97	12.69
24.0-25.0	118.50	5.41	73.94	1.00	13.69
25.0-26.0	117.36	5.57	79.51	1.03	14.72
26.0-27.0	116.17	5.71	85.22	1.06	15.78
27.0-28.0	114.91	5.85	91.07	1.08	16.87
28.0-29.0	113.66	5.98	97.05	1.11	17.97
29.0-30.0	112.30	6.10	103.16	1.13	19.10
30.0-31.0	110.91	6.21	109.37	1.15	20.25
31.0-32.0	109.49	6.31	115.68	1.17	21.42
32.0-33.0	108.06	6.41	122.09	1.19	22.61
33.0-34.0	106.52	6.49	128.58	1.20	23.81
34.0-35.0	105.02	6.57	135.15	1.22	25.03
35.0-36.0	103.43	6.64	141.79	1.23	26.26
36.0-37.0	101.78	6.69	148.48	1.24	27.50
37.0-38.0	100.07	6.74	155.22	1.25	28.74
38.0-39.0	98.33	6.77	161.99	1.25	30.00
39.0-40.0	96.62	6.80	168.79	1.26	31.26



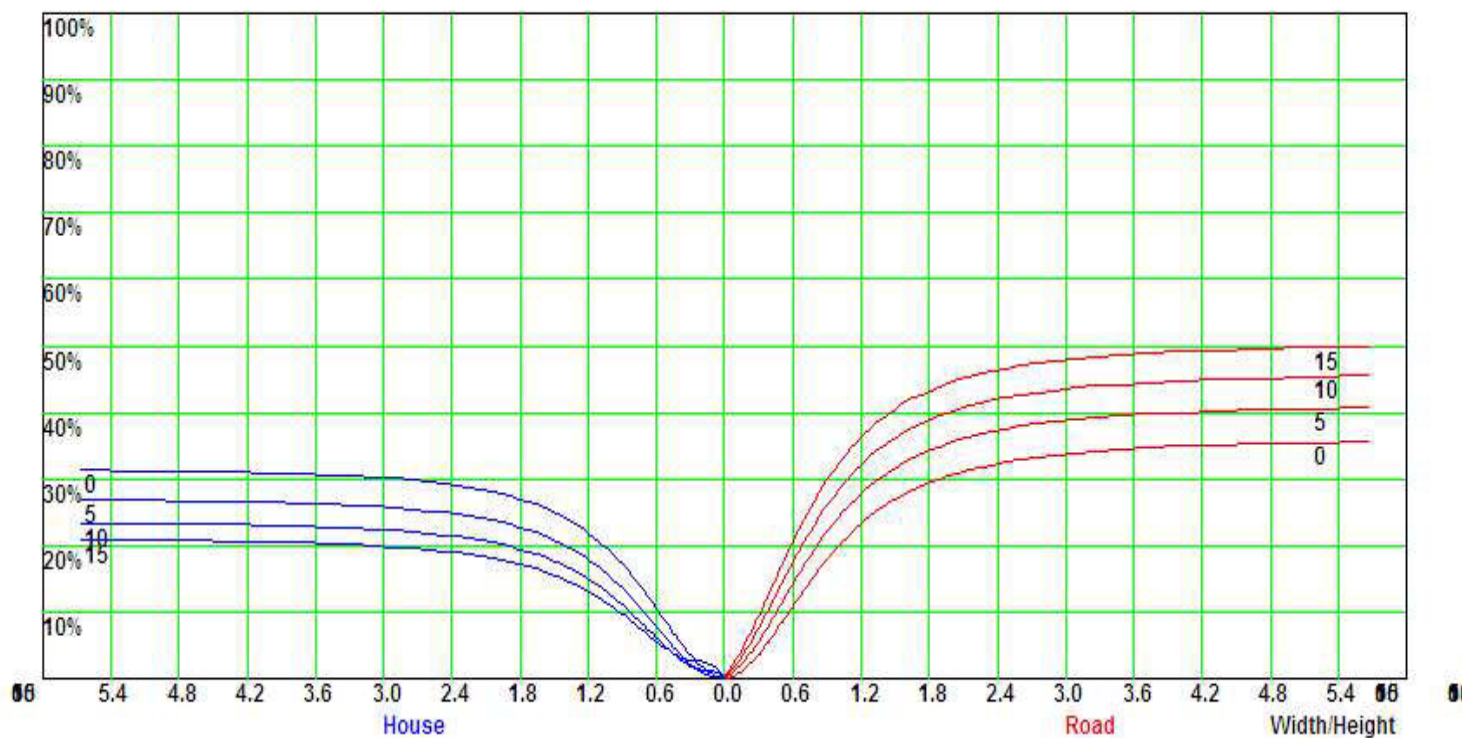
Zonal Luminous Flux Data

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Flux [lm]	Zonal Flux [%]	Sum Flux [%]
40.0-41.0	94.84	6.82	175.61	1.26	32.52
41.0-42.0	92.96	6.82	182.43	1.26	33.78
42.0-43.0	91.04	6.82	189.25	1.26	35.05
43.0-44.0	89.15	6.80	196.05	1.26	36.31
44.0-45.0	87.24	6.78	202.83	1.26	37.56
45.0-46.0	85.22	6.74	209.57	1.25	38.81
46.0-47.0	83.11	6.69	216.27	1.24	40.05
47.0-48.0	80.95	6.63	222.90	1.23	41.28
48.0-49.0	78.88	6.56	229.47	1.22	42.49
49.0-50.0	76.76	6.49	235.95	1.20	43.70
50.0-51.0	74.71	6.41	242.36	1.19	44.88
51.0-52.0	72.51	6.32	248.68	1.17	46.05
52.0-53.0	70.42	6.22	254.90	1.15	47.20
53.0-54.0	68.31	6.11	261.01	1.13	48.34
54.0-55.0	66.04	6.00	267.01	1.11	49.45
55.0-56.0	63.72	5.86	272.87	1.09	50.53
56.0-57.0	61.38	5.72	278.59	1.06	51.59
57.0-58.0	59.11	5.57	284.16	1.03	52.62
58.0-59.0	56.89	5.42	289.59	1.00	53.63
59.0-60.0	54.69	5.27	294.86	0.98	54.60
60.0-61.0	52.27	5.10	299.96	0.95	55.55
61.0-62.0	49.99	4.93	304.89	0.91	56.46
62.0-63.0	47.78	4.76	309.64	0.88	57.34
63.0-64.0	45.45	4.57	314.22	0.85	58.19
64.0-65.0	43.15	4.38	318.60	0.81	59.00
65.0-66.0	40.81	4.19	322.79	0.78	59.78
66.0-67.0	38.46	3.99	326.78	0.74	60.51
67.0-68.0	36.30	3.79	330.57	0.70	61.22
68.0-69.0	33.92	3.58	334.15	0.66	61.88
69.0-70.0	31.85	3.38	337.52	0.63	62.50
70.0-71.0	29.59	3.18	340.70	0.59	63.09
71.0-72.0	27.39	2.96	343.66	0.55	63.64
72.0-73.0	25.31	2.76	346.42	0.51	64.15
73.0-74.0	23.22	2.55	348.97	0.47	64.62
74.0-75.0	21.20	2.35	351.32	0.43	65.06
75.0-76.0	19.19	2.14	353.46	0.40	65.46
76.0-77.0	17.31	1.95	355.41	0.36	65.82
77.0-78.0	15.42	1.75	357.16	0.32	66.14
78.0-79.0	13.60	1.56	358.72	0.29	66.43
79.0-80.0	11.86	1.37	360.09	0.25	66.68
80.0-81.0	10.12	1.19	361.28	0.22	66.90

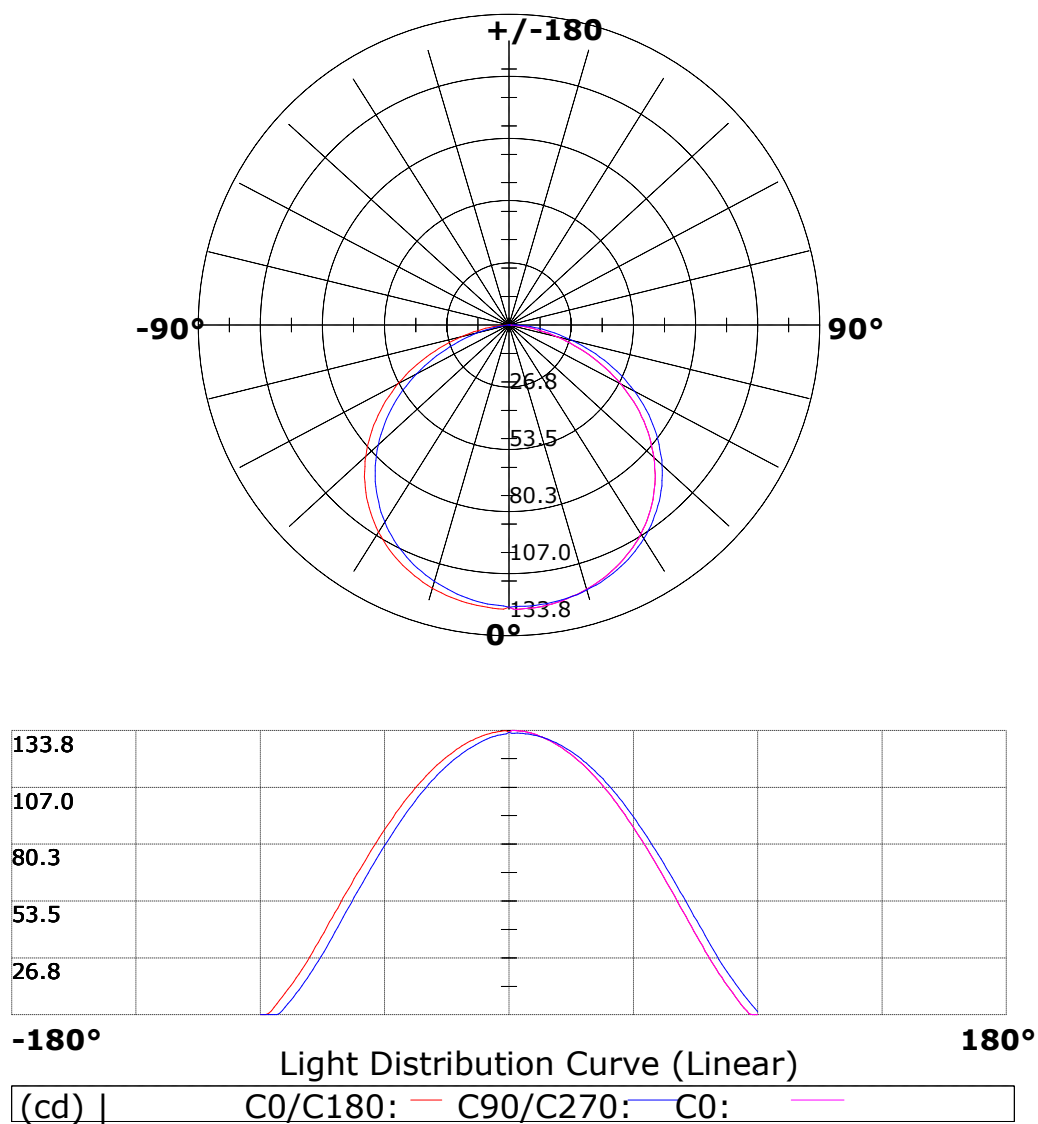
Iso-Candela [cd]

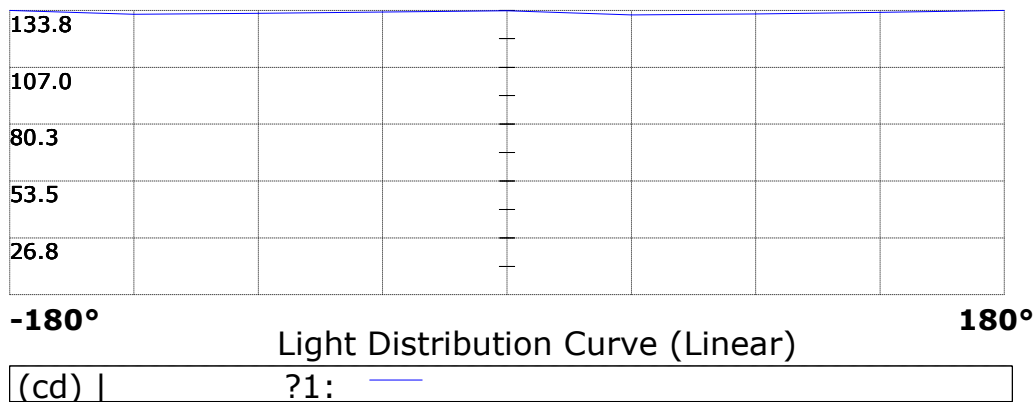
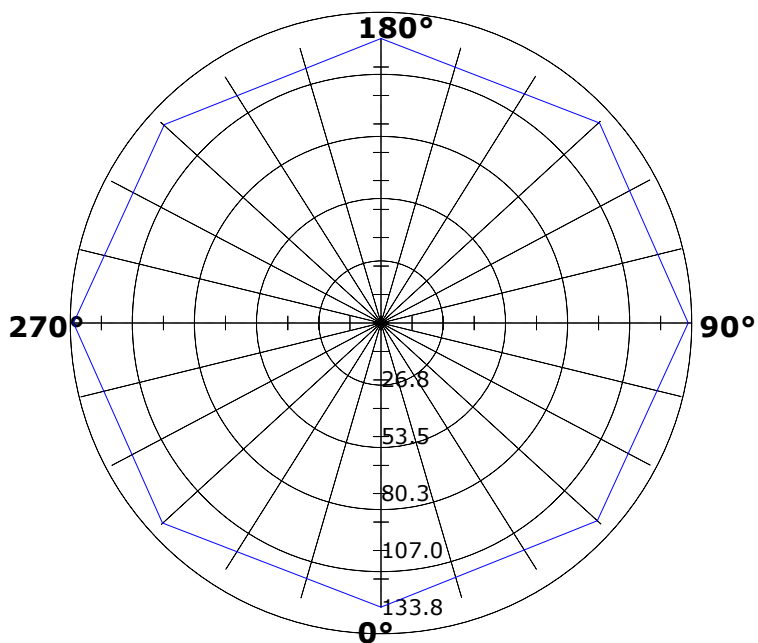


Coefficient Utilization Curve

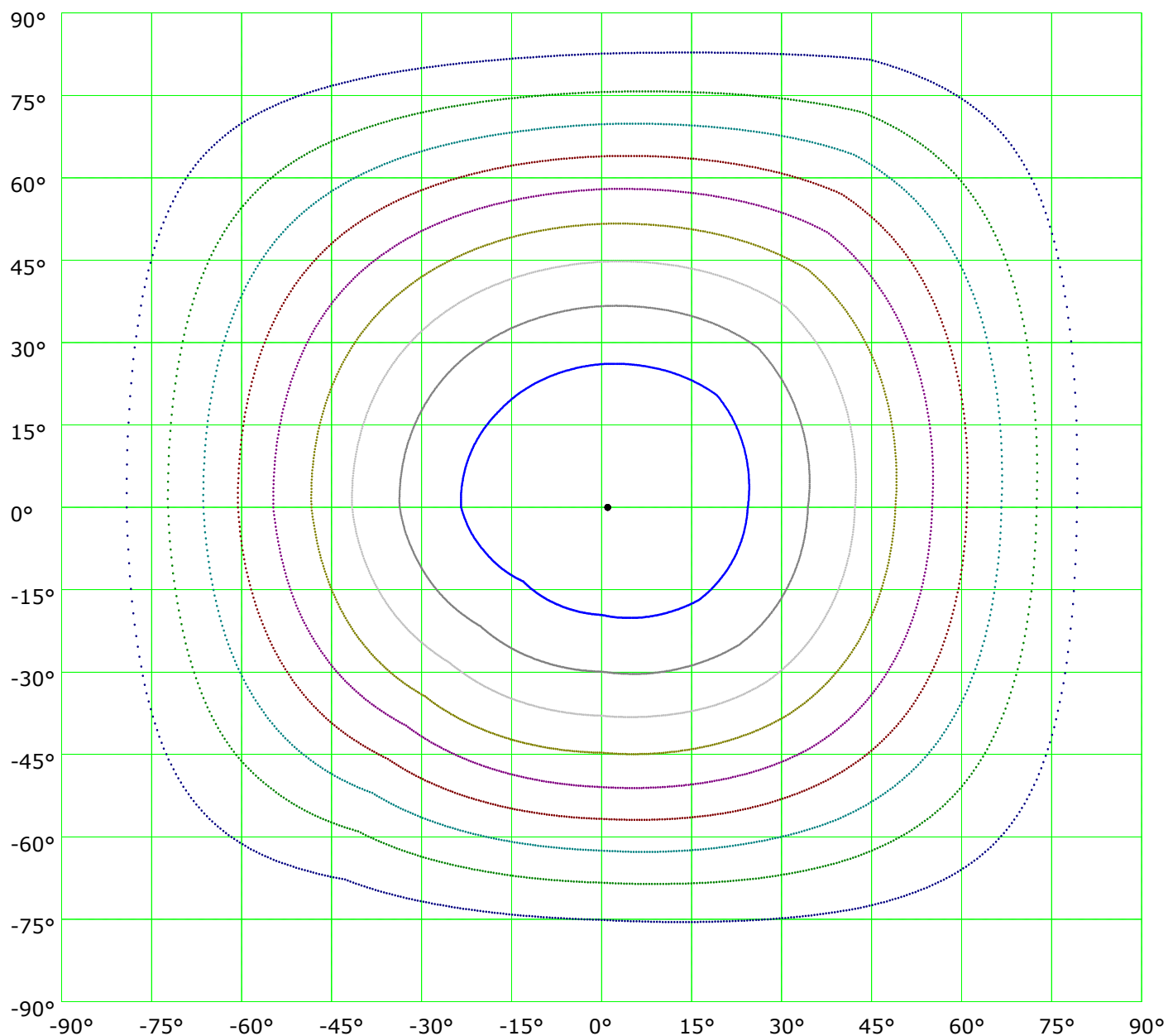


Light Distribution Curve [Unit: cd]



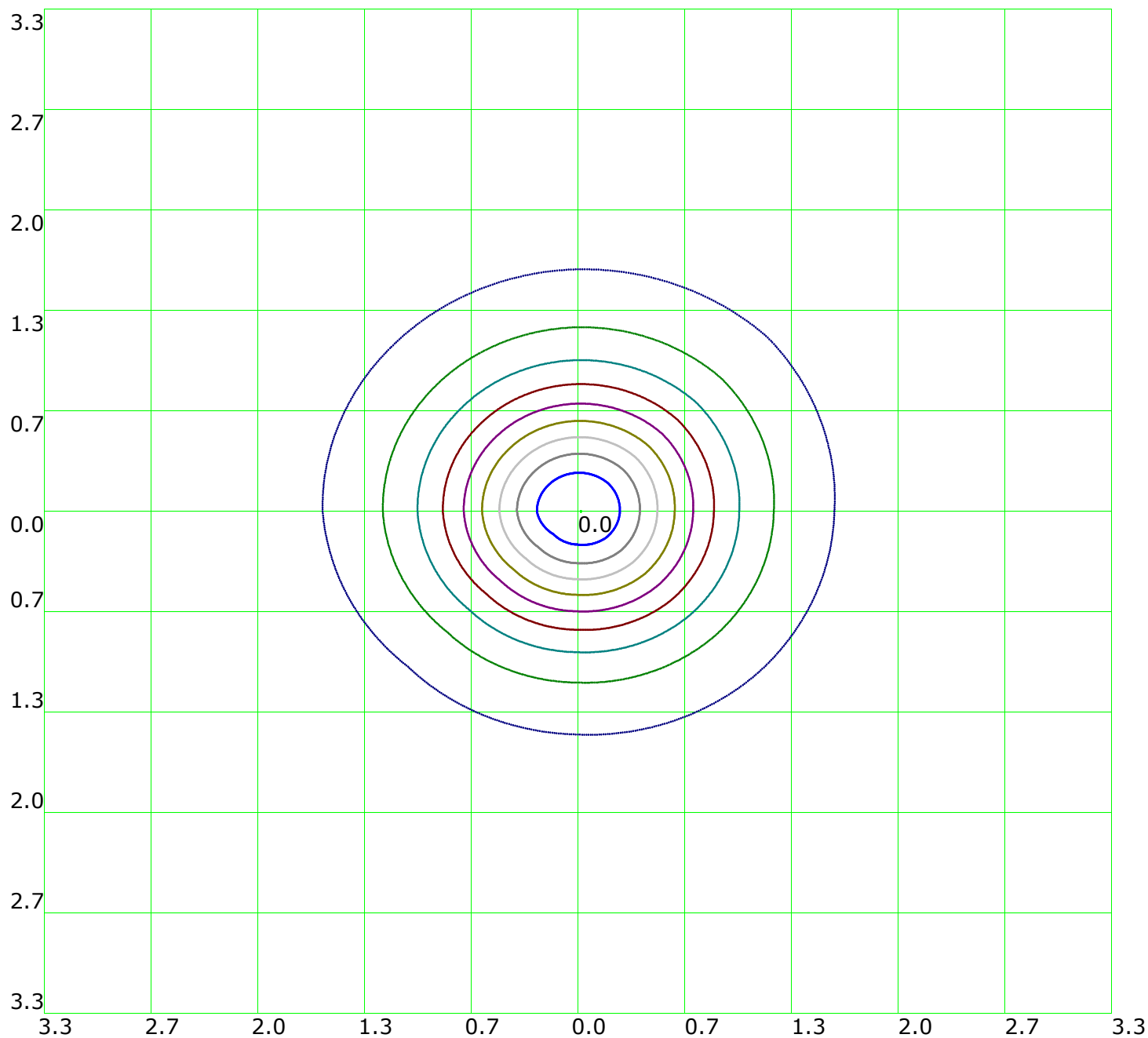


Isocandela(rectangle)



(10%): 13.4cd	(20%): 26.8cd	(30%): 40.1cd	(40%): 53.5cd
(50%): 66.9cd	(60%): 80.3cd	(70%): 93.6cd	(80%): 107.7cd
(90%): 120.4cd	(100%): 133.8cd		

Isolx curve



Height: 1 m

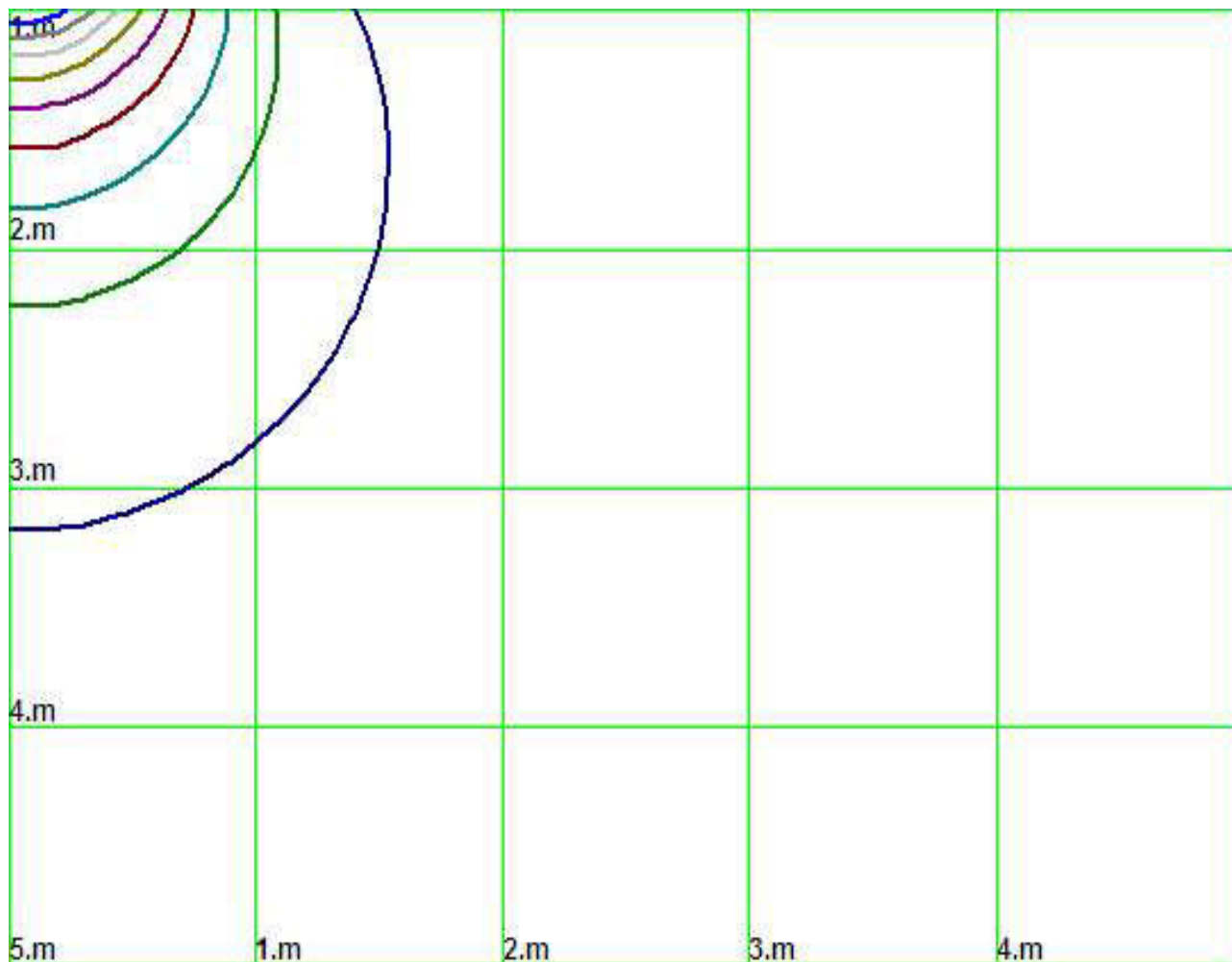
(10%): 13.4lx
 (50%): 66.9lx
 (90%): 120.4lx

(20%): 26.8lx
 (60%): 80.3lx
 (100%): 133.6lx

(30%): 40.1lx
 (70%): 93.6lx

(40%): 53.5lx
 (80%): 107.1lx

Space Isolx Curve



(10%): 13.4lx
(50%): 66.9lx
(90%): 120.4lx

(20%): 26.8lx
(60%): 80.3lx
(100%): 133.6lx

(30%): 40.1lx
(70%): 93.6lx

(40%): 53.5lx
(80%): 107.1lx

Luminance Limiting Curve

Diameter: 120mm

Length: 120mm

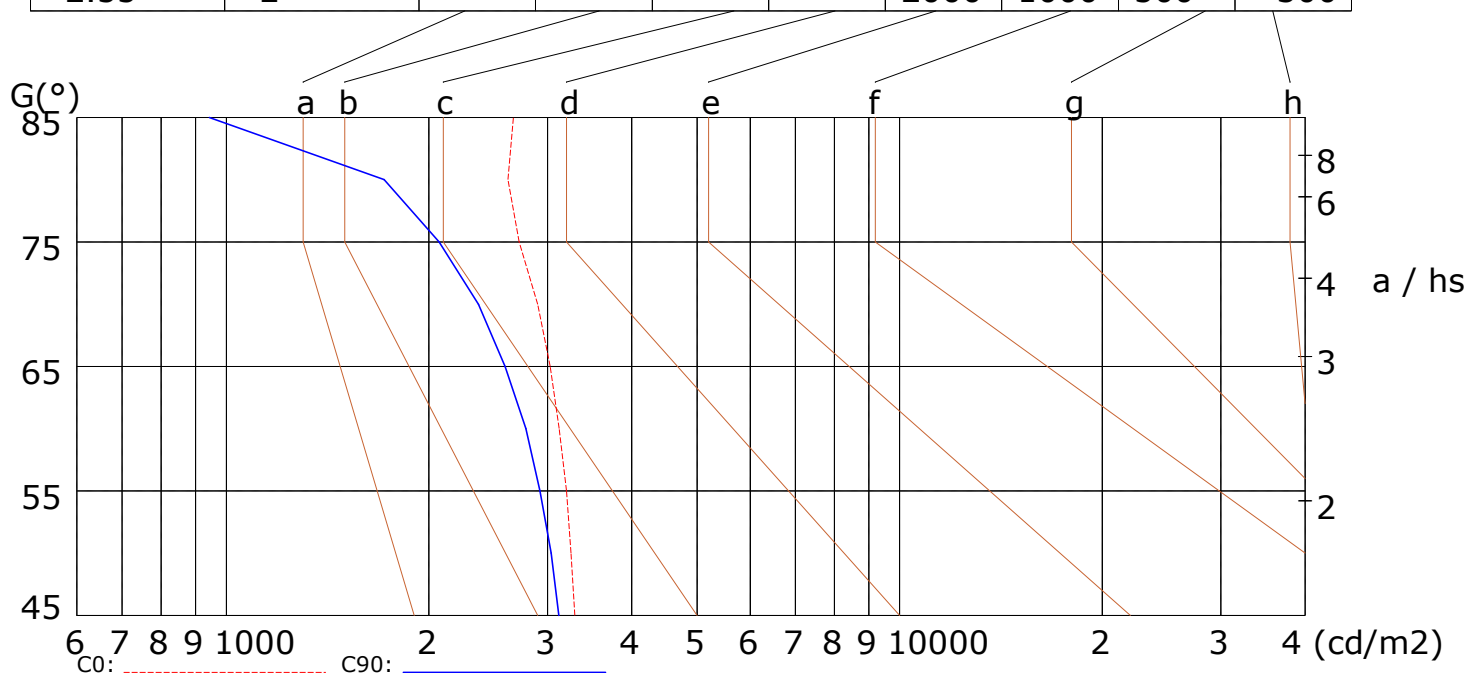
Width: 120mm

Height: 30mm

(cd/m²)

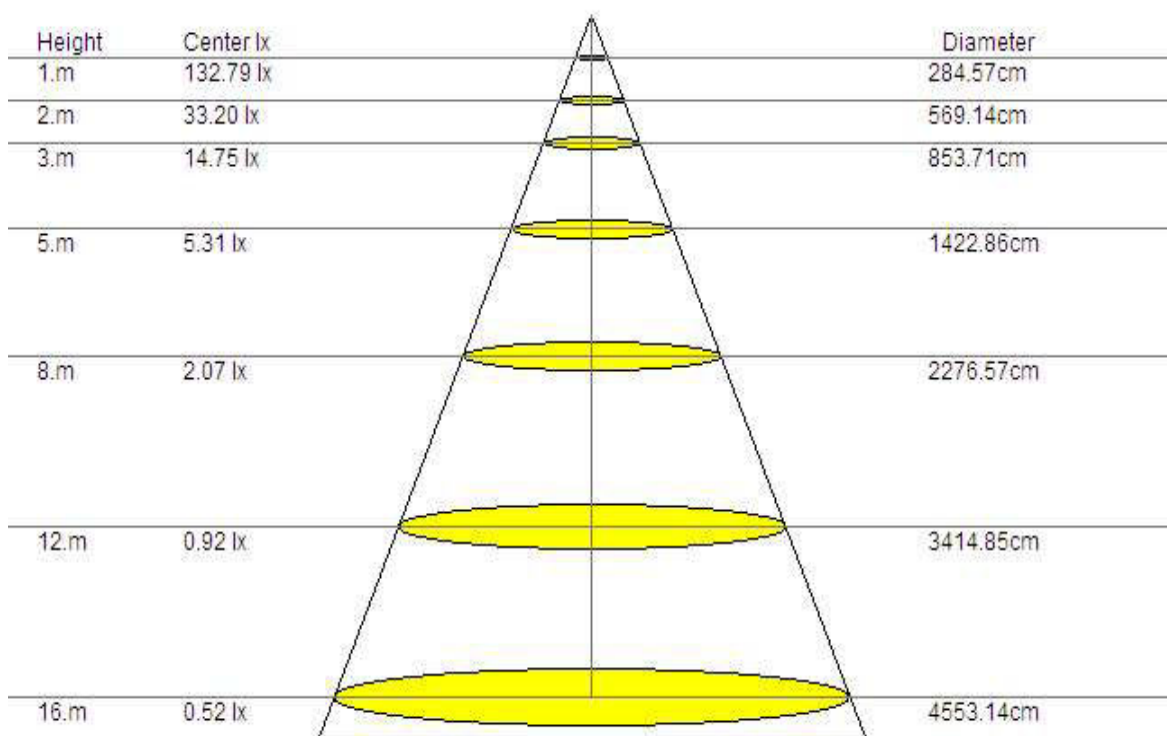
?	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	3294	3251	3200	3122	3025	2900	2722	2619	2669
C90	3117	3036	2923	2786	2593	2369	2071	1715	944

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: 109.80° (50% I_{max})

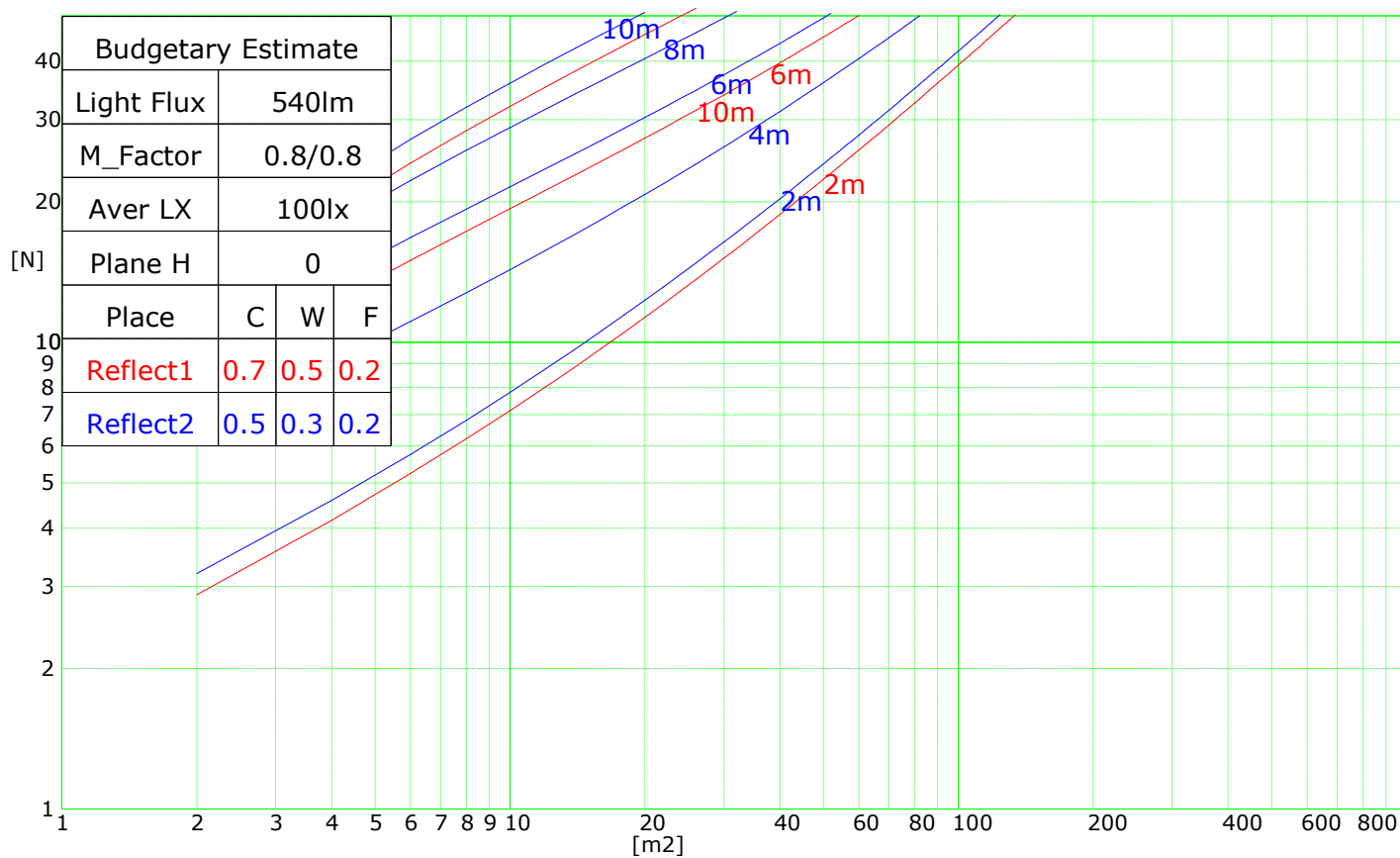


Coefficients of Utilization

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	0.81	0.81	0.81	0.79	0.79	0.79	0.75	0.75	0.75	0.72	0.72	0.72	0.69	0.69	0.69	0.68
1	0.71	0.70	0.69	0.70	0.69	0.68	0.68	0.66	0.65	0.64	0.63	0.61	0.60	0.59	0.57	0.54
2	0.61	0.59	0.58	0.60	0.58	0.57	0.59	0.56	0.54	0.56	0.54	0.51	0.53	0.50	0.48	0.45
3	0.52	0.50	0.49	0.52	0.49	0.48	0.51	0.48	0.46	0.49	0.46	0.43	0.47	0.44	0.41	0.38
4	0.45	0.43	0.42	0.45	0.43	0.41	0.45	0.42	0.39	0.44	0.40	0.37	0.42	0.38	0.35	0.32
5	0.39	0.37	0.36	0.40	0.37	0.35	0.40	0.36	0.34	0.39	0.35	0.32	0.38	0.34	0.31	0.28
6	0.35	0.33	0.32	0.35	0.33	0.31	0.36	0.32	0.30	0.35	0.31	0.28	0.35	0.30	0.27	0.25
7	0.31	0.29	0.28	0.31	0.29	0.27	0.32	0.29	0.26	0.32	0.28	0.25	0.32	0.27	0.24	0.22
8	0.28	0.26	0.25	0.28	0.26	0.24	0.29	0.26	0.24	0.29	0.25	0.23	0.30	0.25	0.21	0.19
9	0.25	0.23	0.22	0.26	0.23	0.22	0.27	0.23	0.21	0.27	0.23	0.20	0.27	0.23	0.19	0.17
10	0.23	0.21	0.20	0.23	0.21	0.20	0.24	0.21	0.19	0.25	0.21	0.18	0.25	0.21	0.18	0.16



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	14.6	16.0	14.9	15.9	16.4	14.7	15.9	14.9	15.9	16.5
	3H	16.2	17.4	16.7	17.8	18.0	16.2	17.3	16.5	17.9	18.0
	4H	17.0	18.1	17.3	18.6	18.8	16.9	17.9	17.3	18.5	18.7
	6H	17.5	18.6	18.0	18.8	19.0	17.4	18.4	17.9	18.9	19.0
	8H	17.9	18.9	18.1	18.9	19.3	17.8	18.8	17.9	19.0	19.4
	12H	17.9	18.8	18.1	19.3	19.6	17.7	18.6	18.1	19.1	19.5
4H	2H	15.7	16.6	15.8	16.8	17.1	15.6	16.6	15.7	16.9	17.0
	3H	17.5	18.3	17.8	18.5	18.9	17.4	18.2	17.6	18.4	18.7
	4H	18.2	19.0	18.6	19.1	19.4	18.0	18.9	18.4	19.2	19.4
	6H	18.8	19.6	19.2	19.7	20.2	18.6	19.4	19.0	19.7	20.1
	8H	19.1	19.8	19.4	20.0	20.4	18.9	19.6	19.4	19.9	20.3
	12H	19.3	19.9	19.5	20.1	20.5	19.1	19.8	19.5	20.2	20.5
8H	4H	18.4	19.2	18.9	19.3	19.8	18.4	19.1	18.8	19.4	19.8
	6H	19.3	19.8	19.8	20.2	20.5	19.2	19.7	19.7	20.2	20.5
	8H	19.6	20.2	20.1	20.5	21.0	19.6	19.9	20.0	20.4	20.9
	12H	20.0	20.4	20.4	20.8	21.2	19.9	20.4	20.3	20.7	21.2
12H	4H	18.6	19.1	19.0	19.4	19.9	18.4	19.0	18.9	19.5	19.9
	6H	19.5	20.0	19.8	20.2	20.6	19.5	19.8	19.7	20.2	20.6
	8H	20.0	20.4	20.4	20.5	21.1	19.8	20.2	20.3	20.6	21.1