

Goniophotometers System Test Report

Product Info

Luminaire Category : LED Bulkhead Light

Luminaire : 4000K White

Lamp Category : SMD

Lamp : F9096

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 : 0.0901 A Power : 11.10 W Power Factor : 0.5360 Frequency : 50.00 Hz

Photometric Parameters

CIE Class : Direct

Measurement Flux : 818.6 lm

Upward Ratio : 6.21 %

Maximum Intensity : 255.66 cd

Central Intensity : 255.62 cd

Luminaire Efficacy Rating (LER) : 74

Beam Angle (C0-C180,C90-C270) : 103.5 °, 124.5 °

Field Angle (C0-C180,C90-C270) : 155.3 °, 198.5 °

Total Rated Lamp Lumens : 818.6 lm

Efficiency : 100.00 %

Downward Ratio : 93.79 %

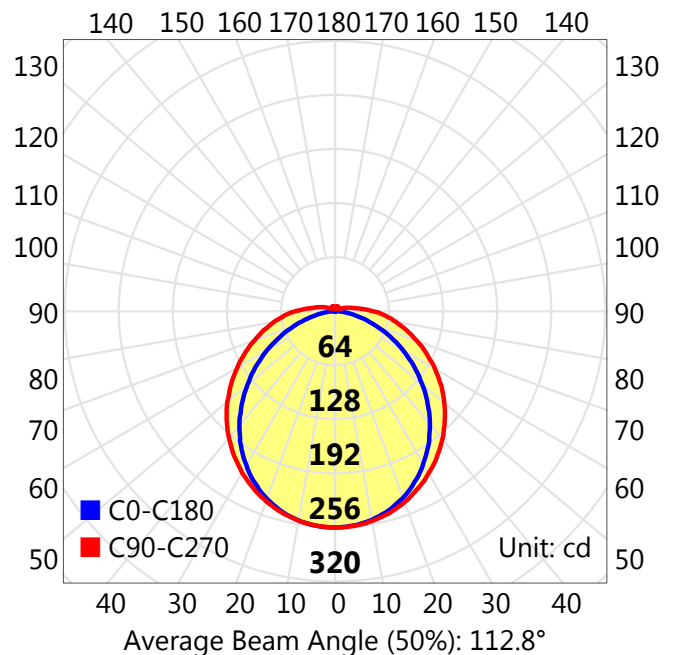
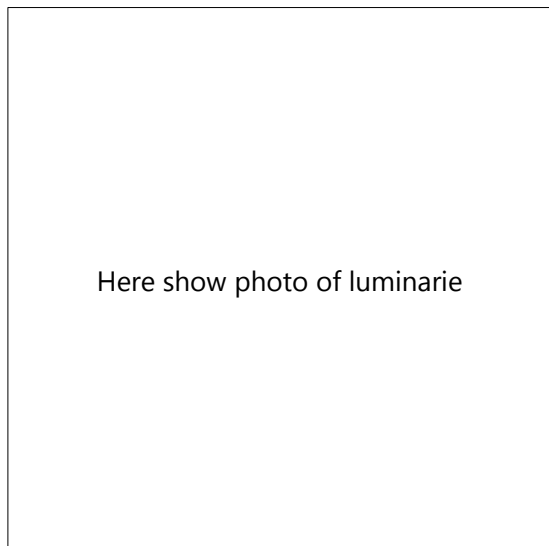
Position Of Maximum Intensity : C157.5° γ1°

S/MH(C0-C180,C90-C270) : 1.22, 1.29

Energy Efficiency Class : A (EU 874/2012 EEI:0.170)

Beam Angle (C45-C225,C135-C315) : 112.6 °, 111.3 °

Field Angle (C45-C225,C135-C315) : 179.4 °, 176.6 °



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

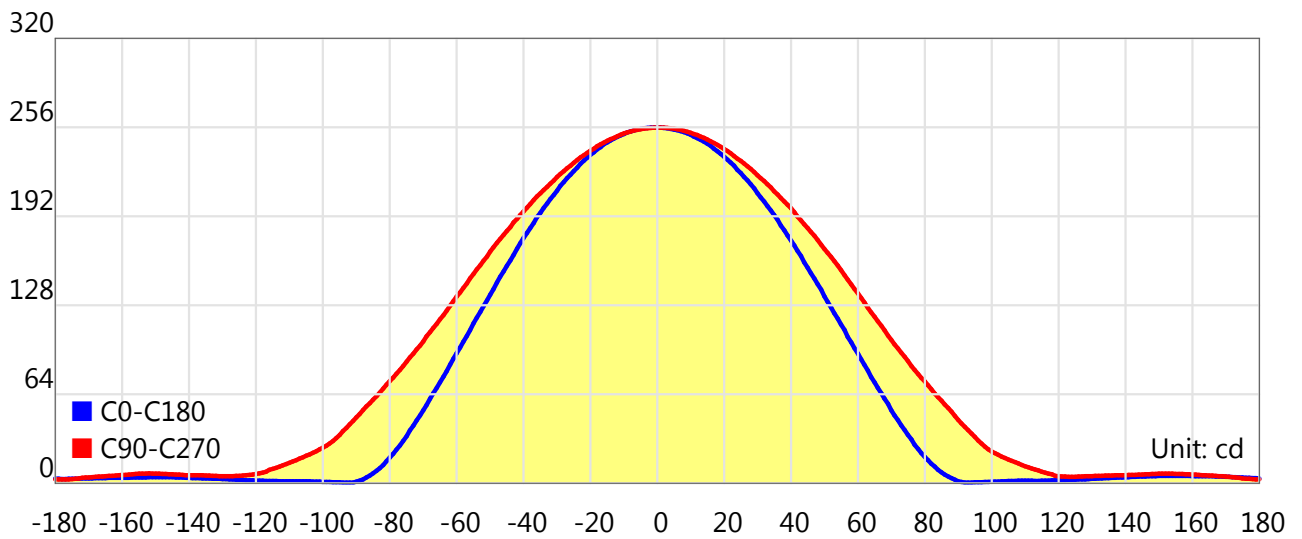
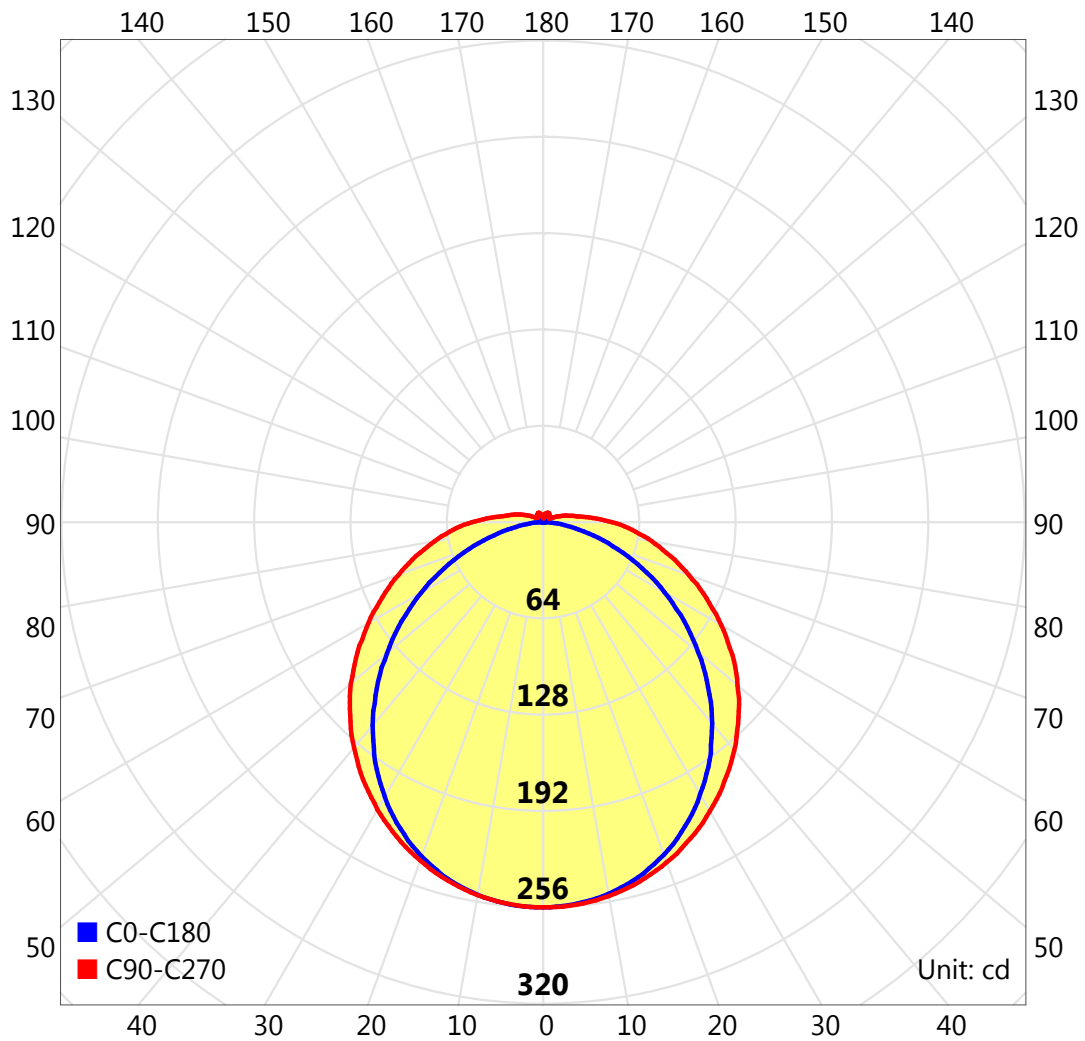
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

Light Distribution 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

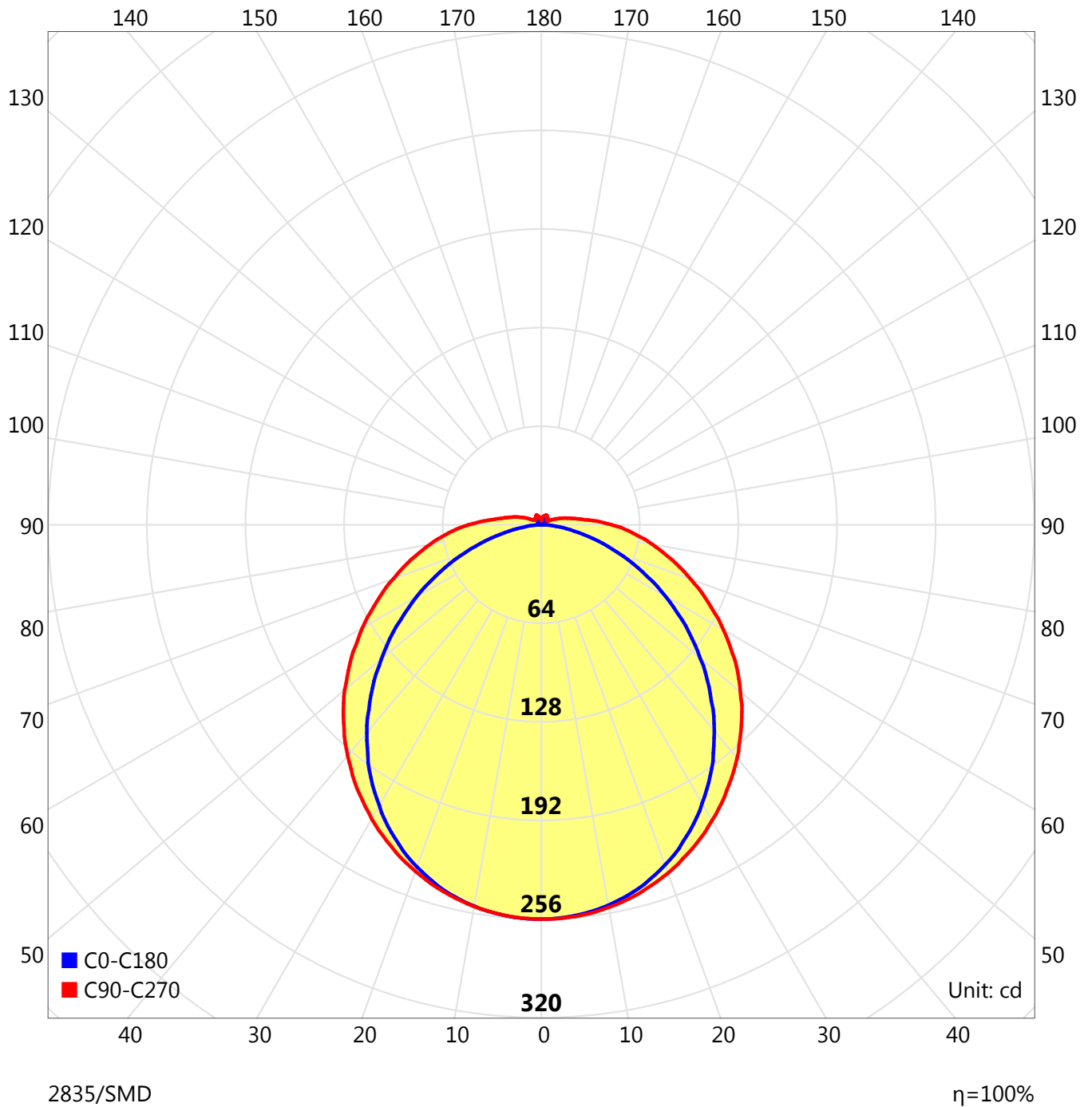
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Review By :TMI

Humidity : 65.0%

Light Distribution Curve (cd/klm)

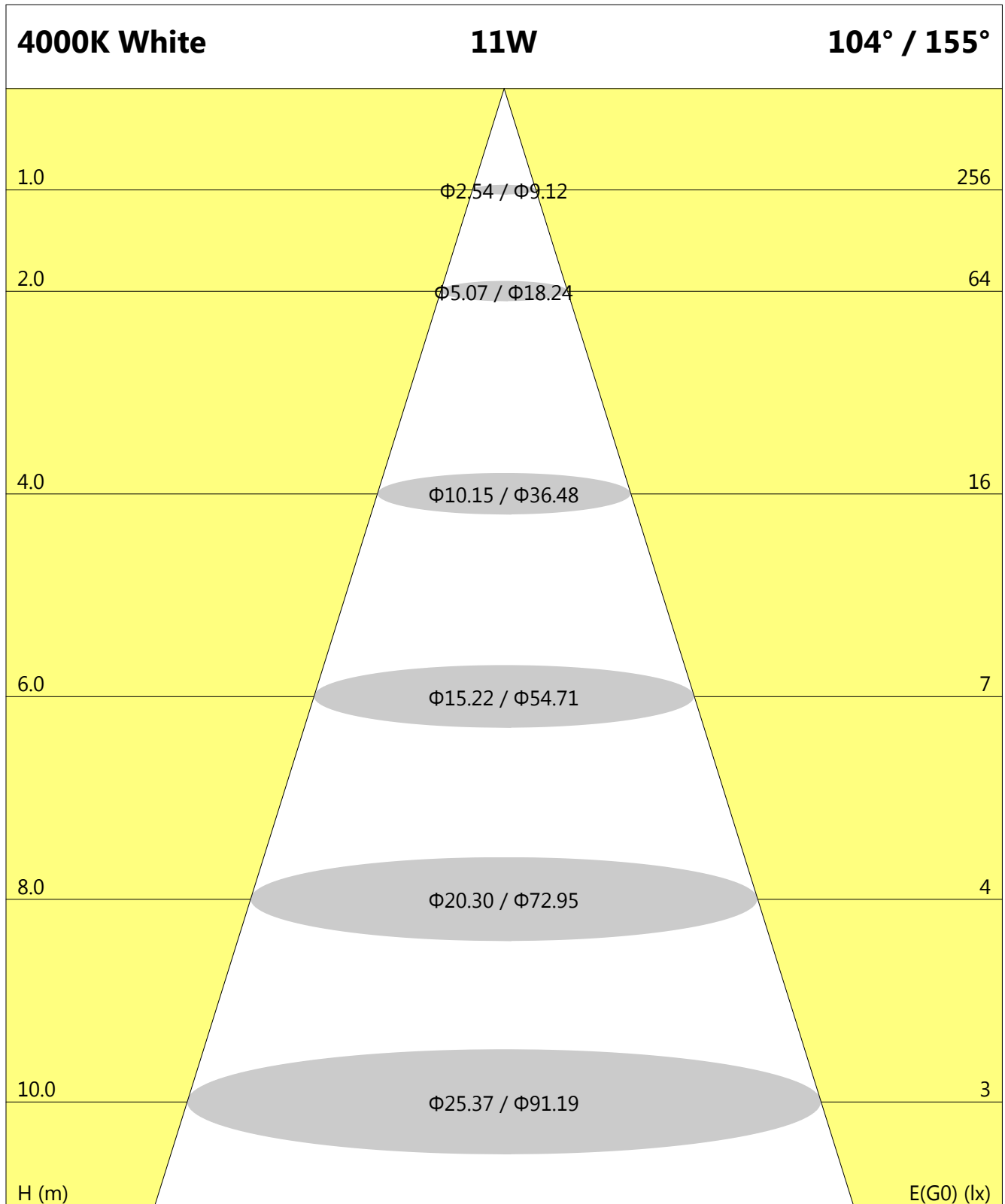


C Plane : 0.0-360.0:22.5
Test Lab : TB
Test Type : Type C
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Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0
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Lux-Distance

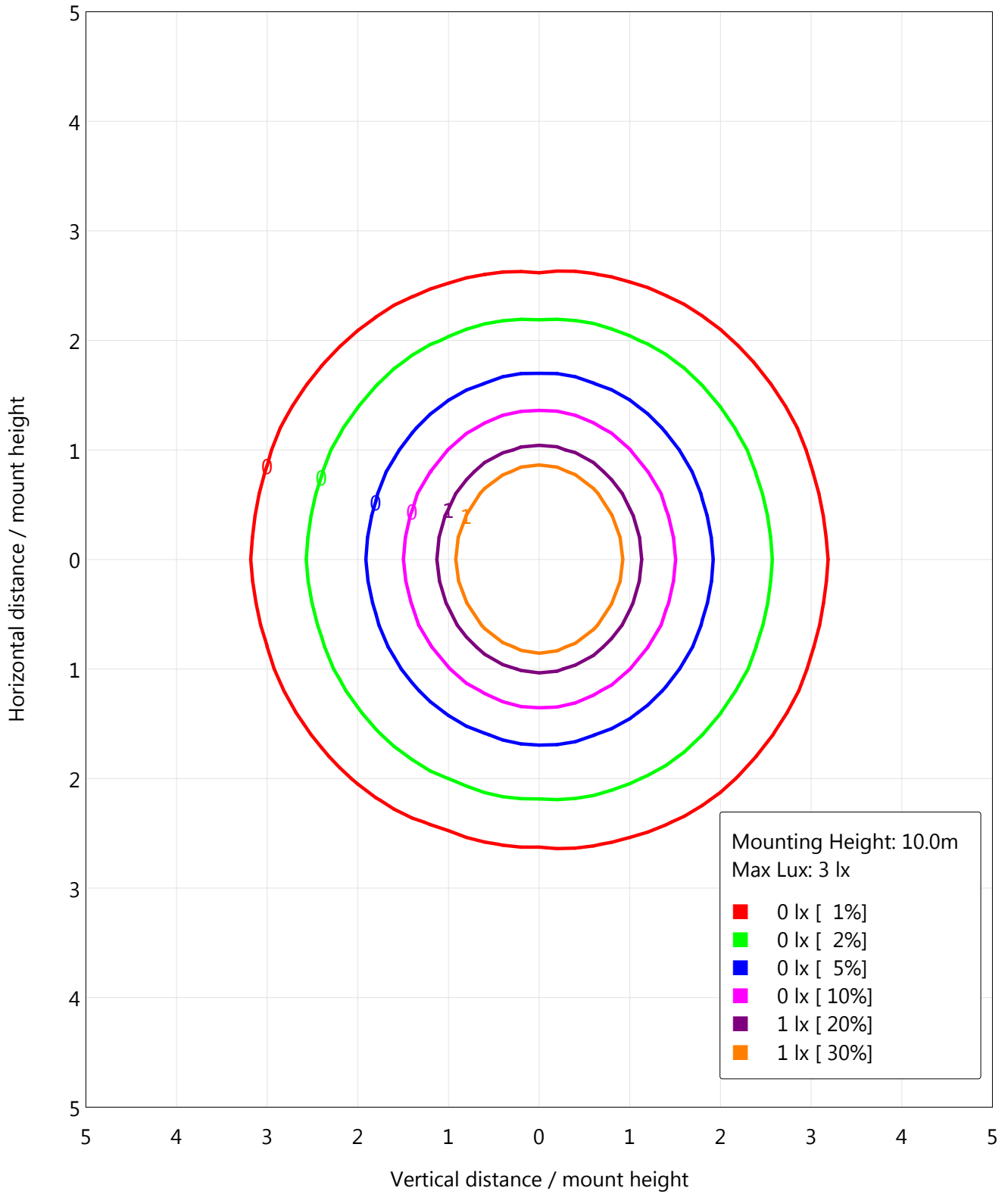


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 Test Type : Type C
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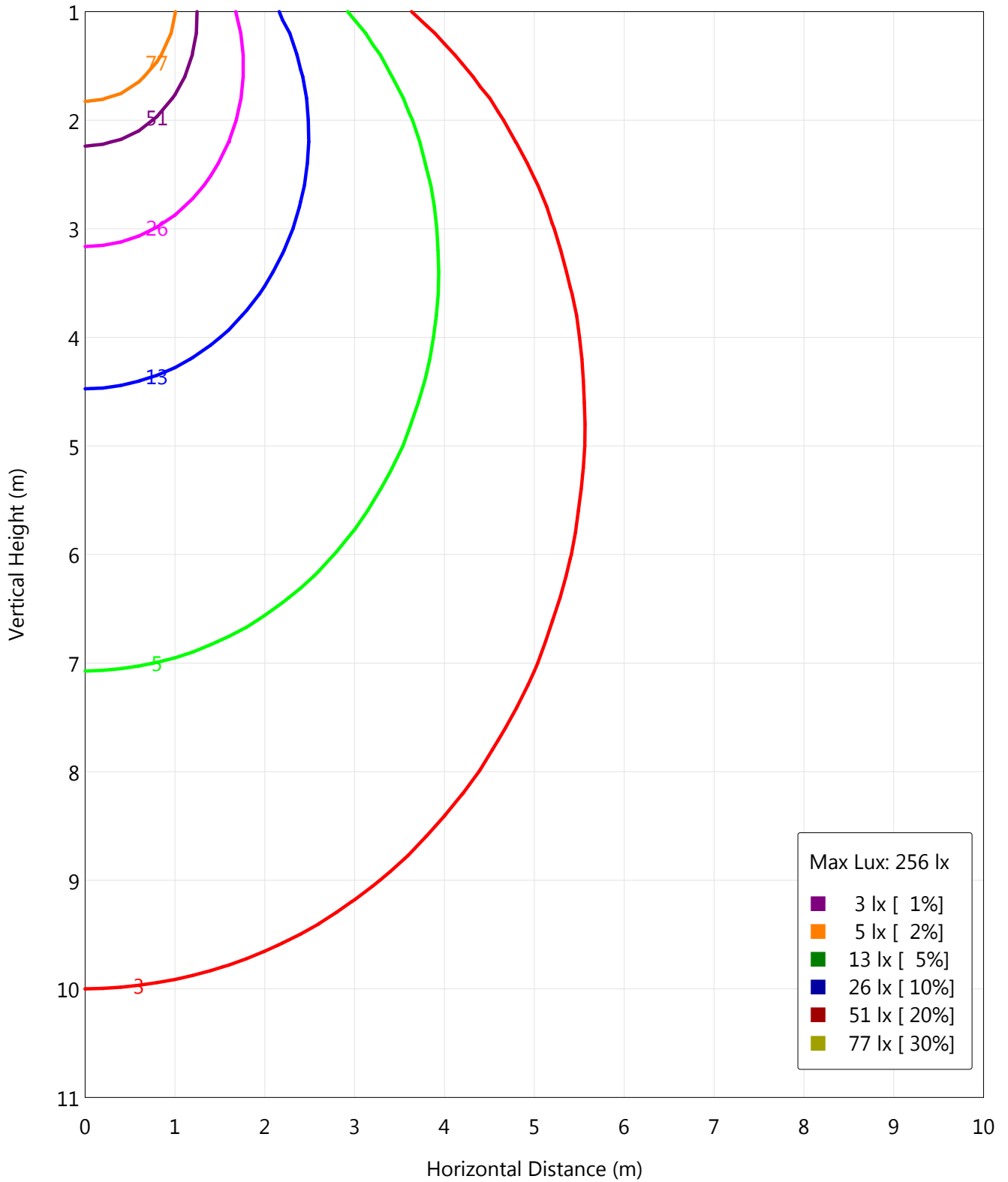
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 Measurement System : GMS-5000 (E412011U)
 Temperature : 25.0°C Humidity : 65.0%
 Review By :TMI

IsoLux



Vertical IsoLux Plot



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

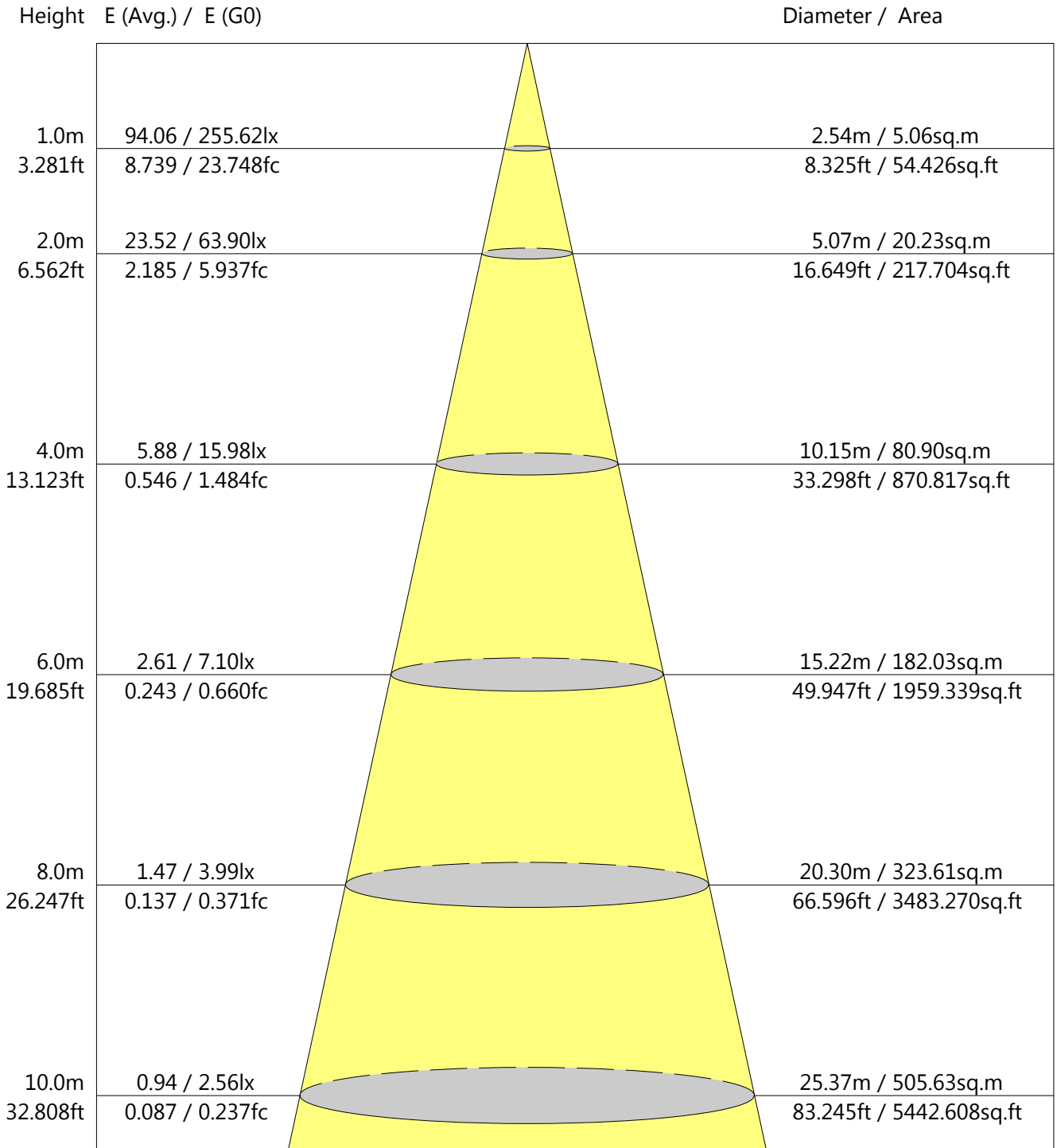
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Review By :TMI

Humidity : 65.0%

Average Illuminance Effective Figure



Beam Angle: 103.5° Flux Out: 475.60lm

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

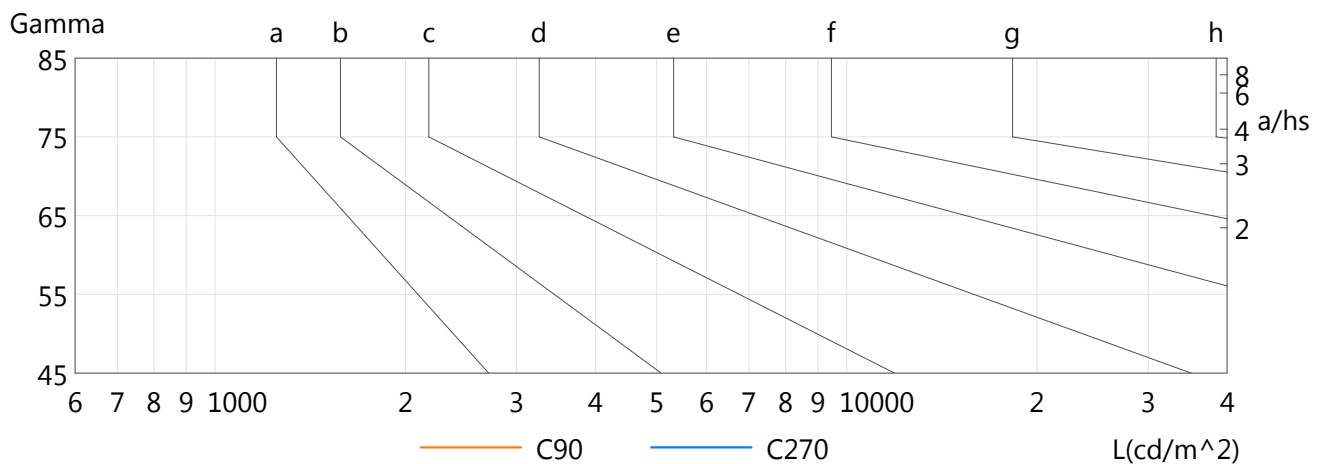
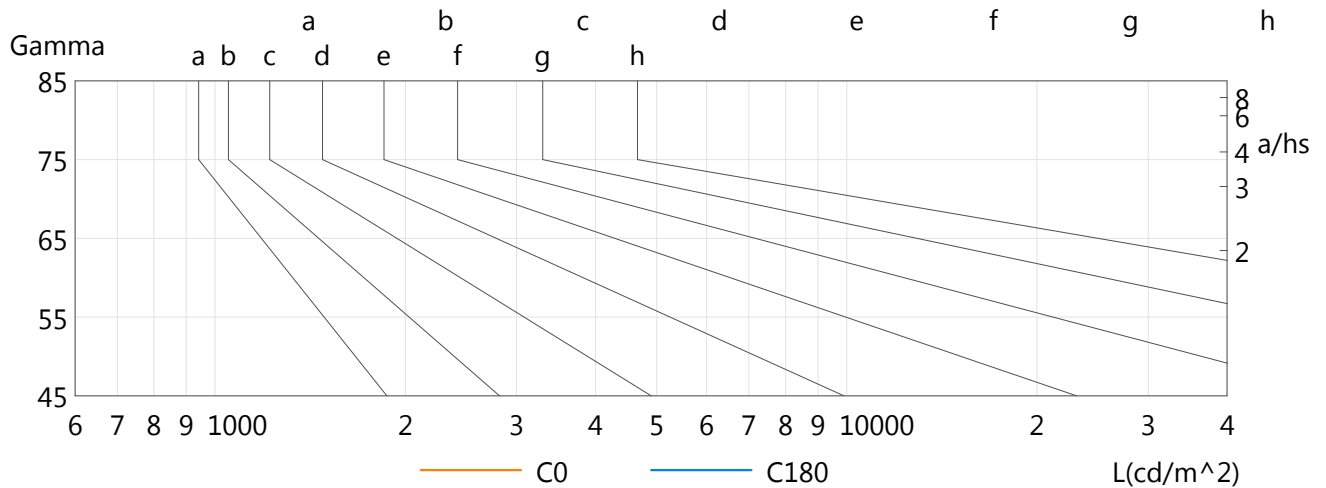
Review By :TMI

Humidity : 65.0%

Lumen Limit Curve

L (cd/m ²)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	155	134	114	93	72	53	35	19	8
C90	183	169	153	136	120	103	88	73	59
C270	156	135	115	94	73	52	34	19	7
C90	181	167	150	134	118	102	88	73	60

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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Test Distance : 5.751 m

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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	0.53	0.63	0.70	0.76	0.83	0.88	0.91	0.96	0.99
	0.30		0.45	0.55	0.63	0.68	0.76	0.82	0.86	0.92	0.95
	0.20		0.40	0.49	0.57	0.62	0.71	0.77	0.81	0.87	0.92
0.50	0.50	0.20	0.51	0.61	0.67	0.72	0.79	0.83	0.87	0.91	0.94
	0.30		0.44	0.54	0.60	0.66	0.73	0.78	0.82	0.87	0.91
	0.20		0.39	0.48	0.55	0.61	0.68	0.74	0.78	0.84	0.88
0.30	0.50	0.20	0.49	0.58	0.64	0.69	0.75	0.79	0.82	0.86	0.89
	0.30		0.43	0.52	0.58	0.63	0.70	0.75	0.78	0.83	0.86
	0.20		0.38	0.47	0.54	0.59	0.66	0.71	0.75	0.80	0.84
0.00	0.00	0.00	0.35	0.44	0.50	0.55	0.62	0.66	0.70	0.75	0.78

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	1.01	0.85	0.73	0.64	0.52	0.44	0.38	0.30	0.25
	0.30		0.85	0.72	0.64	0.57	0.47	0.40	0.35	0.28	0.24
	0.20		0.73	0.63	0.56	0.51	0.43	0.37	0.33	0.26	0.22
0.50	0.50	0.20	0.97	0.80	0.69	0.61	0.49	0.44	0.36	0.28	0.23
	0.30		0.82	0.70	0.61	0.54	0.45	0.38	0.33	0.27	0.22
	0.20		0.71	0.62	0.55	0.49	0.41	0.36	0.31	0.25	0.21
0.30	0.50	0.20	0.93	0.76	0.66	0.58	0.47	0.39	0.34	0.27	0.22
	0.30		0.79	0.67	0.59	0.52	0.43	0.37	0.32	0.25	0.21
	0.20		0.69	0.60	0.53	0.48	0.40	0.34	0.30	0.24	0.21
0.00	0.00	0.00	0.59	0.50	0.44	0.39	0.32	0.28	0.24	0.19	0.16

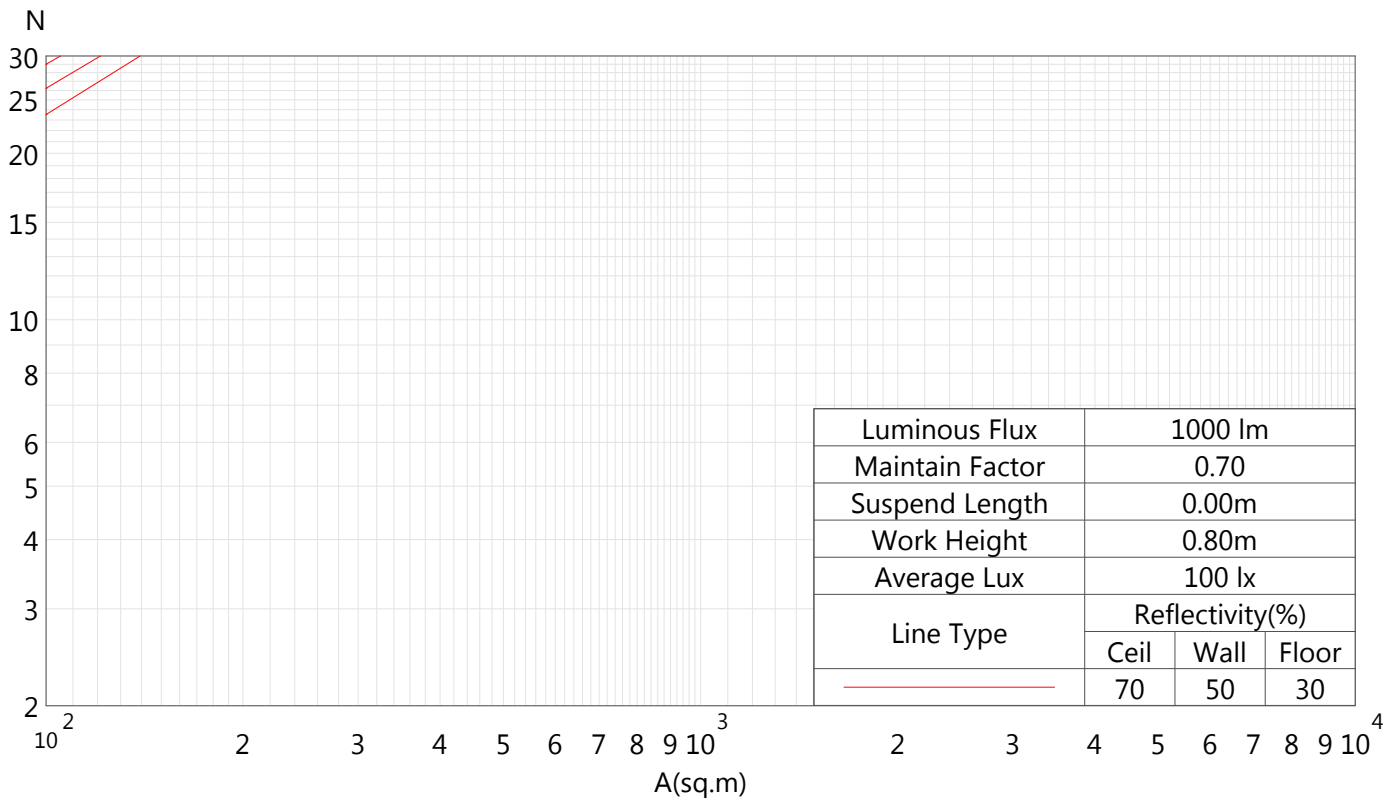
Utilisation Factors UF (C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.22	0.24	0.25	0.25	0.26	0.27	0.27	0.28	0.28
	0.30		0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.24	0.25
	0.20		0.10	0.12	0.13	0.15	0.17	0.18	0.19	0.21	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	0.18	0.19	0.20	0.22
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: 11W 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	101	96	92	103	98	94	90	92	89	86	87	85	82	83	81	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	71	67	72	68	65	62
3	87	76	68	61	84	74	66	60	70	64	58	67	61	56	63	59	55	52
4	80	67	58	52	77	66	57	51	62	55	49	59	53	48	56	51	47	44
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	41	36	46	40	36	33
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	29
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	39	33	28	26
9	55	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	26	24
10	51	38	30	25	50	37	29	24	36	29	24	34	28	24	33	27	23	21

Spacing Criteria: 1.22 (0-180), 1.29 (90-270), 1.36 (Diagonal)



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 %
0.0-1.0	255.6	0.2	0.2	0.03	0.03
1.0-2.0	255.5	0.7	1.0	0.09	0.12
2.0-3.0	255.3	1.2	2.2	0.15	0.27
3.0-4.0	255.1	1.7	3.9	0.21	0.48
4.0-5.0	254.7	2.2	6.1	0.27	0.75
5.0-6.0	254.3	2.7	8.8	0.33	1.07
6.0-7.0	253.7	3.1	11.9	0.38	1.46
7.0-8.0	253.1	3.6	15.5	0.44	1.90
8.0-9.0	252.4	4.1	19.6	0.50	2.40
9.0-10.0	251.6	4.6	24.2	0.56	2.95
10.0-11.0	250.7	5.0	29.2	0.61	3.57
11.0-12.0	249.7	5.5	34.7	0.67	4.23
12.0-13.0	248.6	5.9	40.6	0.72	4.95
13.0-14.0	247.4	6.3	46.9	0.77	5.73
14.0-15.0	246.2	6.8	53.6	0.83	6.55
15.0-16.0	244.8	7.2	60.8	0.88	7.43
16.0-17.0	243.3	7.6	68.4	0.93	8.36
17.0-18.0	241.8	8.0	76.4	0.97	9.33
18.0-19.0	240.1	8.4	84.7	1.02	10.35
19.0-20.0	238.4	8.7	93.5	1.07	11.42
20.0-21.0	236.6	9.1	102.5	1.11	12.53
21.0-22.0	234.7	9.4	112.0	1.15	13.68
22.0-23.0	232.7	9.8	121.7	1.19	14.87
23.0-24.0	230.6	10.1	131.8	1.23	16.10
24.0-25.0	228.3	10.4	142.2	1.27	17.37
25.0-26.0	226.1	10.7	152.9	1.30	18.68
26.0-27.0	223.8	10.9	163.8	1.34	20.01
27.0-28.0	221.4	11.2	175.0	1.37	21.38
28.0-29.0	218.9	11.5	186.5	1.40	22.78
29.0-30.0	216.3	11.7	198.2	1.43	24.21
30.0-31.0	213.7	11.9	210.1	1.45	25.66
31.0-32.0	211.0	12.1	222.2	1.48	27.14
32.0-33.0	208.2	12.3	234.4	1.50	28.64
33.0-34.0	205.3	12.4	246.8	1.52	30.16
34.0-35.0	202.4	12.6	259.4	1.54	31.69
35.0-36.0	199.4	12.7	272.1	1.55	33.24
36.0-37.0	196.4	12.8	284.9	1.56	34.81
37.0-38.0	193.2	12.9	297.8	1.58	36.38
38.0-39.0	190.1	13.0	310.8	1.59	37.97
39.0-40.0	186.9	13.0	323.8	1.59	39.56

C Plane : 0.0-360.0:22.5

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Test Distance : 5.751 m

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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	183.6	13.1	336.9	1.60	41.16
41.0-42.0	180.3	13.1	350.0	1.60	42.76
42.0-43.0	176.9	13.1	363.1	1.60	44.36
43.0-44.0	173.5	13.1	376.2	1.60	45.96
44.0-45.0	170.0	13.1	389.3	1.60	47.56
45.0-46.0	166.6	13.0	402.3	1.59	49.15
46.0-47.0	163.0	13.0	415.3	1.58	50.73
47.0-48.0	159.5	12.9	428.2	1.58	52.31
48.0-49.0	155.9	12.8	441.0	1.56	53.87
49.0-50.0	152.3	12.7	453.7	1.55	55.42
50.0-51.0	148.6	12.6	466.2	1.54	56.96
51.0-52.0	145.0	12.4	478.7	1.52	58.48
52.0-53.0	141.3	12.3	491.0	1.50	59.98
53.0-54.0	137.6	12.1	503.1	1.48	61.46
54.0-55.0	133.9	12.0	515.1	1.46	62.92
55.0-56.0	130.2	11.8	526.8	1.44	64.36
56.0-57.0	126.4	11.6	538.4	1.41	65.77
57.0-58.0	122.7	11.3	549.7	1.39	67.16
58.0-59.0	119.0	11.1	560.9	1.36	68.52
59.0-60.0	115.2	10.9	571.8	1.33	69.85
60.0-61.0	111.5	10.6	582.4	1.30	71.15
61.0-62.0	107.9	10.4	592.8	1.27	72.42
62.0-63.0	104.2	10.1	602.9	1.24	73.66
63.0-64.0	100.4	9.9	612.8	1.20	74.86
64.0-65.0	96.8	9.6	622.4	1.17	76.03
65.0-66.0	93.2	9.3	631.7	1.14	77.17
66.0-67.0	89.6	9.0	640.7	1.10	78.27
67.0-68.0	86.0	8.7	649.4	1.06	79.33
68.0-69.0	82.5	8.4	657.8	1.03	80.36
69.0-70.0	79.0	8.1	665.9	0.99	81.35
70.0-71.0	75.6	7.8	673.7	0.95	82.31
71.0-72.0	72.3	7.5	681.3	0.92	83.23
72.0-73.0	68.9	7.2	688.5	0.88	84.11
73.0-74.0	65.7	6.9	695.4	0.84	84.95
74.0-75.0	62.5	6.6	702.0	0.81	85.76
75.0-76.0	59.4	6.3	708.3	0.77	86.53
76.0-77.0	56.3	6.0	714.3	0.73	87.26
77.0-78.0	53.3	5.7	720.0	0.70	87.96
78.0-79.0	50.4	5.4	725.4	0.66	88.62
79.0-80.0	47.6	5.1	730.5	0.63	89.25

C Plane : 0.0-360.0:22.5

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Measurement System : GMS-5000 (E412011U)

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Zonal Flux

Gamma °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
80.0-81.0	44.9	4.9	735.4	0.59	89.84
81.0-82.0	42.3	4.6	740.0	0.56	90.40
82.0-83.0	39.7	4.3	744.3	0.53	90.93
83.0-84.0	37.2	4.1	748.3	0.50	91.42
84.0-85.0	34.9	3.8	752.1	0.46	91.89
85.0-86.0	32.6	3.6	755.7	0.44	92.32
86.0-87.0	30.4	3.3	759.0	0.41	92.73
87.0-88.0	28.4	3.1	762.1	0.38	93.11
88.0-89.0	26.4	2.9	765.0	0.35	93.46
89.0-90.0	24.6	2.7	767.7	0.33	93.79
90.0-91.0	22.8	2.5	770.2	0.31	94.10
91.0-92.0	21.3	2.3	772.6	0.29	94.38
92.0-93.0	20.0	2.2	774.8	0.27	94.65
93.0-94.0	18.8	2.1	776.8	0.25	94.90
94.0-95.0	17.7	1.9	778.8	0.24	95.14
95.0-96.0	16.7	1.8	780.6	0.22	95.36
96.0-97.0	15.7	1.7	782.3	0.21	95.57
97.0-98.0	14.9	1.6	783.9	0.20	95.77
98.0-99.0	14.1	1.5	785.4	0.19	95.95
99.0-100.0	13.4	1.4	786.9	0.18	96.13
100.0-101.0	12.8	1.4	788.3	0.17	96.30
101.0-102.0	12.2	1.3	789.6	0.16	96.46
102.0-103.0	11.6	1.2	790.8	0.15	96.61
103.0-104.0	11.1	1.2	792.0	0.14	96.76
104.0-105.0	10.5	1.1	793.1	0.14	96.89
105.0-106.0	10.0	1.1	794.2	0.13	97.02
106.0-107.0	9.5	1.0	795.2	0.12	97.14
107.0-108.0	9.0	0.9	796.1	0.11	97.26
108.0-109.0	8.5	0.9	797.0	0.11	97.37
109.0-110.0	8.0	0.8	797.8	0.10	97.47
110.0-111.0	7.6	0.8	798.6	0.10	97.56
111.0-112.0	7.2	0.7	799.3	0.09	97.65
112.0-113.0	6.7	0.7	800.0	0.08	97.74
113.0-114.0	6.4	0.6	800.7	0.08	97.81
114.0-115.0	6.0	0.6	801.3	0.07	97.89
115.0-116.0	5.7	0.6	801.8	0.07	97.95
116.0-117.0	5.3	0.5	802.3	0.06	98.02
117.0-118.0	5.0	0.5	802.8	0.06	98.08
118.0-119.0	4.7	0.5	803.3	0.06	98.13
119.0-120.0	4.5	0.4	803.7	0.05	98.19

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 %
120.0-121.0	4.3	0.4	804.1	0.05	98.24
121.0-122.0	4.2	0.4	804.5	0.05	98.28
122.0-123.0	4.2	0.4	804.9	0.05	98.33
123.0-124.0	4.1	0.4	805.3	0.05	98.38
124.0-125.0	4.1	0.4	805.6	0.05	98.42
125.0-126.0	4.2	0.4	806.0	0.05	98.47
126.0-127.0	4.2	0.4	806.4	0.05	98.51
127.0-128.0	4.2	0.4	806.8	0.05	98.56
128.0-129.0	4.3	0.4	807.1	0.04	98.60
129.0-130.0	4.3	0.4	807.5	0.04	98.65
130.0-131.0	4.4	0.4	807.9	0.04	98.69
131.0-132.0	4.5	0.4	808.2	0.04	98.74
132.0-133.0	4.5	0.4	808.6	0.04	98.78
133.0-134.0	4.6	0.4	809.0	0.04	98.83
134.0-135.0	4.7	0.4	809.3	0.04	98.87
135.0-136.0	4.7	0.4	809.7	0.04	98.92
136.0-137.0	4.8	0.4	810.0	0.04	98.96
137.0-138.0	4.8	0.4	810.4	0.04	99.01
138.0-139.0	4.9	0.4	810.8	0.04	99.05
139.0-140.0	5.0	0.4	811.1	0.04	99.09
140.0-141.0	5.0	0.3	811.5	0.04	99.13
141.0-142.0	5.1	0.3	811.8	0.04	99.18
142.0-143.0	5.1	0.3	812.2	0.04	99.22
143.0-144.0	5.2	0.3	812.5	0.04	99.26
144.0-145.0	5.3	0.3	812.8	0.04	99.30
145.0-146.0	5.3	0.3	813.2	0.04	99.34
146.0-147.0	5.3	0.3	813.5	0.04	99.38
147.0-148.0	5.4	0.3	813.8	0.04	99.42
148.0-149.0	5.4	0.3	814.1	0.04	99.46
149.0-150.0	5.4	0.3	814.4	0.04	99.49
150.0-151.0	5.4	0.3	814.7	0.04	99.53
151.0-152.0	5.5	0.3	815.0	0.03	99.56
152.0-153.0	5.4	0.3	815.3	0.03	99.60
153.0-154.0	5.4	0.3	815.5	0.03	99.63
154.0-155.0	5.4	0.3	815.8	0.03	99.66
155.0-156.0	5.3	0.2	816.0	0.03	99.69
156.0-157.0	5.2	0.2	816.2	0.03	99.72
157.0-158.0	5.2	0.2	816.5	0.03	99.75
158.0-159.0	5.1	0.2	816.7	0.03	99.77
159.0-160.0	5.0	0.2	816.9	0.02	99.79

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	5.0	0.2	817.0	0.02	99.82
161.0-162.0	4.9	0.2	817.2	0.02	99.84
162.0-163.0	4.8	0.2	817.4	0.02	99.86
163.0-164.0	4.7	0.1	817.5	0.02	99.87
164.0-165.0	4.7	0.1	817.7	0.02	99.89
165.0-166.0	4.6	0.1	817.8	0.02	99.91
166.0-167.0	4.5	0.1	817.9	0.01	99.92
167.0-168.0	4.4	0.1	818.0	0.01	99.93
168.0-169.0	4.4	0.1	818.1	0.01	99.94
169.0-170.0	4.3	0.1	818.2	0.01	99.96
170.0-171.0	4.2	0.1	818.3	0.01	99.96
171.0-172.0	4.1	0.1	818.3	0.01	99.97
172.0-173.0	3.9	0.1	818.4	0.01	99.98
173.0-174.0	3.8	0.0	818.4	0.01	99.99
174.0-175.0	3.7	0.0	818.5	0.00	99.99
175.0-176.0	3.6	0.0	818.5	0.00	99.99
176.0-177.0	3.4	0.0	818.5	0.00	100.00
177.0-178.0	3.3	0.0	818.5	0.00	100.00
178.0-179.0	3.3	0.0	818.5	0.00	100.00
179.0-180.0	3.3	0.0	818.6	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	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6
G1.0	255.5	255.5	255.6	255.6	255.6	255.6	255.7	255.7
G2.0	255.4	255.4	255.5	255.5	255.5	255.6	255.6	255.6
G3.0	255.1	255.1	255.2	255.3	255.4	255.4	255.5	255.5
G4.0	254.7	254.8	254.9	255.0	255.1	255.2	255.2	255.2
G5.0	254.2	254.3	254.5	254.7	254.8	254.9	254.9	254.8
G6.0	253.6	253.8	254.0	254.2	254.4	254.4	254.5	254.4
G7.0	253.0	253.1	253.4	253.6	253.9	254.0	254.0	253.9
G8.0	252.2	252.3	252.7	253.0	253.3	253.4	253.4	253.3
G9.0	251.4	251.5	252.0	252.3	252.6	252.7	252.7	252.6
G10.0	250.4	250.6	251.0	251.6	251.8	252.0	251.9	251.8
G11.0	249.2	249.6	250.1	250.7	251.0	251.2	251.0	250.9
G12.0	248.1	248.5	249.0	249.8	250.1	250.1	250.1	249.7
G13.0	246.8	247.3	247.9	248.6	249.2	249.2	249.0	248.6
G14.0	245.5	245.6	246.7	247.5	248.2	248.1	247.9	247.3
G15.0	244.0	244.2	245.4	246.3	247.1	247.0	246.4	246.0
G16.0	242.4	242.7	244.0	245.1	245.7	245.8	245.0	244.6
G17.0	240.4	241.1	242.2	243.8	244.4	244.4	243.6	243.1
G18.0	238.6	239.4	240.6	242.3	243.1	243.1	242.1	241.5
G19.0	236.7	237.6	238.9	240.8	241.7	241.3	240.5	239.3
G20.0	234.7	235.6	237.2	239.0	240.2	239.8	238.8	237.5
G21.0	232.6	233.2	235.3	237.4	238.7	238.2	237.0	235.6
G22.0	230.4	231.1	233.4	235.6	237.1	236.4	234.7	233.5
G23.0	228.1	228.8	231.4	233.8	235.1	234.7	232.7	231.4
G24.0	225.2	226.5	228.9	232.0	233.3	232.8	230.7	229.1
G25.0	222.8	224.1	226.7	230.1	231.6	230.5	228.6	226.4
G26.0	220.2	221.6	224.5	227.7	229.7	228.5	226.3	224.0
G27.0	217.5	218.5	222.1	225.6	227.8	226.5	224.0	221.5
G28.0	214.8	215.8	219.7	223.5	225.9	224.3	221.7	218.8
G29.0	211.9	213.1	217.2	221.3	223.5	222.2	218.7	216.1
G30.0	208.5	210.3	214.1	219.1	221.4	219.9	216.1	213.4
G31.0	205.5	207.4	211.5	216.8	219.3	217.6	213.5	210.5
G32.0	202.4	204.4	208.8	214.4	217.1	215.3	210.8	207.0
G33.0	199.2	201.3	206.0	211.6	214.9	212.4	208.0	203.9
G34.0	196.0	197.5	203.2	209.1	212.6	209.9	205.2	200.8
G35.0	192.7	194.3	200.3	206.6	209.8	207.4	201.7	197.6
G36.0	189.3	191.0	196.8	204.0	207.4	204.8	198.7	194.3
G37.0	185.2	187.7	193.7	201.4	205.1	202.2	195.7	191.0
G38.0	181.7	184.3	190.7	198.8	202.5	199.5	192.6	186.9
G39.0	178.1	180.8	187.6	196.1	200.0	196.3	189.4	183.4

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
G40.0	174.5	176.6	184.4	192.9	197.5	193.5	186.2	179.9
G41.0	170.8	173.1	181.3	190.1	194.9	190.8	183.0	176.3
G42.0	167.1	169.5	178.0	187.3	191.7	187.9	179.1	172.6
G43.0	163.3	165.8	174.8	184.4	188.9	185.0	175.7	168.9
G44.0	158.7	162.1	170.9	181.5	186.2	182.0	172.3	165.2
G45.0	155.0	158.4	167.6	178.6	183.4	178.5	168.9	160.7
G46.0	151.0	154.6	164.2	175.0	180.6	175.4	165.5	156.9
G47.0	147.1	150.1	160.9	172.0	177.8	172.3	162.0	152.9
G48.0	143.1	146.2	157.5	169.0	174.9	169.2	158.5	149.0
G49.0	139.2	142.4	154.0	165.9	171.4	166.1	154.3	145.1
G50.0	134.4	138.6	149.9	162.8	168.5	162.9	150.8	141.2
G51.0	130.4	134.8	146.5	159.8	165.6	159.8	147.2	136.4
G52.0	126.4	130.9	143.0	156.7	162.6	155.9	143.6	132.4
G53.0	122.3	127.0	139.5	152.9	159.6	152.7	140.0	128.4
G54.0	118.2	122.3	136.0	149.7	156.4	149.5	136.4	124.4
G55.0	114.2	118.5	132.6	146.5	153.3	146.3	132.8	120.4
G56.0	110.2	114.7	129.1	143.3	149.5	143.0	128.4	116.4
G57.0	105.3	110.8	124.9	139.9	146.2	139.6	124.8	112.4
G58.0	101.2	107.0	121.4	136.6	143.0	136.2	121.2	108.4
G59.0	97.2	103.2	118.0	133.2	139.7	132.1	117.6	103.7
G60.0	93.1	99.5	114.6	129.2	136.5	128.7	114.0	99.7
G61.0	89.2	95.0	111.2	125.9	133.2	125.3	110.5	95.8
G62.0	85.1	91.3	107.8	122.5	130.0	121.9	106.9	92.0
G63.0	81.1	87.6	104.3	119.2	126.0	118.5	102.7	88.1
G64.0	76.4	83.9	100.2	115.8	122.8	115.0	99.1	84.3
G65.0	72.4	80.3	96.9	112.5	119.6	111.7	95.6	79.8
G66.0	68.6	76.7	93.5	108.5	116.4	107.6	92.1	76.1
G67.0	64.7	72.5	90.1	105.2	113.2	104.3	88.6	72.4
G68.0	60.8	69.0	86.8	101.9	110.0	100.9	85.1	68.7
G69.0	57.1	65.6	83.5	98.7	106.2	97.6	81.0	65.2
G70.0	52.6	62.3	79.7	95.5	103.1	94.4	77.6	61.6
G71.0	49.0	58.9	76.5	92.4	99.9	91.2	74.3	58.2
G72.0	45.3	55.7	73.3	89.2	96.9	88.0	70.9	54.0
G73.0	41.8	52.5	70.2	85.5	93.8	84.2	67.7	50.6
G74.0	38.3	48.8	67.2	82.5	90.8	81.2	64.5	47.3
G75.0	34.9	45.8	64.2	79.5	87.9	78.2	61.5	44.1
G76.0	31.6	42.9	61.4	76.5	84.4	75.3	57.8	40.9
G77.0	27.7	40.0	58.0	73.6	81.4	72.3	54.8	37.8
G78.0	24.7	37.2	55.2	70.9	78.6	69.5	51.9	34.8
G79.0	21.8	34.5	52.5	68.1	75.8	66.2	49.0	31.3

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	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G80.0	19.1	31.4	50.0	64.9	73.1	63.5	46.2	28.6
G81.0	16.6	28.8	47.4	62.2	70.4	60.9	43.5	25.8
G82.0	14.2	26.3	44.9	59.7	67.7	58.3	40.7	23.2
G83.0	12.1	24.0	42.5	57.1	64.5	55.7	37.6	20.7
G84.0	9.8	21.7	39.7	54.7	61.9	53.3	35.0	18.4
G85.0	8.0	19.6	37.5	52.3	59.3	50.9	32.6	15.7
G86.0	6.4	17.5	35.4	49.5	56.7	48.1	30.2	13.6
G87.0	5.0	15.2	33.4	47.1	54.2	45.8	27.9	11.6
G88.0	3.7	13.5	31.4	44.8	51.5	43.6	25.8	9.8
G89.0	2.6	11.9	29.5	42.5	48.4	41.5	23.5	8.2
G90.0	1.6	10.3	27.4	40.3	45.8	39.2	21.8	6.7
G91.0	0.9	8.7	25.7	38.0	43.2	37.1	20.1	5.4
G92.0	0.6	7.6	24.3	35.8	40.7	34.5	18.7	4.2
G93.0	0.6	7.0	23.0	33.3	38.2	32.4	17.5	3.8
G94.0	0.7	6.4	21.9	31.3	35.8	30.4	16.4	3.5
G95.0	0.7	5.9	20.9	29.5	33.5	28.4	15.5	3.3
G96.0	0.8	5.4	19.9	27.8	30.7	26.4	14.5	3.1
G97.0	0.9	5.0	18.8	26.2	28.5	24.6	13.8	2.8
G98.0	1.0	4.6	18.0	24.8	26.4	23.0	13.2	2.6
G99.0	1.1	4.2	17.2	23.6	24.6	21.3	12.7	2.4
G100.0	1.2	3.9	16.3	22.3	22.9	20.3	12.1	2.3
G101.0	1.2	3.5	15.5	21.3	21.7	19.4	11.6	2.1
G102.0	1.3	3.2	14.7	20.3	20.6	18.5	10.9	2.0
G103.0	1.4	2.9	14.0	19.4	19.3	17.7	10.4	1.9
G104.0	1.6	2.6	13.1	18.4	18.2	16.8	9.9	1.8
G105.0	1.6	2.5	12.4	17.5	17.2	15.8	9.4	1.8
G106.0	1.7	2.4	11.7	16.3	16.2	14.9	8.9	1.8
G107.0	1.8	2.3	11.0	15.4	15.3	14.0	8.4	1.9
G108.0	1.9	2.4	10.3	14.5	14.3	13.2	7.8	2.0
G109.0	1.9	2.4	9.6	13.6	13.3	12.3	7.2	2.1
G110.0	1.9	2.5	8.7	12.7	12.4	11.5	6.7	2.1
G111.0	1.9	2.6	8.1	11.9	11.5	10.8	6.2	2.2
G112.0	1.9	2.7	7.4	11.1	10.7	9.9	5.8	2.3
G113.0	1.8	2.9	6.8	10.2	9.9	9.1	5.3	2.4
G114.0	1.8	3.0	6.2	9.5	9.2	8.5	5.0	2.4
G115.0	1.9	3.1	5.7	8.8	8.5	7.8	4.5	2.4
G116.0	1.9	3.2	5.2	8.2	7.7	7.2	4.2	2.5
G117.0	2.0	3.3	4.6	7.6	7.1	6.7	3.9	2.6
G118.0	2.1	3.4	4.3	7.1	6.6	6.0	3.7	2.7
G119.0	2.2	3.5	4.1	6.5	5.5	5.5	3.6	2.7

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	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G120.0	2.2	3.6	4.2	6.0	5.2	5.0	3.6	2.7
G121.0	2.3	3.7	4.3	5.6	5.0	4.6	3.6	2.8
G122.0	2.4	3.8	4.3	5.3	4.9	4.3	3.6	2.9
G123.0	2.5	4.0	4.4	5.0	4.8	4.1	3.7	3.2
G124.0	2.6	4.1	4.6	4.8	4.8	4.1	3.9	3.4
G125.0	2.8	4.2	4.6	4.7	4.8	4.1	3.9	3.5
G126.0	2.8	4.3	4.7	4.7	4.9	4.1	4.0	3.6
G127.0	2.9	4.4	4.8	4.7	5.0	4.1	4.0	3.6
G128.0	3.0	4.5	4.9	4.7	5.1	4.1	4.1	3.7
G129.0	3.1	4.6	5.0	4.8	5.2	4.1	4.2	3.8
G130.0	3.2	4.7	5.1	4.8	5.2	4.1	4.3	3.9
G131.0	3.4	4.8	5.2	4.9	5.3	4.1	4.4	4.0
G132.0	3.5	4.9	5.2	4.9	5.4	4.1	4.5	4.0
G133.0	3.6	4.9	5.3	4.9	5.5	4.1	4.6	4.0
G134.0	3.7	5.0	5.4	5.0	5.6	4.2	4.6	4.1
G135.0	3.8	5.0	5.4	5.0	5.6	4.2	4.7	4.2
G136.0	4.0	5.1	5.5	5.1	5.7	4.2	4.7	4.2
G137.0	4.1	5.2	5.6	5.2	5.8	4.3	4.7	4.2
G138.0	4.2	5.2	5.7	5.2	5.9	4.5	4.7	4.2
G139.0	4.2	5.3	5.7	5.3	5.9	4.6	4.7	4.3
G140.0	4.3	5.3	5.8	5.4	6.0	4.7	4.7	4.3
G141.0	4.5	5.4	5.9	5.4	6.0	4.8	4.8	4.2
G142.0	4.6	5.4	5.9	5.6	6.1	4.9	4.8	4.2
G143.0	4.8	5.5	6.0	5.7	6.1	5.0	4.8	4.2
G144.0	4.9	5.5	6.0	5.8	6.2	5.2	4.8	4.2
G145.0	5.0	5.5	6.1	5.9	6.4	5.2	4.8	4.2
G146.0	5.0	5.5	6.2	6.1	6.5	5.3	4.8	4.2
G147.0	5.1	5.4	6.2	6.2	6.6	5.3	4.7	4.2
G148.0	5.2	5.4	6.2	6.4	6.7	5.4	4.6	4.2
G149.0	5.2	5.3	6.1	6.5	6.8	5.5	4.5	4.2
G150.0	5.3	5.3	6.0	6.7	6.9	5.6	4.5	4.2
G151.0	5.4	5.3	5.9	6.9	7.0	5.7	4.5	4.2
G152.0	5.4	5.3	5.9	7.0	7.1	5.8	4.5	4.2
G153.0	5.5	5.3	5.8	7.1	7.1	5.8	4.4	4.2
G154.0	5.5	5.3	5.7	7.2	7.0	5.7	4.4	4.2
G155.0	5.5	5.3	5.7	7.2	6.9	5.6	4.4	4.2
G156.0	5.4	5.3	5.6	7.0	6.8	5.4	4.4	4.1
G157.0	5.4	5.2	5.6	6.9	6.7	5.3	4.3	4.0
G158.0	5.4	5.2	5.5	6.9	6.6	5.2	4.3	4.0
G159.0	5.3	5.2	5.5	6.7	6.5	5.1	4.1	3.9

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	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G160.0	5.3	5.2	5.4	6.6	6.4	5.0	4.1	3.8
G161.0	5.2	5.1	5.4	6.5	6.2	5.0	3.9	3.8
G162.0	5.2	5.1	5.3	6.4	6.1	4.9	3.9	3.7
G163.0	5.2	5.0	5.3	6.2	6.0	4.9	3.7	3.6
G164.0	5.1	5.0	5.2	6.0	5.9	4.8	3.7	3.6
G165.0	5.1	5.0	5.2	5.8	5.7	4.8	3.6	3.6
G166.0	5.1	4.9	5.2	5.6	5.6	4.7	3.7	3.6
G167.0	5.0	4.9	5.1	5.5	5.4	4.7	3.7	3.5
G168.0	4.9	4.9	5.0	5.3	5.3	4.5	3.7	3.5
G169.0	4.8	4.8	4.9	5.2	5.1	4.4	3.7	3.5
G170.0	4.8	4.7	4.8	5.0	4.9	4.2	3.7	3.5
G171.0	4.7	4.7	4.7	4.9	4.7	4.0	3.6	3.5
G172.0	4.6	4.6	4.6	4.7	4.5	3.9	3.6	3.4
G173.0	4.5	4.5	4.5	4.5	4.3	3.8	3.5	3.4
G174.0	4.3	4.4	4.4	4.4	4.0	3.6	3.4	3.3
G175.0	4.2	4.3	4.3	4.1	3.6	3.6	3.3	3.3
G176.0	4.1	4.2	4.1	3.9	3.4	3.5	3.2	3.2
G177.0	3.9	4.0	4.0	3.6	3.2	3.3	3.2	3.1
G178.0	3.8	3.8	3.8	3.3	3.1	3.3	3.1	3.2
G179.0	3.7	3.7	3.6	3.0	2.9	3.1	3.2	3.3
G180.0	3.5	3.5	3.3	2.8	2.8	3.2	3.4	3.4

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	255.6	255.6	255.6	255.6	255.6	255.6	255.6	255.6
G1.0	255.6	255.6	255.6	255.6	255.5	255.5	255.5	255.5
G2.0	255.5	255.5	255.5	255.4	255.4	255.3	255.3	255.3
G3.0	255.3	255.3	255.3	255.2	255.2	255.0	255.0	254.9
G4.0	255.0	255.0	255.0	254.9	254.9	254.7	254.6	254.5
G5.0	254.6	254.6	254.6	254.5	254.5	254.3	254.1	254.0
G6.0	254.1	254.1	254.1	254.1	254.0	253.8	253.5	253.3
G7.0	253.5	253.5	253.5	253.6	253.4	253.2	252.8	252.7
G8.0	252.8	252.8	252.9	252.9	252.8	252.5	252.1	251.9
G9.0	252.0	252.0	252.2	252.1	252.1	251.6	251.3	250.8
G10.0	251.0	251.2	251.4	251.3	251.3	250.8	250.4	249.9
G11.0	250.0	250.2	250.3	250.5	250.4	249.9	249.4	248.8
G12.0	248.9	249.2	249.4	249.5	249.3	248.9	248.1	247.7
G13.0	247.7	248.1	248.3	248.5	248.3	247.9	247.0	246.4
G14.0	246.4	246.6	247.1	247.4	247.2	246.7	245.7	245.1
G15.0	245.0	245.3	245.9	246.1	246.1	245.3	244.4	243.6
G16.0	243.5	243.8	244.6	244.8	244.8	243.9	243.0	241.7
G17.0	241.5	242.2	243.2	243.5	243.6	242.6	241.4	240.0
G18.0	239.8	240.6	241.4	242.1	242.2	241.1	239.8	238.2
G19.0	237.9	238.8	239.8	240.7	240.5	239.6	237.8	236.3
G20.0	236.0	236.9	238.1	239.2	239.0	238.0	236.0	234.3
G21.0	234.0	234.6	236.4	237.2	237.4	236.4	234.1	232.2
G22.0	231.8	232.5	234.5	235.6	235.8	234.3	232.1	230.0
G23.0	229.6	230.4	232.6	233.8	234.1	232.5	230.0	227.3
G24.0	226.8	228.1	230.1	232.0	232.3	230.6	227.9	224.9
G25.0	224.4	225.8	228.0	230.1	230.1	228.6	225.2	222.5
G26.0	221.9	223.4	225.8	228.2	228.3	226.6	222.9	219.9
G27.0	219.2	220.4	223.5	226.2	226.3	224.5	220.5	217.3
G28.0	216.5	217.8	221.2	223.7	224.4	221.9	218.0	214.6
G29.0	213.7	215.1	218.8	221.6	222.3	219.7	215.5	211.2
G30.0	210.2	212.4	216.3	219.4	220.2	217.5	212.9	208.3
G31.0	207.3	209.5	213.2	217.1	217.6	215.1	210.3	205.4
G32.0	204.2	206.5	210.6	214.8	215.4	212.7	206.9	202.3
G33.0	201.0	203.5	207.9	212.4	213.1	210.2	204.1	199.2
G34.0	197.8	199.8	205.1	209.4	210.8	207.7	201.2	196.0
G35.0	194.5	196.6	202.2	206.9	208.4	204.7	198.3	192.1
G36.0	191.1	193.4	199.4	204.3	206.0	202.0	195.3	188.8
G37.0	186.9	190.0	195.8	201.7	203.5	199.3	192.2	185.4
G38.0	183.4	186.6	192.7	199.0	200.5	196.5	188.5	181.9
G39.0	179.8	183.2	189.6	196.3	198.0	193.7	185.3	178.4

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	176.2	179.0	186.4	193.5	195.4	190.9	182.1	174.9
G41.0	172.4	175.4	183.2	190.1	192.8	187.4	178.8	171.3
G42.0	168.7	171.8	179.9	187.3	190.1	184.5	175.4	166.9
G43.0	164.1	168.1	176.6	184.3	187.4	181.6	172.1	163.2
G44.0	160.2	164.3	172.6	181.4	184.1	178.6	168.7	159.5
G45.0	156.3	160.6	169.2	178.5	181.3	175.6	164.6	155.7
G46.0	152.4	156.0	165.7	175.5	178.5	172.5	161.1	151.9
G47.0	148.4	152.1	162.2	171.8	175.6	168.8	157.6	148.0
G48.0	144.3	148.3	158.7	168.8	172.7	165.7	154.1	143.4
G49.0	139.5	144.4	155.1	165.7	169.7	162.6	150.6	139.5
G50.0	135.5	140.5	150.9	162.5	166.6	159.4	147.0	135.6
G51.0	131.4	136.6	147.3	159.2	162.9	156.1	142.7	131.7
G52.0	127.3	132.6	143.7	155.9	159.8	152.8	139.1	127.7
G53.0	123.2	127.8	140.1	152.5	156.7	149.4	135.5	123.8
G54.0	119.1	123.9	136.5	148.5	153.6	145.4	131.9	119.9
G55.0	115.0	119.9	132.8	145.2	150.5	142.1	128.3	115.2
G56.0	110.0	115.9	129.2	141.9	147.3	138.7	124.7	111.2
G57.0	105.8	111.9	124.8	138.5	143.5	135.3	121.2	107.3
G58.0	101.7	107.9	121.1	135.1	140.3	132.0	116.8	103.3
G59.0	97.7	104.0	117.3	131.8	137.2	128.6	113.3	99.5
G60.0	93.6	99.2	113.7	127.8	134.1	124.6	109.7	95.6
G61.0	89.5	95.3	110.0	124.4	130.9	121.3	106.1	90.9
G62.0	85.4	91.4	106.3	121.1	127.7	118.0	102.5	87.1
G63.0	80.6	87.5	102.0	117.8	124.0	114.6	99.0	83.2
G64.0	76.6	83.6	98.4	114.5	120.9	111.4	94.8	79.5
G65.0	72.6	79.8	94.9	111.2	117.8	108.1	91.3	75.7
G66.0	68.7	75.2	91.3	108.0	114.7	104.8	87.9	72.0
G67.0	64.7	71.5	87.8	104.1	111.6	100.9	84.5	68.3
G68.0	60.8	67.8	84.4	100.9	108.6	97.7	81.1	64.0
G69.0	56.3	64.2	81.0	97.8	105.6	94.6	77.9	60.4
G70.0	52.5	60.6	77.0	94.7	102.0	91.4	74.6	56.9
G71.0	48.8	57.0	73.6	91.6	99.1	88.3	70.7	53.5
G72.0	45.1	53.5	70.4	88.5	96.1	85.3	67.5	50.2
G73.0	41.5	49.3	67.2	84.9	93.2	82.2	64.4	46.9
G74.0	38.0	46.0	64.1	82.0	90.4	78.7	61.4	43.7
G75.0	33.8	42.8	61.1	79.2	87.6	75.8	58.4	40.0
G76.0	30.5	39.6	57.5	76.4	84.2	73.0	55.6	37.0
G77.0	27.3	36.5	54.6	73.6	81.4	70.2	52.2	34.1
G78.0	24.2	33.5	51.7	70.9	78.7	67.5	49.5	31.3
G79.0	21.2	30.0	48.9	68.3	76.1	64.9	46.9	28.6

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	18.5	27.3	46.1	65.2	73.4	61.7	44.3	25.9
G81.0	15.9	24.6	43.4	62.7	70.8	59.2	41.8	22.8
G82.0	13.1	22.0	40.7	60.2	68.3	56.7	39.4	20.3
G83.0	11.0	19.6	37.6	57.8	65.2	54.2	37.1	18.0
G84.0	9.0	17.3	35.1	55.5	62.7	51.9	34.4	15.7
G85.0	7.2	14.7	32.7	53.3	60.2	49.6	32.2	13.6
G86.0	5.6	12.6	30.4	50.6	57.7	46.8	30.2	11.6
G87.0	4.2	10.8	28.2	48.6	55.2	44.7	28.2	9.7
G88.0	2.8	9.0	26.2	46.5	52.8	42.6	26.4	7.6
G89.0	1.9	7.5	23.9	44.5	49.9	40.6	24.8	6.2
G90.0	1.2	6.2	22.2	42.4	47.4	38.5	22.8	4.9
G91.0	0.7	5.1	20.7	40.3	44.9	36.6	21.4	3.9
G92.0	0.6	4.6	19.5	38.1	42.4	34.6	20.3	3.5
G93.0	0.6	4.3	18.4	35.6	40.0	32.5	19.4	3.3
G94.0	0.7	4.1	17.4	33.6	37.6	30.8	18.7	3.1
G95.0	0.7	3.9	16.4	31.7	34.8	29.3	17.9	2.9
G96.0	0.8	3.7	15.7	29.8	32.6	27.8	17.1	2.7
G97.0	0.9	3.5	15.1	27.9	30.5	26.5	16.4	2.6
G98.0	0.9	3.4	14.6	26.4	28.6	25.4	15.8	2.5
G99.0	1.0	3.2	14.1	25.0	26.9	24.2	15.2	2.4
G100.0	1.1	3.0	13.7	24.0	25.6	23.3	14.6	2.2
G101.0	1.2	2.9	13.1	23.0	24.4	22.4	14.0	2.1
G102.0	1.3	2.7	12.7	22.0	23.0	21.5	13.4	2.0
G103.0	1.4	2.6	12.3	21.0	21.9	20.6	12.7	1.9
G104.0	1.5	2.5	11.8	19.9	20.9	19.8	12.1	1.9
G105.0	1.6	2.4	11.3	18.8	19.8	18.7	11.6	1.9
G106.0	1.6	2.3	10.7	17.8	18.8	17.8	11.0	2.0
G107.0	1.6	2.3	10.1	16.8	17.8	16.9	10.3	2.1
G108.0	1.6	2.2	9.4	15.9	16.7	16.0	9.7	2.2
G109.0	1.6	2.1	8.9	15.0	15.7	15.2	9.0	2.3
G110.0	1.6	2.2	8.4	14.1	14.8	14.4	8.5	2.4
G111.0	1.6	2.3	7.9	13.1	13.8	13.5	7.9	2.5
G112.0	1.6	2.3	7.4	12.3	13.0	12.7	7.4	2.6
G113.0	1.6	2.4	7.0	11.6	12.1	11.9	6.9	2.7
G114.0	1.6	2.5	6.5	10.8	11.2	11.2	6.5	2.9
G115.0	1.7	2.6	6.1	10.0	10.4	10.6	6.0	3.0
G116.0	1.7	2.7	5.7	9.2	9.7	9.9	5.6	3.1
G117.0	1.8	2.8	5.4	8.4	8.3	9.3	5.2	3.2
G118.0	1.9	2.9	5.1	7.5	7.7	8.6	4.8	3.3
G119.0	2.0	3.0	4.7	6.9	7.2	8.0	4.5	3.5

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
G120.0	2.0	3.1	4.4	6.2	6.9	7.5	4.3	3.6
G121.0	2.1	3.2	4.1	5.7	6.4	7.0	4.2	3.7
G122.0	2.2	3.4	4.0	5.1	6.1	6.5	4.2	3.8
G123.0	2.3	3.5	4.0	4.6	5.9	6.1	4.3	4.0
G124.0	2.4	3.6	4.0	4.2	5.7	5.6	4.4	4.1
G125.0	2.5	3.7	4.1	4.0	5.5	5.3	4.5	4.2
G126.0	2.7	3.8	4.2	3.9	5.4	5.0	4.5	4.2
G127.0	2.9	4.0	4.3	3.8	5.2	4.9	4.6	4.3
G128.0	3.0	4.0	4.3	3.8	5.2	4.8	4.7	4.3
G129.0	3.1	4.1	4.3	3.8	5.1	4.8	4.8	4.4
G130.0	3.2	4.1	4.3	3.8	5.2	4.8	4.9	4.4
G131.0	3.3	4.1	4.3	3.8	5.3	4.9	5.0	4.4
G132.0	3.4	4.2	4.4	3.9	5.4	4.9	5.0	4.5
G133.0	3.4	4.2	4.4	4.0	5.5	4.9	5.1	4.5
G134.0	3.5	4.2	4.4	4.1	5.6	5.0	5.2	4.6
G135.0	3.6	4.3	4.5	4.2	5.7	5.0	5.2	4.6
G136.0	3.6	4.3	4.6	4.4	5.8	5.0	5.3	4.6
G137.0	3.7	4.3	4.6	4.6	5.9	5.1	5.3	4.7
G138.0	3.8	4.2	4.7	4.7	5.9	5.2	5.3	4.7
G139.0	3.8	4.2	4.7	4.8	5.9	5.2	5.4	4.8
G140.0	3.9	4.2	4.7	4.9	5.9	5.3	5.4	4.8
G141.0	4.1	4.1	4.7	5.0	6.0	5.4	5.5	4.8
G142.0	4.2	4.1	4.8	5.2	6.1	5.4	5.6	4.9
G143.0	4.3	4.1	4.7	5.3	6.2	5.4	5.6	4.9
G144.0	4.4	4.1	4.8	5.4	6.4	5.6	5.7	4.9
G145.0	4.4	4.1	4.7	5.5	6.5	5.7	5.6	4.9
G146.0	4.4	4.1	4.7	5.6	6.6	5.8	5.5	4.8
G147.0	4.5	4.1	4.6	5.7	6.7	5.9	5.4	4.7
G148.0	4.5	4.1	4.6	5.8	6.8	6.0	5.3	4.7
G149.0	4.5	4.1	4.5	5.9	6.9	6.1	5.3	4.6
G150.0	4.5	4.1	4.5	5.9	7.0	6.3	5.2	4.6
G151.0	4.4	4.1	4.5	5.9	7.1	6.5	5.2	4.6
G152.0	4.4	4.0	4.5	5.9	7.1	6.5	5.2	4.5
G153.0	4.4	4.0	4.4	5.9	7.1	6.4	5.1	4.5
G154.0	4.3	4.0	4.4	5.8	7.0	6.3	5.0	4.5
G155.0	4.3	3.9	4.4	5.7	6.9	6.2	5.0	4.5
G156.0	4.2	3.9	4.3	5.7	6.7	6.0	5.0	4.5
G157.0	4.2	3.8	4.2	5.6	6.6	5.9	4.9	4.5
G158.0	4.1	3.8	4.1	5.6	6.4	5.7	4.9	4.4
G159.0	4.1	3.8	4.1	5.4	6.2	5.7	4.8	4.5

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	4.0	3.7	4.0	5.4	6.0	5.6	4.8	4.7
G161.0	3.9	3.7	3.9	5.3	5.9	5.4	4.8	4.8
G162.0	3.9	3.6	3.8	5.2	5.7	5.3	4.7	4.8
G163.0	3.9	3.5	3.8	5.1	5.5	5.2	4.6	4.8
G164.0	3.9	3.4	3.7	5.0	5.4	5.1	4.6	4.7
G165.0	3.8	3.4	3.6	4.8	5.2	5.0	4.6	4.7
G166.0	3.8	3.4	3.6	4.7	5.0	4.9	4.5	4.7
G167.0	3.8	3.4	3.5	4.6	4.9	4.7	4.5	4.6
G168.0	3.7	3.5	3.5	4.4	4.7	4.6	4.5	4.6
G169.0	3.6	3.5	3.5	4.1	4.5	4.5	4.4	4.5
G170.0	3.6	3.5	3.4	3.9	4.4	4.3	4.3	4.4
G171.0	3.6	3.4	3.4	3.7	4.2	4.2	4.3	4.3
G172.0	3.5	3.4	3.3	3.6	4.0	4.1	4.2	4.2
G173.0	3.4	3.3	3.3	3.4	3.7	4.0	4.1	4.1
G174.0	3.4	3.2	3.3	3.3	3.4	3.9	3.9	4.0
G175.0	3.3	3.2	3.2	3.1	3.1	3.7	3.8	3.9
G176.0	3.2	3.1	3.2	2.9	3.0	3.5	3.7	3.8
G177.0	3.2	3.1	3.1	2.9	2.9	3.3	3.6	3.6
G178.0	3.2	3.2	3.2	2.8	2.9	3.1	3.4	3.5
G179.0	3.4	3.4	3.4	2.8	2.9	2.9	3.3	3.5
G180.0	3.5	3.5	3.5	3.3	2.9	2.8	3.2	3.4