



Goniophotometer Test Report

Product Info

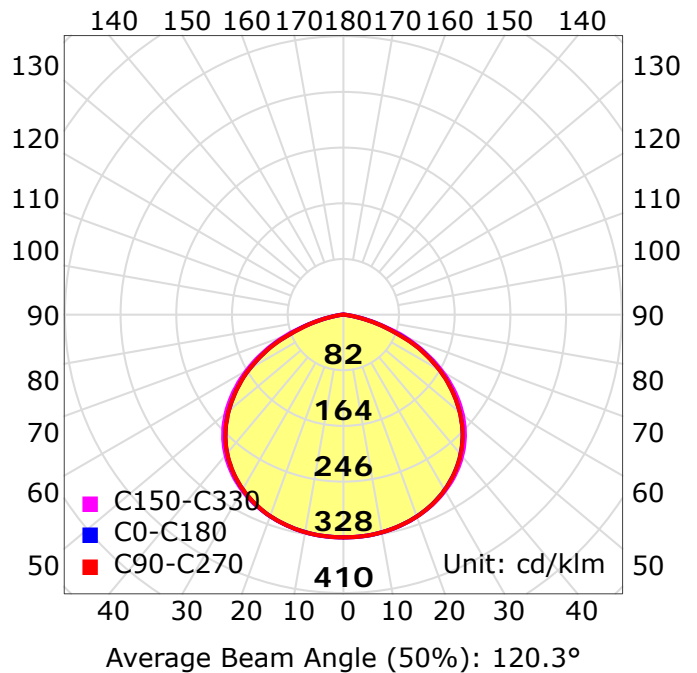
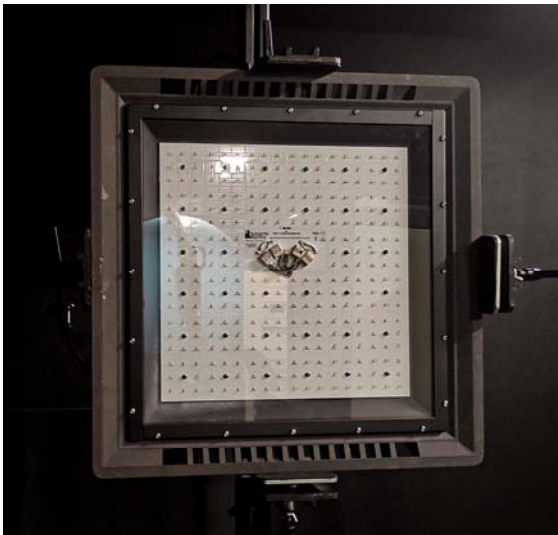
Luminaire Category : **Indoor**
 Luminaire : **Hydra Gray**
 Lamp Category : **LED**
 Manufacturer : **Industrial Lighting Ltd**
 Number of Lamps : **1** Lumens per Lamp : **67539 lm**
 Luminous Length : **370 mm** Luminous Width : **370 mm** Luminous Height : **0 mm**

Electric Parameters

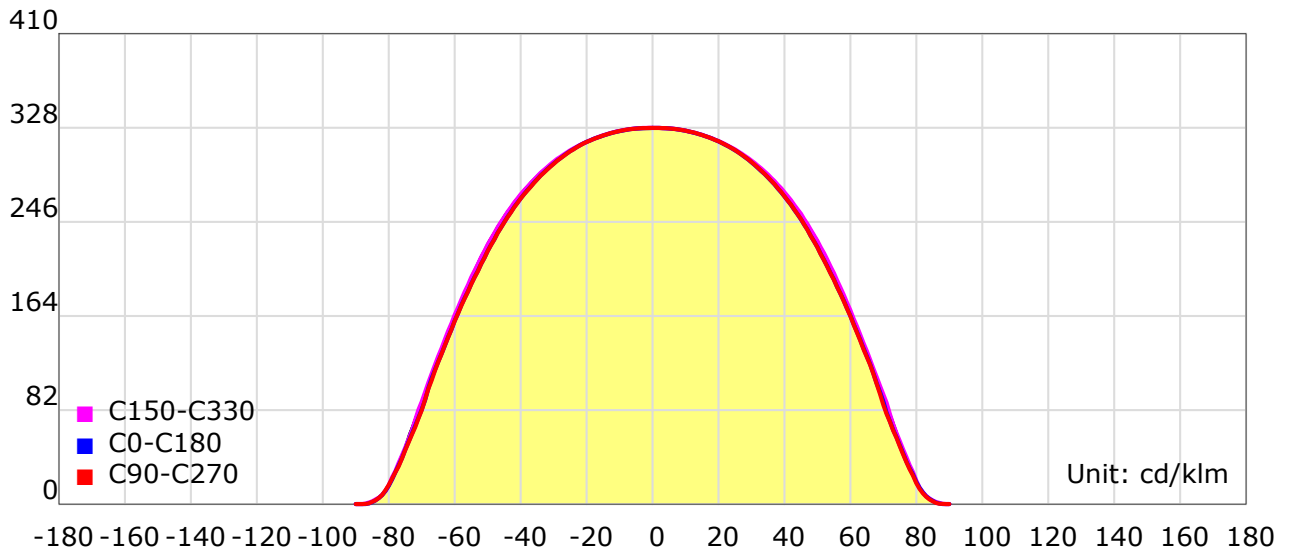
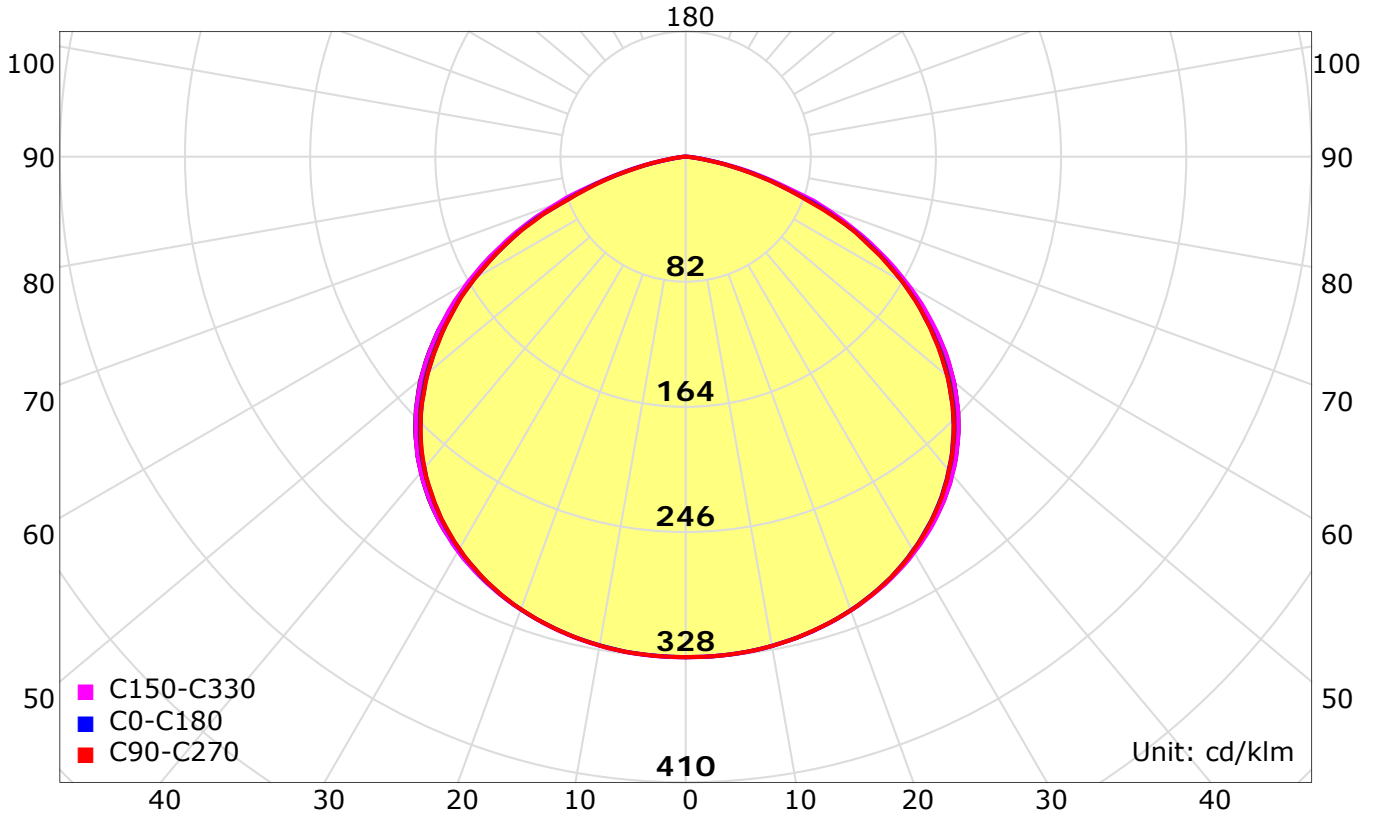
Voltage : **229.10 V** Current : **1.9400 A** Power : **422.50 W** Power Factor : **0.95** Frequency : **49.99 Hz**

Photometric Parameters

CIE Class : Direct	Total Rated Lamp Lumens : 67539.0 lm
Measurement Flux : 67539.0 lm	Efficiency : 100.00 %
Upward Ratio : 0.00 %	Downward Ratio : 100.00 %
Maximum Intensity : 328.04 cd/klm	Position Of Maximum Intensity : C330° γ1°
Central Intensity : 327.95 cd/klm	S/MH(C0-C180,C90-C270) : 1.35, 1.35
Luminaire Efficacy Rating (LER) : 160	Energy Efficiency Class : D (EU 2019/2015 □TM:153lm/W)
Conical Flux (90°) : 36451.79 lm (54.0%)	Conical Flux (120°) : 54848.71 lm (81.2%)
Beam Angle (C0-C180,C90-C270) : 119.4 °, 119.4 °	Beam Angle (C45-C225,C135-C315) : 120.9 °, 120.9 °
Field Angle (C0-C180,C90-C270) : 155.0 °, 154.7 °	Field Angle (C45-C225,C135-C315) : 155.5 °, 155.5 °



Light Distribution Curve

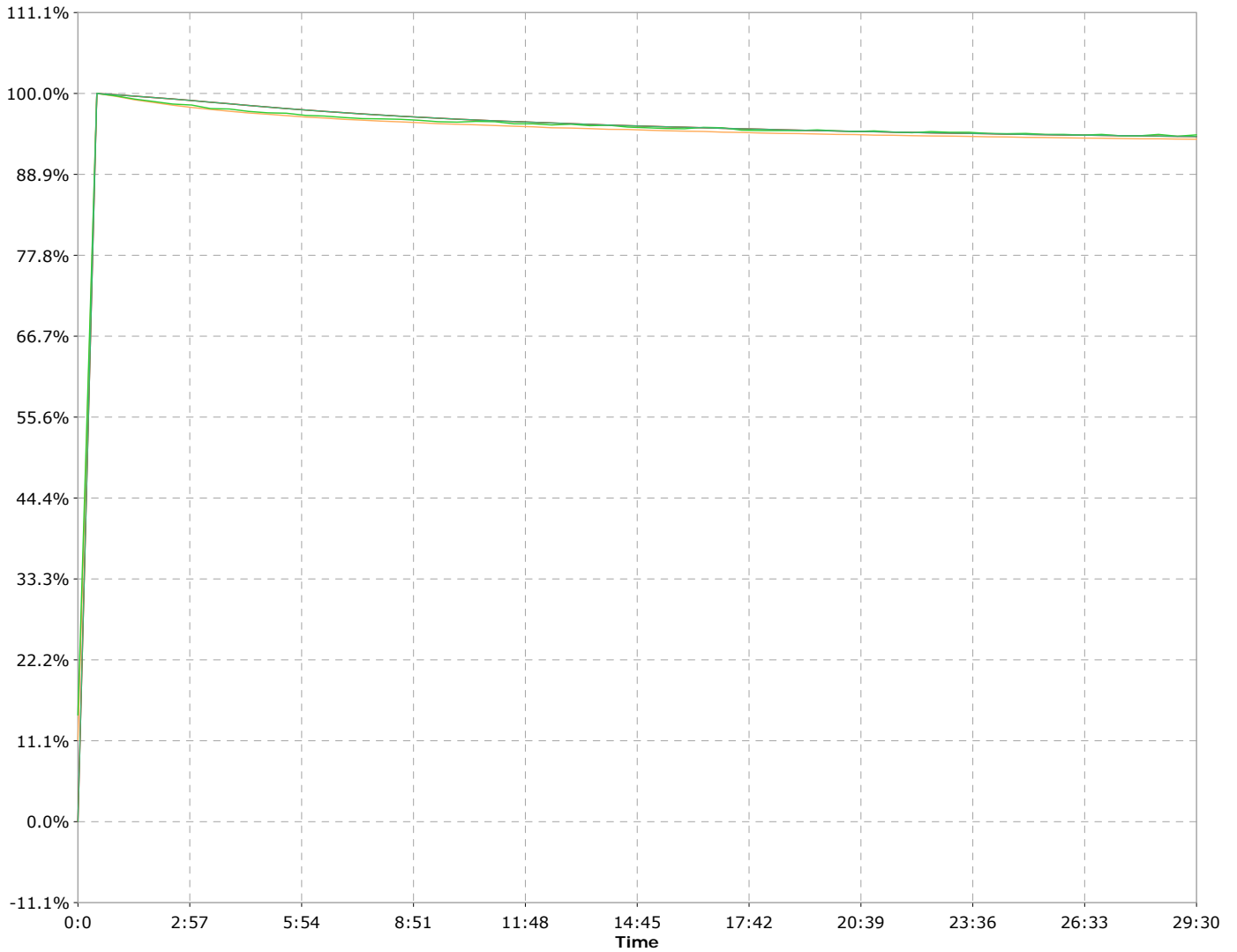


Light Distribution Curve (cd/klm)





Warmup Log



Stable time: 29:30

Uptime: 0:30

Parameters	Maximum	Minimum	Change
Luminous intensity ,cd	23610.96	0.00	23610.96
Power ,W	449.80	50.31	399.49
Current ,A	2.0560	0.3010	1.7550
Illumination ,lx	356.577	0.000	356.577



UGR

Reflectance										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	30.3	31.9	30.6	32.2	32.5	30.3	32.0	30.7	32.3	32.6
3H	31.8	33.3	32.2	33.6	33.9	31.9	33.3	32.2	33.7	34.0
4H	32.2	33.5	32.6	33.9	34.3	32.2	33.6	32.6	34.0	34.4
6H	32.3	33.6	32.7	33.9	34.3	32.4	33.7	32.8	34.0	34.4
8H	32.3	33.5	32.7	33.9	34.3	32.4	33.6	32.8	34.0	34.4
12H	32.3	33.4	32.7	33.8	34.2	32.4	33.5	32.8	33.9	34.3
X=4H Y=2H	30.9	32.3	31.3	32.6	33.0	30.9	32.3	31.3	32.7	33.1
3H	32.6	33.7	33.0	34.1	34.5	32.7	33.8	33.1	34.2	34.6
4H	33.0	34.1	33.5	34.5	34.9	33.1	34.2	33.6	34.6	35.0
6H	33.2	34.1	33.7	34.6	35.0	33.3	34.2	33.8	34.7	35.1
8H	33.2	34.1	33.7	34.5	35.0	33.3	34.2	33.8	34.6	35.1
12H	33.2	33.9	33.7	34.4	34.9	33.3	34.1	33.8	34.5	35.0
X=8H Y=4H	33.2	34.0	33.7	34.5	34.9	33.3	34.2	33.8	34.6	35.1
6H	33.4	34.1	33.9	34.6	35.1	33.5	34.2	34.0	34.7	35.2
8H	33.4	34.0	33.9	34.5	35.0	33.5	34.2	34.1	34.7	35.2
12H	33.4	33.9	33.9	34.4	35.0	33.5	34.1	34.0	34.6	35.1
X=12H Y=4H	33.2	33.9	33.7	34.4	34.9	33.3	34.1	33.8	34.5	35.0
6H	33.4	34.0	33.9	34.5	35.0	33.5	34.2	34.1	34.6	35.2
8H	33.4	34.0	33.9	34.4	35.0	33.5	34.1	34.1	34.6	35.1

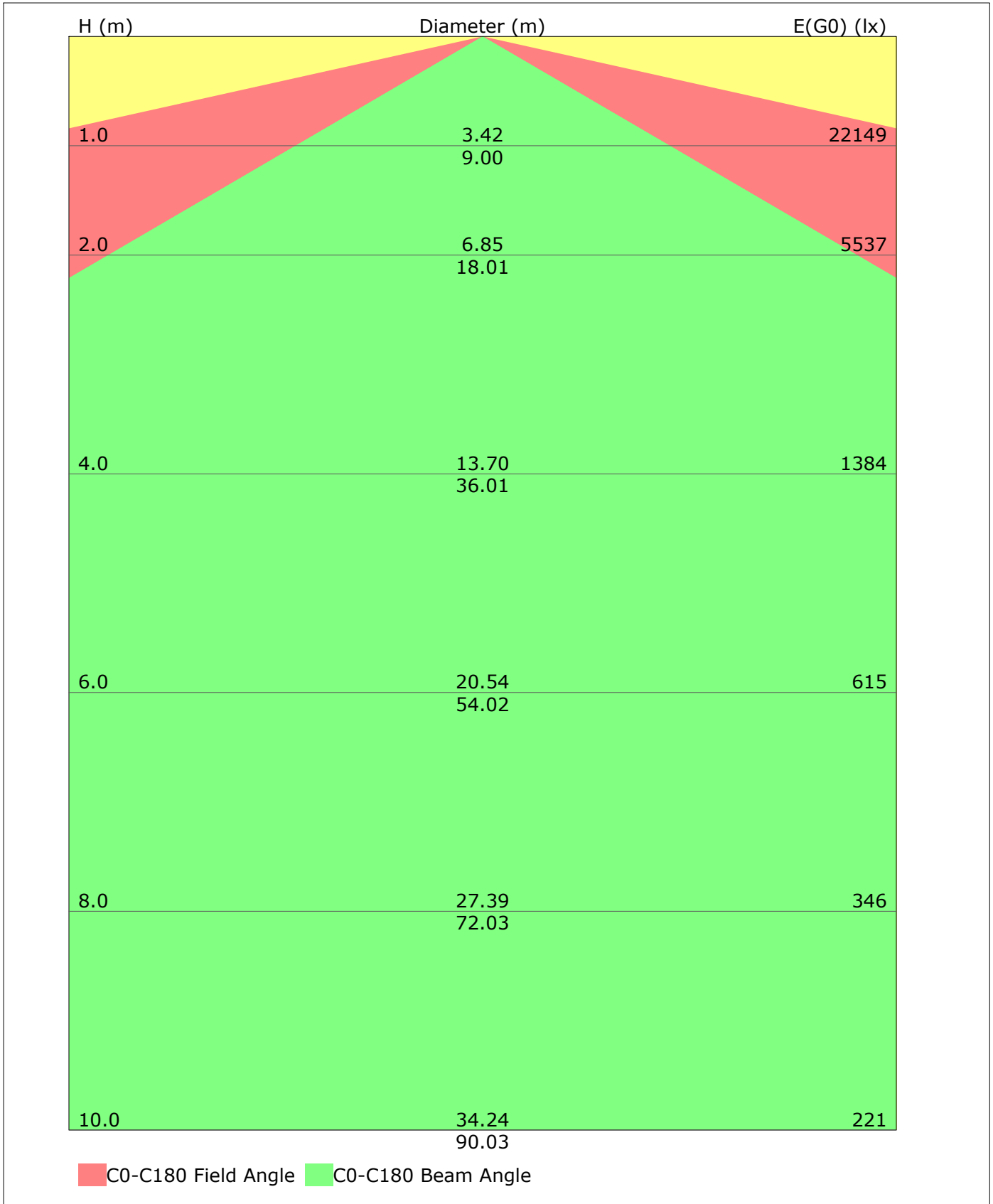
Calculate in accordance with CIE 190:2010. The table is corrected with 67539lm ($8\log(F/F_0) = 14.6$).

Reflectance										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	30.7	32.1	31.0	32.3	32.5	30.6	32.0	30.9	32.3	32.5
3H	32.0	33.2	32.3	33.5	33.8	31.9	33.2	32.3	33.5	33.7
4H	32.3	33.5	32.7	33.8	34.1	32.3	33.5	32.6	33.7	34.0
6H	32.4	33.5	32.8	33.8	34.2	32.4	33.5	32.7	33.8	34.1
8H	32.4	33.5	32.8	33.8	34.1	32.4	33.4	32.7	33.7	34.1
12H	32.4	33.4	32.8	33.7	34.1	32.3	33.3	32.7	33.7	34.0
X=4H Y=2H	31.3	32.5	31.7	32.8	33.1	31.3	32.5	31.7	32.8	33.1
3H	32.8	33.8	33.2	34.1	34.5	32.8	33.8	33.1	34.1	34.4
4H	33.2	34.1	33.6	34.5	34.8	33.2	34.1	33.6	34.4	34.8
6H	33.4	34.2	33.8	34.6	35.0	33.3	34.1	33.8	34.5	34.9
8H	33.4	34.1	33.8	34.5	34.9	33.3	34.1	33.8	34.5	34.9
12H	33.3	34.0	33.8	34.4	34.9	33.3	34.0	33.8	34.4	34.8
X=8H Y=4H	33.4	34.1	33.8	34.5	34.9	33.3	34.1	33.8	34.5	34.9
6H	33.6	34.2	34.1	34.6	35.1	33.6	34.1	34.0	34.6	35.0
8H	33.6	34.1	34.1	34.6	35.0	33.6	34.1	34.0	34.5	35.0
12H	33.6	34.0	34.1	34.5	35.0	33.5	34.0	34.0	34.5	35.0
X=12H Y=4H	33.4	34.0	33.8	34.4	34.9	33.3	34.0	33.8	34.4	34.8
6H	33.6	34.1	34.1	34.5	35.0	33.5	34.1	34.0	34.5	35.0
8H	33.6	34.0	34.1	34.5	35.0	33.6	34.0	34.1	34.5	35.0
Variations with the observer position at spacings										
S=1.0H						+0.1/-0.2				
S=1.5H						+0.3/-0.5				
S=2.0H						+0.6/-1.0				

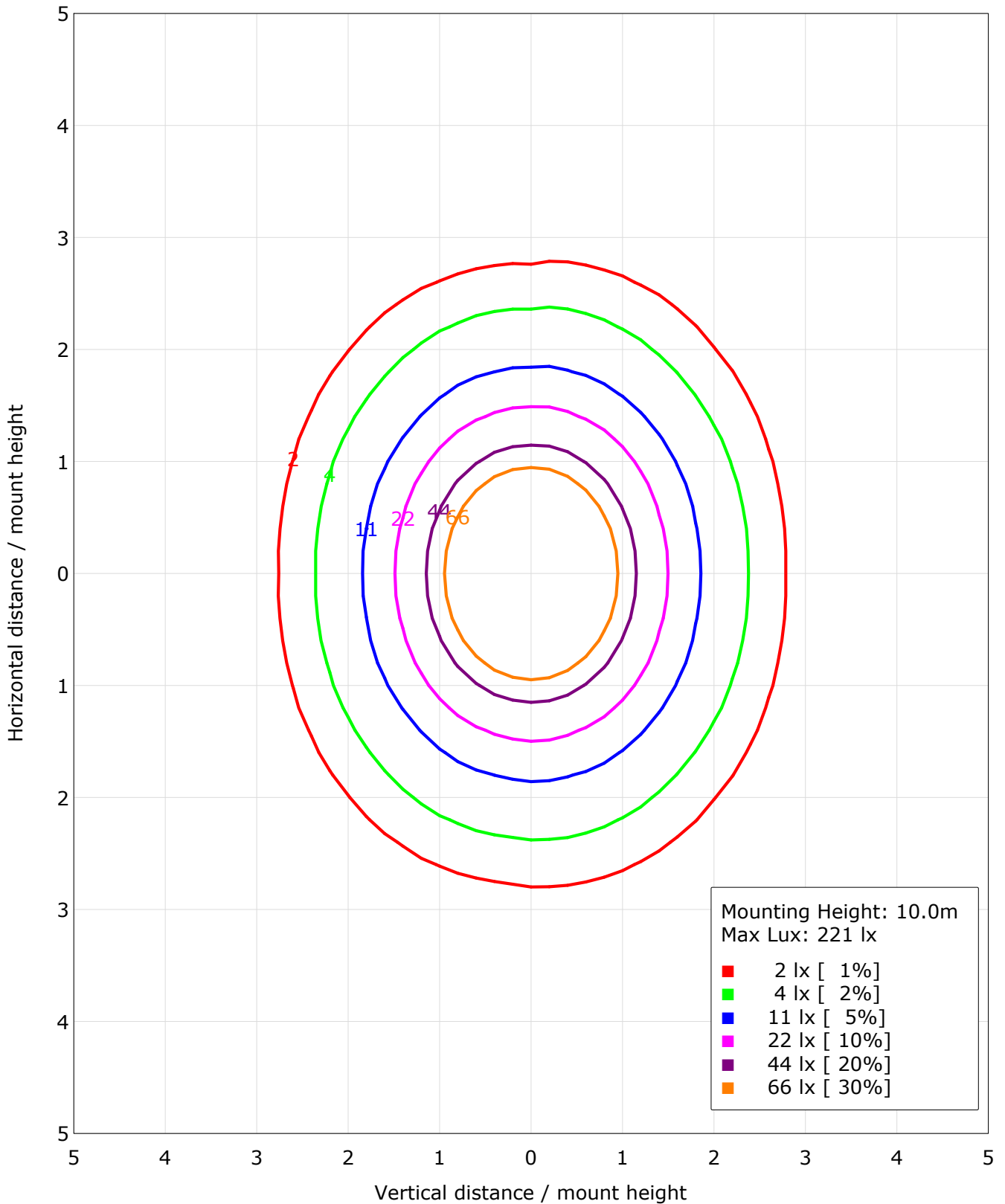
Calculate in accordance with CIE Pub.117. The table is corrected with 67539lm ($8\log(F/F_0) = 14.6$).



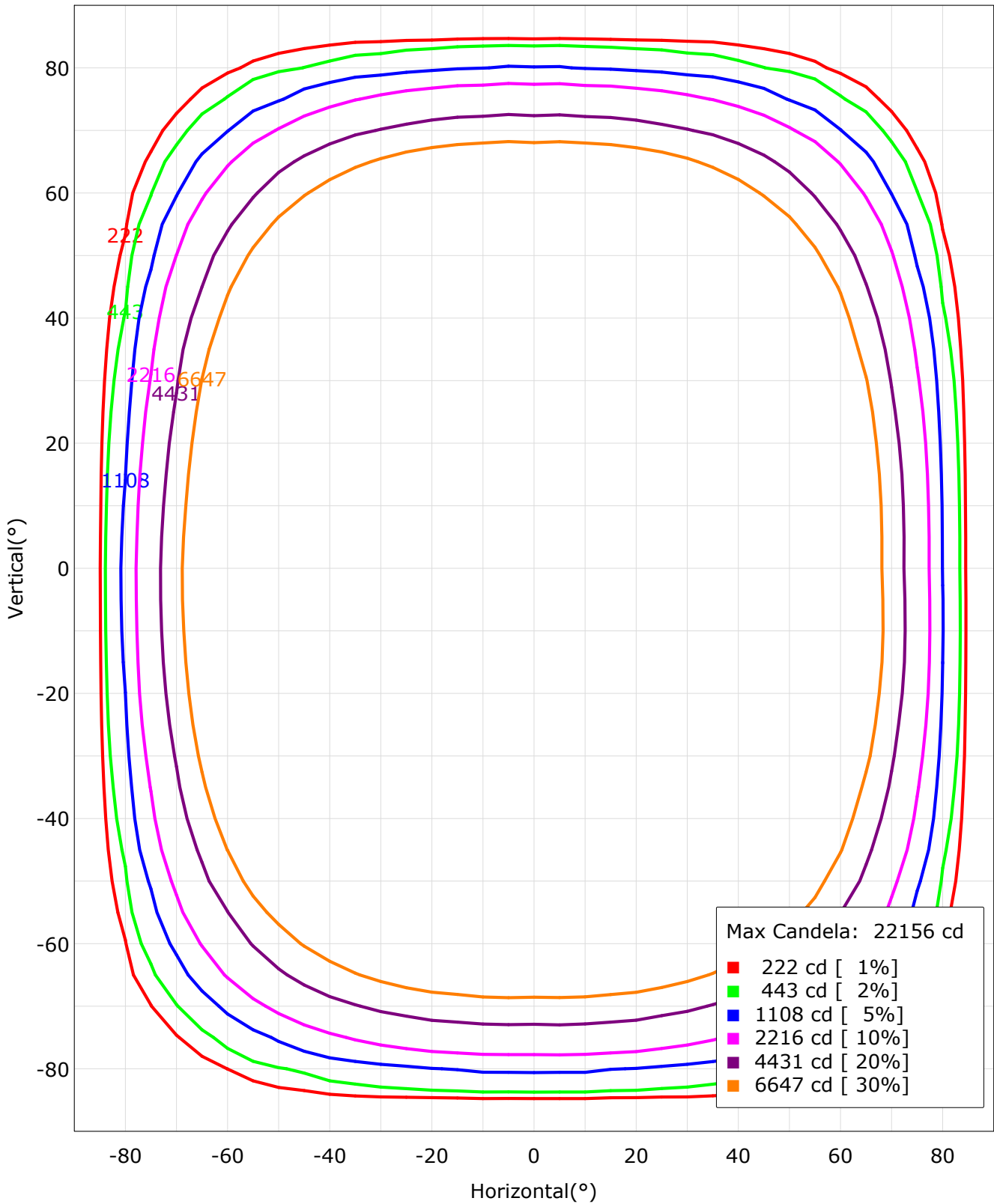
Lux-Distance



ISOlux

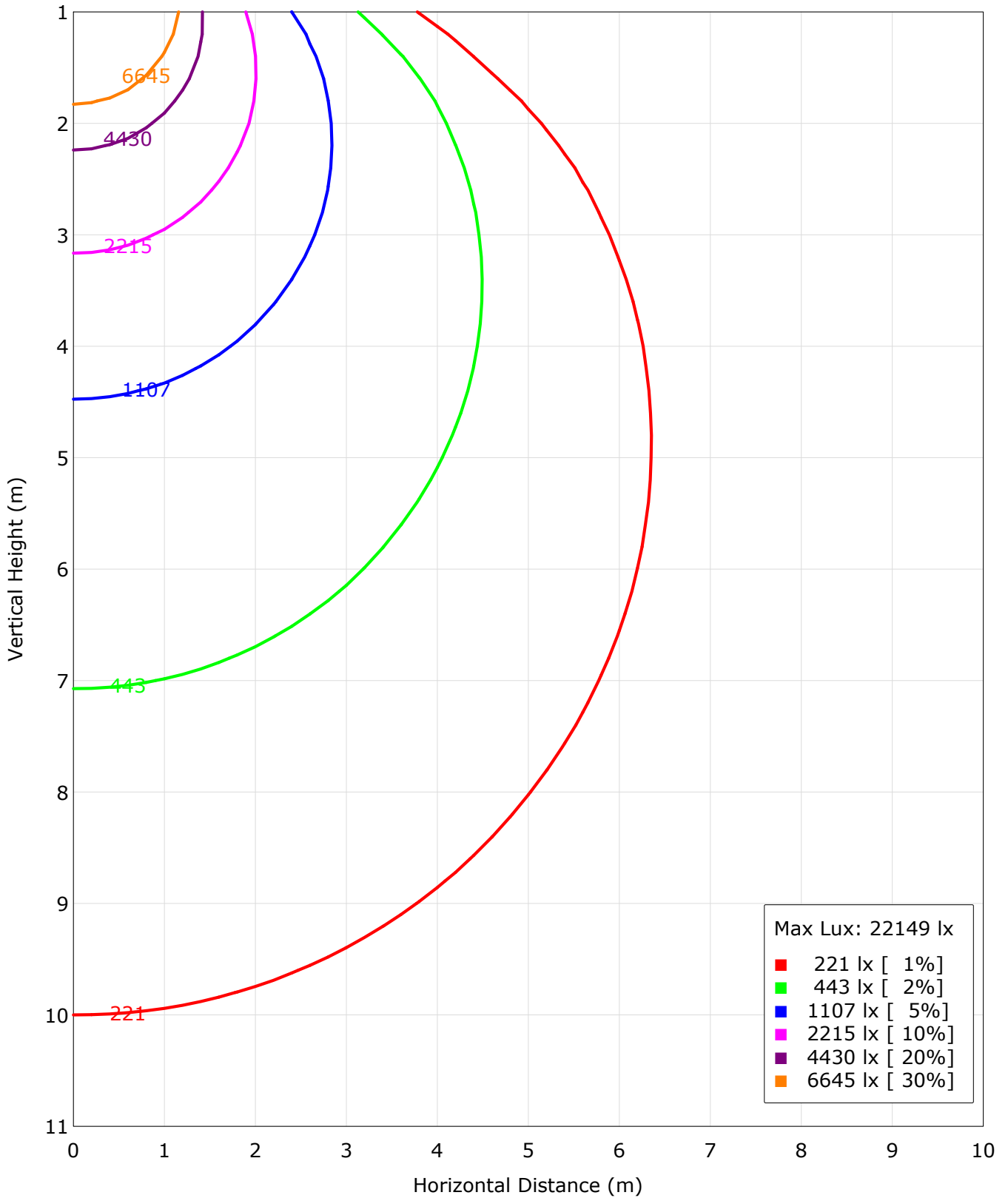


IsoCandela



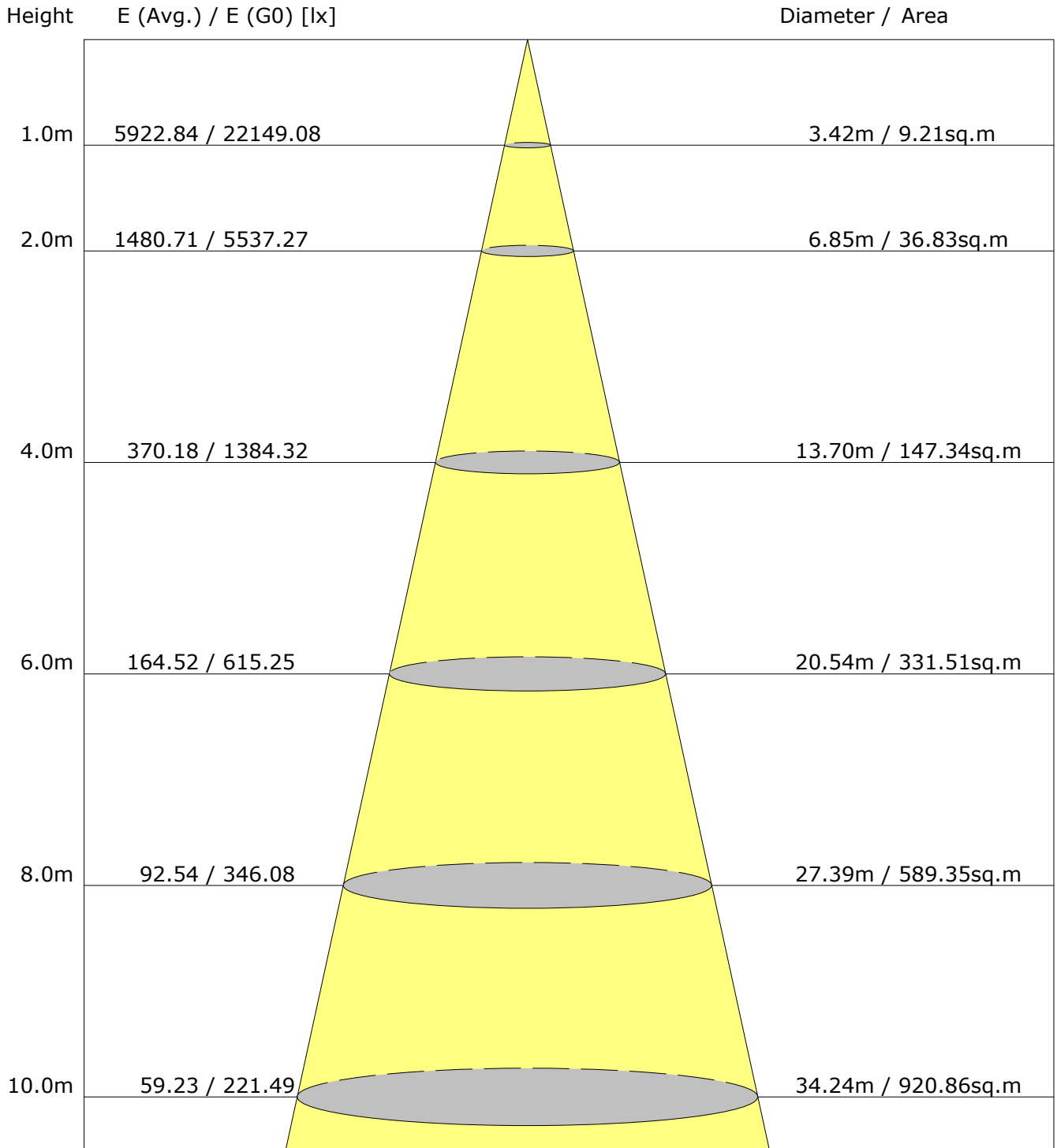


Vertical IsoLux Plot





Average Illuminance Effective Figure



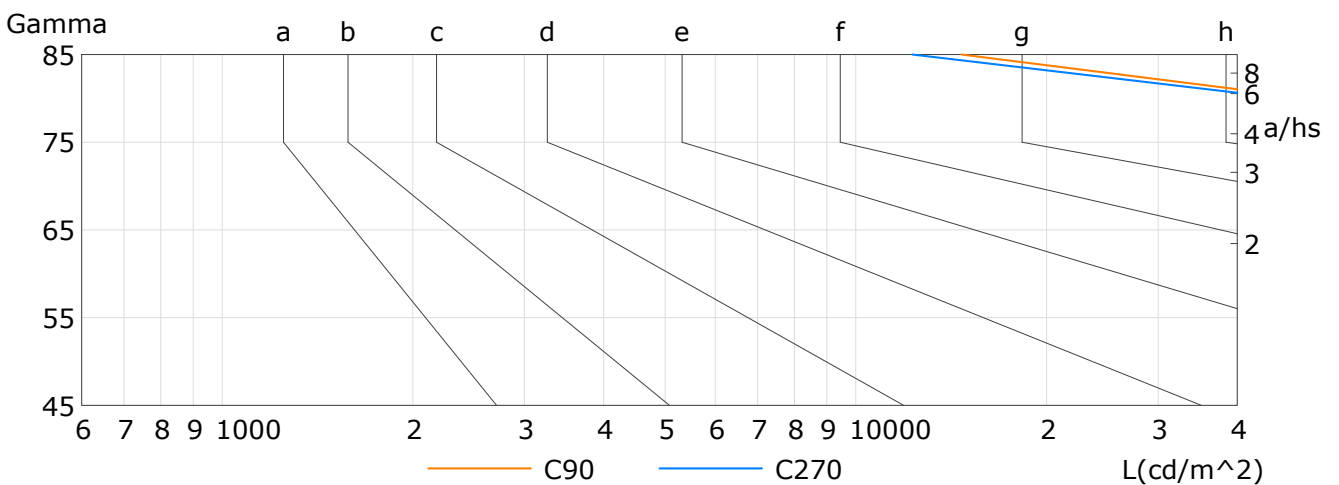
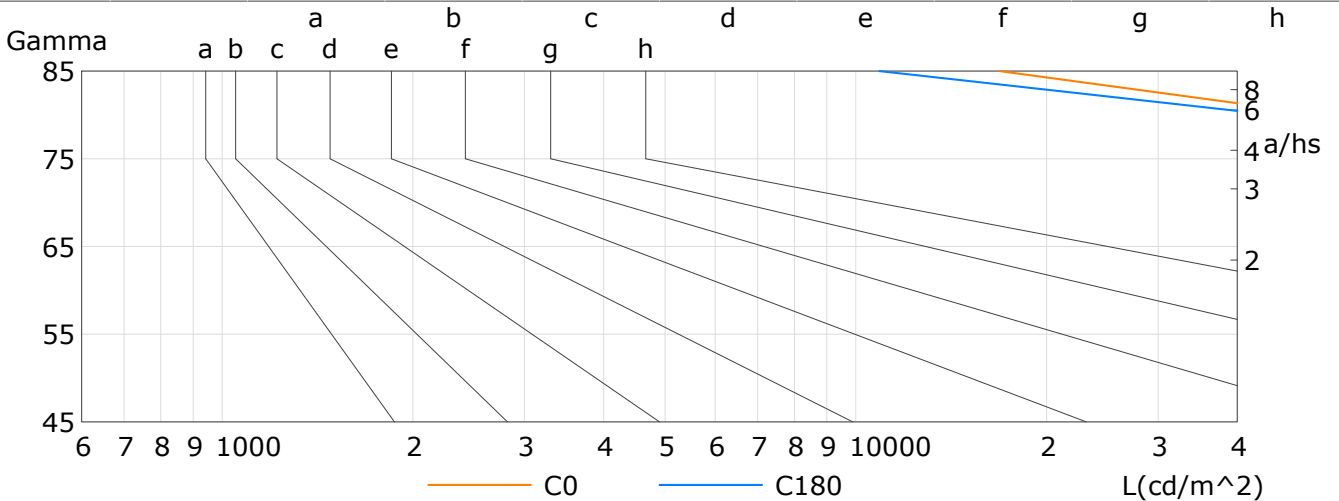
Beam Angle: 119.4° Flux Out: 54541.39lm



Luminance Limit Curve

(cd/m ²)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	173264	171930	168505	162110	150584	129016	97730	54858	16852
C90	173426	171825	168197	161811	149784	124850	96197	52245	14690
C180	171410	169416	165176	157788	145036	119200	90758	45856	10894
C270	171311	169360	164895	157593	144855	118146	90075	47743	12282

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300





TM5 UF Table

Utilisation Factors UF (F)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.60	0.69	0.77	0.82	0.89	0.94	0.98	1.02	1.05
	0.30		0.52	0.61	0.70	0.75	0.84	0.89	0.93	0.98	1.02
	0.20		0.47	0.56	0.64	0.70	0.79	0.85	0.89	0.95	0.99
0.50	0.50	0.20	0.58	0.67	0.74	0.79	0.86	0.91	0.94	0.98	1.01
	0.30		0.52	0.60	0.68	0.74	0.81	0.86	0.90	0.95	0.98
	0.20		0.47	0.55	0.63	0.69	0.77	0.83	0.87	0.92	0.96
0.30	0.50	0.20	0.57	0.65	0.72	0.77	0.83	0.88	0.91	0.94	0.97
	0.30		0.51	0.59	0.67	0.72	0.79	0.84	0.87	0.92	0.95
	0.20		0.46	0.54	0.62	0.68	0.76	0.81	0.85	0.89	0.93
0.00	0.00	0.00	0.44	0.52	0.60	0.65	0.72	0.77	0.81	0.85	0.88
Utilisation Factors UF (W)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.95	0.80	0.67	0.58	0.46	0.38	0.32	0.24	0.20
	0.30		0.79	0.68	0.58	0.51	0.41	0.34	0.30	0.23	0.19
	0.20		0.68	0.60	0.52	0.46	0.38	0.32	0.27	0.22	0.18
0.50	0.50	0.20	0.92	0.77	0.64	0.55	0.43	0.39	0.30	0.23	0.19
	0.30		0.77	0.67	0.57	0.50	0.40	0.33	0.28	0.22	0.18
	0.20		0.67	0.59	0.51	0.45	0.37	0.31	0.27	0.21	0.17
0.30	0.50	0.20	0.89	0.74	0.62	0.53	0.41	0.34	0.29	0.22	0.18
	0.30		0.76	0.65	0.55	0.48	0.38	0.32	0.27	0.21	0.17
	0.20		0.66	0.58	0.50	0.44	0.36	0.30	0.26	0.20	0.16
0.00	0.00	0.00	0.56	0.48	0.40	0.35	0.28	0.23	0.20	0.15	0.12
Utilisation Factors UF (C)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.19	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA

Rating: 422W Photometrically tested without ceiling board.
 Multiply UF values by service correction factors
 Calculate in accordance with CIBSE Technical Memorandum No.5/1980



Report No. : 3

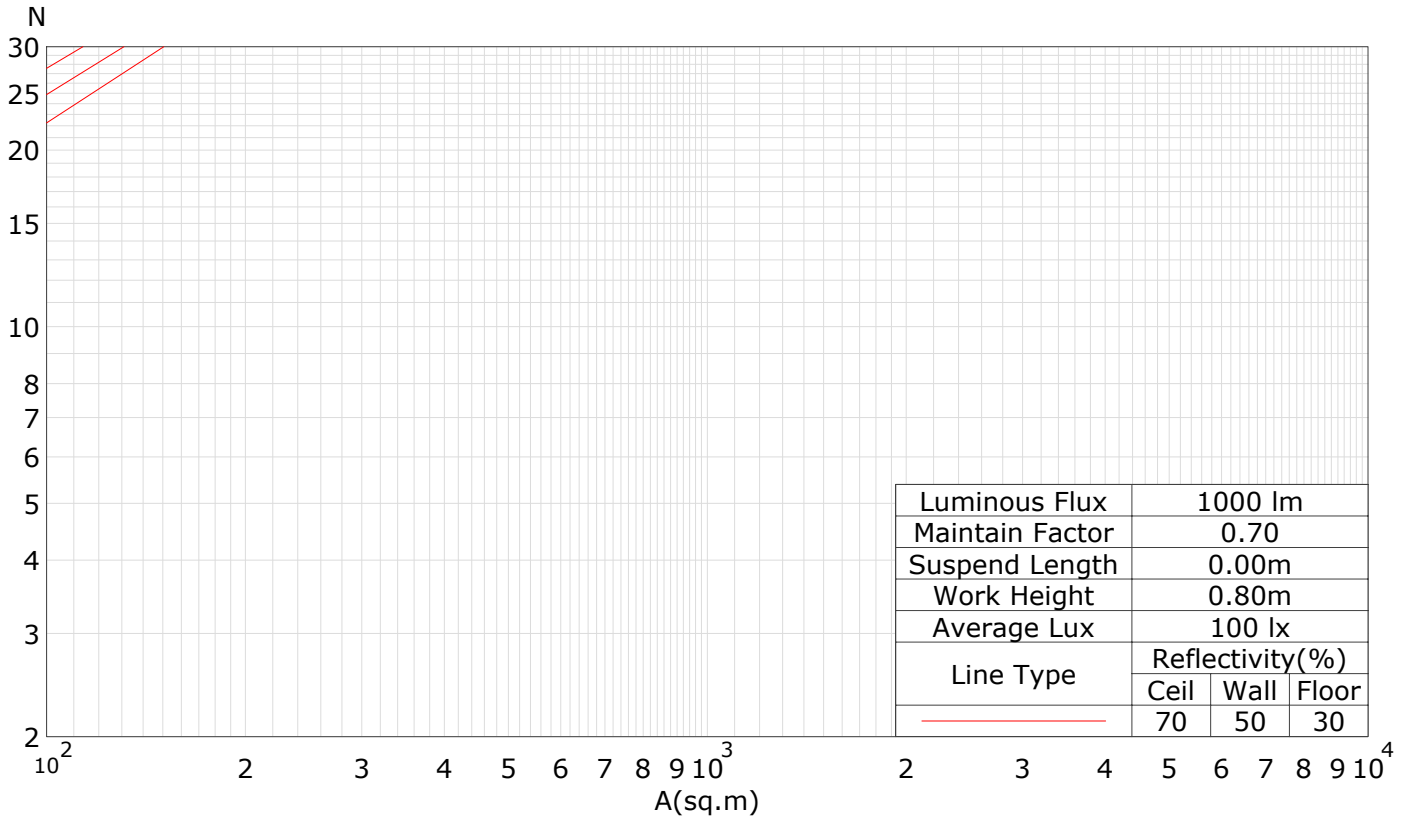
Test Time : 2025-12-04 16:52:02

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Indoor CU, Curves of Luminaires vs Lighting Area

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Spacing Criteria: 1.35 (0-180), 1.35 (90-270), 1.48 (Diagonal)





Zonal Flux

Gamma °	I _{mean} cd/klm	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
0.0-1.0	327.9	21.2	21.2	0.03	0.03
1.0-2.0	327.9	63.6	84.8	0.09	0.13
2.0-3.0	327.8	105.9	190.7	0.16	0.28
3.0-4.0	327.7	148.2	338.9	0.22	0.50
4.0-5.0	327.6	190.4	529.2	0.28	0.78
5.0-6.0	327.3	232.4	761.6	0.34	1.13
6.0-7.0	327.0	274.2	1035.8	0.41	1.53
7.0-8.0	326.7	315.8	1351.6	0.47	2.00
8.0-9.0	326.2	357.1	1708.7	0.53	2.53
9.0-10.0	325.7	398.1	2106.9	0.59	3.12
10.0-11.0	325.1	438.8	2545.7	0.65	3.77
11.0-12.0	324.4	479.1	3024.7	0.71	4.48
12.0-13.0	323.8	519.0	3543.7	0.77	5.25
13.0-14.0	323.0	558.4	4102.1	0.83	6.07
14.0-15.0	322.1	597.3	4699.4	0.88	6.96
15.0-16.0	321.2	635.7	5335.0	0.94	7.90
16.0-17.0	320.2	673.5	6008.5	1.00	8.90
17.0-18.0	319.1	710.7	6719.2	1.05	9.95
18.0-19.0	318.0	747.3	7466.5	1.11	11.06
19.0-20.0	316.8	783.1	8249.6	1.16	12.21
20.0-21.0	315.5	818.3	9067.9	1.21	13.43
21.0-22.0	314.1	852.6	9920.6	1.26	14.69
22.0-23.0	312.7	886.2	10806.7	1.31	16.00
23.0-24.0	311.1	918.8	11725.5	1.36	17.36
24.0-25.0	309.4	950.4	12675.9	1.41	18.77
25.0-26.0	307.7	981.2	13657.1	1.45	20.22
26.0-27.0	305.9	1010.8	14667.9	1.50	21.72
27.0-28.0	303.9	1039.3	15707.2	1.54	23.26
28.0-29.0	301.9	1066.9	16774.1	1.58	24.84
29.0-30.0	299.7	1093.1	17867.2	1.62	26.45
30.0-31.0	297.4	1118.1	18985.3	1.66	28.11
31.0-32.0	295.0	1141.7	20127.0	1.69	29.80
32.0-33.0	292.5	1164.1	21291.1	1.72	31.52
33.0-34.0	290.0	1185.5	22476.5	1.76	33.28
34.0-35.0	287.2	1204.9	23681.5	1.78	35.06
35.0-36.0	284.3	1222.9	24904.4	1.81	36.87
36.0-37.0	281.4	1239.6	26144.0	1.84	38.71
37.0-38.0	278.2	1254.5	27398.5	1.86	40.57
38.0-39.0	275.0	1268.0	28666.5	1.88	42.44
39.0-40.0	271.6	1279.3	29945.8	1.89	44.34



Zonal Flux

Gamma °	I _{mean} cd/klm	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	268.0	1288.9	31234.7	1.91	46.25
41.0-42.0	264.4	1297.4	32532.2	1.92	48.17
42.0-43.0	260.5	1303.2	33835.4	1.93	50.10
43.0-44.0	256.4	1307.1	35142.5	1.94	52.03
44.0-45.0	252.2	1309.3	36451.8	1.94	53.97
45.0-46.0	247.8	1309.0	37760.8	1.94	55.91
46.0-47.0	243.3	1307.3	39068.1	1.94	57.85
47.0-48.0	238.5	1302.5	40370.6	1.93	59.77
48.0-49.0	233.6	1295.6	41666.3	1.92	61.69
49.0-50.0	228.7	1287.8	42954.1	1.91	63.60
50.0-51.0	223.3	1276.4	44230.5	1.89	65.49
51.0-52.0	217.9	1262.7	45493.2	1.87	67.36
52.0-53.0	212.3	1247.5	46740.7	1.85	69.21
53.0-54.0	206.5	1229.2	47970.0	1.82	71.03
54.0-55.0	200.6	1209.7	49179.7	1.79	72.82
55.0-56.0	194.5	1187.1	50366.8	1.76	74.57
56.0-57.0	188.2	1162.1	51528.8	1.72	76.29
57.0-58.0	182.0	1136.7	52665.5	1.68	77.98
58.0-59.0	175.4	1107.4	53773.0	1.64	79.62
59.0-60.0	168.6	1075.7	54848.7	1.59	81.21
60.0-61.0	161.7	1042.3	55891.1	1.54	82.75
61.0-62.0	154.7	1006.7	56897.8	1.49	84.24
62.0-63.0	147.8	970.7	57868.5	1.44	85.68
63.0-64.0	140.5	931.2	58799.7	1.38	87.06
64.0-65.0	133.1	890.1	59689.8	1.32	88.38
65.0-66.0	126.0	849.0	60538.7	1.26	89.64
66.0-67.0	118.3	803.6	61342.4	1.19	90.83
67.0-68.0	110.6	756.6	62099.0	1.12	91.95
68.0-69.0	102.7	707.5	62806.5	1.05	92.99
69.0-70.0	94.3	654.5	63461.0	0.97	93.96
70.0-71.0	86.1	601.2	64062.2	0.89	94.85
71.0-72.0	77.9	547.0	64609.2	0.81	95.66
72.0-73.0	70.0	494.3	65103.6	0.73	96.39
73.0-74.0	62.6	444.6	65548.2	0.66	97.05
74.0-75.0	55.2	393.8	65942.0	0.58	97.64
75.0-76.0	47.9	343.5	66285.4	0.51	98.14
76.0-77.0	40.8	293.5	66578.9	0.43	98.58
77.0-78.0	34.0	246.1	66825.0	0.36	98.94
78.0-79.0	27.9	202.8	67027.7	0.30	99.24
79.0-80.0	21.7	157.7	67185.4	0.23	99.48



Zonal Flux

Gamma °	I _{mean} cd/klm	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
80.0-81.0	15.9	115.9	67301.4	0.17	99.65
81.0-82.0	11.3	82.8	67384.2	0.12	99.77
82.0-83.0	7.8	57.5	67441.7	0.09	99.86
83.0-84.0	5.4	39.5	67481.2	0.06	99.91
84.0-85.0	3.5	26.1	67507.3	0.04	99.95
85.0-86.0	2.2	16.0	67523.2	0.02	99.98
86.0-87.0	1.2	8.6	67531.9	0.01	99.99
87.0-88.0	0.5	3.8	67535.6	0.01	100.00
88.0-89.0	0.2	1.8	67537.4	0.00	100.00
89.0-90.0	0.2	1.6	67539.0	0.00	100.00



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Light Distribution Data

Unit: cd/klm

G\C	C0.0	C5.0	C10.0	C15.0	C20.0	C25.0	C30.0	C35.0
G0.0	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
G1.0	328.0	327.9	327.9	327.9	328.0	328.0	327.9	327.9
G2.0	327.9	327.8	328.0	327.9	327.9	328.0	327.9	327.9
G3.0	327.9	327.8	327.9	327.9	327.8	327.9	327.7	327.9
G4.0	327.7	327.6	327.7	327.8	327.7	327.8	327.7	327.8
G5.0	327.6	327.4	327.5	327.6	327.6	327.6	327.5	327.6
G6.0	327.2	327.2	327.3	327.3	327.4	327.3	327.2	327.2
G7.0	326.9	326.9	327.0	327.1	326.9	327.0	326.9	326.9
G8.0	326.5	326.5	326.6	326.5	326.6	326.6	326.5	326.5
G9.0	326.1	326.0	326.1	326.2	326.1	326.1	326.0	326.1
G10.0	325.5	325.5	325.6	325.6	325.5	325.6	325.5	325.5
G11.0	324.9	324.9	324.9	325.0	324.8	325.0	324.9	324.7
G12.0	324.2	324.3	324.3	324.3	324.2	324.3	324.3	324.1
G13.0	323.6	323.5	323.6	323.6	323.5	323.6	323.5	323.4
G14.0	322.6	322.6	322.7	322.7	322.6	322.7	322.7	322.6
G15.0	321.8	321.8	321.8	321.8	321.9	321.9	321.8	321.7
G16.0	320.9	320.8	320.9	320.9	320.8	320.8	320.8	320.7
G17.0	319.9	319.7	319.9	319.9	319.9	319.8	319.8	319.7
G18.0	318.8	318.7	318.9	318.8	318.9	318.8	318.8	318.7
G19.0	317.5	317.4	317.6	317.6	317.7	317.5	317.6	317.4
G20.0	316.3	316.2	316.4	316.3	316.4	316.4	316.4	316.3
G21.0	314.9	314.8	315.1	315.0	315.1	314.9	315.1	314.9
G22.0	313.4	313.5	313.6	313.7	313.7	313.7	313.8	313.6
G23.0	311.9	311.9	312.2	312.2	312.2	312.3	312.4	312.2
G24.0	310.3	310.2	310.5	310.5	310.5	310.6	310.7	310.6
G25.0	308.5	308.5	308.7	308.8	308.9	308.9	309.1	309.1
G26.0	306.8	306.7	306.9	307.1	307.1	307.3	307.4	307.5
G27.0	304.7	304.6	304.8	305.1	305.1	305.3	305.6	305.5
G28.0	302.5	302.6	302.9	303.0	303.3	303.5	303.7	303.6
G29.0	300.5	300.3	300.8	300.9	301.3	301.2	301.7	301.5
G30.0	297.9	298.0	298.4	298.7	298.9	299.1	299.5	299.5
G31.0	295.7	295.6	296.1	296.3	296.7	296.9	297.3	297.4
G32.0	293.0	293.0	293.5	293.8	294.1	294.3	294.8	295.0
G33.0	290.3	290.4	291.0	291.3	291.6	292.0	292.5	292.6
G34.0	287.8	287.7	288.3	288.5	289.0	289.5	289.9	290.2
G35.0	284.7	284.8	285.4	285.6	286.1	286.6	287.1	287.4
G36.0	281.8	281.9	282.4	282.8	283.4	283.7	284.3	284.7
G37.0	278.8	278.7	279.6	279.5	280.3	280.6	281.5	281.6
G38.0	275.2	275.4	276.0	276.4	277.0	277.6	278.4	278.7
G39.0	271.9	272.1	272.7	273.2	273.8	274.4	275.3	275.6

Test Type : Type C Test Distance : 8.137 m C Plane (°): 0.0-360.0:5.0 (°) : 0.0-90.0:1.0
 Test Device : Lisun LSG-1700B Temperature : 21.3°C Humidity : 47.0%
 Test Lab : Light Lab TU-Gabrovo
 Test By : Eng. Ivaylo Stoyanov Review By :



Light Distribution Data

Unit: cd/klm

G\C	C0.0	C5.0	C10.0	C15.0	C20.0	C25.0	C30.0	C35.0
G40.0	268.2	268.4	269.0	269.5	270.1	270.8	271.6	272.2
G41.0	264.7	264.7	265.5	265.8	266.6	267.4	268.3	268.8
G42.0	260.9	261.0	261.7	262.2	263.1	263.7	264.8	265.4
G43.0	256.6	256.8	257.5	258.1	259.1	259.7	260.7	261.2
G44.0	252.7	252.7	253.3	254.0	255.0	255.9	256.9	257.5
G45.0	248.3	248.1	249.2	249.4	251.0	251.3	253.1	253.1
G46.0	243.7	243.8	244.6	245.2	246.2	247.1	248.3	249.0
G47.0	239.2	239.4	240.0	240.9	241.8	242.8	244.0	244.5
G48.0	233.9	234.1	234.9	235.6	236.9	237.9	239.2	239.6
G49.0	229.0	229.4	230.2	230.8	232.2	233.1	234.5	235.0
G50.0	224.0	224.5	225.3	225.7	227.0	228.2	229.4	230.0
G51.0	218.4	218.6	219.7	220.3	221.6	222.6	223.9	224.5
G52.0	212.9	213.5	214.4	215.0	216.6	217.2	218.7	219.3
G53.0	207.5	207.6	209.0	209.2	211.1	211.1	213.3	213.4
G54.0	201.5	201.9	203.1	203.3	205.0	205.5	207.0	207.5
G55.0	195.9	196.2	197.5	197.8	199.4	199.8	201.2	201.8
G56.0	189.4	189.8	190.7	191.5	193.2	193.4	194.8	195.4
G57.0	183.5	183.9	185.0	185.5	187.3	187.2	188.6	189.3
G58.0	177.6	177.9	179.0	179.4	181.0	181.2	182.4	182.7
G59.0	170.7	170.9	172.0	172.6	174.2	174.5	175.6	175.8
G60.0	164.3	164.6	165.7	166.2	167.8	167.9	168.9	169.3
G61.0	157.1	157.4	158.7	158.8	160.2	160.9	161.8	161.7
G62.0	150.2	150.9	151.9	152.3	153.6	154.3	155.2	155.0
G63.0	143.4	144.4	145.3	145.7	146.9	147.3	148.0	148.1
G64.0	135.9	137.0	137.7	137.9	139.0	139.8	140.4	140.1
G65.0	129.0	129.8	130.9	131.0	132.0	132.8	133.4	132.8
G66.0	122.3	122.2	124.0	123.4	124.8	125.1	126.1	124.9
G67.0	113.9	114.2	115.6	115.6	117.2	117.6	118.2	117.4
G68.0	105.6	106.3	107.6	107.5	109.8	110.4	111.0	109.7
G69.0	97.8	98.5	99.6	99.4	100.9	101.0	102.9	101.9
G70.0	89.4	90.2	91.9	92.0	93.3	93.2	94.4	94.5
G71.0	79.9	80.9	81.9	82.3	85.5	86.0	86.8	86.6
G72.0	72.3	73.1	73.7	73.6	75.4	75.8	78.4	78.3
G73.0	65.0	66.0	66.1	66.3	68.0	67.6	69.7	70.6
G74.0	58.5	58.7	59.5	59.2	60.8	59.8	61.6	61.4
G75.0	51.3	52.0	52.2	52.4	52.8	53.3	53.6	53.9
G76.0	44.6	45.3	45.5	46.1	46.3	46.4	47.2	47.1
G77.0	37.2	38.0	37.8	38.4	38.9	39.0	39.7	39.5
G78.0	31.4	32.1	32.0	32.0	32.6	32.4	33.5	33.0
G79.0	26.0	26.5	26.6	26.1	26.7	26.3	26.7	25.7



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Light Distribution Data

Unit: cd/klm

G\C	C0.0	C5.0	C10.0	C15.0	C20.0	C25.0	C30.0	C35.0
G80.0	19.3	19.3	19.8	19.4	20.4	20.1	19.9	19.5
G81.0	14.4	14.6	14.9	14.5	14.7	14.1	14.3	14.8
G82.0	10.3	10.0	10.9	10.1	10.4	9.4	10.1	10.1
G83.0	7.0	7.1	7.4	7.2	6.9	6.4	7.2	7.4
G84.0	4.7	4.7	5.0	4.7	4.5	4.6	5.0	5.3
G85.0	3.0	3.1	3.2	3.0	2.9	2.9	3.4	3.4
G86.0	1.5	1.8	2.1	1.9	1.8	1.9	2.1	2.2
G87.0	0.6	0.8	1.0	1.0	1.0	1.0	1.2	1.1
G88.0	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.4
G89.0	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
G90.0	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2



Light Distribution Data

Unit: cd/klm

G\C	C40.0	C45.0	C50.0	C55.0	C60.0	C65.0	C70.0	C75.0
G0.0	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
G1.0	327.9	327.9	327.9	328.0	328.0	327.9	328.0	328.0
G2.0	327.9	328.0	328.0	327.9	328.0	327.8	327.9	328.0
G3.0	327.8	327.8	327.9	327.8	327.8	327.8	327.9	327.9
G4.0	327.8	327.8	327.7	327.7	327.7	327.7	327.8	327.7
G5.0	327.6	327.6	327.5	327.6	327.7	327.6	327.6	327.5
G6.0	327.2	327.2	327.2	327.3	327.4	327.3	327.3	327.3
G7.0	326.9	326.9	327.0	327.0	327.1	326.9	327.0	326.9
G8.0	326.5	326.5	326.5	326.5	326.7	326.5	326.5	326.5
G9.0	326.1	326.0	326.1	326.0	326.2	326.0	326.1	326.1
G10.0	325.6	325.5	325.5	325.5	325.7	325.4	325.4	325.5
G11.0	324.9	324.9	324.9	324.9	325.0	324.8	324.8	324.8
G12.0	324.3	324.2	324.2	324.2	324.3	324.2	324.2	324.2
G13.0	323.6	323.5	323.5	323.4	323.6	323.4	323.5	323.4
G14.0	322.8	322.6	322.7	322.6	322.8	322.6	322.7	322.6
G15.0	321.9	321.8	321.9	321.7	321.9	321.7	321.8	321.7
G16.0	320.9	320.7	320.8	320.8	320.9	320.6	320.9	320.7
G17.0	319.9	319.8	319.8	319.7	320.0	319.7	319.8	319.7
G18.0	318.9	318.8	318.8	318.8	318.9	318.7	318.8	318.7
G19.0	317.7	317.5	317.6	317.4	317.7	317.4	317.6	317.5
G20.0	316.6	316.4	316.4	316.3	316.6	316.3	316.4	316.3
G21.0	315.2	315.1	315.2	315.0	315.3	314.9	315.0	314.8
G22.0	313.8	313.8	313.8	313.7	313.9	313.5	313.6	313.5
G23.0	312.5	312.4	312.5	312.3	312.4	312.2	312.2	312.0
G24.0	310.9	310.9	310.9	310.7	310.9	310.5	310.6	310.4
G25.0	309.4	309.3	309.2	309.2	309.2	308.9	309.0	308.7
G26.0	307.7	307.6	307.7	307.5	307.7	307.3	307.2	307.0
G27.0	305.8	305.8	305.9	305.7	305.8	305.3	305.3	305.0
G28.0	303.9	304.0	304.1	303.8	303.9	303.5	303.4	303.1
G29.0	302.1	301.9	302.2	301.7	302.0	301.3	301.5	300.8
G30.0	300.0	299.9	300.1	299.8	299.8	299.2	299.1	298.7
G31.0	297.8	297.9	298.0	297.6	297.6	297.0	296.9	296.5
G32.0	295.4	295.5	295.7	295.2	295.3	294.5	294.4	294.0
G33.0	293.2	293.2	293.2	292.8	292.8	292.1	292.0	291.4
G34.0	290.7	290.8	290.8	290.4	290.3	289.5	289.4	288.8
G35.0	288.0	287.9	288.0	287.7	287.6	286.7	286.4	285.7
G36.0	285.2	285.3	285.5	284.9	284.8	283.9	283.5	282.9
G37.0	282.5	282.2	282.6	281.8	281.9	280.7	280.8	279.6
G38.0	279.4	279.1	279.3	279.0	278.7	277.9	277.3	276.6
G39.0	276.3	276.0	276.3	276.0	275.7	274.8	274.1	273.2



Light Distribution Data

Unit: cd/klm

G\C	C40.0	C45.0	C50.0	C55.0	C60.0	C65.0	C70.0	C75.0
G40.0	272.8	272.6	272.9	272.3	272.1	271.2	270.5	269.6
G41.0	269.4	269.2	269.5	269.0	268.8	267.8	267.0	266.1
G42.0	266.0	265.7	265.9	265.3	265.2	264.2	263.3	262.3
G43.0	262.1	261.7	261.9	261.4	261.1	260.0	259.2	258.1
G44.0	258.1	257.9	258.1	257.5	257.4	256.1	255.2	254.1
G45.0	254.2	253.6	254.0	253.2	253.2	251.7	250.9	249.3
G46.0	249.6	249.5	249.6	248.9	248.7	247.3	246.3	245.0
G47.0	245.4	245.2	245.3	244.5	244.3	242.8	241.8	240.5
G48.0	240.5	240.2	240.4	239.6	239.2	237.8	236.8	235.2
G49.0	235.7	235.6	235.7	234.7	234.6	233.1	231.9	230.5
G50.0	230.9	230.7	230.9	230.0	229.7	228.0	227.1	225.6
G51.0	225.4	225.2	225.3	224.5	224.1	222.4	221.7	220.2
G52.0	220.2	219.8	219.9	219.3	218.6	217.2	216.5	214.7
G53.0	214.6	213.8	214.5	213.1	213.3	210.9	211.0	208.9
G54.0	208.5	208.2	208.5	207.4	207.2	205.3	205.0	203.4
G55.0	202.7	202.4	202.7	201.7	201.5	199.5	199.4	197.7
G56.0	196.2	195.7	195.9	195.3	194.8	193.0	193.0	191.4
G57.0	189.8	189.5	189.9	189.1	188.8	187.0	186.8	185.1
G58.0	183.5	183.1	183.6	182.7	182.6	180.6	180.7	179.0
G59.0	176.4	176.0	176.3	175.8	175.7	173.9	173.5	172.1
G60.0	169.8	169.0	169.7	168.9	168.9	167.3	167.0	165.5
G61.0	162.2	161.5	162.3	161.6	161.7	160.3	159.7	158.3
G62.0	155.5	154.2	155.2	154.8	155.0	153.7	153.1	151.5
G63.0	148.3	147.2	148.3	147.9	147.9	146.9	145.9	144.5
G64.0	140.7	139.6	140.7	139.8	140.2	139.1	138.4	137.1
G65.0	133.6	132.6	133.2	132.5	133.2	132.1	131.4	130.2
G66.0	126.1	124.6	126.0	124.4	125.8	124.5	124.2	122.6
G67.0	118.3	117.3	118.0	116.7	118.0	117.1	116.5	115.1
G68.0	111.0	110.0	110.8	109.4	110.7	109.9	109.5	107.2
G69.0	103.1	101.4	102.6	101.6	102.5	101.4	100.3	98.2
G70.0	95.5	94.0	95.5	94.2	94.8	92.6	92.7	89.5
G71.0	88.3	86.6	88.3	86.8	86.2	84.5	83.4	80.0
G72.0	79.7	78.7	80.1	78.1	77.7	74.7	74.3	72.8
G73.0	72.0	71.7	72.1	70.0	68.7	67.1	67.7	66.2
G74.0	64.7	62.2	64.5	60.4	61.2	59.7	60.1	58.8
G75.0	55.8	55.1	54.6	53.7	53.5	52.8	52.7	52.2
G76.0	47.4	46.4	47.3	47.0	46.8	46.4	46.0	45.1
G77.0	39.4	38.2	39.7	39.6	39.6	38.9	38.3	37.6
G78.0	32.5	32.1	33.0	33.2	33.2	32.1	32.4	31.3
G79.0	26.5	26.4	26.5	25.9	26.9	26.1	26.1	25.4



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Light Distribution Data

Unit: cd/klm

G\C	C40.0	C45.0	C50.0	C55.0	C60.0	C65.0	C70.0	C75.0
G80.0	20.1	20.1	20.0	19.6	20.3	19.8	19.4	18.6
G81.0	15.1	14.4	15.1	14.6	14.1	13.8	14.0	13.6
G82.0	10.8	10.3	10.7	9.9	10.1	9.3	10.0	9.2
G83.0	7.5	7.2	7.5	7.3	6.9	6.3	6.5	6.4
G84.0	5.3	5.4	5.3	5.2	4.9	4.4	4.1	4.2
G85.0	3.5	3.5	3.4	3.4	3.0	2.8	2.6	2.5
G86.0	2.2	2.0	2.1	2.0	1.9	1.6	1.5	1.4
G87.0	1.1	0.9	1.0	1.0	1.0	0.9	0.9	0.7
G88.0	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
G89.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
G90.0	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2



Light Distribution Data

Unit: cd/klm

G\C	C80.0	C85.0	C90.0	C95.0	C100.0	C105.0	C110.0	C115.0
G0.0	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
G1.0	328.0	327.9	328.0	328.0	328.0	328.0	328.0	327.9
G2.0	328.0	327.9	328.0	327.9	327.9	327.9	327.9	328.0
G3.0	327.9	327.8	327.9	327.9	327.8	327.9	327.9	327.8
G4.0	327.8	327.7	327.8	327.8	327.7	327.8	327.8	327.7
G5.0	327.6	327.6	327.6	327.6	327.5	327.6	327.6	327.5
G6.0	327.4	327.2	327.3	327.3	327.2	327.3	327.3	327.2
G7.0	327.0	326.9	327.0	326.9	326.9	326.9	327.0	326.9
G8.0	326.6	326.5	326.6	326.5	326.5	326.5	326.6	326.5
G9.0	326.0	326.0	326.2	326.0	325.9	326.0	326.1	326.1
G10.0	325.5	325.4	325.6	325.5	325.5	325.4	325.6	325.6
G11.0	324.9	324.8	324.9	324.8	324.8	324.9	325.0	324.9
G12.0	324.3	324.1	324.3	324.2	324.2	324.2	324.3	324.2
G13.0	323.6	323.4	323.6	323.5	323.5	323.6	323.6	323.5
G14.0	322.7	322.5	322.7	322.6	322.7	322.7	322.7	322.6
G15.0	321.9	321.7	321.8	321.8	321.8	321.9	321.9	321.8
G16.0	320.9	320.6	320.8	320.7	320.9	320.8	321.0	320.8
G17.0	319.9	319.7	319.9	319.8	320.0	319.8	320.0	319.7
G18.0	318.9	318.7	318.7	318.8	318.9	318.9	318.9	318.7
G19.0	317.7	317.6	317.6	317.5	317.6	317.6	317.7	317.5
G20.0	316.4	316.4	316.4	316.3	316.5	316.3	316.5	316.4
G21.0	315.2	314.8	315.1	314.8	315.1	315.0	315.2	315.0
G22.0	313.6	313.5	313.5	313.6	313.6	313.6	313.8	313.7
G23.0	312.3	312.0	312.1	312.1	312.2	312.1	312.4	312.3
G24.0	310.6	310.3	310.3	310.4	310.4	310.5	310.8	310.5
G25.0	308.9	308.7	308.7	308.7	308.7	308.9	309.1	309.0
G26.0	307.2	306.8	306.8	306.8	307.0	307.2	307.4	307.3
G27.0	305.1	304.8	304.8	304.7	305.0	305.1	305.5	305.4
G28.0	303.3	302.8	302.9	302.7	303.1	303.2	303.5	303.5
G29.0	301.3	300.5	300.7	300.3	300.9	301.0	301.6	301.4
G30.0	298.8	298.2	298.2	298.1	298.5	298.8	299.1	299.2
G31.0	296.6	296.0	295.9	295.8	296.1	296.6	296.9	297.1
G32.0	293.9	293.2	293.2	293.2	293.5	293.9	294.5	294.6
G33.0	291.3	290.8	290.7	290.6	291.1	291.4	292.0	292.2
G34.0	288.8	288.2	287.9	287.9	288.4	288.8	289.3	289.5
G35.0	285.9	285.0	285.0	284.9	285.4	285.7	286.5	286.6
G36.0	282.9	282.2	282.1	282.0	282.5	282.9	283.6	283.8
G37.0	279.9	278.9	279.1	278.8	279.6	279.6	280.6	280.7
G38.0	276.3	275.6	275.6	275.7	276.1	276.4	277.3	277.8
G39.0	273.0	272.3	272.3	272.3	272.8	273.2	274.1	274.5



Light Distribution Data

Unit: cd/klm

G\C	C80.0	C85.0	C90.0	C95.0	C100.0	C105.0	C110.0	C115.0
G40.0	269.3	268.6	268.4	268.5	269.0	269.6	270.3	271.0
G41.0	265.8	265.0	264.8	265.0	265.5	266.1	266.9	267.6
G42.0	261.9	261.2	261.1	261.1	261.8	262.2	263.4	263.9
G43.0	257.7	256.9	257.0	256.9	257.6	258.0	259.0	259.7
G44.0	253.8	253.0	252.7	252.9	253.4	254.0	255.1	255.8
G45.0	249.5	248.2	248.6	248.2	249.3	249.5	251.0	251.2
G46.0	244.8	243.8	243.9	243.8	244.4	245.0	246.3	247.0
G47.0	240.3	239.2	239.1	239.3	240.0	240.5	241.9	242.6
G48.0	235.0	234.1	234.0	234.0	234.9	235.4	236.6	237.7
G49.0	230.2	229.1	229.1	229.3	230.2	230.5	231.9	232.8
G50.0	225.3	224.2	223.9	224.4	225.1	225.6	227.1	227.9
G51.0	219.5	218.4	218.1	218.5	219.5	220.2	221.6	222.4
G52.0	214.3	213.2	212.8	213.3	214.4	214.7	216.4	217.0
G53.0	209.0	207.3	207.2	207.4	208.8	208.9	211.0	211.0
G54.0	202.9	201.8	201.1	201.9	202.7	203.4	205.0	205.3
G55.0	197.0	196.1	195.6	196.2	197.0	197.7	199.4	199.6
G56.0	190.6	189.8	189.3	189.9	190.8	191.3	193.1	193.1
G57.0	184.7	183.5	183.5	183.6	184.8	185.6	186.9	186.8
G58.0	178.6	177.4	177.2	177.6	178.4	179.1	180.8	180.8
G59.0	171.5	170.5	170.4	170.8	171.6	172.2	173.9	174.0
G60.0	165.1	163.9	164.0	164.0	165.2	165.5	167.1	167.3
G61.0	157.9	156.8	156.7	156.9	157.8	158.4	159.8	160.3
G62.0	151.1	150.3	149.7	150.1	151.3	151.7	153.1	153.8
G63.0	144.5	143.4	142.9	143.5	144.7	144.7	145.9	146.7
G64.0	137.3	136.1	135.1	136.1	137.1	137.3	138.4	139.1
G65.0	130.2	129.3	128.3	129.4	130.3	130.4	131.5	132.3
G66.0	123.3	121.4	121.6	121.8	123.4	122.7	124.3	124.5
G67.0	115.5	114.0	113.5	114.1	115.2	115.3	116.7	117.1
G68.0	106.8	105.7	105.0	105.9	106.9	107.1	109.6	109.9
G69.0	98.2	96.8	96.1	96.9	98.3	98.6	100.4	101.5
G70.0	89.2	87.8	86.6	87.6	88.9	89.4	92.4	92.8
G71.0	80.5	79.7	78.8	80.1	80.4	80.4	83.4	84.6
G72.0	73.1	72.6	72.0	72.7	73.2	72.5	74.3	73.8
G73.0	65.9	65.3	64.3	65.5	65.7	66.0	67.7	66.8
G74.0	58.9	58.1	58.0	58.5	59.2	58.6	60.4	59.6
G75.0	51.8	51.1	50.5	51.6	51.5	52.1	52.8	52.8
G76.0	44.4	43.7	43.5	44.4	44.5	45.2	46.0	46.4
G77.0	37.1	37.2	36.8	37.7	37.4	37.6	38.0	38.4
G78.0	31.4	31.2	30.7	31.4	31.5	31.5	32.4	32.1
G79.0	25.8	25.3	25.1	25.4	25.8	25.4	26.4	26.1



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Light Distribution Data

Unit: cd/klm

G\C	C80.0	C85.0	C90.0	C95.0	C100.0	C105.0	C110.0	C115.0
G80.0	18.9	18.4	18.4	18.4	19.0	18.3	19.4	19.9
G81.0	14.0	13.5	13.5	13.4	14.0	13.6	14.1	13.9
G82.0	9.8	9.2	9.5	9.1	9.7	9.1	10.0	9.1
G83.0	6.7	6.5	6.6	6.5	6.5	6.4	6.4	6.3
G84.0	4.4	4.2	4.3	4.2	4.3	4.1	4.1	4.3
G85.0	2.7	2.5	2.6	2.6	2.7	2.4	2.6	2.7
G86.0	1.6	1.4	1.2	1.4	1.6	1.4	1.5	1.6
G87.0	0.8	0.6	0.4	0.6	0.7	0.7	0.8	0.9
G88.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
G89.0	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.2
G90.0	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2



Light Distribution Data

Unit: cd/klm

G\C	C120.0	C125.0	C130.0	C135.0	C140.0	C145.0	C150.0	C155.0
G0.0	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
G1.0	327.9	328.0	327.9	328.0	327.9	327.8	328.0	327.9
G2.0	327.9	328.0	327.9	328.0	327.8	327.8	327.9	327.9
G3.0	327.8	327.9	327.8	327.9	327.8	327.8	327.9	327.8
G4.0	327.7	327.9	327.7	327.8	327.7	327.6	327.7	327.8
G5.0	327.6	327.6	327.5	327.6	327.5	327.5	327.6	327.6
G6.0	327.3	327.4	327.3	327.3	327.2	327.2	327.4	327.3
G7.0	327.0	327.0	327.0	327.0	326.9	326.9	327.1	326.9
G8.0	326.6	326.6	326.6	326.6	326.5	326.4	326.6	326.5
G9.0	326.1	326.2	326.1	326.1	326.0	326.0	326.2	326.0
G10.0	325.6	325.5	325.5	325.5	325.6	325.5	325.6	325.5
G11.0	325.0	324.9	324.9	324.9	324.9	324.8	324.9	324.8
G12.0	324.3	324.2	324.3	324.2	324.3	324.2	324.2	324.3
G13.0	323.5	323.6	323.5	323.5	323.6	323.4	323.6	323.5
G14.0	322.7	322.7	322.7	322.7	322.7	322.6	322.8	322.7
G15.0	321.9	321.8	321.8	321.8	322.0	321.8	321.9	321.8
G16.0	320.9	320.8	320.8	320.8	320.8	320.8	320.9	320.8
G17.0	319.9	319.9	319.9	319.9	319.9	319.8	319.9	319.8
G18.0	319.0	318.9	318.8	318.9	318.8	318.8	319.0	318.7
G19.0	317.6	317.6	317.7	317.6	317.7	317.6	317.7	317.5
G20.0	316.5	316.4	316.5	316.4	316.5	316.5	316.5	316.4
G21.0	315.2	315.2	315.3	315.1	315.3	315.1	315.3	314.9
G22.0	313.8	313.7	313.9	313.8	313.8	313.7	313.8	313.6
G23.0	312.3	312.4	312.6	312.4	312.4	312.3	312.4	312.2
G24.0	310.8	310.8	311.0	310.8	310.9	310.7	310.8	310.5
G25.0	309.2	309.2	309.4	309.3	309.3	309.1	309.2	308.9
G26.0	307.6	307.7	307.8	307.6	307.7	307.4	307.4	307.1
G27.0	305.7	305.8	305.9	305.7	305.8	305.5	305.6	305.2
G28.0	303.9	304.0	304.2	304.0	303.9	303.7	303.7	303.3
G29.0	302.0	301.9	302.2	301.9	302.1	301.5	301.8	301.0
G30.0	299.8	299.9	300.2	299.9	299.9	299.6	299.5	299.0
G31.0	297.6	297.7	298.1	297.8	297.9	297.5	297.4	296.8
G32.0	295.2	295.3	295.6	295.4	295.4	294.9	294.9	294.2
G33.0	292.8	293.0	293.3	293.1	293.1	292.7	292.6	291.9
G34.0	290.2	290.4	290.8	290.7	290.7	290.3	290.1	289.2
G35.0	287.4	287.6	288.1	287.8	287.9	287.4	287.3	286.4
G36.0	284.6	284.8	285.4	285.2	285.3	284.8	284.5	283.7
G37.0	281.8	281.8	282.6	282.2	282.6	281.8	281.7	280.5
G38.0	278.6	278.9	279.4	279.1	279.2	278.8	278.5	277.4
G39.0	275.4	275.9	276.3	276.1	276.3	275.7	275.5	274.4



Light Distribution Data

Unit: cd/klm

G\C	C120.0	C125.0	C130.0	C135.0	C140.0	C145.0	C150.0	C155.0
G40.0	272.0	272.4	272.8	272.6	272.8	272.2	271.9	270.8
G41.0	268.6	268.9	269.4	269.3	269.5	268.9	268.6	267.2
G42.0	265.1	265.5	265.9	265.7	265.8	265.3	264.9	263.7
G43.0	261.0	261.5	262.0	261.8	261.9	261.4	260.9	259.6
G44.0	257.1	257.5	258.0	258.0	258.2	257.5	257.0	255.7
G45.0	252.9	253.2	254.0	253.5	254.2	253.0	253.1	251.1
G46.0	248.4	249.0	249.6	249.5	249.8	248.9	248.5	246.9
G47.0	244.1	244.5	245.2	245.3	245.6	244.6	244.1	242.6
G48.0	239.2	239.6	240.4	240.2	240.5	239.7	239.3	237.5
G49.0	234.2	234.9	235.7	235.6	235.8	234.9	234.3	232.9
G50.0	229.3	230.1	230.9	230.7	231.0	230.1	229.5	227.8
G51.0	223.8	224.4	225.2	225.3	225.5	224.6	224.0	222.2
G52.0	218.6	219.1	219.9	219.8	220.1	219.2	218.9	217.0
G53.0	213.0	213.2	214.6	213.8	214.8	213.3	213.3	211.0
G54.0	206.9	207.6	208.1	208.2	208.7	207.8	207.2	205.1
G55.0	201.2	201.6	202.3	202.5	202.9	202.0	201.5	199.7
G56.0	194.8	195.2	196.0	195.6	196.2	195.5	195.0	193.0
G57.0	188.6	189.2	190.0	189.5	190.1	189.1	188.7	187.0
G58.0	182.4	183.0	183.4	183.2	183.8	182.9	182.6	181.0
G59.0	175.5	175.7	176.4	176.0	176.7	175.9	175.7	173.9
G60.0	168.8	169.2	169.8	169.0	169.7	169.0	168.9	167.7
G61.0	161.6	161.6	162.5	161.5	162.5	161.7	161.7	160.2
G62.0	154.9	154.8	155.4	154.6	155.4	155.0	155.0	153.7
G63.0	147.7	147.8	148.5	147.3	148.4	147.7	147.9	146.9
G64.0	140.1	140.1	140.8	139.6	140.9	140.0	140.3	139.5
G65.0	133.1	132.8	133.4	132.7	133.5	132.9	133.4	132.6
G66.0	125.7	124.3	126.2	125.0	126.4	124.9	126.0	124.5
G67.0	117.9	117.1	117.9	117.4	118.5	117.3	118.1	117.5
G68.0	110.7	109.4	110.8	110.0	111.2	109.9	111.0	110.4
G69.0	102.4	101.6	102.9	102.0	103.0	102.1	103.2	102.2
G70.0	94.6	94.5	95.7	94.3	95.8	94.9	95.6	94.9
G71.0	86.6	86.5	88.2	86.6	88.3	87.8	88.5	85.4
G72.0	77.4	78.0	80.4	78.9	80.5	79.5	78.4	75.5
G73.0	68.3	70.0	71.8	72.3	73.6	70.8	69.7	68.4
G74.0	61.4	60.2	64.4	63.7	65.1	61.7	62.0	60.9
G75.0	53.4	53.9	55.3	55.4	56.0	54.5	54.9	54.5
G76.0	47.1	46.8	48.0	45.9	47.7	48.3	47.9	47.9
G77.0	39.5	40.3	39.5	38.5	40.2	40.6	41.0	39.8
G78.0	33.1	33.3	32.8	32.7	33.2	34.3	34.1	33.5
G79.0	26.9	25.6	27.0	26.9	27.4	26.2	28.0	27.4



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Light Distribution Data

Unit: cd/klm

G\C	C120.0	C125.0	C130.0	C135.0	C140.0	C145.0	C150.0	C155.0
G80.0	20.0	19.6	20.5	20.3	20.7	20.3	20.6	21.0
G81.0	14.0	14.8	15.1	14.7	15.3	15.2	14.6	14.7
G82.0	10.1	10.1	10.7	10.5	11.0	10.3	10.5	9.6
G83.0	6.9	7.4	7.6	7.3	7.7	7.5	7.3	6.7
G84.0	4.9	5.1	5.3	5.5	5.4	5.2	5.1	4.6
G85.0	3.1	3.4	3.4	3.5	3.6	3.5	3.3	3.0
G86.0	1.9	2.0	2.1	2.0	2.1	2.3	2.1	1.8
G87.0	1.0	1.0	1.0	1.0	1.1	1.2	1.1	1.0
G88.0	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.3
G89.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
G90.0	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2



Light Distribution Data

Unit: cd/klm

G\C	C160.0	C165.0	C170.0	C175.0	C180.0	C185.0	C190.0	C195.0
G0.0	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
G1.0	327.9	328.0	327.9	327.9	327.9	327.9	327.9	327.9
G2.0	327.9	327.8	327.9	327.9	327.8	327.7	327.8	327.9
G3.0	327.9	327.7	327.8	327.8	327.7	327.7	327.8	327.8
G4.0	327.7	327.6	327.7	327.7	327.6	327.5	327.6	327.7
G5.0	327.6	327.5	327.5	327.5	327.4	327.3	327.4	327.4
G6.0	327.3	327.2	327.2	327.2	327.1	327.1	327.2	327.1
G7.0	327.0	326.9	326.8	326.8	326.8	326.6	326.8	326.9
G8.0	326.6	326.4	326.5	326.4	326.3	326.2	326.4	326.4
G9.0	326.0	325.9	325.9	325.9	325.7	325.8	325.9	325.9
G10.0	325.5	325.5	325.4	325.3	325.1	325.2	325.3	325.3
G11.0	324.9	324.8	324.7	324.7	324.6	324.5	324.6	324.6
G12.0	324.2	324.2	324.2	324.1	323.9	323.9	323.9	323.9
G13.0	323.5	323.4	323.4	323.3	323.1	323.2	323.1	323.2
G14.0	322.6	322.5	322.6	322.5	322.2	322.3	322.3	322.3
G15.0	321.9	321.7	321.7	321.6	321.3	321.4	321.4	321.5
G16.0	320.8	320.7	320.7	320.6	320.3	320.5	320.4	320.6
G17.0	319.8	319.8	319.7	319.7	319.3	319.3	319.4	319.5
G18.0	318.8	318.7	318.7	318.6	318.3	318.3	318.4	318.4
G19.0	317.6	317.5	317.5	317.3	317.0	317.0	317.0	317.1
G20.0	316.3	316.3	316.2	316.2	315.8	315.8	315.8	316.0
G21.0	315.1	314.7	314.9	314.7	314.4	314.4	314.5	314.7
G22.0	313.6	313.3	313.4	313.3	312.9	312.8	313.0	313.1
G23.0	312.2	311.9	311.9	311.7	311.3	311.2	311.3	311.6
G24.0	310.5	310.2	310.2	310.0	309.5	309.7	309.6	310.1
G25.0	308.9	308.6	308.5	308.3	307.7	307.7	307.9	308.2
G26.0	307.2	306.9	306.8	306.4	305.9	305.9	306.1	306.5
G27.0	305.1	304.8	304.7	304.3	303.7	303.8	303.9	304.4
G28.0	303.2	302.9	302.8	302.5	301.5	301.8	301.9	302.4
G29.0	301.2	300.7	300.7	300.1	299.4	299.6	299.8	300.2
G30.0	298.8	298.4	298.3	297.9	296.8	297.1	297.3	297.8
G31.0	296.6	296.2	296.0	295.6	294.5	294.6	295.0	295.4
G32.0	294.0	293.5	293.3	292.9	291.8	291.9	292.4	292.8
G33.0	291.6	291.0	290.8	290.3	289.2	289.4	289.7	290.3
G34.0	288.9	288.4	288.1	287.8	286.4	286.7	287.0	287.6
G35.0	286.0	285.2	285.2	284.6	283.2	283.4	283.8	284.5
G36.0	283.2	282.5	282.3	281.7	280.3	280.6	280.9	281.6
G37.0	280.3	279.2	279.2	278.4	276.8	277.4	277.5	278.5
G38.0	277.0	276.2	275.9	275.1	273.7	274.0	274.3	275.1
G39.0	273.8	272.8	272.5	271.8	270.2	270.7	270.8	271.8



Light Distribution Data

Unit: cd/klm

G\C	C160.0	C165.0	C170.0	C175.0	C180.0	C185.0	C190.0	C195.0
G40.0	270.0	269.1	268.8	268.1	266.4	266.8	267.0	267.9
G41.0	266.5	265.6	265.1	264.3	262.8	263.0	263.5	264.3
G42.0	263.0	261.8	261.4	260.7	258.9	259.2	259.5	260.4
G43.0	258.9	257.6	257.2	256.4	254.7	254.8	255.2	256.3
G44.0	254.7	253.6	253.1	252.5	250.4	250.7	251.0	252.1
G45.0	250.7	248.8	249.0	247.7	245.7	246.3	246.4	248.0
G46.0	246.0	244.6	244.3	243.4	241.0	241.6	241.8	243.1
G47.0	241.4	240.2	239.7	238.9	236.4	237.0	237.3	238.6
G48.0	236.5	235.3	234.7	233.8	231.0	231.7	232.0	233.3
G49.0	231.9	230.4	230.0	228.9	226.1	226.9	227.2	228.5
G50.0	227.0	225.5	224.8	223.9	220.7	221.7	222.1	223.4
G51.0	221.3	220.1	219.2	218.1	214.9	216.1	216.5	217.9
G52.0	216.2	214.5	214.0	212.9	209.5	210.7	211.1	212.4
G53.0	211.0	208.6	208.7	207.0	203.5	205.3	204.9	207.0
G54.0	204.7	203.1	202.4	201.5	197.9	199.0	199.4	200.9
G55.0	199.1	197.6	196.8	195.9	192.0	193.3	193.5	195.0
G56.0	192.9	191.3	190.5	189.6	185.5	187.0	187.1	188.5
G57.0	186.9	185.1	184.7	183.4	179.7	180.7	180.8	182.2
G58.0	180.6	179.0	178.7	177.5	173.7	174.6	174.7	176.2
G59.0	173.8	172.2	171.6	170.6	166.5	167.4	167.8	169.0
G60.0	167.3	165.5	165.3	164.0	159.9	161.2	161.2	162.7
G61.0	159.7	158.4	157.9	157.0	152.4	154.4	153.9	155.9
G62.0	153.2	151.9	151.4	150.5	145.6	147.3	147.3	148.8
G63.0	146.5	145.2	144.8	143.7	138.5	140.4	140.4	141.7
G64.0	138.7	137.5	137.2	136.3	131.2	132.6	133.0	134.3
G65.0	131.7	130.7	130.5	129.6	124.2	125.8	125.9	127.1
G66.0	124.8	123.1	123.6	122.0	117.3	118.7	118.7	120.2
G67.0	117.2	115.6	115.6	114.8	109.8	111.2	111.2	112.1
G68.0	109.9	108.6	108.7	107.9	101.4	103.4	104.2	105.2
G69.0	102.4	100.6	99.7	97.9	90.7	94.1	93.4	96.4
G70.0	94.0	90.6	90.4	88.5	82.6	84.5	84.6	85.7
G71.0	84.3	81.8	82.2	81.6	75.6	77.4	77.3	78.4
G72.0	76.1	73.6	74.0	73.5	68.3	70.0	69.5	70.1
G73.0	68.3	67.3	67.3	67.2	61.6	63.8	62.8	64.0
G74.0	61.9	60.3	60.3	59.6	54.6	56.5	55.4	56.8
G75.0	53.9	53.3	53.3	53.2	47.6	49.4	48.8	50.0
G76.0	47.6	47.1	45.9	45.3	40.2	41.9	40.9	42.4
G77.0	39.4	38.8	38.8	38.4	34.0	35.4	34.5	35.9
G78.0	33.2	33.0	32.8	32.7	28.0	29.3	28.8	29.9
G79.0	27.5	26.5	27.0	26.7	21.7	22.5	22.4	23.8



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Light Distribution Data

Unit: cd/klm

G\C	C160.0	C165.0	C170.0	C175.0	C180.0	C185.0	C190.0	C195.0
G80.0	20.7	19.7	20.3	19.8	16.1	16.8	16.4	16.7
G81.0	15.1	14.7	15.3	14.7	11.8	12.3	12.1	12.3
G82.0	10.7	10.3	11.0	10.1	8.0	8.5	7.9	8.4
G83.0	7.1	7.3	7.4	7.2	5.5	5.7	5.4	5.6
G84.0	4.6	4.8	5.1	4.8	3.4	3.5	3.5	3.6
G85.0	2.8	2.9	3.1	2.9	1.9	2.0	2.1	2.0
G86.0	1.8	1.8	2.0	1.7	0.7	0.9	1.1	1.1
G87.0	0.9	0.9	0.9	0.7	0.3	0.3	0.3	0.5
G88.0	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
G89.0	0.3	0.3	0.3	0.3	0.1	0.1	0.2	0.1
G90.0	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2



Light Distribution Data

Unit: cd/klm

G\C	C200.0	C205.0	C210.0	C215.0	C220.0	C225.0	C230.0	C235.0
G0.0	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
G1.0	327.9	327.9	327.9	327.9	327.9	327.9	327.8	327.9
G2.0	327.8	327.9	327.8	327.9	327.8	327.9	327.7	327.8
G3.0	327.7	327.8	327.8	327.7	327.7	327.8	327.6	327.7
G4.0	327.6	327.6	327.6	327.6	327.6	327.6	327.5	327.6
G5.0	327.4	327.5	327.5	327.4	327.4	327.4	327.4	327.4
G6.0	327.0	327.2	327.0	327.1	327.1	327.1	327.0	327.2
G7.0	326.8	326.8	326.7	326.8	326.8	326.9	326.7	326.9
G8.0	326.3	326.5	326.4	326.3	326.4	326.5	326.3	326.5
G9.0	325.7	325.9	325.8	325.8	326.0	326.0	325.8	325.9
G10.0	325.2	325.4	325.2	325.4	325.4	325.4	325.3	325.4
G11.0	324.5	324.6	324.6	324.7	324.7	324.7	324.6	324.8
G12.0	323.8	324.0	323.8	323.9	324.0	324.1	323.9	324.1
G13.0	323.1	323.3	323.1	323.3	323.3	323.4	323.2	323.3
G14.0	322.2	322.5	322.3	322.4	322.3	322.4	322.3	322.4
G15.0	321.3	321.6	321.5	321.5	321.5	321.6	321.5	321.7
G16.0	320.3	320.7	320.5	320.6	320.4	320.7	320.5	320.7
G17.0	319.4	319.7	319.5	319.6	319.5	319.6	319.5	319.6
G18.0	318.3	318.5	318.4	318.5	318.4	318.5	318.4	318.5
G19.0	317.1	317.3	317.2	317.3	317.2	317.3	317.2	317.5
G20.0	315.9	316.1	316.0	316.1	316.0	316.2	316.0	316.1
G21.0	314.7	314.8	314.7	314.9	314.8	315.0	314.7	314.9
G22.0	313.1	313.3	313.2	313.3	313.4	313.5	313.2	313.4
G23.0	311.6	311.9	311.8	311.9	311.9	312.1	311.8	312.0
G24.0	309.9	310.2	310.0	310.4	310.3	310.5	310.2	310.4
G25.0	308.2	308.5	308.4	308.7	308.7	308.9	308.7	308.8
G26.0	306.4	306.7	306.7	307.1	306.9	307.1	306.9	307.0
G27.0	304.4	304.6	304.7	305.0	305.1	305.3	305.0	305.0
G28.0	302.3	302.7	302.7	303.2	303.2	303.4	303.2	303.2
G29.0	300.2	300.6	300.7	301.2	301.2	301.6	301.2	301.2
G30.0	297.8	298.4	298.4	298.9	299.0	299.3	298.9	298.9
G31.0	295.4	296.1	296.3	296.7	296.9	297.1	296.7	296.7
G32.0	292.9	293.5	293.7	294.4	294.5	294.7	294.2	294.2
G33.0	290.4	291.1	291.2	291.9	292.0	292.3	291.9	291.8
G34.0	287.7	288.5	288.6	289.5	289.6	289.7	289.4	289.3
G35.0	284.8	285.6	285.8	286.5	286.7	287.0	286.5	286.5
G36.0	281.8	282.6	282.9	283.8	283.8	284.1	283.7	283.7
G37.0	278.6	279.7	279.8	280.9	280.7	281.2	280.5	280.9
G38.0	275.4	276.4	276.7	277.6	277.6	278.0	277.5	277.5
G39.0	272.2	273.2	273.7	274.6	274.5	274.6	274.2	274.3



Light Distribution Data

Unit: cd/klm

G\C	C200.0	C205.0	C210.0	C215.0	C220.0	C225.0	C230.0	C235.0
G40.0	268.5	269.6	270.0	270.9	270.7	271.1	270.7	270.6
G41.0	264.7	266.0	266.6	267.6	267.3	267.6	267.0	267.2
G42.0	261.1	262.4	263.1	264.0	263.8	264.1	263.5	263.6
G43.0	256.8	258.2	258.8	259.9	259.7	260.0	259.5	259.6
G44.0	252.8	254.2	254.9	255.9	255.9	256.2	255.5	255.6
G45.0	248.1	250.1	250.3	251.8	251.4	252.1	251.1	251.5
G46.0	243.9	245.4	246.1	247.0	247.3	247.6	246.8	246.8
G47.0	239.3	240.9	241.5	242.7	242.7	243.3	242.5	242.4
G48.0	234.2	235.9	236.5	237.7	237.7	238.2	237.3	237.5
G49.0	229.2	230.9	231.6	232.9	232.9	233.4	232.7	232.6
G50.0	224.3	225.9	226.6	227.7	227.9	228.6	227.6	227.5
G51.0	218.8	220.0	220.7	222.2	222.3	222.7	222.0	222.0
G52.0	213.3	214.8	215.4	216.9	216.7	217.4	216.5	216.8
G53.0	207.4	209.1	209.5	211.2	210.8	211.6	210.5	211.1
G54.0	201.7	202.9	203.6	205.2	204.9	205.4	204.8	204.9
G55.0	195.7	197.2	197.9	199.2	199.2	199.6	198.7	198.8
G56.0	189.3	190.5	191.2	192.7	192.3	192.7	192.0	192.1
G57.0	183.2	184.2	185.2	186.3	186.1	186.4	185.4	185.5
G58.0	176.8	178.1	178.7	180.0	179.4	179.7	179.1	179.2
G59.0	169.8	171.4	171.8	173.0	172.1	172.4	171.6	171.9
G60.0	163.1	164.8	165.0	166.1	165.1	165.3	165.0	165.5
G61.0	156.0	158.3	157.8	159.1	157.8	158.5	157.5	158.7
G62.0	149.0	150.8	150.7	151.5	150.6	150.7	150.7	151.4
G63.0	142.2	144.1	143.8	144.3	143.7	143.8	143.6	144.6
G64.0	134.4	136.3	135.8	136.6	135.9	136.0	136.0	136.6
G65.0	127.5	129.4	128.8	129.1	128.9	129.1	128.8	129.1
G66.0	120.3	122.1	121.4	121.8	121.4	121.8	121.3	121.8
G67.0	112.6	114.4	113.6	113.5	113.2	114.0	113.4	113.6
G68.0	105.3	106.8	106.1	106.3	106.1	106.5	106.0	106.5
G69.0	97.7	99.3	98.2	99.0	98.0	98.9	98.4	99.1
G70.0	88.1	90.9	90.8	91.5	91.0	91.0	91.0	91.0
G71.0	79.2	81.3	82.4	84.2	84.0	83.5	83.9	82.8
G72.0	70.9	71.9	72.8	76.0	76.1	76.1	75.0	75.3
G73.0	64.2	64.5	64.9	66.9	68.6	68.4	68.1	66.5
G74.0	57.4	58.2	57.8	58.8	60.3	61.5	59.6	58.5
G75.0	49.5	50.5	50.5	51.5	50.8	52.4	51.1	50.7
G76.0	43.0	44.7	43.8	45.2	44.3	43.0	43.4	44.4
G77.0	35.2	36.5	37.5	37.9	35.6	36.0	35.9	37.5
G78.0	29.6	30.1	30.2	31.0	29.8	30.7	29.6	31.0
G79.0	23.8	24.4	24.6	23.9	23.9	24.6	23.9	23.8



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Light Distribution Data

Unit: cd/klm

G\C	C200.0	C205.0	C210.0	C215.0	C220.0	C225.0	C230.0	C235.0
G80.0	16.8	17.7	17.3	17.9	17.9	18.1	17.7	17.9
G81.0	12.1	12.7	12.1	13.2	12.9	13.1	13.0	13.1
G82.0	8.2	8.6	8.6	9.3	9.0	9.7	8.9	9.3
G83.0	5.4	5.7	5.9	6.5	6.4	6.5	6.6	6.5
G84.0	3.4	4.0	4.1	4.5	4.5	4.7	4.5	4.6
G85.0	2.1	2.4	2.5	2.8	2.7	2.9	2.8	3.0
G86.0	1.3	1.4	1.5	1.6	1.6	1.6	1.6	1.8
G87.0	0.5	0.6	0.7	0.7	0.7	0.7	0.8	0.8
G88.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
G89.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
G90.0	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2



Light Distribution Data

Unit: cd/klm

G\C	C240.0	C245.0	C250.0	C255.0	C260.0	C265.0	C270.0	C275.0
G0.0	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
G1.0	328.0	327.9	327.8	327.9	327.9	327.9	327.9	327.9
G2.0	327.8	327.9	327.8	327.8	327.8	327.8	327.8	327.8
G3.0	327.8	327.7	327.7	327.7	327.8	327.8	327.8	327.8
G4.0	327.7	327.6	327.5	327.6	327.6	327.6	327.6	327.7
G5.0	327.5	327.4	327.3	327.4	327.4	327.5	327.4	327.4
G6.0	327.3	327.1	327.1	327.1	327.1	327.1	327.1	327.1
G7.0	326.9	326.9	326.7	326.8	326.8	326.8	326.8	326.8
G8.0	326.4	326.5	326.4	326.4	326.4	326.4	326.4	326.4
G9.0	326.0	325.9	325.9	325.9	325.9	325.9	325.9	325.9
G10.0	325.4	325.4	325.3	325.3	325.3	325.4	325.3	325.3
G11.0	324.7	324.7	324.6	324.6	324.7	324.7	324.6	324.6
G12.0	324.1	324.1	324.0	324.0	324.0	324.0	323.9	323.9
G13.0	323.3	323.4	323.2	323.3	323.2	323.2	323.2	323.2
G14.0	322.4	322.5	322.4	322.4	322.3	322.3	322.3	322.3
G15.0	321.5	321.6	321.5	321.5	321.4	321.4	321.4	321.5
G16.0	320.6	320.6	320.4	320.6	320.5	320.6	320.3	320.5
G17.0	319.5	319.5	319.3	319.5	319.3	319.5	319.3	319.5
G18.0	318.4	318.5	318.2	318.4	318.3	318.3	318.3	318.4
G19.0	317.2	317.3	317.0	317.1	317.0	317.1	317.0	317.1
G20.0	316.0	316.0	315.7	315.9	315.8	315.8	315.7	315.8
G21.0	314.8	314.9	314.5	314.6	314.4	314.5	314.4	314.5
G22.0	313.3	313.3	313.1	313.0	312.9	313.0	312.7	312.9
G23.0	311.8	311.9	311.5	311.5	311.3	311.4	311.2	311.4
G24.0	310.1	310.3	309.7	309.9	309.5	309.6	309.3	309.7
G25.0	308.5	308.4	308.0	308.1	307.7	307.8	307.6	307.8
G26.0	306.7	306.6	306.3	306.3	306.0	305.9	305.7	305.9
G27.0	304.7	304.6	304.1	304.2	303.7	303.7	303.4	303.8
G28.0	302.8	302.6	302.0	302.1	301.7	301.6	301.5	301.7
G29.0	300.8	300.5	300.1	300.0	299.6	299.4	299.2	299.6
G30.0	298.4	298.1	297.6	297.4	297.1	296.9	296.7	297.0
G31.0	296.2	295.8	295.3	295.2	294.7	294.6	294.3	294.7
G32.0	293.6	293.3	292.6	292.5	292.1	291.8	291.5	291.9
G33.0	291.2	290.8	290.1	289.9	289.4	289.4	288.9	289.4
G34.0	288.7	288.3	287.6	287.2	286.8	286.6	286.2	286.6
G35.0	285.7	285.4	284.5	284.3	283.6	283.5	283.1	283.7
G36.0	282.9	282.5	281.7	281.3	280.7	280.5	280.1	280.6
G37.0	279.7	279.7	278.4	278.3	277.3	277.5	276.6	277.5
G38.0	276.7	276.2	275.3	274.8	274.2	274.0	273.4	274.1
G39.0	273.6	273.0	271.9	271.6	270.9	270.6	270.1	270.7



Light Distribution Data

Unit: cd/klm

G\C	C240.0	C245.0	C250.0	C255.0	C260.0	C265.0	C270.0	C275.0
G40.0	269.8	269.3	268.2	267.7	266.8	266.9	266.4	266.9
G41.0	266.3	265.8	264.5	264.1	263.2	263.1	262.6	263.0
G42.0	262.6	262.0	260.8	260.5	259.3	259.3	258.6	259.3
G43.0	258.6	258.0	256.6	256.0	255.0	254.9	254.4	254.9
G44.0	254.6	253.8	252.4	251.8	250.8	250.9	250.1	250.9
G45.0	250.2	249.8	247.8	247.6	246.2	246.4	245.5	246.5
G46.0	245.8	245.1	243.5	243.0	241.7	241.6	241.1	241.7
G47.0	241.4	240.5	238.8	238.3	237.1	236.8	236.3	237.2
G48.0	236.2	235.6	233.7	233.1	231.8	231.7	230.8	231.8
G49.0	231.4	230.6	228.9	228.1	227.0	226.7	225.9	226.8
G50.0	226.2	225.5	223.7	223.2	222.0	221.7	220.7	221.8
G51.0	220.6	219.8	218.2	217.3	216.1	215.9	214.7	216.2
G52.0	215.0	214.6	212.8	212.2	210.9	210.7	209.5	210.7
G53.0	209.1	208.9	206.9	206.6	204.7	205.0	203.2	205.0
G54.0	203.5	202.7	201.1	200.6	199.2	199.0	197.7	199.0
G55.0	197.4	196.6	195.5	195.0	193.3	193.3	191.7	193.3
G56.0	190.6	190.1	188.8	188.3	187.0	186.7	185.4	186.6
G57.0	184.5	183.8	182.9	182.3	180.8	180.8	179.3	180.6
G58.0	178.3	177.7	176.5	175.9	174.7	174.4	173.3	174.2
G59.0	171.0	171.0	169.5	169.2	167.6	167.7	166.5	167.4
G60.0	164.4	164.2	163.1	162.6	161.2	161.0	159.7	160.7
G61.0	157.0	157.6	155.5	156.2	153.9	154.5	152.5	154.3
G62.0	150.4	150.4	148.8	148.6	147.4	147.1	145.4	146.9
G63.0	143.3	143.7	141.7	141.9	140.6	140.6	138.7	140.4
G64.0	135.8	135.8	133.9	134.1	132.9	133.0	131.1	132.9
G65.0	128.5	128.7	127.0	127.2	126.0	126.2	124.1	126.2
G66.0	121.2	121.8	119.9	120.0	119.0	119.0	116.7	119.0
G67.0	113.6	113.9	112.3	111.0	109.0	109.5	108.0	109.3
G68.0	106.5	106.7	103.3	102.8	101.8	102.3	100.9	102.2
G69.0	97.8	97.2	95.9	95.5	93.8	94.4	91.3	94.5
G70.0	89.3	89.5	88.2	85.9	83.4	83.6	81.9	83.8
G71.0	82.1	81.2	77.9	76.9	76.3	76.6	75.1	76.9
G72.0	72.0	70.8	70.0	70.0	68.4	68.5	67.1	69.0
G73.0	64.3	64.3	62.3	62.5	61.7	62.1	60.8	62.6
G74.0	57.1	56.7	55.8	56.5	55.1	56.1	54.1	56.4
G75.0	49.6	50.1	48.1	48.9	47.5	48.5	47.3	48.8
G76.0	43.0	43.3	42.4	42.3	40.0	41.3	40.1	41.3
G77.0	36.6	35.9	34.7	35.2	33.5	34.4	33.2	34.8
G78.0	30.0	29.5	28.7	29.1	28.5	29.1	28.1	29.4
G79.0	24.0	24.4	23.4	23.5	23.1	23.4	22.5	24.0



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Light Distribution Data

Unit: cd/klm

G\C	C240.0	C245.0	C250.0	C255.0	C260.0	C265.0	C270.0	C275.0
G80.0	17.1	18.0	16.6	16.7	16.4	17.2	16.8	17.3
G81.0	11.8	12.4	11.8	12.1	12.0	12.5	12.3	12.6
G82.0	8.4	8.2	8.0	8.4	8.0	8.7	8.1	8.7
G83.0	5.9	5.5	5.5	5.6	5.6	5.8	5.6	5.7
G84.0	4.2	3.9	3.5	3.7	3.6	3.8	3.6	3.8
G85.0	2.7	2.4	2.3	2.3	2.4	2.4	2.2	2.4
G86.0	1.6	1.5	1.4	1.3	1.4	1.2	0.9	1.2
G87.0	0.8	0.7	0.6	0.6	0.6	0.4	0.3	0.4
G88.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
G89.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
G90.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1



Light Distribution Data

Unit: cd/klm

G\C	C280.0	C285.0	C290.0	C295.0	C300.0	C305.0	C310.0	C315.0
G0.0	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
G1.0	327.9	327.9	327.9	327.9	327.9	328.0	327.9	327.9
G2.0	327.8	327.8	327.8	327.8	327.9	327.9	327.8	327.9
G3.0	327.8	327.7	327.8	327.7	327.7	327.8	327.8	327.8
G4.0	327.6	327.6	327.7	327.6	327.6	327.7	327.7	327.7
G5.0	327.4	327.5	327.5	327.5	327.4	327.5	327.4	327.5
G6.0	327.1	327.2	327.2	327.2	327.1	327.3	327.1	327.2
G7.0	326.8	326.9	326.8	326.8	326.8	326.9	326.8	326.9
G8.0	326.4	326.4	326.4	326.4	326.3	326.5	326.4	326.5
G9.0	325.9	325.9	325.9	325.9	325.8	326.0	325.8	325.9
G10.0	325.3	325.4	325.4	325.3	325.3	325.4	325.2	325.3
G11.0	324.7	324.7	324.6	324.7	324.6	324.7	324.6	324.7
G12.0	323.9	324.1	324.0	324.0	323.9	324.0	323.8	324.1
G13.0	323.2	323.4	323.2	323.2	323.2	323.3	323.1	323.4
G14.0	322.3	322.4	322.3	322.4	322.3	322.4	322.3	322.5
G15.0	321.5	321.6	321.4	321.5	321.4	321.6	321.4	321.6
G16.0	320.4	320.6	320.4	320.6	320.4	320.7	320.4	320.7
G17.0	319.4	319.5	319.4	319.5	319.4	319.6	319.3	319.6
G18.0	318.3	318.5	318.4	318.4	318.4	318.5	318.3	318.5
G19.0	317.1	317.2	317.2	317.3	317.1	317.3	317.1	317.3
G20.0	315.8	315.9	315.9	316.0	315.9	316.1	315.9	316.1
G21.0	314.4	314.7	314.6	314.6	314.6	314.8	314.7	314.8
G22.0	312.8	313.0	313.1	313.1	313.2	313.4	313.3	313.4
G23.0	311.3	311.5	311.6	311.7	311.7	312.0	311.9	312.0
G24.0	309.5	309.9	309.8	310.1	310.0	310.5	310.1	310.5
G25.0	307.8	308.1	308.1	308.4	308.4	308.8	308.5	308.9
G26.0	305.9	306.2	306.3	306.6	306.7	307.0	306.9	307.2
G27.0	303.9	304.2	304.2	304.6	304.7	305.1	305.0	305.3
G28.0	301.9	302.2	302.3	302.7	302.7	303.2	303.2	303.4
G29.0	299.7	300.2	300.2	300.7	300.7	301.3	301.1	301.6
G30.0	297.3	297.7	297.8	298.3	298.5	299.0	298.9	299.3
G31.0	294.9	295.4	295.5	296.1	296.4	296.8	296.7	297.2
G32.0	292.1	292.7	292.8	293.4	293.8	294.3	294.2	294.6
G33.0	289.6	290.0	290.4	291.0	291.3	292.0	292.0	292.2
G34.0	286.8	287.4	287.6	288.4	288.8	289.6	289.3	289.8
G35.0	283.8	284.4	284.5	285.4	285.8	286.7	286.4	287.0
G36.0	280.7	281.4	281.5	282.5	283.1	284.1	283.7	284.1
G37.0	277.4	278.3	278.4	279.6	279.8	281.1	280.6	281.3
G38.0	274.1	274.8	275.1	276.3	276.7	277.8	277.5	278.0
G39.0	270.8	271.5	272.0	273.0	273.5	274.6	274.4	274.7



Light Distribution Data

Unit: cd/klm

G\C	C280.0	C285.0	C290.0	C295.0	C300.0	C305.0	C310.0	C315.0
G40.0	267.0	267.6	268.2	269.4	270.0	271.1	270.7	271.2
G41.0	263.3	264.1	264.7	265.8	266.4	267.5	267.3	267.7
G42.0	259.3	260.3	260.9	262.3	262.8	264.0	263.5	264.1
G43.0	255.1	256.1	256.5	258.0	258.6	259.7	259.5	260.0
G44.0	250.9	251.9	252.6	253.9	254.8	255.9	255.5	256.2
G45.0	246.3	247.7	247.9	249.9	250.2	251.7	251.2	252.0
G46.0	242.0	243.0	243.7	245.3	246.0	247.1	246.8	247.6
G47.0	237.2	238.3	239.1	240.7	241.3	242.7	242.4	243.0
G48.0	232.0	233.3	234.1	235.6	236.2	237.5	237.5	238.2
G49.0	227.0	228.3	229.0	230.6	231.2	232.7	232.6	233.2
G50.0	222.0	223.3	223.9	225.6	226.1	227.5	227.7	228.4
G51.0	216.1	217.3	218.2	219.6	220.3	221.9	221.8	222.6
G52.0	210.8	211.9	212.7	214.2	214.7	216.2	216.5	217.3
G53.0	204.5	206.1	206.7	208.3	208.6	210.7	210.2	211.6
G54.0	198.9	200.1	200.7	202.0	202.7	204.3	204.5	205.4
G55.0	193.0	194.2	195.1	196.2	196.9	198.4	198.3	199.5
G56.0	186.6	187.9	188.5	189.5	190.1	191.6	191.6	192.5
G57.0	180.3	181.6	182.5	183.5	184.2	185.5	185.1	186.3
G58.0	174.2	175.6	176.4	177.1	177.7	179.3	178.7	179.6
G59.0	167.4	168.5	169.3	170.5	170.7	172.1	171.3	172.4
G60.0	160.7	162.1	162.8	163.9	164.2	165.7	164.8	165.4
G61.0	153.7	155.6	155.3	157.5	156.8	158.8	157.3	158.6
G62.0	146.9	148.1	148.4	150.1	150.0	151.3	150.5	150.7
G63.0	140.5	141.5	141.6	143.5	143.1	144.2	143.4	143.7
G64.0	133.0	133.9	133.8	135.7	135.4	136.2	135.7	135.9
G65.0	125.9	127.1	126.7	129.0	128.4	129.0	128.4	129.0
G66.0	119.0	120.0	119.9	121.7	121.0	121.7	121.2	121.6
G67.0	109.2	111.2	112.3	114.0	113.3	113.5	113.1	113.8
G68.0	102.4	103.4	103.3	106.5	105.9	106.0	106.0	106.2
G69.0	93.9	96.0	95.8	97.5	97.8	98.7	97.9	98.5
G70.0	83.7	86.0	88.2	89.7	89.0	91.1	90.9	90.5
G71.0	76.5	77.0	78.3	81.3	82.1	82.6	83.6	83.1
G72.0	68.6	70.0	70.4	71.0	72.2	74.9	74.8	75.7
G73.0	61.5	62.6	62.5	64.2	64.3	66.1	67.6	67.6
G74.0	55.4	56.7	56.4	57.2	57.2	58.1	60.0	60.0
G75.0	47.8	49.1	48.4	50.4	49.5	50.5	50.2	52.1
G76.0	40.5	42.7	42.5	43.3	43.1	44.5	43.1	42.6
G77.0	33.6	35.6	35.1	36.0	36.5	36.9	35.8	35.3
G78.0	28.6	29.4	29.0	30.0	29.9	30.9	29.1	30.0
G79.0	23.0	23.8	23.6	24.2	23.8	23.5	23.3	24.0



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Light Distribution Data

Unit: cd/klm

G\C	C280.0	C285.0	C290.0	C295.0	C300.0	C305.0	C310.0	C315.0
G80.0	16.9	17.1	16.8	17.8	17.1	17.7	17.1	17.8
G81.0	12.3	12.4	11.9	12.2	11.5	12.7	12.6	13.0
G82.0	8.1	8.7	8.1	8.3	8.2	9.1	8.7	9.6
G83.0	5.6	5.8	5.6	5.4	5.7	6.5	6.4	6.5
G84.0	3.8	3.8	3.6	3.8	4.1	4.4	4.4	4.6
G85.0	2.4	2.4	2.2	2.4	2.6	2.8	2.9	2.9
G86.0	1.4	1.3	1.3	1.5	1.5	1.7	1.7	1.7
G87.0	0.5	0.5	0.6	0.7	0.8	0.8	0.7	0.6
G88.0	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
G89.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1
G90.0	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1



Light Distribution Data

Unit: cd/klm

G\C	C320.0	C325.0	C330.0	C335.0	C340.0	C345.0	C350.0	C355.0
G0.0	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
G1.0	327.9	327.8	328.0	328.0	327.9	328.0	328.0	327.9
G2.0	327.9	327.8	328.0	327.8	327.9	327.9	327.9	327.9
G3.0	327.8	327.7	327.9	327.9	327.8	327.8	327.8	327.8
G4.0	327.6	327.6	327.7	327.7	327.7	327.6	327.6	327.6
G5.0	327.4	327.4	327.6	327.5	327.4	327.4	327.4	327.4
G6.0	327.1	327.2	327.3	327.3	327.1	327.1	327.2	327.2
G7.0	326.8	326.9	326.9	327.4	326.7	326.8	326.8	326.8
G8.0	326.4	326.5	326.4	327.0	326.4	326.5	326.3	326.4
G9.0	325.8	325.9	326.0	326.0	325.9	326.0	325.9	325.9
G10.0	325.3	325.4	325.4	325.5	325.4	325.5	325.4	325.4
G11.0	324.7	324.8	324.8	324.8	324.7	324.7	324.7	324.8
G12.0	324.1	324.1	324.1	324.1	324.0	324.1	324.1	324.1
G13.0	323.3	323.4	323.3	323.4	323.3	323.4	323.3	323.2
G14.0	322.4	322.5	322.4	322.5	322.4	322.4	322.3	322.5
G15.0	321.5	321.6	321.5	321.6	321.5	321.5	321.5	321.6
G16.0	320.5	320.7	320.5	320.6	320.4	320.6	320.5	320.6
G17.0	319.4	319.6	319.5	319.5	319.4	319.5	319.4	319.5
G18.0	318.4	318.5	318.3	318.5	318.3	318.5	318.3	318.3
G19.0	317.1	317.2	317.1	317.2	317.0	317.1	317.0	317.1
G20.0	316.0	316.0	315.8	316.0	315.7	315.8	315.7	315.8
G21.0	314.7	314.7	314.6	314.6	314.4	314.6	314.4	314.5
G22.0	313.2	313.3	313.1	313.1	312.8	313.1	312.8	313.0
G23.0	311.9	311.8	311.7	311.7	311.4	311.6	311.4	311.4
G24.0	310.2	310.4	310.1	310.2	309.7	310.0	309.6	309.7
G25.0	308.4	308.7	308.4	308.8	308.1	308.1	307.8	307.9
G26.0	307.0	307.0	306.6	307.2	306.3	306.4	306.0	306.0
G27.0	305.0	305.1	304.7	304.8	304.3	304.3	303.9	303.9
G28.0	303.1	303.2	302.8	302.9	302.4	302.4	302.0	301.8
G29.0	301.2	301.2	300.9	300.7	300.3	300.3	299.8	299.6
G30.0	298.8	298.9	298.5	298.3	297.8	297.8	297.4	297.1
G31.0	296.7	296.7	296.3	296.0	295.4	295.6	295.0	294.8
G32.0	294.2	294.2	293.6	293.4	292.8	292.8	292.3	292.1
G33.0	291.8	291.9	291.2	290.9	290.2	290.2	289.7	289.5
G34.0	289.3	289.2	288.8	288.3	287.6	287.6	287.0	286.8
G35.0	286.4	286.5	285.7	285.4	284.6	284.6	284.0	283.8
G36.0	283.7	283.7	282.8	282.6	281.6	281.6	281.0	280.8
G37.0	280.5	280.9	279.8	279.7	278.4	278.6	277.7	277.8
G38.0	277.6	277.6	276.7	276.4	275.2	275.0	274.2	274.3
G39.0	274.3	274.4	273.5	273.1	272.0	271.7	270.9	270.9



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Light Distribution Data

Unit: cd/klm

G\C	C320.0	C325.0	C330.0	C335.0	C340.0	C345.0	C350.0	C355.0
G40.0	270.8	270.9	270.0	269.4	268.1	268.0	267.0	267.1
G41.0	267.4	267.4	266.4	265.8	264.6	264.3	263.4	263.2
G42.0	263.7	263.9	262.9	262.4	261.0	260.7	259.5	259.6
G43.0	259.6	259.7	258.7	258.1	256.7	256.4	255.2	255.2
G44.0	255.6	255.8	254.8	254.3	252.8	252.2	251.1	251.1
G45.0	251.2	251.6	250.2	250.1	248.1	248.1	246.5	246.8
G46.0	246.9	247.0	245.9	245.4	243.8	243.4	242.2	242.0
G47.0	242.6	242.4	241.3	241.0	239.3	238.7	237.5	237.5
G48.0	237.4	237.5	236.3	235.8	234.2	233.6	232.1	232.1
G49.0	232.8	232.7	231.3	231.0	229.2	228.5	227.4	227.1
G50.0	227.6	227.7	226.4	225.8	224.2	223.7	222.4	222.2
G51.0	222.0	222.0	220.8	220.2	218.5	217.9	216.5	216.4
G52.0	216.8	216.7	215.3	214.7	213.3	212.6	211.2	211.1
G53.0	210.5	211.1	209.3	209.3	207.0	206.9	205.0	205.8
G54.0	204.9	204.9	203.4	202.8	201.6	201.0	199.5	199.4
G55.0	198.8	199.1	197.7	197.1	196.0	195.0	193.6	193.7
G56.0	191.9	192.3	190.9	190.7	189.3	188.6	187.2	187.0
G57.0	185.8	186.2	185.0	184.5	183.0	182.7	180.9	181.1
G58.0	179.5	179.7	178.5	178.1	176.9	176.3	174.9	174.8
G59.0	172.3	172.7	171.5	171.4	170.0	169.5	168.0	168.1
G60.0	165.4	165.9	165.1	165.0	163.2	162.9	161.4	161.4
G61.0	157.8	159.3	157.6	158.3	156.0	156.4	154.3	155.1
G62.0	150.9	151.6	150.9	151.0	149.1	149.0	147.6	147.7
G63.0	143.7	144.7	143.8	144.0	142.3	142.3	141.0	141.1
G64.0	135.8	136.7	135.9	136.6	134.4	134.5	133.4	133.4
G65.0	128.8	129.5	129.0	129.3	127.3	127.3	126.2	126.6
G66.0	121.7	121.9	121.6	122.0	120.3	120.3	119.3	119.0
G67.0	113.5	113.8	113.8	114.3	112.3	111.3	110.0	110.1
G68.0	106.4	106.3	106.2	106.6	104.2	103.5	102.7	102.8
G69.0	98.2	98.9	97.8	98.1	96.0	95.9	94.5	95.4
G70.0	91.1	91.1	89.4	89.6	88.8	87.3	85.2	85.2
G71.0	83.7	83.4	82.4	82.3	79.1	77.5	76.5	77.0
G72.0	75.4	75.3	73.3	71.6	70.3	69.9	68.5	69.0
G73.0	68.0	67.5	64.3	64.0	62.6	62.8	61.7	62.2
G74.0	61.0	58.4	56.8	57.5	56.1	56.5	54.9	55.3
G75.0	50.1	50.6	49.2	49.7	48.5	49.0	47.5	48.2
G76.0	43.1	44.1	42.8	43.4	42.3	42.5	40.4	41.3
G77.0	35.1	36.7	36.1	35.8	34.4	34.8	33.5	34.4
G78.0	29.1	30.7	29.1	29.5	28.7	28.7	27.9	28.6
G79.0	23.2	23.1	23.5	23.6	23.3	23.0	21.9	22.6

Test Type : Type C Test Distance : 8.137 m C Plane (°): 0.0-360.0:5.0 (°) : 0.0-90.0:1.0
 Test Device : Lisun LSG-1700B Temperature : 21.3°C Humidity : 47.0%
 Test Lab : Light Lab TU-Gabrovo
 Test By : Eng. Ivaylo Stoyanov Review By :



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Light Distribution Data

Unit: cd/klm

G\C	C320.0	C325.0	C330.0	C335.0	C340.0	C345.0	C350.0	C355.0
G80.0	17.1	17.3	16.5	17.3	16.4	16.1	15.9	16.4
G81.0	12.7	12.8	11.5	12.0	11.4	11.6	11.3	11.8
G82.0	8.7	9.1	8.3	8.1	7.4	8.0	7.4	8.1
G83.0	6.5	6.3	5.9	5.5	5.1	5.2	5.0	5.2
G84.0	4.5	4.5	4.2	3.8	3.3	3.4	3.1	3.4
G85.0	2.8	2.8	2.6	2.4	2.1	2.0	2.1	2.1
G86.0	1.6	1.7	1.5	1.4	1.3	1.2	1.1	1.0
G87.0	0.7	0.7	0.7	0.6	0.5	0.4	0.4	0.3
G88.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
G89.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
G90.0	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.2