

Goniophotometers System Test Report

Product Info

Luminaire Category : LED Bulkhead Light

Luminaire : 4000K White

Lamp Category : SMD

Lamp : F9210

Manufacturer : FILUX

Submitter : HX-TB

Nuber of Lamps : 0

Lumens per Lamp : 0 lm

Luminous Length : 0 mm

Luminous Width : 0 mm

Luminous Height : 0 mm

Electric Parameters

Voltage : 229.98 V Current : 0.1469 A Power : 17.80 W Power Factor : 0.5270 Frequency : 50.00 Hz

Photometric Parameters

CIE Class : Direct

Measurement Flux : 1373.0 lm

Upward Ratio : 6.06 %

Maximum Intensity : 410.42 cd

Central Intensity : 410.28 cd

Luminaire Efficacy Rating (LER) : 77

Beam Angle (C0-C180,C90-C270) : 116.3 °, 116.5 °

Field Angle (C0-C180,C90-C270) : 182.6 °, 186.8 °

Total Rated Lamp Lumens : 1373.0 lm

Efficiency : 100.00 %

Downward Ratio : 93.94 %

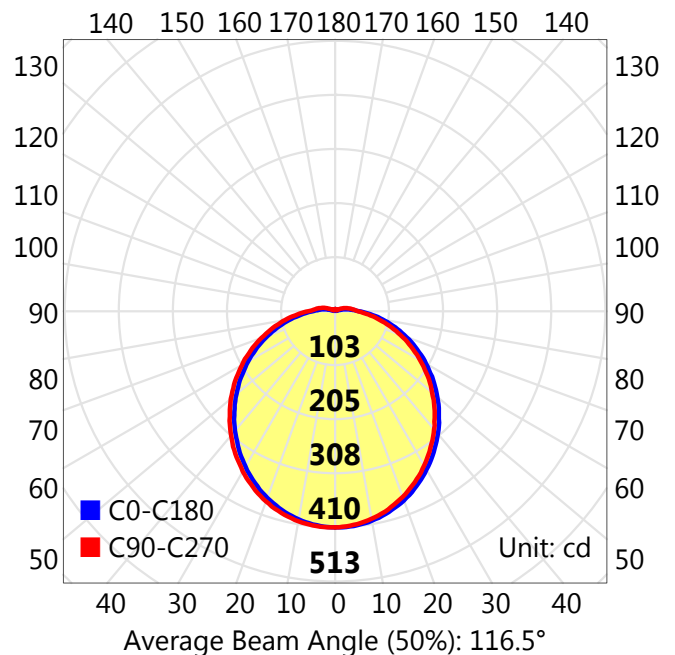
Position Of Maximum Intensity : C292.5° γ1°

S/MH(C0-C180,C90-C270) : 1.25, 1.25

Energy Efficiency Class : A (EU 874/2012 EEI:0.177)

Beam Angle (C45-C225,C135-C315) : 116.3 °, 116.5 °

Field Angle (C45-C225,C135-C315) : 184.1 °, 184.4 °



C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

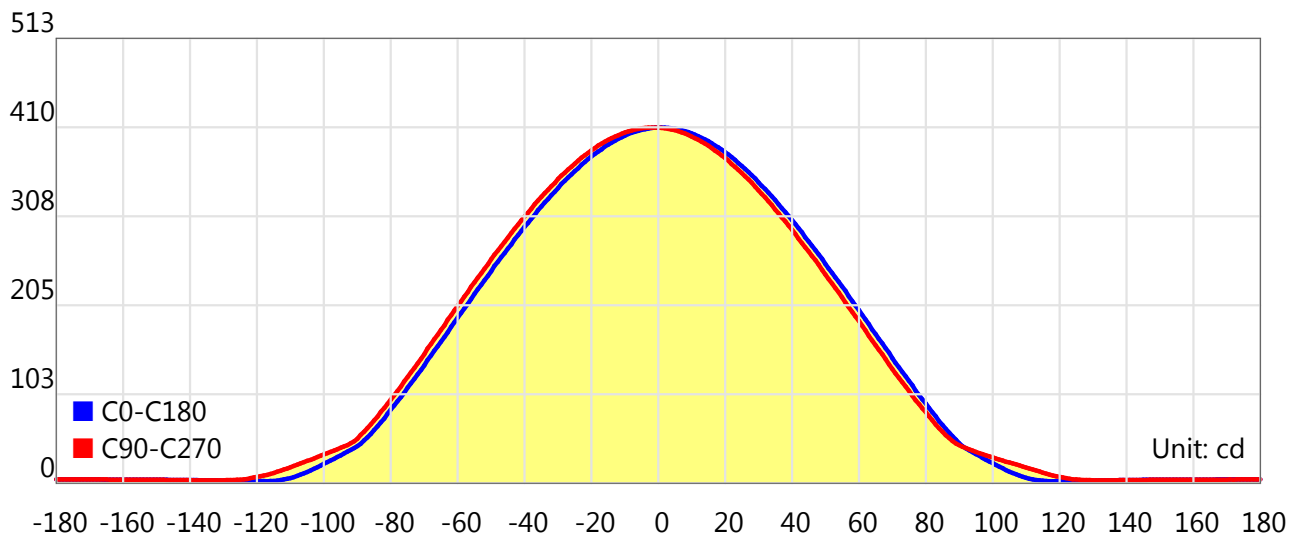
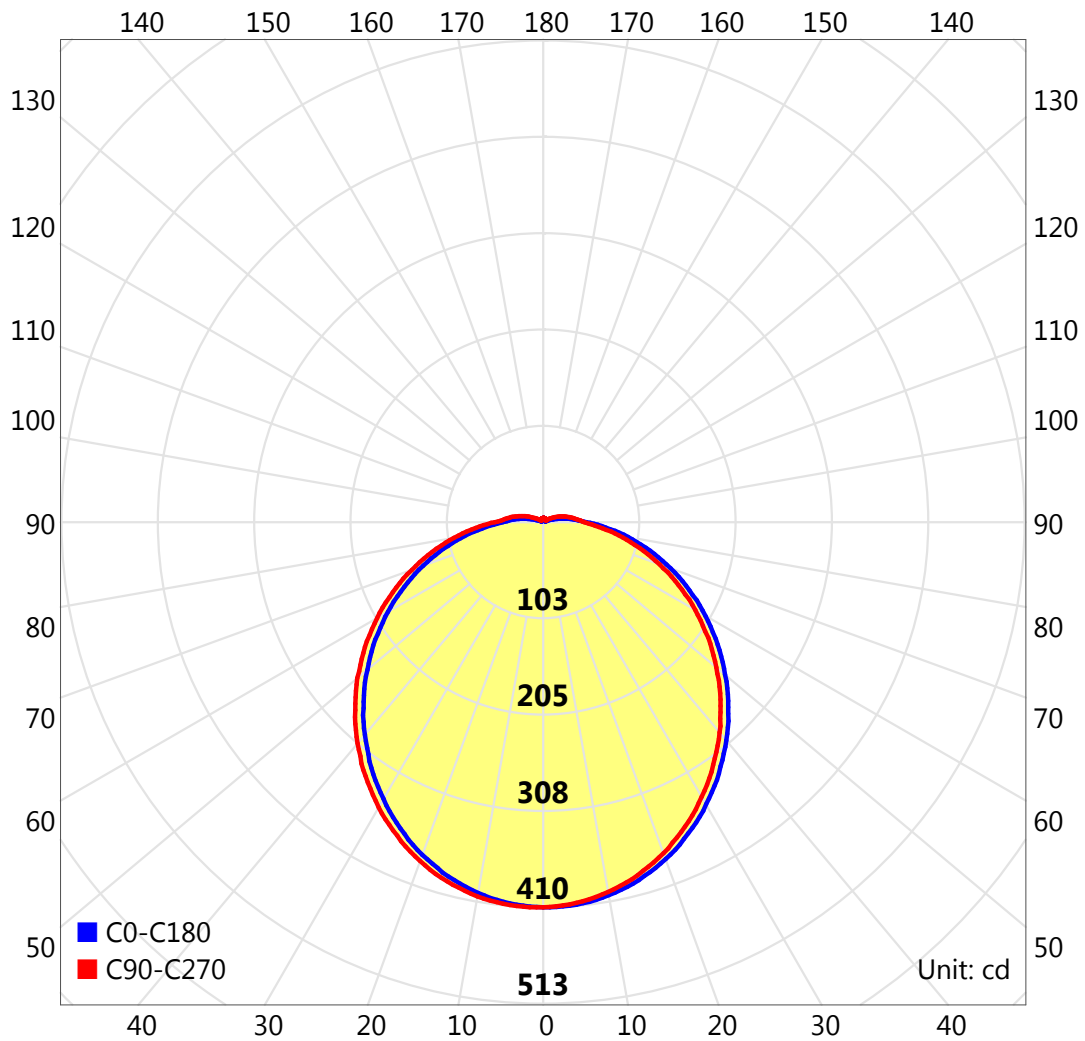
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

Light Distribution Curve



C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

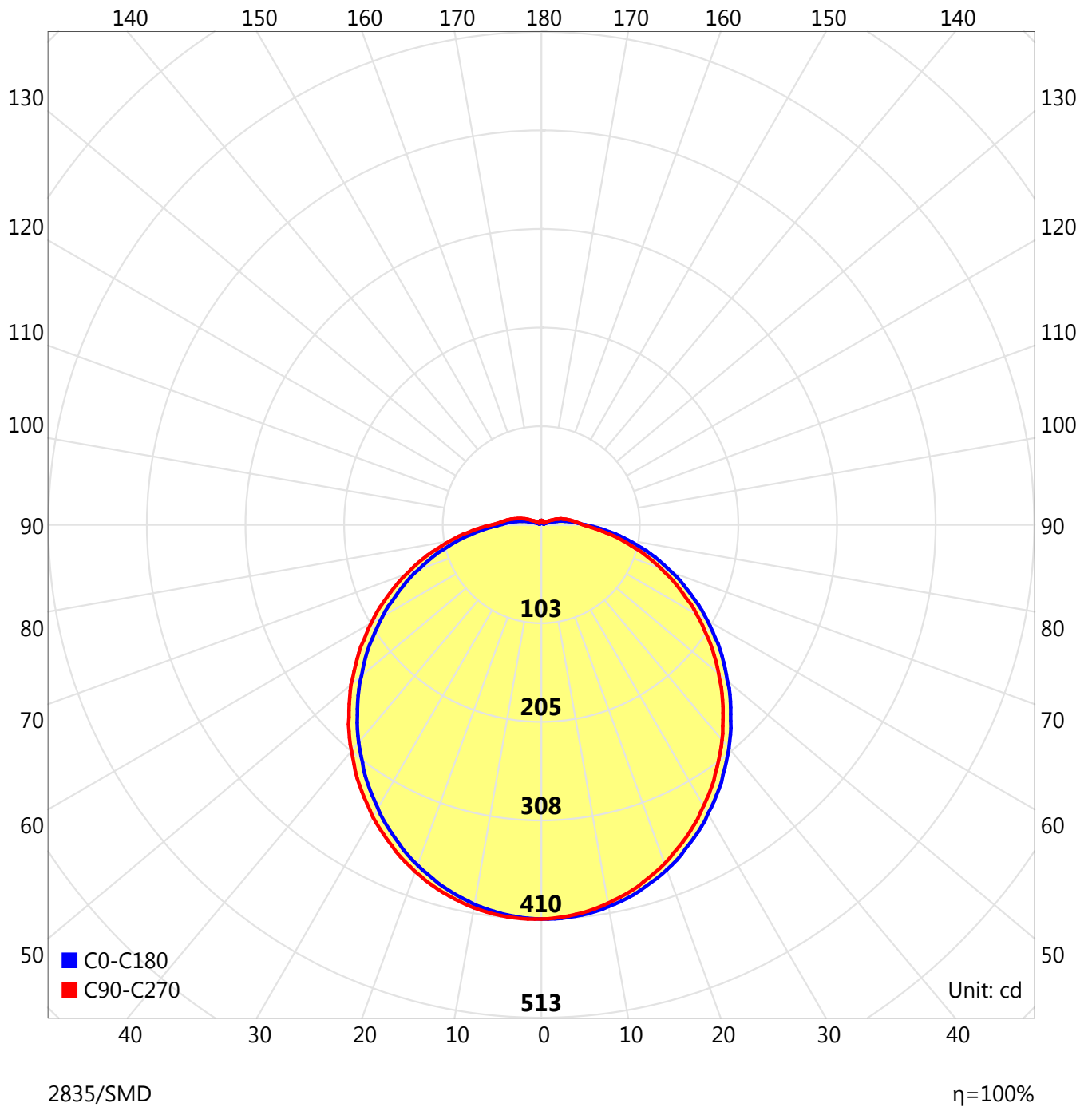
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Review By :TMI

Humidity : 65.0%

Light Distribution Curve (cd/klm)



C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

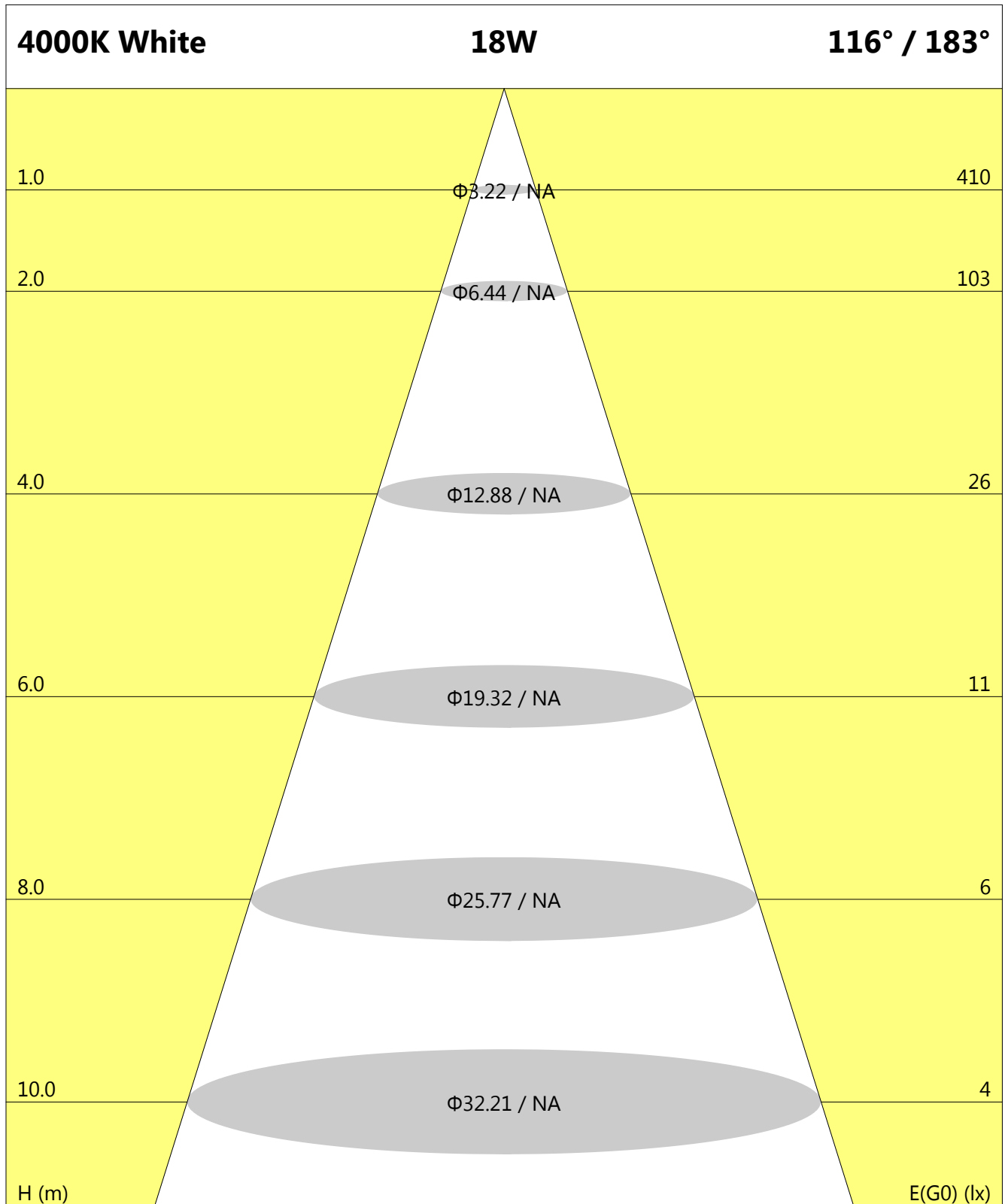
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Lux-Distance



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Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

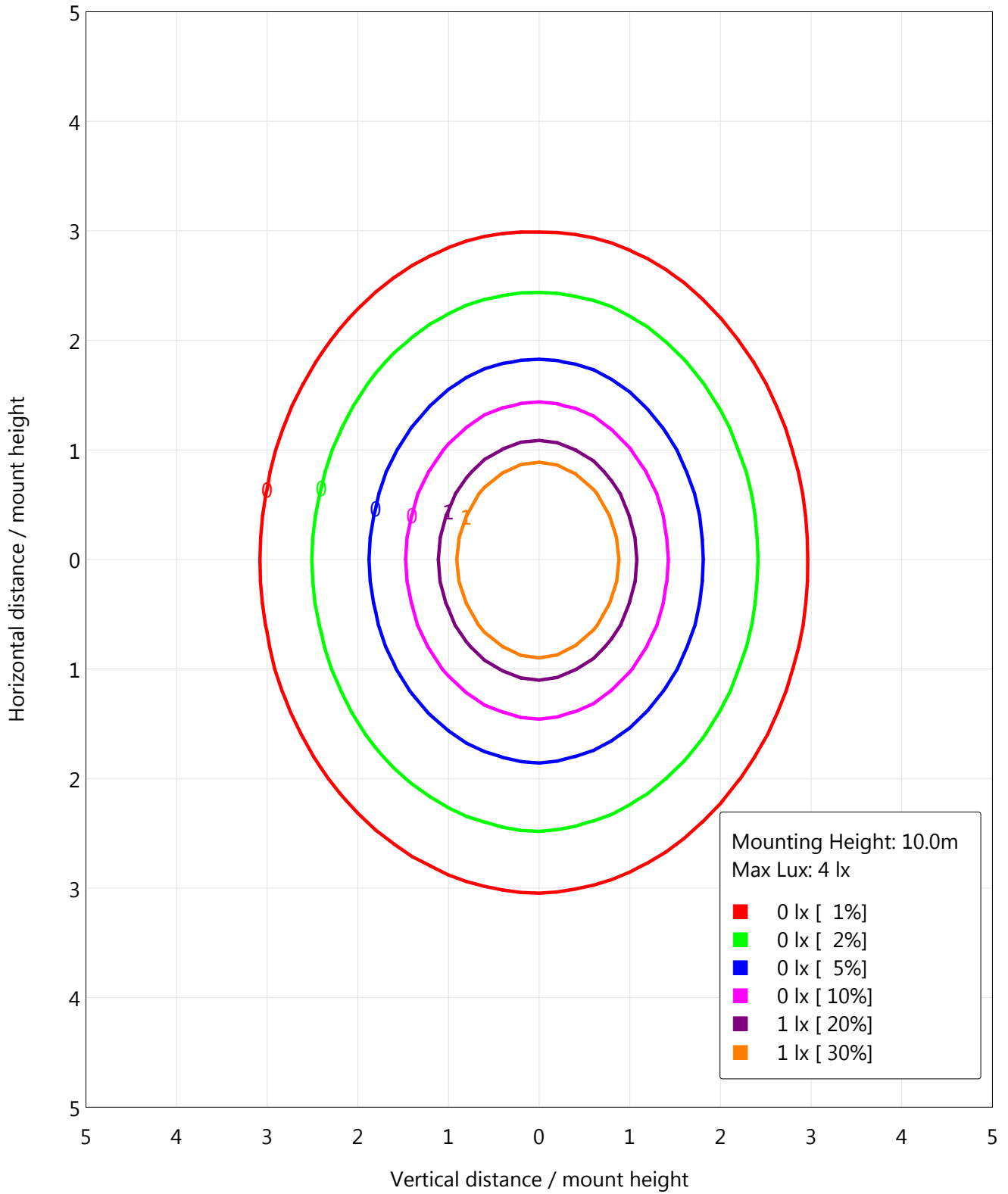
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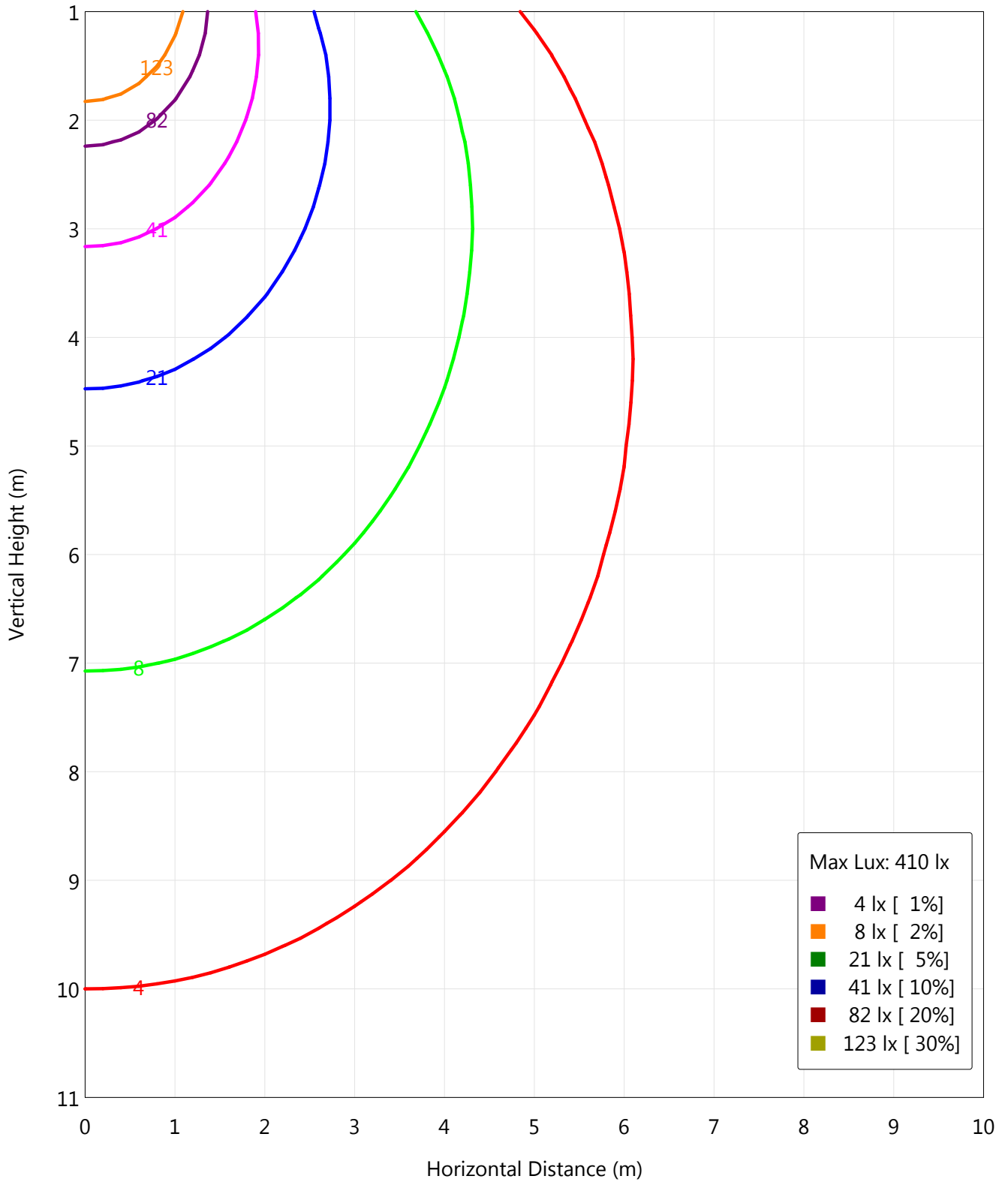
Humidity : 65.0%

Review By :TMI

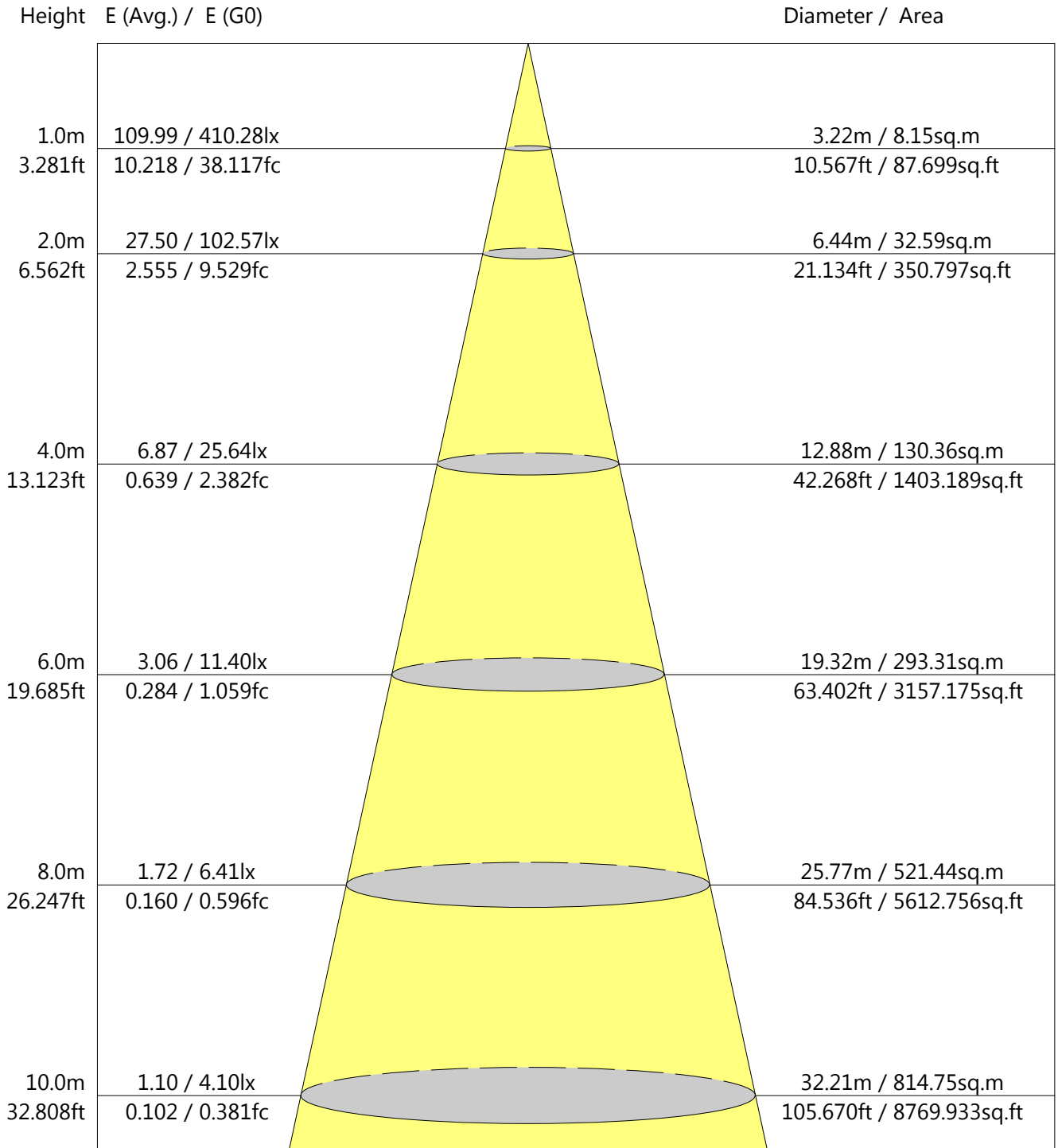
IsoLux



Vertical IsoLux Plot



Average Illuminance Effective Figure



Beam Angle: 116.3° Flux Out: 896.13lm

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

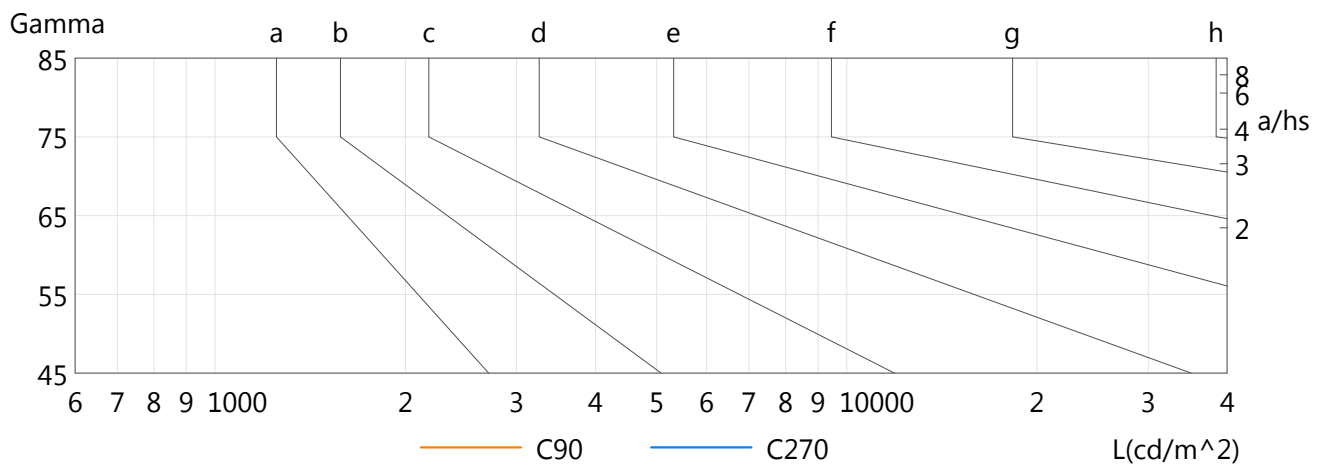
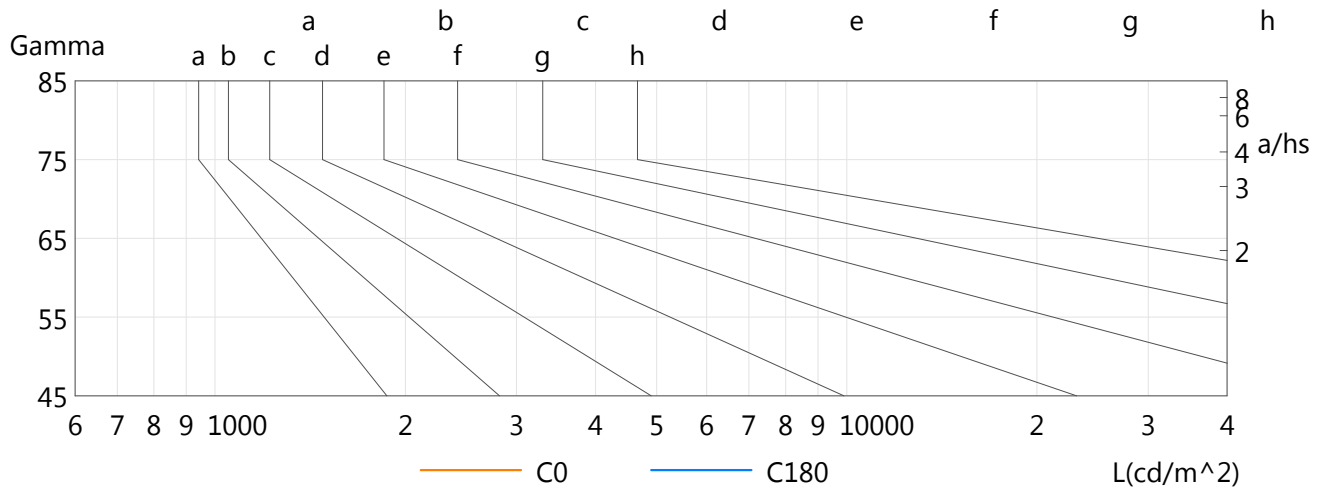
Review By :TMI

Humidity : 65.0%

Lumen Limit Curve

L (cd/m ²)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	279	253	227	200	172	144	118	92	67
C90	267	241	215	187	159	132	107	82	60
C270	271	245	219	191	163	136	110	85	61
C90	283	259	232	205	177	149	123	97	72

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



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Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C Humidity : 65.0%

Review By :TMI

TM5 UF Table

Utilisation Factors UF (F)			SHR NOM = 1.25								
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	0.52	0.62	0.69	0.74	0.82	0.87	0.90	0.95	0.99
	0.30		0.44	0.54	0.61	0.67	0.75	0.80	0.85	0.90	0.94
	0.20		0.38	0.48	0.55	0.61	0.69	0.75	0.80	0.86	0.91
0.50	0.50	0.20	0.50	0.59	0.66	0.71	0.78	0.82	0.86	0.90	0.93
	0.30		0.43	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90
	0.20		0.37	0.47	0.54	0.59	0.67	0.73	0.77	0.83	0.87
0.30	0.50	0.20	0.48	0.57	0.63	0.67	0.74	0.78	0.81	0.85	0.88
	0.30		0.41	0.50	0.57	0.62	0.69	0.74	0.77	0.82	0.85
	0.20		0.37	0.46	0.52	0.57	0.65	0.70	0.74	0.79	0.83
0.00	0.00	0.00	0.34	0.42	0.49	0.53	0.60	0.65	0.69	0.74	0.77

Utilisation Factors UF (W)			SHR NOM = 1.25								
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	1.03	0.87	0.75	0.66	0.54	0.45	0.39	0.31	0.26
	0.30		0.86	0.74	0.65	0.59	0.49	0.42	0.36	0.29	0.25
	0.20		0.74	0.65	0.58	0.53	0.44	0.38	0.34	0.28	0.23
0.50	0.50	0.20	0.99	0.83	0.71	0.63	0.51	0.46	0.37	0.29	0.25
	0.30		0.83	0.72	0.63	0.56	0.47	0.40	0.35	0.28	0.23
	0.20		0.72	0.63	0.56	0.51	0.43	0.37	0.33	0.27	0.23
0.30	0.50	0.20	0.95	0.79	0.68	0.60	0.48	0.41	0.35	0.28	0.23
	0.30		0.81	0.69	0.61	0.54	0.45	0.38	0.33	0.27	0.22
	0.20		0.71	0.62	0.55	0.49	0.42	0.36	0.32	0.26	0.22
0.00	0.00	0.00	0.60	0.52	0.46	0.41	0.34	0.29	0.25	0.21	0.17

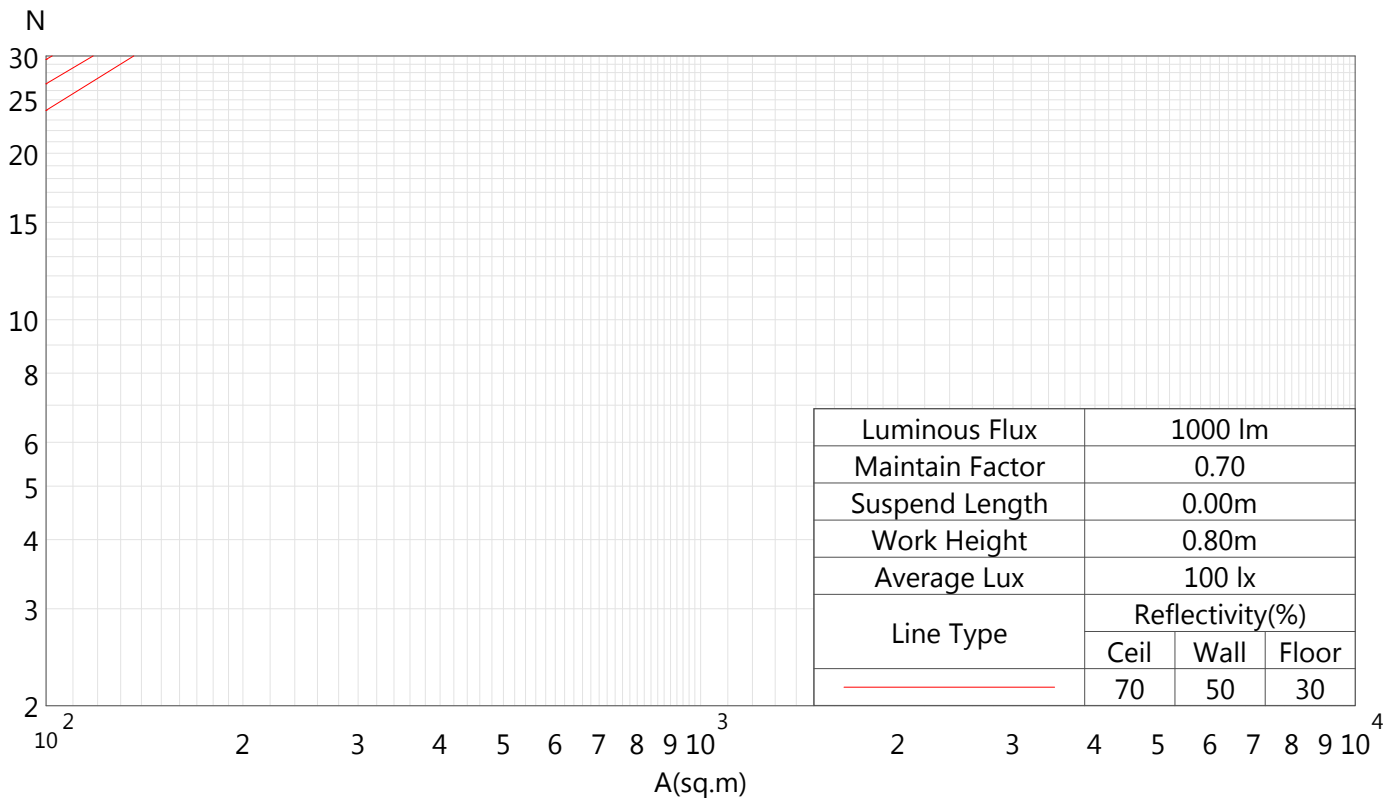
Utilisation Factors UF (C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.22	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28
	0.30		0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.24	0.25
	0.20		0.10	0.12	0.13	0.14	0.16	0.18	0.19	0.21	0.22
0.50	0.50	0.20	0.22	0.23	0.24	0.24	0.25	0.26	0.26	0.26	0.27
	0.30		0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24
	0.20		0.10	0.12	0.13	0.14	0.16	0.17	0.19	0.20	0.21
0.30	0.50	0.20	0.21	0.22	0.23	0.23	0.24	0.25	0.25	0.25	0.26
	0.30		0.15	0.16	0.17	0.18	0.20	0.21	0.21	0.22	0.23
	0.20		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.20	0.21
0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

Rating: 18W Photometrically tested without ceiling board.
 Multiply UF values by service correction factors
 Calculate in accordance with CIBSE Technical Memorandum No.5/1980

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	100	95	91	102	97	93	89	92	88	85	87	84	81	82	80	78	75
2	95	86	79	73	92	84	77	71	79	74	69	75	70	66	71	67	64	61
3	87	75	67	60	83	73	65	59	69	62	57	66	60	55	62	57	53	51
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	46	40	50	44	39	37
6	67	53	44	37	65	52	43	37	49	42	36	47	40	35	45	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	31	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	38	32	27	25
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	25	23
10	50	37	29	24	49	36	29	23	35	28	23	34	27	23	32	27	22	20

Spacing Criteria: 1.25 (0-180), 1.25 (90-270), 1.38 (Diagonal)



C Plane : 0.0-360.0:22.5

Gamma : 0.0-180.0:1.0

Test Lab : TB

Measurement System : GMS-5000 (E412011U)

Test Type : Type C

Test Distance : 5.751 m

Temperature : 25.0°C

Humidity : 65.0%

Test By : ZK

Review By :TMI

Zonal Flux

Gamma °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
0.0-1.0	410.2	0.4	0.4	0.03	0.03
1.0-2.0	410.1	1.2	1.6	0.09	0.11
2.0-3.0	409.8	2.0	3.5	0.14	0.26
3.0-4.0	409.3	2.7	6.3	0.20	0.46
4.0-5.0	408.6	3.5	9.8	0.26	0.71
5.0-6.0	407.8	4.3	14.1	0.31	1.02
6.0-7.0	406.9	5.1	19.1	0.37	1.39
7.0-8.0	405.8	5.8	24.9	0.42	1.82
8.0-9.0	404.5	6.6	31.5	0.48	2.29
9.0-10.0	403.1	7.3	38.8	0.53	2.82
10.0-11.0	401.5	8.0	46.8	0.58	3.41
11.0-12.0	399.7	8.7	55.5	0.64	4.05
12.0-13.0	397.8	9.4	65.0	0.69	4.73
13.0-14.0	395.8	10.1	75.1	0.74	5.47
14.0-15.0	393.7	10.8	85.9	0.79	6.26
15.0-16.0	391.4	11.5	97.4	0.84	7.09
16.0-17.0	389.0	12.1	109.5	0.88	7.98
17.0-18.0	386.4	12.7	122.3	0.93	8.90
18.0-19.0	383.7	13.4	135.6	0.97	9.88
19.0-20.0	380.9	13.9	149.6	1.02	10.89
20.0-21.0	378.0	14.5	164.1	1.06	11.95
21.0-22.0	374.9	15.1	179.1	1.10	13.05
22.0-23.0	371.7	15.6	194.7	1.14	14.18
23.0-24.0	368.4	16.1	210.9	1.17	15.36
24.0-25.0	365.0	16.6	227.4	1.21	16.57
25.0-26.0	361.4	17.1	244.5	1.24	17.81
26.0-27.0	357.8	17.5	262.0	1.28	19.08
27.0-28.0	354.1	17.9	279.9	1.31	20.39
28.0-29.0	350.2	18.3	298.3	1.33	21.72
29.0-30.0	346.3	18.7	317.0	1.36	23.09
30.0-31.0	342.2	19.0	336.0	1.39	24.47
31.0-32.0	338.1	19.4	355.4	1.41	25.88
32.0-33.0	333.9	19.7	375.1	1.43	27.32
33.0-34.0	329.6	20.0	395.0	1.45	28.77
34.0-35.0	325.2	20.2	415.2	1.47	30.24
35.0-36.0	320.8	20.4	435.6	1.49	31.73
36.0-37.0	316.3	20.6	456.3	1.50	33.23
37.0-38.0	311.6	20.8	477.1	1.51	34.75
38.0-39.0	306.9	21.0	498.0	1.53	36.27
39.0-40.0	302.3	21.1	519.1	1.54	37.81

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

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Zonal Flux

Gamma °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	297.5	21.2	540.3	1.54	39.35
41.0-42.0	292.6	21.3	561.6	1.55	40.90
42.0-43.0	287.7	21.3	582.9	1.55	42.45
43.0-44.0	282.8	21.3	604.2	1.55	44.01
44.0-45.0	277.7	21.3	625.6	1.55	45.56
45.0-46.0	272.6	21.3	646.9	1.55	47.11
46.0-47.0	267.5	21.3	668.2	1.55	48.66
47.0-48.0	262.4	21.2	689.4	1.55	50.21
48.0-49.0	257.3	21.1	710.5	1.54	51.75
49.0-50.0	252.0	21.0	731.5	1.53	53.28
50.0-51.0	246.8	20.9	752.4	1.52	54.80
51.0-52.0	241.5	20.7	773.1	1.51	56.31
52.0-53.0	236.2	20.5	793.7	1.50	57.80
53.0-54.0	230.8	20.3	814.0	1.48	59.29
54.0-55.0	225.5	20.1	834.2	1.47	60.75
55.0-56.0	220.1	19.9	854.0	1.45	62.20
56.0-57.0	214.7	19.6	873.7	1.43	63.63
57.0-58.0	209.2	19.3	893.0	1.41	65.04
58.0-59.0	203.8	19.1	912.1	1.39	66.43
59.0-60.0	198.3	18.7	930.8	1.36	67.79
60.0-61.0	192.8	18.4	949.2	1.34	69.13
61.0-62.0	187.4	18.1	967.3	1.32	70.45
62.0-63.0	181.9	17.7	985.0	1.29	71.74
63.0-64.0	176.3	17.3	1002.3	1.26	73.00
64.0-65.0	170.8	16.9	1019.2	1.23	74.23
65.0-66.0	165.4	16.5	1035.7	1.20	75.43
66.0-67.0	159.8	16.1	1051.8	1.17	76.60
67.0-68.0	154.4	15.6	1067.4	1.14	77.74
68.0-69.0	149.0	15.2	1082.6	1.11	78.85
69.0-70.0	143.4	14.7	1097.3	1.07	79.92
70.0-71.0	138.0	14.3	1111.6	1.04	80.96
71.0-72.0	132.7	13.8	1125.4	1.00	81.96
72.0-73.0	127.3	13.3	1138.7	0.97	82.93
73.0-74.0	122.0	12.8	1151.5	0.93	83.87
74.0-75.0	116.8	12.3	1163.9	0.90	84.77
75.0-76.0	111.5	11.8	1175.7	0.86	85.63
76.0-77.0	106.3	11.3	1187.0	0.83	86.45
77.0-78.0	101.2	10.8	1197.9	0.79	87.24
78.0-79.0	96.2	10.3	1208.2	0.75	88.00
79.0-80.0	91.2	9.8	1218.1	0.72	88.71

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80.0-81.0	86.3	9.3	1227.4	0.68	89.39
81.0-82.0	81.5	8.8	1236.2	0.64	90.03
82.0-83.0	76.7	8.3	1244.6	0.61	90.64
83.0-84.0	72.0	7.8	1252.4	0.57	91.21
84.0-85.0	67.4	7.4	1259.8	0.54	91.75
85.0-86.0	63.0	6.9	1266.7	0.50	92.25
86.0-87.0	58.7	6.4	1273.1	0.47	92.72
87.0-88.0	54.7	6.0	1279.1	0.44	93.16
88.0-89.0	51.0	5.6	1284.7	0.41	93.56
89.0-90.0	47.8	5.2	1289.9	0.38	93.94
90.0-91.0	44.9	4.9	1294.8	0.36	94.30
91.0-92.0	42.5	4.7	1299.5	0.34	94.64
92.0-93.0	40.4	4.4	1303.9	0.32	94.97
93.0-94.0	38.4	4.2	1308.1	0.31	95.27
94.0-95.0	36.6	4.0	1312.1	0.29	95.56
95.0-96.0	34.8	3.8	1315.9	0.28	95.84
96.0-97.0	33.0	3.6	1319.5	0.26	96.10
97.0-98.0	31.3	3.4	1322.9	0.25	96.35
98.0-99.0	29.7	3.2	1326.1	0.23	96.58
99.0-100.0	28.0	3.0	1329.2	0.22	96.80
100.0-101.0	26.4	2.8	1332.0	0.21	97.01
101.0-102.0	24.8	2.7	1334.7	0.19	97.21
102.0-103.0	23.3	2.5	1337.2	0.18	97.39
103.0-104.0	21.8	2.3	1339.5	0.17	97.56
104.0-105.0	20.4	2.2	1341.7	0.16	97.72
105.0-106.0	18.9	2.0	1343.7	0.15	97.86
106.0-107.0	17.6	1.8	1345.5	0.13	98.00
107.0-108.0	16.3	1.7	1347.2	0.12	98.12
108.0-109.0	15.0	1.6	1348.8	0.11	98.23
109.0-110.0	13.9	1.4	1350.2	0.10	98.34
110.0-111.0	12.8	1.3	1351.5	0.10	98.43
111.0-112.0	11.8	1.2	1352.7	0.09	98.52
112.0-113.0	10.9	1.1	1353.9	0.08	98.60
113.0-114.0	10.1	1.0	1354.9	0.07	98.68
114.0-115.0	9.4	0.9	1355.8	0.07	98.75
115.0-116.0	8.8	0.9	1356.7	0.06	98.81
116.0-117.0	8.2	0.8	1357.5	0.06	98.87
117.0-118.0	7.7	0.8	1358.2	0.05	98.92
118.0-119.0	7.3	0.7	1358.9	0.05	98.97
119.0-120.0	6.9	0.7	1359.6	0.05	99.02

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

Zonal Flux

Gamma °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
120.0-121.0	6.5	0.6	1360.2	0.04	99.06
121.0-122.0	6.1	0.6	1360.8	0.04	99.11
122.0-123.0	5.7	0.5	1361.3	0.04	99.15
123.0-124.0	5.4	0.5	1361.8	0.04	99.18
124.0-125.0	5.1	0.5	1362.3	0.03	99.21
125.0-126.0	4.9	0.4	1362.7	0.03	99.25
126.0-127.0	4.7	0.4	1363.1	0.03	99.28
127.0-128.0	4.5	0.4	1363.5	0.03	99.31
128.0-129.0	4.3	0.4	1363.9	0.03	99.33
129.0-130.0	4.2	0.4	1364.2	0.03	99.36
130.0-131.0	4.0	0.3	1364.6	0.02	99.38
131.0-132.0	3.9	0.3	1364.9	0.02	99.41
132.0-133.0	3.7	0.3	1365.2	0.02	99.43
133.0-134.0	3.7	0.3	1365.5	0.02	99.45
134.0-135.0	3.6	0.3	1365.7	0.02	99.47
135.0-136.0	3.6	0.3	1366.0	0.02	99.49
136.0-137.0	3.6	0.3	1366.3	0.02	99.51
137.0-138.0	3.6	0.3	1366.6	0.02	99.53
138.0-139.0	3.6	0.3	1366.8	0.02	99.55
139.0-140.0	3.6	0.3	1367.1	0.02	99.57
140.0-141.0	3.7	0.3	1367.3	0.02	99.58
141.0-142.0	3.7	0.3	1367.6	0.02	99.60
142.0-143.0	3.7	0.2	1367.8	0.02	99.62
143.0-144.0	3.8	0.2	1368.1	0.02	99.64
144.0-145.0	3.8	0.2	1368.3	0.02	99.66
145.0-146.0	3.8	0.2	1368.6	0.02	99.67
146.0-147.0	3.9	0.2	1368.8	0.02	99.69
147.0-148.0	3.9	0.2	1369.0	0.02	99.71
148.0-149.0	3.9	0.2	1369.2	0.02	99.72
149.0-150.0	3.9	0.2	1369.5	0.02	99.74
150.0-151.0	4.0	0.2	1369.7	0.02	99.76
151.0-152.0	4.0	0.2	1369.9	0.02	99.77
152.0-153.0	4.0	0.2	1370.1	0.01	99.79
153.0-154.0	4.1	0.2	1370.3	0.01	99.80
154.0-155.0	4.1	0.2	1370.5	0.01	99.81
155.0-156.0	4.1	0.2	1370.7	0.01	99.83
156.0-157.0	4.2	0.2	1370.9	0.01	99.84
157.0-158.0	4.2	0.2	1371.0	0.01	99.85
158.0-159.0	4.3	0.2	1371.2	0.01	99.87
159.0-160.0	4.3	0.2	1371.4	0.01	99.88

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

Zonal Flux

Gamma °	I _{mean} cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
160.0-161.0	4.3	0.2	1371.5	0.01	99.89
161.0-162.0	4.3	0.2	1371.7	0.01	99.90
162.0-163.0	4.3	0.1	1371.8	0.01	99.91
163.0-164.0	4.4	0.1	1372.0	0.01	99.92
164.0-165.0	4.4	0.1	1372.1	0.01	99.93
165.0-166.0	4.4	0.1	1372.2	0.01	99.94
166.0-167.0	4.4	0.1	1372.3	0.01	99.95
167.0-168.0	4.4	0.1	1372.4	0.01	99.96
168.0-169.0	4.4	0.1	1372.5	0.01	99.96
169.0-170.0	4.4	0.1	1372.6	0.01	99.97
170.0-171.0	4.5	0.1	1372.7	0.01	99.97
171.0-172.0	4.5	0.1	1372.8	0.01	99.98
172.0-173.0	4.5	0.1	1372.8	0.00	99.98
173.0-174.0	4.5	0.1	1372.9	0.00	99.99
174.0-175.0	4.5	0.0	1372.9	0.00	99.99
175.0-176.0	4.5	0.0	1373.0	0.00	99.99
176.0-177.0	4.5	0.0	1373.0	0.00	100.00
177.0-178.0	4.5	0.0	1373.0	0.00	100.00
178.0-179.0	4.5	0.0	1373.0	0.00	100.00
179.0-180.0	4.6	0.0	1373.0	0.00	100.00

Light Distribution Data

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G0.0	410.3	410.3	410.3	410.3	410.3	410.3	410.3	410.3
G1.0	410.4	410.2	410.1	410.0	410.0	410.0	410.0	410.1
G2.0	410.3	410.0	409.8	409.6	409.4	409.5	409.5	409.7
G3.0	410.0	409.6	409.2	409.1	408.8	408.9	408.9	409.2
G4.0	409.5	409.1	408.6	408.3	408.0	408.1	408.2	408.6
G5.0	409.0	408.4	407.8	407.5	407.1	407.0	407.3	407.6
G6.0	408.2	407.4	406.9	406.2	406.0	406.0	406.3	406.6
G7.0	407.4	406.4	405.8	405.1	404.8	404.7	405.0	405.5
G8.0	406.3	405.3	404.5	403.7	403.4	403.3	403.7	404.2
G9.0	405.2	404.0	403.1	402.2	401.6	401.8	401.9	402.7
G10.0	403.5	402.5	401.2	400.6	399.9	400.1	400.2	401.2
G11.0	402.0	400.9	399.5	398.8	398.1	398.3	398.4	399.1
G12.0	400.4	399.2	397.7	396.9	396.1	395.9	396.5	397.2
G13.0	398.6	396.9	395.7	394.4	394.0	393.8	394.5	395.2
G14.0	396.7	394.8	393.6	392.2	391.8	391.6	392.3	393.1
G15.0	394.6	392.7	391.3	389.9	389.4	389.2	389.5	390.8
G16.0	392.0	390.4	389.0	387.4	386.4	386.7	387.0	388.5
G17.0	389.7	388.0	386.0	384.8	383.8	384.1	384.4	385.9
G18.0	387.2	385.4	383.3	382.1	381.0	381.4	381.7	383.3
G19.0	384.6	382.8	380.6	379.3	378.2	377.9	378.9	379.9
G20.0	381.9	379.4	377.7	375.8	375.2	375.0	375.9	377.0
G21.0	379.1	376.5	374.7	372.7	372.1	371.8	372.9	374.0
G22.0	376.2	373.5	371.5	369.5	368.2	368.6	369.1	370.9
G23.0	373.1	370.3	367.7	366.2	364.9	365.3	365.8	367.6
G24.0	369.2	367.0	364.3	362.8	361.4	361.8	362.4	364.3
G25.0	365.9	363.6	360.8	359.3	357.9	357.6	358.8	360.1
G26.0	362.6	359.5	357.3	355.0	354.2	354.0	355.3	356.6
G27.0	359.0	355.8	353.6	351.2	350.5	350.2	351.5	352.9
G28.0	355.4	352.1	349.8	347.4	346.7	346.4	347.0	349.1
G29.0	351.7	348.4	346.0	343.5	341.9	342.5	343.0	345.3
G30.0	347.1	344.5	341.3	339.5	337.9	338.5	339.1	341.4
G31.0	343.2	340.5	337.2	335.5	333.8	334.4	335.0	337.3
G32.0	339.2	336.5	333.1	331.3	329.6	329.4	330.8	332.4
G33.0	335.2	331.5	328.9	326.2	325.3	325.1	326.6	328.2
G34.0	331.0	327.2	324.6	321.9	321.0	320.8	322.2	323.9
G35.0	326.8	323.0	320.3	317.5	315.7	316.4	317.0	319.6
G36.0	321.6	318.6	315.9	313.0	311.3	311.9	312.6	315.2
G37.0	317.2	314.1	310.5	308.5	306.7	307.4	308.0	310.7
G38.0	312.8	309.6	305.9	303.8	302.1	301.8	303.4	305.2
G39.0	308.2	305.1	301.3	298.3	297.4	297.1	298.8	300.6

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C Humidity : 65.0%

Review By :TMI

Light Distribution Data

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G40.0	303.6	299.5	296.6	293.6	292.7	292.4	294.1	295.9
G41.0	299.0	294.8	291.9	288.8	287.9	287.6	288.4	291.2
G42.0	294.3	290.0	287.1	283.9	282.1	282.8	283.6	286.4
G43.0	289.5	285.2	281.2	279.0	277.1	277.9	278.7	281.6
G44.0	283.7	280.3	276.3	274.1	272.2	273.0	273.8	276.7
G45.0	278.9	275.5	271.4	269.2	267.3	267.1	268.9	270.9
G46.0	274.0	269.5	266.5	263.2	262.3	262.1	263.9	265.9
G47.0	269.0	264.5	261.4	258.1	257.3	257.0	258.9	260.9
G48.0	264.0	259.5	256.4	253.0	252.1	251.9	253.9	255.9
G49.0	259.0	254.5	251.3	247.9	246.0	246.8	247.7	250.8
G50.0	253.0	249.4	245.2	242.8	240.9	241.7	242.7	245.7
G51.0	247.9	244.3	240.0	237.6	235.7	236.6	237.5	240.6
G52.0	242.7	239.1	234.8	232.4	230.5	230.3	232.3	234.4
G53.0	237.6	232.9	229.6	226.1	225.3	225.1	227.1	229.2
G54.0	232.4	227.6	224.4	220.9	220.0	219.8	221.9	224.0
G55.0	227.2	222.4	219.1	215.7	214.8	214.6	215.6	218.7
G56.0	222.0	217.2	213.9	210.4	208.5	209.3	210.4	213.5
G57.0	215.6	211.9	207.5	205.0	203.1	204.0	205.1	208.2
G58.0	210.3	206.6	202.1	199.7	197.8	198.7	199.7	202.9
G59.0	205.0	201.3	196.8	194.4	192.5	192.3	194.4	196.6
G60.0	199.8	194.9	191.5	188.0	187.2	187.0	189.1	191.3
G61.0	194.4	189.6	186.2	182.7	181.8	181.7	183.8	186.0
G62.0	189.1	184.2	180.8	177.3	176.4	176.4	178.5	180.6
G63.0	183.8	178.9	174.4	172.0	170.0	171.0	172.0	175.3
G64.0	177.4	173.5	169.0	166.6	164.7	165.7	166.7	170.0
G65.0	172.1	168.2	163.7	161.3	159.4	160.4	161.5	163.7
G66.0	166.7	162.9	158.4	155.0	154.1	154.1	156.2	158.4
G67.0	161.4	156.5	153.1	149.6	148.8	148.8	150.9	153.1
G68.0	156.0	151.2	147.8	144.4	143.5	143.5	145.6	147.8
G69.0	150.7	145.9	142.5	139.1	137.2	138.3	139.3	142.5
G70.0	144.4	140.6	136.2	133.9	132.1	133.1	134.1	137.3
G71.0	139.1	135.4	131.0	128.7	126.9	128.0	129.0	132.1
G72.0	133.8	130.2	125.8	123.6	121.8	121.8	123.8	125.9
G73.0	128.6	124.0	120.6	117.4	116.7	116.7	118.7	120.8
G74.0	123.4	118.8	115.6	112.4	111.6	111.7	113.7	115.7
G75.0	118.2	113.7	110.5	107.4	106.7	106.8	107.7	110.7
G76.0	113.1	108.7	104.6	102.5	100.8	101.9	102.8	105.7
G77.0	107.0	103.6	99.6	97.6	96.0	97.0	97.9	100.8
G78.0	101.9	98.6	94.8	92.8	91.2	92.2	93.1	95.9
G79.0	96.9	93.7	90.0	88.1	86.5	86.6	88.3	90.2

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

Light Distribution Data

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G80.0	92.0	87.9	85.3	82.5	81.9	82.0	83.7	85.5
G81.0	87.1	83.1	80.6	78.0	77.4	77.5	79.1	80.8
G82.0	82.2	78.3	76.0	73.5	73.0	73.0	74.6	76.2
G83.0	77.5	73.7	71.5	69.1	67.8	68.7	69.3	71.7
G84.0	71.9	69.2	66.3	64.9	63.6	64.5	65.1	67.3
G85.0	67.4	64.8	62.0	60.8	59.6	59.6	60.9	62.1
G86.0	62.9	60.5	57.9	55.9	55.7	55.6	56.8	57.9
G87.0	58.5	55.4	53.9	52.3	52.1	52.0	53.0	53.9
G88.0	54.3	51.5	50.3	49.0	49.0	49.0	49.7	50.3
G89.0	50.4	48.0	46.7	46.4	46.0	46.4	46.3	47.2
G90.0	46.2	45.0	44.2	44.2	43.9	44.2	44.0	44.5
G91.0	43.0	42.3	42.0	42.2	42.2	42.3	42.0	42.1
G92.0	40.3	40.0	40.1	40.6	40.7	40.3	40.1	39.6
G93.0	38.0	37.6	38.3	38.7	39.3	38.8	38.4	37.7
G94.0	35.9	35.7	36.6	37.2	37.9	37.2	36.7	35.8
G95.0	33.9	33.9	35.0	35.8	36.5	35.7	34.7	34.0
G96.0	31.8	32.1	33.0	34.4	34.9	34.2	33.0	32.1
G97.0	29.3	30.2	31.4	33.0	33.6	32.7	31.4	30.3
G98.0	27.3	28.5	29.9	31.6	32.4	31.3	29.8	28.5
G99.0	25.3	26.8	28.3	30.3	31.1	29.7	28.2	26.5
G100.0	23.3	24.8	26.9	28.8	29.9	28.4	26.7	24.8
G101.0	21.3	23.2	25.4	27.6	28.7	27.1	25.2	23.1
G102.0	19.4	21.6	23.9	26.4	27.5	25.8	23.4	21.5
G103.0	17.4	20.1	22.3	25.2	26.2	24.6	22.0	20.0
G104.0	15.2	18.6	20.9	24.1	25.1	23.3	20.6	18.4
G105.0	13.5	17.2	19.6	23.0	24.0	21.8	19.3	16.7
G106.0	11.9	15.5	18.4	21.7	23.0	20.6	18.0	15.3
G107.0	10.4	14.2	17.2	20.6	21.8	19.4	16.6	13.9
G108.0	9.0	12.9	16.0	19.5	20.7	18.3	15.2	12.5
G109.0	7.7	11.7	14.9	18.4	19.4	17.2	14.0	11.3
G110.0	6.4	10.5	14.0	17.3	18.2	16.2	12.8	10.0
G111.0	5.5	9.4	13.2	16.3	17.1	15.3	11.9	8.9
G112.0	4.7	8.3	12.4	15.2	16.0	14.3	11.2	7.6
G113.0	4.0	7.4	11.7	13.9	14.8	13.6	10.5	6.7
G114.0	3.5	6.7	11.0	12.8	13.7	12.8	10.0	5.9
G115.0	3.0	6.3	10.3	11.8	12.5	12.0	9.3	5.2
G116.0	2.7	6.0	9.6	10.9	11.2	11.3	8.8	4.7
G117.0	2.5	5.7	9.0	10.1	10.1	10.7	8.4	4.5
G118.0	2.6	5.5	8.4	9.4	9.1	9.9	8.0	4.2
G119.0	2.6	5.3	8.0	8.6	8.3	9.3	7.5	4.1

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C Humidity : 65.0%

Review By :TMI

Light Distribution Data

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G120.0	2.6	5.0	7.6	8.0	7.6	8.7	7.2	4.0
G121.0	2.7	4.8	7.2	7.4	6.9	8.1	6.8	3.9
G122.0	2.7	4.7	6.9	6.9	6.2	7.6	6.4	3.7
G123.0	2.8	4.5	6.5	6.3	5.2	7.1	6.1	3.6
G124.0	2.8	4.3	6.2	5.8	4.8	6.6	5.8	3.5
G125.0	2.9	4.2	5.9	5.4	4.5	6.1	5.5	3.4
G126.0	3.0	4.0	5.7	5.1	4.2	5.8	5.2	3.4
G127.0	3.0	3.9	5.4	4.8	4.0	5.5	4.9	3.3
G128.0	3.1	3.8	5.1	4.6	3.9	5.1	4.7	3.3
G129.0	3.2	3.7	4.8	4.4	3.8	4.8	4.5	3.3
G130.0	3.2	3.6	4.6	4.2	3.7	4.5	4.3	3.3
G131.0	3.3	3.5	4.4	4.0	3.6	4.2	4.1	3.3
G132.0	3.4	3.4	4.1	3.8	3.6	4.0	4.0	3.4
G133.0	3.4	3.4	4.0	3.7	3.6	3.8	3.8	3.4
G134.0	3.5	3.4	3.7	3.6	3.6	3.6	3.7	3.5
G135.0	3.5	3.4	3.6	3.5	3.6	3.5	3.7	3.5
G136.0	3.6	3.5	3.5	3.6	3.6	3.5	3.7	3.5
G137.0	3.6	3.5	3.6	3.6	3.7	3.6	3.7	3.6
G138.0	3.7	3.6	3.6	3.6	3.8	3.6	3.7	3.6
G139.0	3.8	3.6	3.6	3.7	3.8	3.6	3.7	3.6
G140.0	3.8	3.6	3.6	3.7	3.9	3.7	3.7	3.7
G141.0	3.9	3.7	3.6	3.7	3.9	3.7	3.7	3.7
G142.0	3.9	3.7	3.7	3.8	3.9	3.7	3.8	3.8
G143.0	4.0	3.7	3.7	3.9	3.9	3.8	3.8	3.8
G144.0	4.0	3.7	3.7	3.9	4.0	3.8	3.8	3.8
G145.0	4.1	3.8	3.7	4.0	4.0	3.8	3.8	3.9
G146.0	4.1	3.8	3.7	4.1	4.0	3.8	3.8	3.9
G147.0	4.1	3.8	3.7	4.1	4.1	3.8	3.8	4.0
G148.0	4.2	3.8	3.8	4.2	4.2	3.8	3.8	4.1
G149.0	4.2	3.8	3.8	4.2	4.2	3.8	3.8	4.2
G150.0	4.1	3.8	3.9	4.2	4.2	3.8	3.9	4.3
G151.0	4.2	3.9	3.9	4.3	4.2	3.9	3.9	4.3
G152.0	4.2	4.0	3.9	4.3	4.2	3.9	3.9	4.3
G153.0	4.2	4.0	4.0	4.3	4.2	3.9	3.9	4.3
G154.0	4.2	4.0	4.0	4.3	4.2	4.0	4.0	4.3
G155.0	4.2	4.1	4.1	4.3	4.3	4.0	4.1	4.3
G156.0	4.3	4.1	4.2	4.4	4.3	4.1	4.1	4.4
G157.0	4.3	4.2	4.3	4.4	4.4	4.2	4.1	4.4
G158.0	4.3	4.2	4.3	4.5	4.4	4.2	4.2	4.4
G159.0	4.3	4.3	4.4	4.5	4.4	4.2	4.2	4.4

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

Light Distribution Data

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G160.0	4.3	4.3	4.4	4.5	4.4	4.2	4.3	4.4
G161.0	4.3	4.3	4.4	4.5	4.4	4.3	4.3	4.4
G162.0	4.3	4.4	4.4	4.5	4.4	4.3	4.3	4.4
G163.0	4.3	4.4	4.4	4.6	4.4	4.3	4.3	4.4
G164.0	4.3	4.4	4.4	4.6	4.4	4.3	4.3	4.5
G165.0	4.4	4.4	4.4	4.6	4.4	4.3	4.3	4.4
G166.0	4.4	4.4	4.5	4.6	4.4	4.3	4.3	4.4
G167.0	4.4	4.4	4.5	4.6	4.4	4.3	4.4	4.4
G168.0	4.5	4.5	4.5	4.6	4.4	4.3	4.4	4.4
G169.0	4.5	4.5	4.5	4.6	4.4	4.4	4.4	4.4
G170.0	4.5	4.5	4.5	4.6	4.4	4.4	4.4	4.4
G171.0	4.5	4.5	4.5	4.6	4.4	4.4	4.4	4.4
G172.0	4.5	4.5	4.6	4.6	4.4	4.4	4.4	4.4
G173.0	4.5	4.5	4.6	4.6	4.4	4.4	4.5	4.5
G174.0	4.5	4.5	4.6	4.6	4.4	4.4	4.5	4.5
G175.0	4.5	4.5	4.6	4.6	4.5	4.5	4.5	4.5
G176.0	4.5	4.6	4.6	4.6	4.5	4.5	4.5	4.5
G177.0	4.5	4.5	4.6	4.6	4.5	4.5	4.5	4.5
G178.0	4.5	4.5	4.5	4.6	4.5	4.5	4.5	4.5
G179.0	4.5	4.6	4.5	4.6	4.5	4.5	4.5	4.5
G180.0	4.5	4.6	4.5	4.7	4.5	4.5	4.5	4.5

Light Distribution Data

Unit: cd

G\C	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G0.0	410.3	410.3	410.3	410.3	410.3	410.3	410.3	410.3
G1.0	410.1	410.2	410.3	410.4	410.4	410.4	410.4	410.4
G2.0	409.7	409.9	410.1	410.3	410.4	410.4	410.3	410.2
G3.0	409.2	409.5	409.8	410.1	410.3	410.3	410.1	409.9
G4.0	408.4	408.9	409.4	409.7	410.0	409.9	409.8	409.5
G5.0	407.6	408.2	408.7	409.2	409.4	409.5	409.3	408.9
G6.0	406.6	407.3	407.9	408.6	408.7	408.8	408.5	408.2
G7.0	405.4	406.3	407.0	407.7	408.0	408.1	407.7	407.3
G8.0	404.2	404.9	405.9	406.8	407.1	407.2	406.7	406.3
G9.0	402.7	403.5	404.6	405.4	406.0	405.9	405.6	405.1
G10.0	401.1	402.1	403.3	404.1	404.7	404.6	404.4	403.5
G11.0	399.1	400.4	401.5	402.7	403.4	403.2	402.9	401.9
G12.0	397.2	398.7	399.8	401.1	401.5	401.7	401.0	400.3
G13.0	395.2	396.8	398.0	399.3	399.9	400.0	399.3	398.5
G14.0	393.0	394.3	396.0	397.5	398.1	398.2	397.5	396.6
G15.0	390.8	392.1	394.0	395.1	396.1	396.3	395.5	394.6
G16.0	388.4	389.8	391.8	393.0	394.0	393.8	393.4	392.0
G17.0	385.3	387.3	389.4	390.7	391.8	391.6	391.1	389.6
G18.0	382.6	384.8	386.4	388.3	389.5	389.2	388.7	387.2
G19.0	379.8	382.1	383.9	385.9	386.5	386.8	385.8	384.6
G20.0	376.9	379.3	381.1	383.2	383.9	384.2	383.1	381.9
G21.0	373.9	375.8	378.3	379.9	381.2	381.4	380.4	379.1
G22.0	370.8	372.7	375.3	377.0	378.4	378.1	377.5	376.1
G23.0	367.5	369.5	372.3	374.0	375.4	375.1	374.5	372.4
G24.0	363.5	366.3	369.1	370.9	372.4	372.0	371.4	369.2
G25.0	360.0	362.9	365.1	367.7	368.6	368.8	367.5	366.0
G26.0	356.4	359.4	361.7	364.3	365.2	365.5	364.1	362.6
G27.0	352.7	355.8	358.2	360.9	361.8	362.1	360.7	359.1
G28.0	349.0	351.4	354.6	356.6	358.3	358.6	357.1	355.5
G29.0	345.1	347.6	350.9	353.0	354.7	354.3	353.5	351.0
G30.0	340.4	343.8	347.1	349.3	351.0	350.6	349.7	347.2
G31.0	336.4	339.8	342.4	345.4	346.4	346.7	345.9	343.3
G32.0	332.2	335.7	338.4	341.5	342.6	342.9	341.2	339.4
G33.0	328.0	331.6	334.3	337.5	338.6	338.8	337.2	335.3
G34.0	323.8	326.5	330.2	333.4	334.5	334.8	333.1	331.2
G35.0	319.4	322.3	326.0	328.5	330.4	329.9	328.9	326.1
G36.0	315.0	317.9	321.7	324.2	326.1	325.6	324.6	321.8
G37.0	309.6	313.4	316.5	319.9	321.8	321.3	320.3	317.4
G38.0	305.0	308.9	312.0	315.4	316.6	316.9	315.0	312.9
G39.0	300.4	304.4	307.5	311.0	312.1	312.5	310.5	308.4

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

Light Distribution Data

Unit: cd

G\C	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G40.0	295.8	299.8	303.0	306.5	307.7	308.0	306.0	303.8
G41.0	291.0	294.1	298.3	300.9	303.1	302.5	301.4	299.2
G42.0	286.2	289.4	293.6	296.3	298.4	297.8	296.7	293.5
G43.0	281.4	284.6	288.8	291.5	293.7	293.1	292.0	288.7
G44.0	275.6	279.8	283.1	286.8	289.0	288.3	287.2	284.0
G45.0	270.7	274.9	278.3	282.0	283.2	283.5	281.5	279.2
G46.0	265.7	269.0	273.4	277.1	278.4	278.7	276.6	274.2
G47.0	260.7	264.1	268.4	271.2	273.5	272.8	271.7	269.3
G48.0	255.7	259.1	263.4	266.3	268.5	267.9	266.7	263.3
G49.0	250.6	254.0	258.5	261.3	263.6	262.9	261.7	258.3
G50.0	244.5	249.0	252.4	256.3	258.6	257.9	256.7	253.3
G51.0	239.4	243.9	247.4	251.3	252.5	252.9	250.7	248.2
G52.0	234.2	238.7	242.2	246.1	247.4	247.7	245.5	243.0
G53.0	229.0	232.5	237.1	241.0	242.3	242.6	240.4	237.9
G54.0	223.8	227.3	231.9	234.8	237.2	237.5	235.2	232.7
G55.0	218.6	222.1	226.7	229.7	232.0	231.3	230.1	226.5
G56.0	212.3	216.9	221.5	224.4	226.8	226.0	224.8	221.2
G57.0	207.0	211.6	215.1	219.2	220.5	220.8	219.6	216.0
G58.0	201.7	206.3	209.8	213.9	215.2	215.5	213.3	210.7
G59.0	196.5	201.0	204.6	208.6	210.0	210.2	208.0	205.4
G60.0	191.2	194.7	199.3	202.2	204.7	204.9	202.7	200.1
G61.0	185.9	189.3	193.9	196.9	199.3	198.5	197.4	194.8
G62.0	180.5	183.9	188.6	191.5	194.0	193.1	192.0	188.3
G63.0	174.1	178.6	182.1	186.2	188.6	187.8	186.7	183.0
G64.0	168.8	173.3	176.8	180.8	182.2	182.5	180.3	177.7
G65.0	163.5	168.0	171.5	175.5	176.9	177.1	175.0	172.3
G66.0	158.2	161.6	166.1	170.1	171.5	171.7	169.6	167.0
G67.0	152.9	156.2	160.7	163.6	166.1	165.3	164.2	161.6
G68.0	147.6	150.9	155.4	158.3	160.8	159.9	158.9	155.2
G69.0	142.3	145.6	150.1	153.0	155.4	154.6	153.6	149.9
G70.0	136.0	140.4	143.7	147.7	149.1	149.3	147.2	144.6
G71.0	130.8	135.1	138.4	142.3	143.7	144.0	141.9	139.3
G72.0	125.6	129.9	133.2	137.1	138.4	138.7	136.6	134.0
G73.0	120.5	123.6	127.9	131.8	133.2	133.5	131.3	128.7
G74.0	115.4	118.5	122.8	125.6	128.0	127.3	126.1	123.5
G75.0	110.4	113.4	117.6	120.4	122.8	122.1	120.9	117.3
G76.0	104.4	108.4	111.5	115.3	117.6	116.9	115.7	112.1
G77.0	99.5	103.3	106.4	110.2	111.5	111.8	110.5	107.0
G78.0	94.6	98.4	101.4	105.1	106.5	106.7	104.5	101.9
G79.0	89.8	92.5	96.5	100.2	101.5	101.7	99.5	96.9

C Plane : 0.0-360.0:22.5

Gamma : 0.0-180.0:1.0

Test Lab : TB

Measurement System : GMS-5000 (E412011U)

Test Type : Type C

Test Distance : 5.751 m

Temperature : 25.0°C

Humidity : 65.0%

Test By : ZK

Review By :TMI

Light Distribution Data

Unit: cd

G\C	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G80.0	85.0	87.7	91.7	94.4	96.6	95.8	94.6	92.0
G81.0	80.3	82.9	86.8	89.5	91.8	91.0	89.7	86.1
G82.0	74.7	78.2	82.0	84.8	87.0	86.2	84.8	81.2
G83.0	70.2	73.5	76.5	80.1	82.3	81.5	80.1	76.5
G84.0	65.7	69.0	71.9	75.5	76.9	76.9	74.5	71.9
G85.0	61.4	63.7	67.5	71.1	72.4	72.3	69.9	67.4
G86.0	57.1	59.4	63.1	65.8	68.0	67.0	65.5	62.9
G87.0	53.1	55.3	58.9	61.5	63.7	62.7	61.1	57.6
G88.0	49.5	51.5	54.9	57.5	59.6	58.6	56.9	53.5
G89.0	45.7	48.0	50.5	53.7	55.7	54.7	53.0	49.8
G90.0	43.1	45.0	47.2	50.3	51.6	51.2	48.8	46.3
G91.0	40.7	42.4	44.4	47.3	48.7	48.1	45.7	43.2
G92.0	38.6	39.8	42.2	44.9	46.2	45.1	43.0	40.6
G93.0	36.6	37.9	40.3	42.6	44.3	42.0	40.8	38.3
G94.0	34.6	36.0	38.5	40.9	42.6	39.8	38.9	35.9
G95.0	32.3	34.1	36.4	39.3	41.1	37.6	37.1	33.9
G96.0	30.3	32.3	34.7	37.8	39.3	35.4	34.9	32.0
G97.0	28.4	30.5	33.0	36.2	37.8	33.4	33.2	30.2
G98.0	26.5	28.4	31.2	34.7	36.4	31.6	31.5	28.3
G99.0	24.6	26.7	29.6	32.9	35.0	29.8	29.9	26.6
G100.0	22.7	25.0	27.9	31.3	33.6	28.5	28.3	24.5
G101.0	20.4	23.4	26.0	29.7	32.1	27.3	26.6	22.7
G102.0	18.5	21.8	24.5	28.2	30.6	26.1	25.1	21.1
G103.0	16.7	20.2	22.9	26.7	28.8	25.0	23.3	19.5
G104.0	14.9	18.4	21.4	25.2	27.3	23.9	21.8	18.0
G105.0	13.2	16.9	20.0	23.5	25.9	22.7	20.4	16.4
G106.0	11.6	15.5	18.6	22.1	24.4	21.7	19.0	14.7
G107.0	10.1	14.1	17.3	20.7	23.0	20.7	17.6	13.3
G108.0	8.5	12.8	15.9	19.3	21.6	19.8	16.3	11.9
G109.0	7.3	11.5	15.0	18.0	20.0	18.9	15.0	10.6
G110.0	6.3	10.3	14.1	16.7	18.7	18.1	14.2	9.4
G111.0	5.4	9.1	13.3	15.5	17.3	17.2	13.4	8.3
G112.0	4.6	8.2	12.6	14.3	16.0	16.3	12.7	7.5
G113.0	3.9	7.5	11.9	13.5	14.6	15.6	12.1	6.6
G114.0	3.3	6.9	11.1	12.7	13.4	14.9	11.5	6.0
G115.0	2.9	6.6	10.5	11.9	11.9	14.1	10.8	5.6
G116.0	2.6	6.2	10.0	11.2	10.9	13.5	10.2	5.4
G117.0	2.6	5.9	9.5	10.6	9.9	12.8	9.7	5.2
G118.0	2.6	5.7	9.1	9.8	9.1	12.1	9.2	5.0
G119.0	2.6	5.4	8.6	9.2	8.3	11.5	8.8	4.8

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

Light Distribution Data

Unit: cd

G\C	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G120.0	2.6	5.2	8.2	8.6	7.6	10.9	8.3	4.6
G121.0	2.7	5.0	7.8	8.0	6.9	10.3	7.9	4.4
G122.0	2.7	4.8	7.4	7.5	6.1	9.8	7.4	4.3
G123.0	2.8	4.6	7.1	7.0	4.9	9.2	7.0	4.1
G124.0	2.8	4.4	6.7	6.5	4.6	8.6	6.7	3.9
G125.0	2.9	4.2	6.4	6.2	4.4	8.1	6.3	3.8
G126.0	3.0	4.1	6.0	5.8	4.2	7.6	6.0	3.7
G127.0	3.1	3.9	5.7	5.5	4.0	7.1	5.7	3.6
G128.0	3.1	3.8	5.4	5.2	3.9	6.6	5.3	3.5
G129.0	3.2	3.7	5.1	4.9	3.8	6.1	5.0	3.5
G130.0	3.2	3.6	4.8	4.7	3.6	5.7	4.8	3.4
G131.0	3.3	3.5	4.5	4.4	3.6	5.2	4.5	3.4
G132.0	3.4	3.4	4.3	4.2	3.5	4.8	4.3	3.3
G133.0	3.4	3.4	4.1	4.0	3.5	4.4	4.1	3.3
G134.0	3.5	3.4	3.8	3.8	3.5	4.1	3.9	3.3
G135.0	3.5	3.4	3.6	3.6	3.5	3.8	3.7	3.4
G136.0	3.6	3.4	3.5	3.5	3.5	3.6	3.6	3.4
G137.0	3.6	3.5	3.5	3.4	3.6	3.5	3.5	3.4
G138.0	3.7	3.5	3.5	3.5	3.6	3.5	3.5	3.5
G139.0	3.8	3.6	3.6	3.5	3.7	3.5	3.6	3.5
G140.0	3.8	3.6	3.6	3.5	3.7	3.5	3.6	3.5
G141.0	3.8	3.6	3.6	3.5	3.8	3.5	3.6	3.6
G142.0	3.8	3.7	3.6	3.6	3.8	3.6	3.6	3.6
G143.0	3.9	3.7	3.6	3.6	3.9	3.6	3.5	3.6
G144.0	3.9	3.7	3.6	3.6	3.9	3.6	3.5	3.7
G145.0	4.0	3.7	3.5	3.6	4.0	3.7	3.5	3.7
G146.0	4.0	3.8	3.6	3.7	4.0	3.7	3.6	3.8
G147.0	4.1	3.8	3.6	3.7	4.0	3.7	3.6	3.8
G148.0	4.1	3.8	3.6	3.7	4.1	3.8	3.7	3.9
G149.0	4.2	3.8	3.7	3.8	4.1	3.8	3.7	3.9
G150.0	4.2	3.9	3.7	3.8	4.1	3.8	3.7	4.0
G151.0	4.1	3.9	3.7	3.9	4.1	3.9	3.8	4.0
G152.0	4.1	3.9	3.8	3.9	4.1	3.9	3.8	4.1
G153.0	4.2	4.0	3.8	4.0	4.1	4.0	3.8	4.1
G154.0	4.2	4.1	3.9	4.0	4.1	4.0	3.9	4.1
G155.0	4.2	4.1	3.9	4.0	4.2	4.1	3.9	4.1
G156.0	4.3	4.1	4.0	4.0	4.2	4.1	4.0	4.2
G157.0	4.3	4.2	4.0	4.1	4.3	4.2	4.0	4.2
G158.0	4.3	4.2	4.1	4.1	4.3	4.2	4.1	4.2
G159.0	4.3	4.2	4.1	4.2	4.4	4.3	4.1	4.3

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C Humidity : 65.0%

Review By :TMI

Light Distribution Data

Unit: cd

G\C	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G160.0	4.4	4.2	4.1	4.2	4.4	4.3	4.2	4.3
G161.0	4.4	4.3	4.2	4.3	4.4	4.3	4.2	4.3
G162.0	4.4	4.3	4.2	4.3	4.4	4.3	4.2	4.3
G163.0	4.4	4.3	4.2	4.3	4.4	4.4	4.2	4.3
G164.0	4.4	4.3	4.3	4.3	4.4	4.4	4.3	4.4
G165.0	4.4	4.4	4.3	4.4	4.4	4.4	4.3	4.4
G166.0	4.4	4.4	4.3	4.4	4.5	4.4	4.3	4.4
G167.0	4.4	4.4	4.4	4.4	4.5	4.4	4.4	4.4
G168.0	4.5	4.4	4.4	4.4	4.5	4.4	4.4	4.4
G169.0	4.5	4.4	4.4	4.4	4.5	4.4	4.4	4.4
G170.0	4.5	4.4	4.4	4.5	4.6	4.4	4.4	4.4
G171.0	4.5	4.4	4.4	4.5	4.6	4.5	4.4	4.5
G172.0	4.6	4.5	4.5	4.5	4.6	4.5	4.4	4.5
G173.0	4.6	4.5	4.5	4.5	4.6	4.5	4.5	4.5
G174.0	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5
G175.0	4.6	4.5	4.5	4.6	4.6	4.5	4.5	4.5
G176.0	4.6	4.5	4.5	4.6	4.6	4.5	4.5	4.5
G177.0	4.6	4.5	4.6	4.6	4.6	4.5	4.5	4.5
G178.0	4.6	4.5	4.6	4.6	4.6	4.5	4.5	4.5
G179.0	4.6	4.5	4.6	4.6	4.6	4.5	4.6	4.5
G180.0	4.6	4.5	4.6	4.6	4.7	4.5	4.5	4.5