

### Goniophotometers System Test Report

#### Product Info

Luminaire Category : LED Bulkhead Light

Luminaire : 3000K Black

Lamp Category : SMD

Lamp : F9092

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 : 229.78 V Current : 0.1205 A Power : 14.70 W Power Factor : 0.5310 Frequency : 50.00 Hz

#### Photometric Parameters

CIE Class : Direct

Measurement Flux : 834.1 lm

Upward Ratio : 4.62 %

Maximum Intensity : 255.92 cd

Central Intensity : 255.15 cd

Luminaire Efficacy Rating (LER) : 57

Beam Angle (C0-C180,C90-C270) : 115.7 °, 118.0 °

Field Angle (C0-C180,C90-C270) : 169.1 °, 172.9 °

Total Rated Lamp Lumens : 834.1 lm

Efficiency : 100.00 %

Downward Ratio : 95.38 %

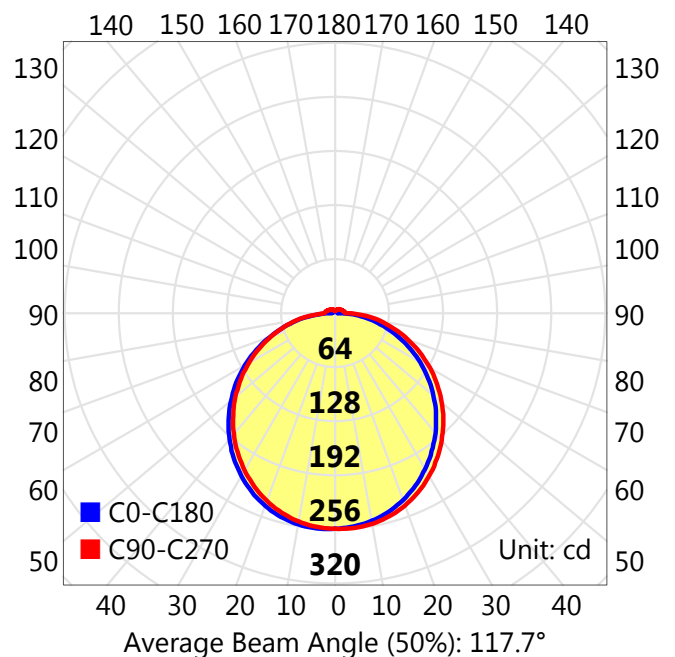
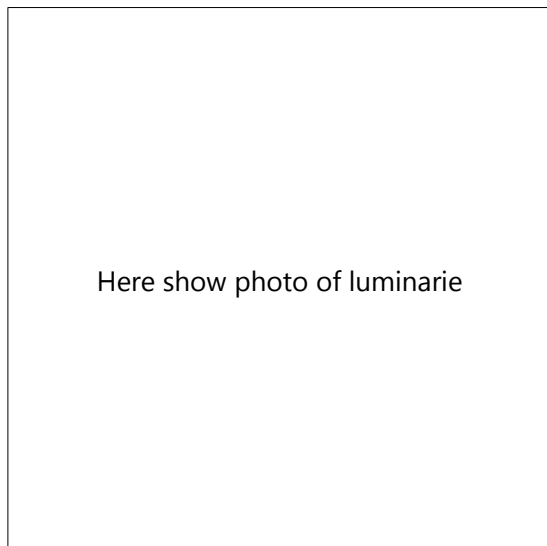
Position Of Maximum Intensity : C157.5° γ5°

S/MH(C0-C180,C90-C270) : 1.27, 1.27

Energy Efficiency Class : A (EU 874/2012 EEI:0.222)

Beam Angle (C45-C225,C135-C315) : 118.5 °, 118.2 °

Field Angle (C45-C225,C135-C315) : 171.6 °, 171.3 °



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

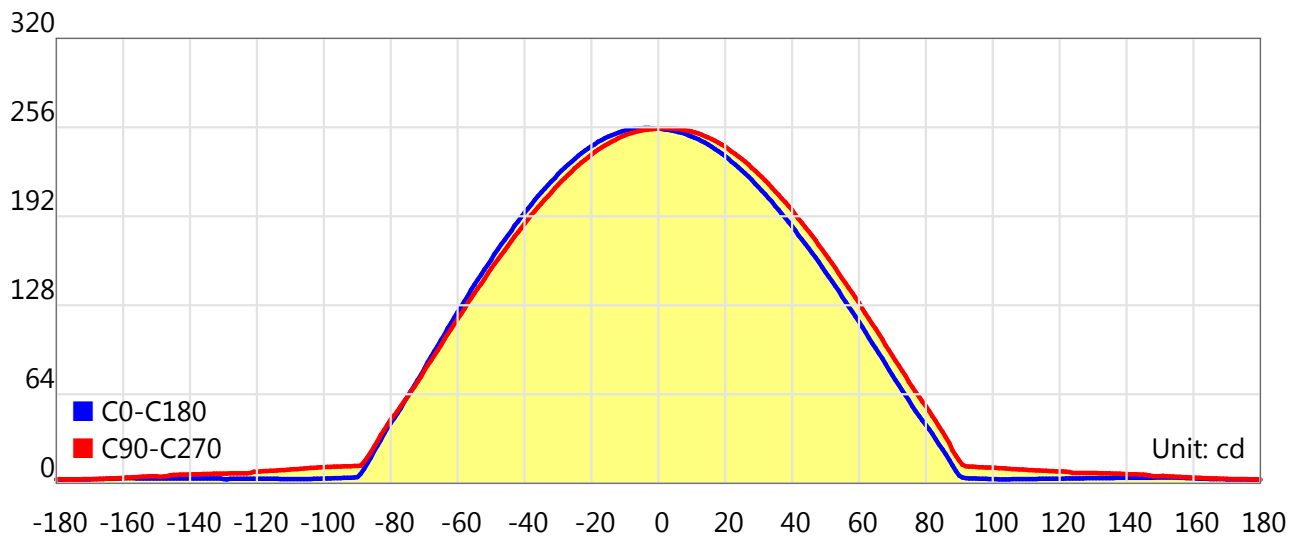
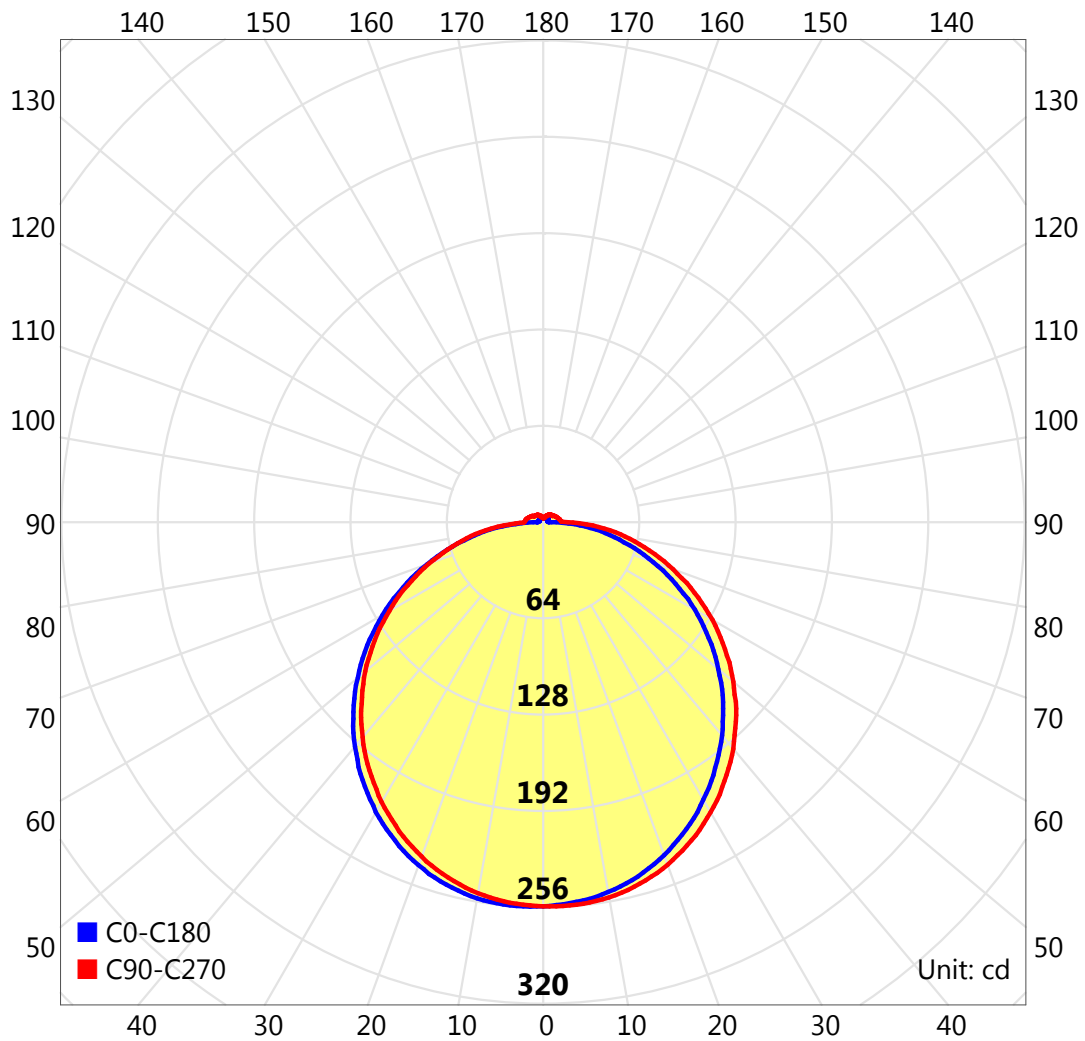
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

### Light Distribution 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

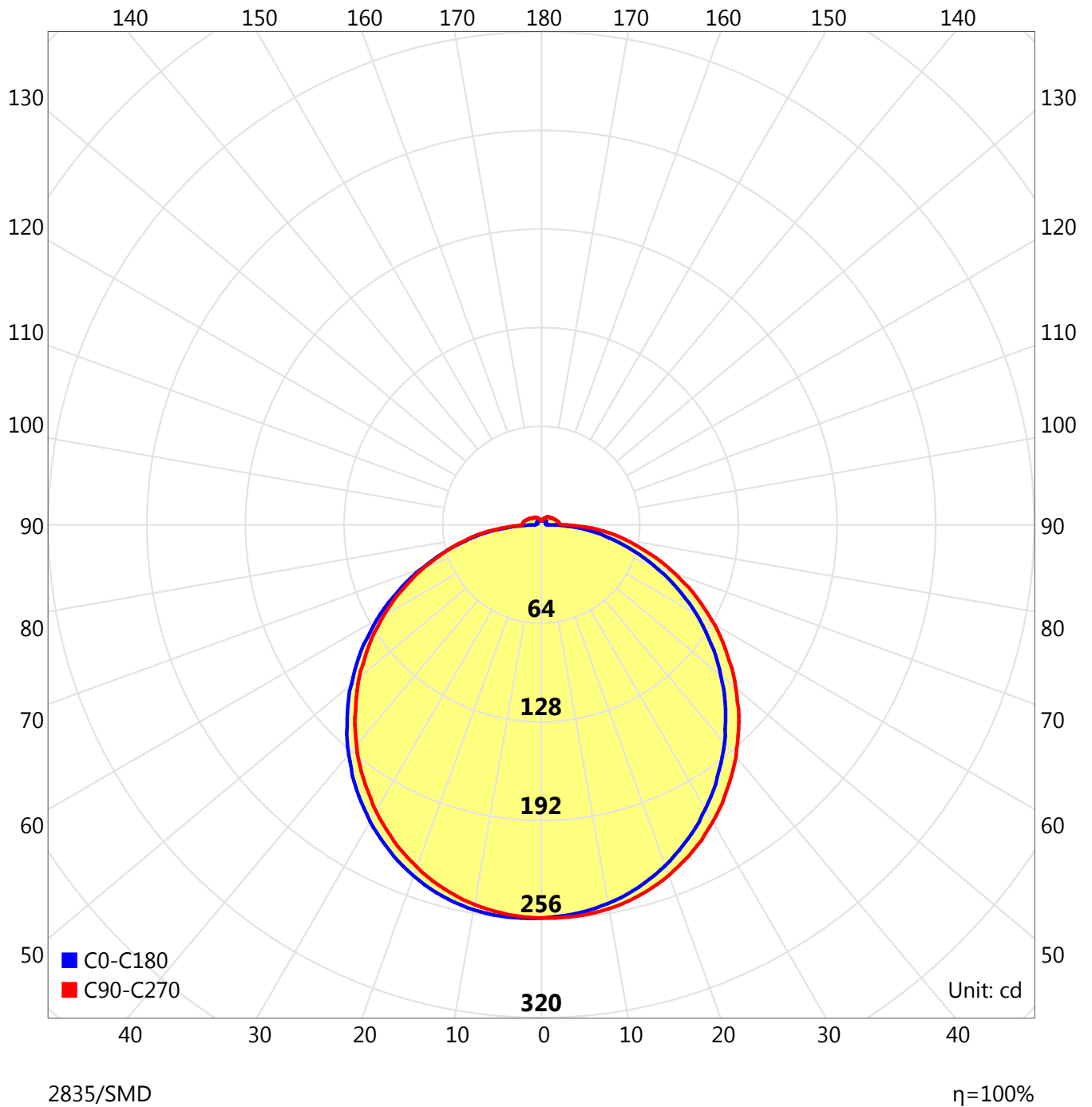
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

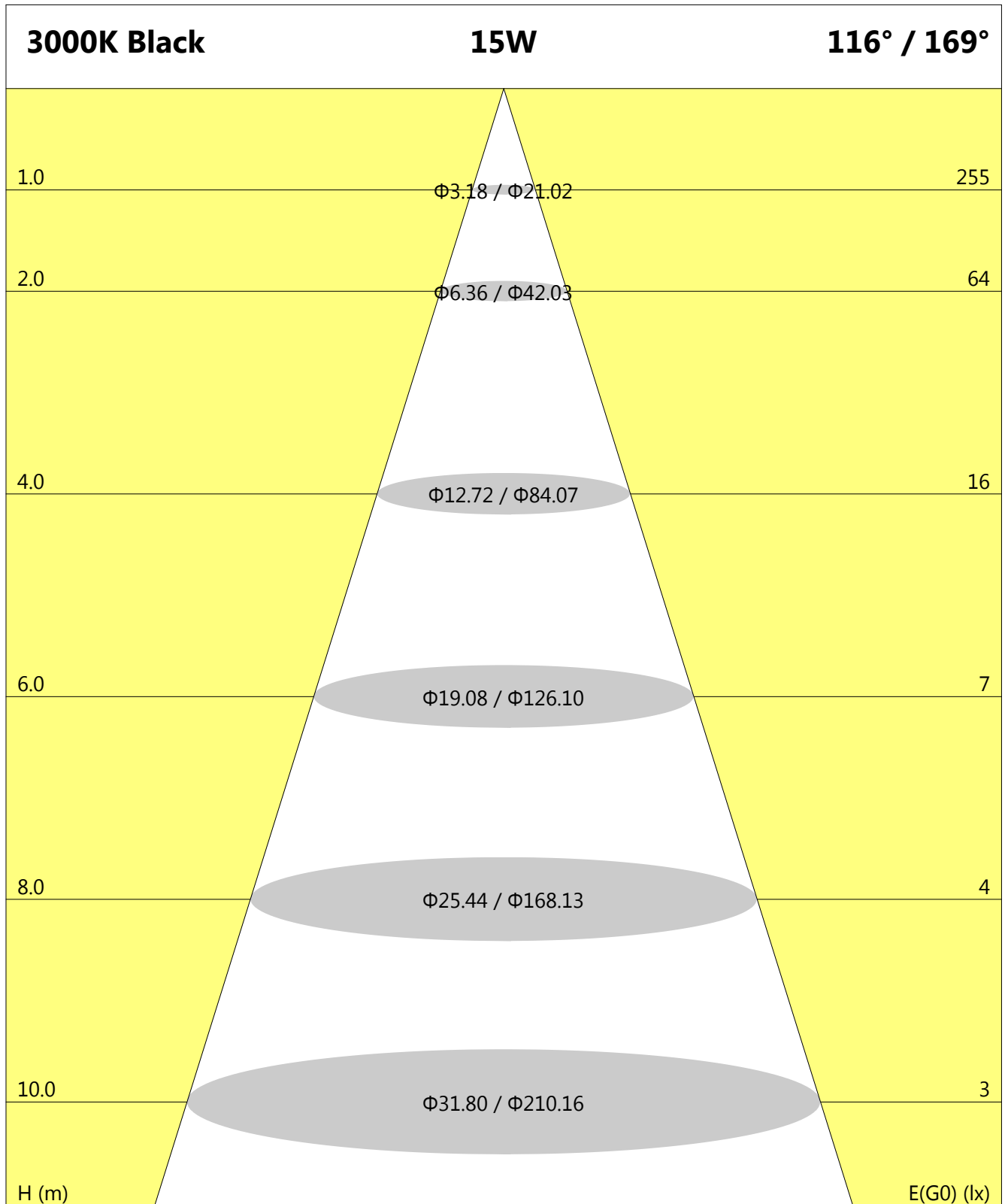
Review By :TMI

Humidity : 65.0%

### Light Distribution Curve (cd/klm)



**Lux-Distance**



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

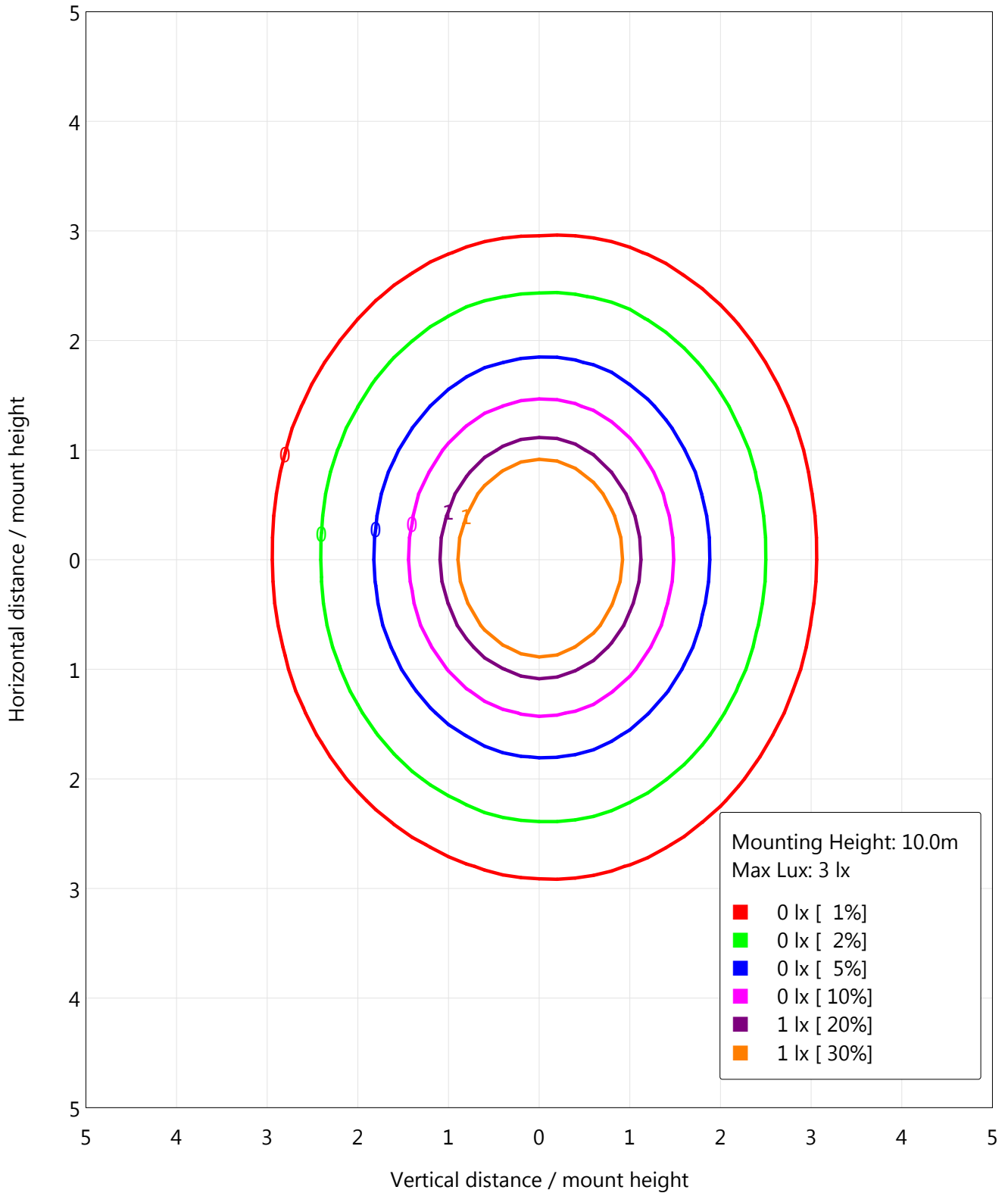
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

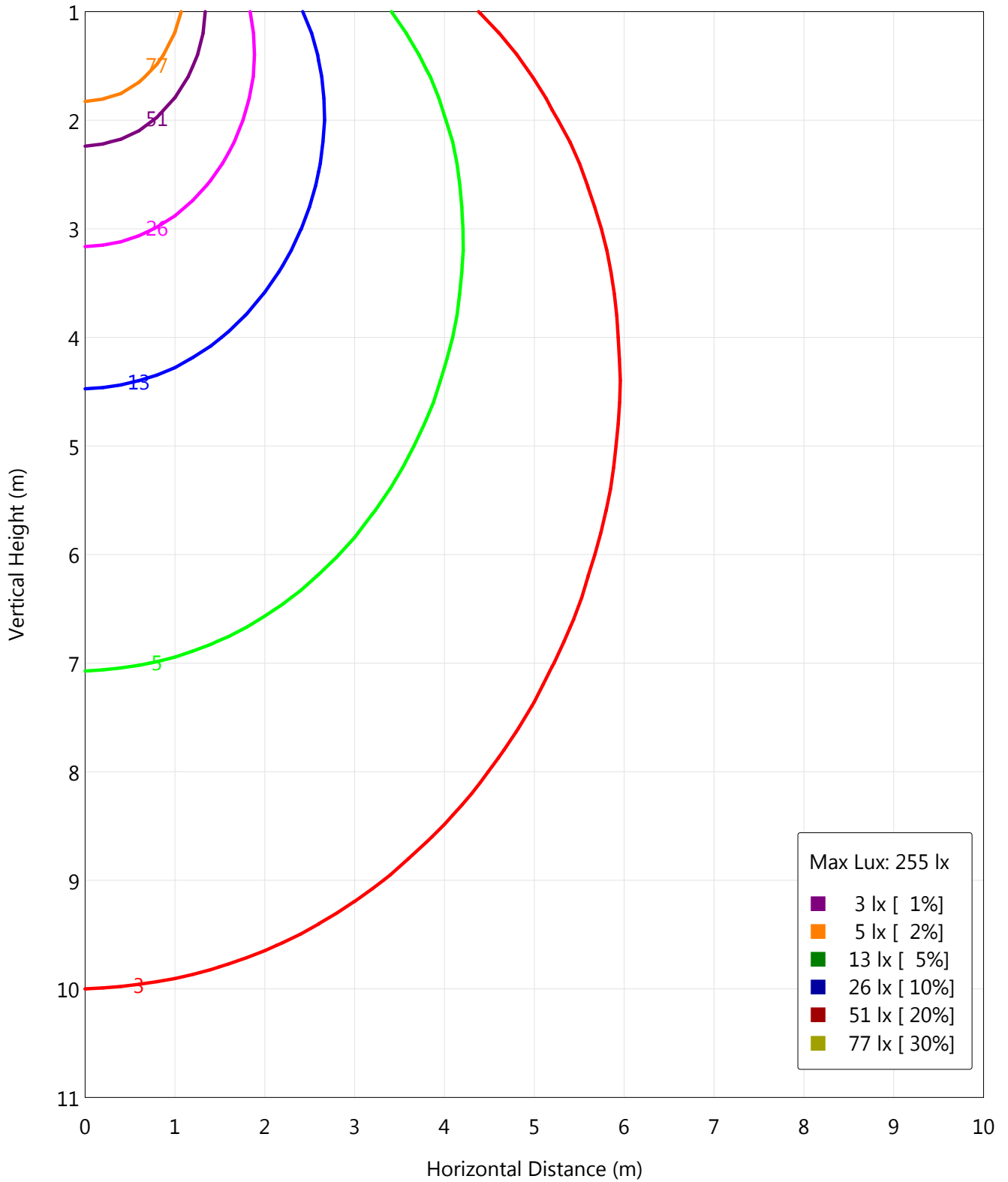
Humidity : 65.0%

Review By :TMI

### 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

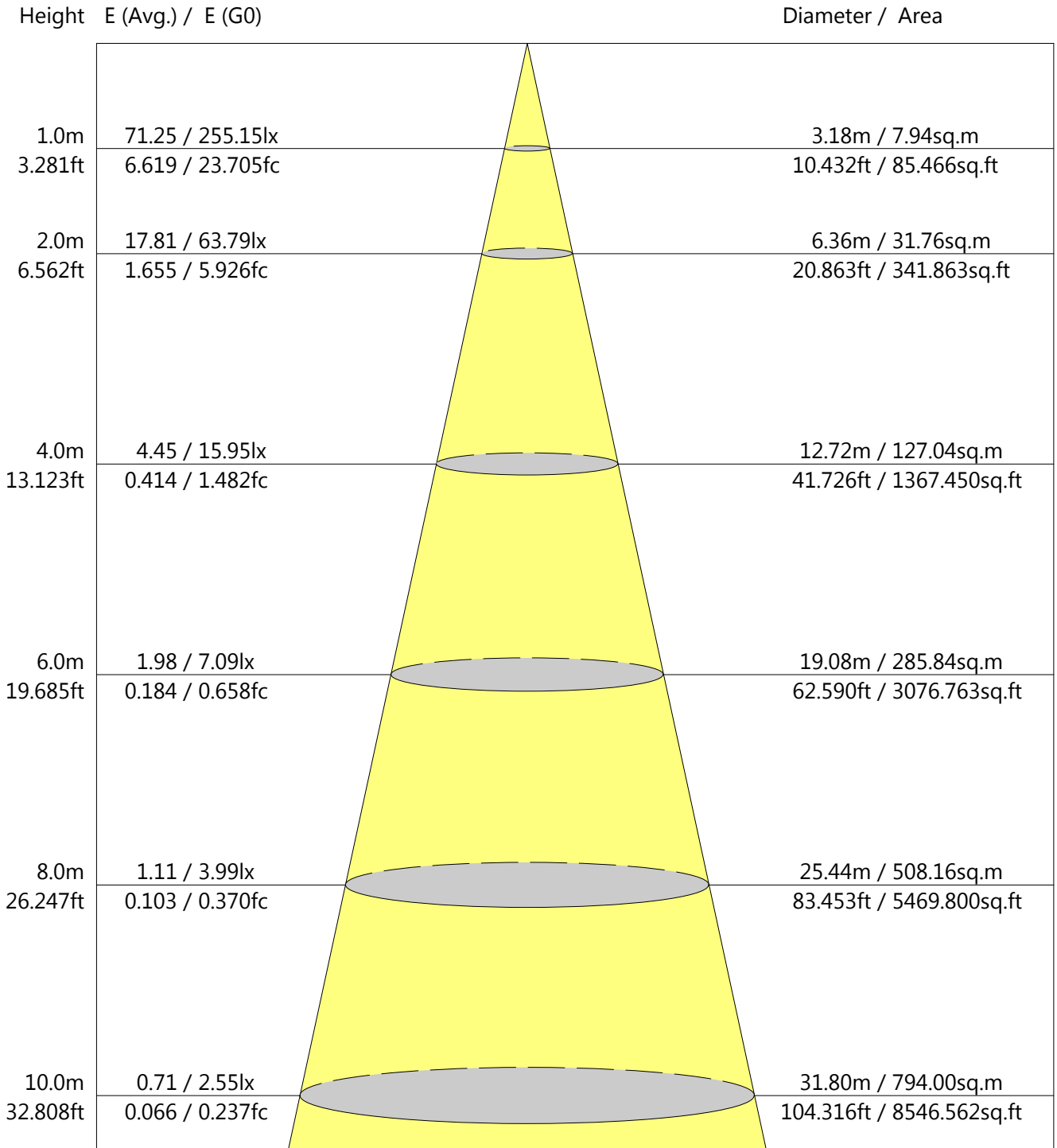
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Review By :TMI

Humidity : 65.0%

### Average Illuminance Effective Figure



Beam Angle: 115.7° Flux Out: 565.72lm

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

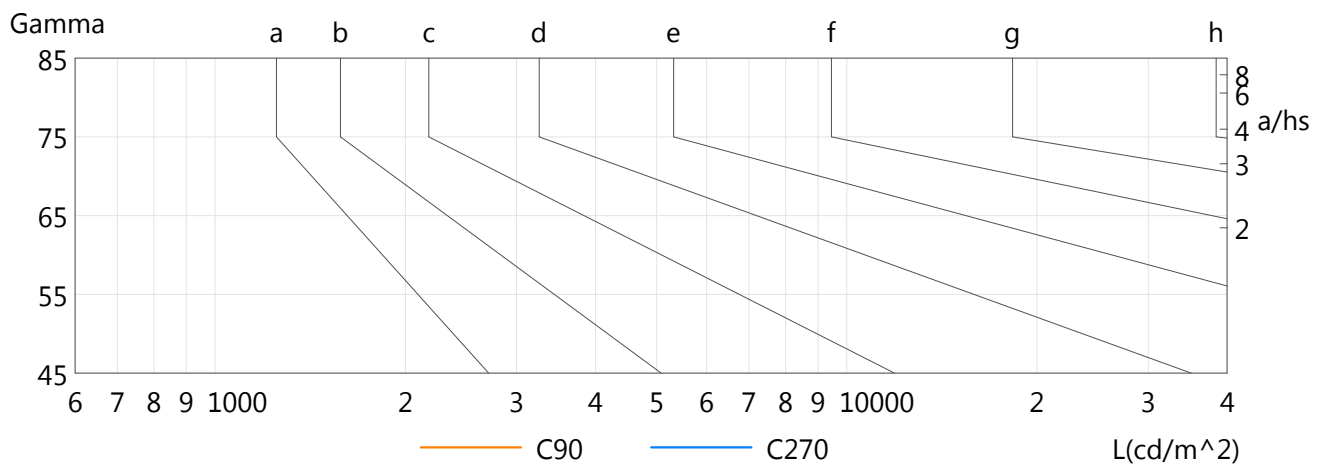
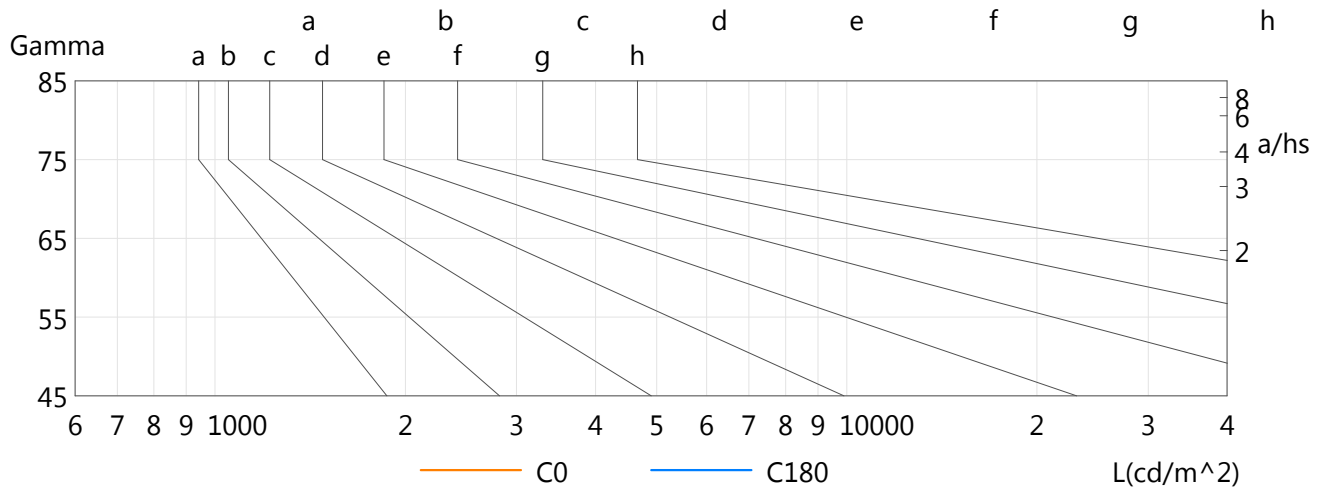
Review By :TMI

Humidity : 65.0%

### Lumen Limit Curve

L (cd/m <sup>2</sup> )	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	169	152	134	116	97	78	60	42	25
C90	181	165	147	130	111	92	73	55	37
C270	178	161	143	123	103	82	62	43	23
C90	171	154	137	118	99	81	63	46	26

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 By : ZK

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	0.92	0.97	1.00
	0.30		0.45	0.55	0.63	0.68	0.77	0.82	0.87	0.92	0.96
	0.20		0.39	0.49	0.57	0.63	0.71	0.77	0.82	0.88	0.93
0.50	0.50	0.20	0.51	0.61	0.67	0.72	0.79	0.84	0.88	0.92	0.95
	0.30		0.44	0.54	0.61	0.66	0.74	0.79	0.83	0.88	0.92
	0.20		0.39	0.48	0.55	0.61	0.69	0.75	0.79	0.85	0.89
0.30	0.50	0.20	0.49	0.58	0.65	0.69	0.76	0.80	0.83	0.88	0.90
	0.30		0.43	0.52	0.59	0.64	0.71	0.76	0.80	0.84	0.88
	0.20		0.38	0.47	0.54	0.59	0.67	0.72	0.76	0.82	0.85
0.00	0.00	0.00	0.35	0.44	0.51	0.56	0.63	0.68	0.71	0.76	0.79

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	0.86	0.74	0.65	0.52	0.44	0.38	0.30	0.24
	0.30		0.86	0.73	0.64	0.57	0.47	0.40	0.35	0.28	0.23
	0.20		0.74	0.64	0.57	0.51	0.43	0.37	0.33	0.26	0.22
0.50	0.50	0.20	0.98	0.82	0.70	0.62	0.50	0.45	0.36	0.28	0.23
	0.30		0.83	0.71	0.62	0.55	0.45	0.39	0.34	0.27	0.22
	0.20		0.72	0.63	0.56	0.50	0.42	0.36	0.31	0.25	0.21
0.30	0.50	0.20	0.95	0.78	0.67	0.59	0.47	0.39	0.34	0.27	0.22
	0.30		0.81	0.69	0.60	0.53	0.44	0.37	0.32	0.25	0.21
	0.20		0.71	0.61	0.54	0.49	0.41	0.35	0.30	0.24	0.20
0.00	0.00	0.00	0.60	0.51	0.45	0.40	0.33	0.28	0.24	0.19	0.16

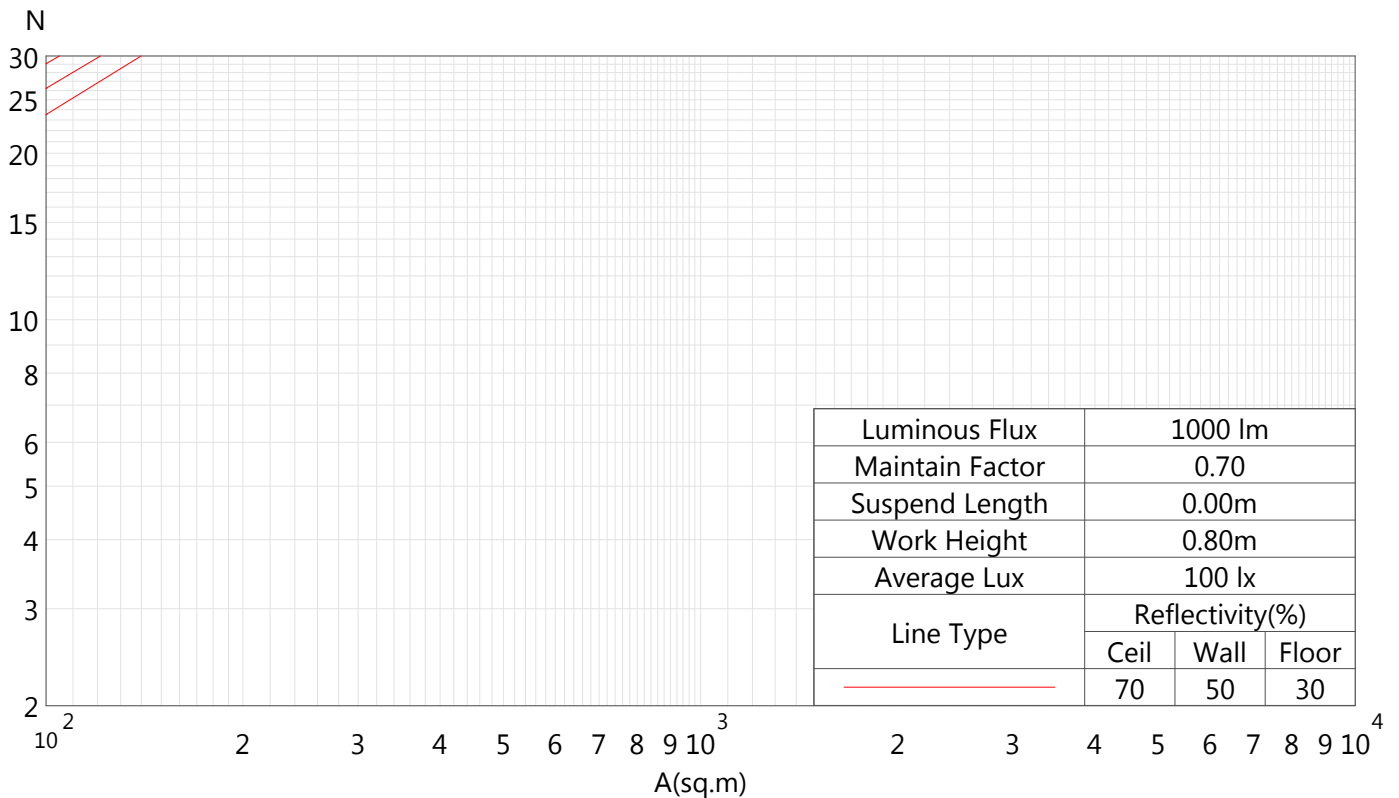
Utilisation Factors UF (C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.21	0.22	0.23	0.24	0.25	0.25	0.26	0.26	0.26
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.21	0.23	0.24
	0.20		0.09	0.10	0.12	0.13	0.15	0.17	0.18	0.20	0.21
0.50	0.50	0.20	0.20	0.22	0.22	0.23	0.24	0.24	0.25	0.25	0.25
	0.30		0.14	0.15	0.16	0.17	0.19	0.20	0.21	0.22	0.23
	0.20		0.09	0.10	0.12	0.13	0.15	0.16	0.17	0.19	0.20
0.30	0.50	0.20	0.20	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.24
	0.30		0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22
	0.20		0.09	0.10	0.12	0.13	0.15	0.16	0.17	0.19	0.20
0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Rating: 15W 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	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	107	101	97	92	103	99	94	90	93	90	87	89	86	83	84	82	80	77
2	96	88	80	74	93	85	79	73	81	75	71	77	72	68	73	69	66	64
3	88	76	68	61	85	75	67	60	71	64	59	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	54	48	57	52	47	45
5	73	60	51	44	71	59	50	44	56	48	43	54	47	42	51	45	41	39
6	68	54	45	38	65	53	44	38	51	43	37	48	42	36	46	40	36	34
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	32	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

Spacing Criteria: 1.27 (0-180), 1.27 (90-270), 1.40 (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	255.1	0.2	0.2	0.03	0.03
1.0-2.0	255.1	0.7	1.0	0.09	0.12
2.0-3.0	254.9	1.2	2.2	0.15	0.26
3.0-4.0	254.8	1.7	3.9	0.20	0.47
4.0-5.0	254.5	2.2	6.1	0.26	0.73
5.0-6.0	254.2	2.7	8.8	0.32	1.05
6.0-7.0	253.8	3.2	11.9	0.38	1.43
7.0-8.0	253.3	3.6	15.5	0.43	1.86
8.0-9.0	252.7	4.1	19.6	0.49	2.35
9.0-10.0	252.0	4.6	24.2	0.55	2.90
10.0-11.0	251.3	5.0	29.2	0.60	3.50
11.0-12.0	250.4	5.5	34.7	0.66	4.16
12.0-13.0	249.5	5.9	40.6	0.71	4.87
13.0-14.0	248.4	6.4	47.0	0.76	5.63
14.0-15.0	247.3	6.8	53.8	0.81	6.45
15.0-16.0	246.1	7.2	61.0	0.86	7.31
16.0-17.0	244.7	7.6	68.6	0.91	8.22
17.0-18.0	243.3	8.0	76.6	0.96	9.19
18.0-19.0	241.8	8.4	85.0	1.01	10.19
19.0-20.0	240.3	8.8	93.8	1.05	11.25
20.0-21.0	238.6	9.2	103.0	1.10	12.35
21.0-22.0	236.9	9.5	112.5	1.14	13.49
22.0-23.0	235.0	9.9	122.4	1.18	14.67
23.0-24.0	233.1	10.2	132.6	1.22	15.89
24.0-25.0	231.1	10.5	143.1	1.26	17.15
25.0-26.0	229.1	10.8	153.9	1.30	18.45
26.0-27.0	227.0	11.1	165.0	1.33	19.78
27.0-28.0	224.8	11.4	176.4	1.36	21.15
28.0-29.0	222.5	11.6	188.0	1.40	22.54
29.0-30.0	220.1	11.9	199.9	1.43	23.97
30.0-31.0	217.7	12.1	212.0	1.45	25.42
31.0-32.0	215.2	12.3	224.4	1.48	26.90
32.0-33.0	212.6	12.5	236.9	1.50	28.40
33.0-34.0	210.1	12.7	249.6	1.52	29.92
34.0-35.0	207.4	12.9	262.5	1.54	31.47
35.0-36.0	204.7	13.0	275.5	1.56	33.03
36.0-37.0	201.9	13.2	288.7	1.58	34.61
37.0-38.0	199.1	13.3	302.0	1.59	36.20
38.0-39.0	196.2	13.4	315.4	1.61	37.81
39.0-40.0	193.3	13.5	328.8	1.62	39.42

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 <sub>mean</sub> cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	190.3	13.6	342.4	1.62	41.05
41.0-42.0	187.2	13.6	356.0	1.63	42.68
42.0-43.0	184.1	13.6	369.6	1.64	44.31
43.0-44.0	181.0	13.7	383.3	1.64	45.95
44.0-45.0	177.8	13.7	397.0	1.64	47.59
45.0-46.0	174.6	13.7	410.6	1.64	49.23
46.0-47.0	171.3	13.6	424.3	1.63	50.86
47.0-48.0	168.1	13.6	437.8	1.63	52.49
48.0-49.0	164.7	13.5	451.4	1.62	54.11
49.0-50.0	161.3	13.4	464.8	1.61	55.72
50.0-51.0	157.8	13.4	478.2	1.60	57.33
51.0-52.0	154.4	13.2	491.4	1.59	58.91
52.0-53.0	150.9	13.1	504.5	1.57	60.49
53.0-54.0	147.4	13.0	517.5	1.56	62.05
54.0-55.0	143.8	12.8	530.4	1.54	63.58
55.0-56.0	140.2	12.7	543.0	1.52	65.10
56.0-57.0	136.6	12.5	555.5	1.50	66.60
57.0-58.0	132.9	12.3	567.8	1.47	68.07
58.0-59.0	129.2	12.1	579.9	1.45	69.52
59.0-60.0	125.5	11.9	591.8	1.42	70.94
60.0-61.0	121.8	11.6	603.4	1.39	72.34
61.0-62.0	118.0	11.4	614.7	1.36	73.70
62.0-63.0	114.2	11.1	625.8	1.33	75.03
63.0-64.0	110.3	10.8	636.7	1.30	76.33
64.0-65.0	106.4	10.5	647.2	1.26	77.59
65.0-66.0	102.6	10.2	657.4	1.23	78.82
66.0-67.0	98.8	9.9	667.4	1.19	80.01
67.0-68.0	94.9	9.6	677.0	1.15	81.16
68.0-69.0	90.9	9.3	686.3	1.11	82.27
69.0-70.0	87.0	8.9	695.2	1.07	83.34
70.0-71.0	83.1	8.6	703.8	1.03	84.37
71.0-72.0	79.2	8.2	712.0	0.99	85.36
72.0-73.0	75.3	7.9	719.9	0.94	86.31
73.0-74.0	71.5	7.5	727.4	0.90	87.21
74.0-75.0	67.7	7.2	734.6	0.86	88.07
75.0-76.0	63.9	6.8	741.4	0.81	88.88
76.0-77.0	60.1	6.4	747.8	0.77	89.65
77.0-78.0	56.4	6.0	753.8	0.72	90.37
78.0-79.0	52.7	5.7	759.5	0.68	91.05
79.0-80.0	49.2	5.3	764.8	0.64	91.69

C Plane : 0.0-360.0:22.5

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**Zonal Flux**

Gamma °	I <sub>mean</sub> cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
80.0-81.0	45.6	4.9	769.7	0.59	92.28
81.0-82.0	42.0	4.6	774.3	0.55	92.83
82.0-83.0	38.2	4.2	778.4	0.50	93.32
83.0-84.0	34.3	3.7	782.2	0.45	93.77
84.0-85.0	30.3	3.3	785.5	0.40	94.17
85.0-86.0	26.2	2.9	788.3	0.34	94.51
86.0-87.0	22.1	2.4	790.8	0.29	94.80
87.0-88.0	18.1	2.0	792.7	0.24	95.04
88.0-89.0	14.4	1.6	794.3	0.19	95.23
89.0-90.0	11.5	1.3	795.6	0.15	95.38
90.0-91.0	9.7	1.1	796.6	0.13	95.51
91.0-92.0	8.7	1.0	797.6	0.11	95.62
92.0-93.0	8.4	0.9	798.5	0.11	95.73
93.0-94.0	8.3	0.9	799.4	0.11	95.84
94.0-95.0	8.2	0.9	800.3	0.11	95.95
95.0-96.0	8.1	0.9	801.2	0.11	96.05
96.0-97.0	8.0	0.9	802.1	0.10	96.16
97.0-98.0	7.8	0.9	802.9	0.10	96.26
98.0-99.0	7.7	0.8	803.8	0.10	96.36
99.0-100.0	7.6	0.8	804.6	0.10	96.46
100.0-101.0	7.4	0.8	805.4	0.10	96.56
101.0-102.0	7.3	0.8	806.2	0.09	96.65
102.0-103.0	7.2	0.8	807.0	0.09	96.74
103.0-104.0	7.1	0.8	807.7	0.09	96.83
104.0-105.0	7.0	0.7	808.4	0.09	96.92
105.0-106.0	6.9	0.7	809.2	0.09	97.01
106.0-107.0	6.8	0.7	809.9	0.09	97.09
107.0-108.0	6.7	0.7	810.6	0.08	97.18
108.0-109.0	6.7	0.7	811.3	0.08	97.26
109.0-110.0	6.6	0.7	812.0	0.08	97.34
110.0-111.0	6.6	0.7	812.6	0.08	97.42
111.0-112.0	6.5	0.7	813.3	0.08	97.50
112.0-113.0	6.5	0.7	814.0	0.08	97.58
113.0-114.0	6.4	0.6	814.6	0.08	97.66
114.0-115.0	6.4	0.6	815.2	0.08	97.74
115.0-116.0	6.4	0.6	815.9	0.08	97.81
116.0-117.0	6.3	0.6	816.5	0.07	97.89
117.0-118.0	6.3	0.6	817.1	0.07	97.96
118.0-119.0	6.3	0.6	817.7	0.07	98.03
119.0-120.0	6.3	0.6	818.3	0.07	98.10

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 <sub>mean</sub> cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
120.0-121.0	6.2	0.6	818.9	0.07	98.18
121.0-122.0	6.2	0.6	819.5	0.07	98.25
122.0-123.0	6.1	0.6	820.1	0.07	98.31
123.0-124.0	6.1	0.6	820.6	0.07	98.38
124.0-125.0	6.1	0.5	821.2	0.07	98.45
125.0-126.0	6.0	0.5	821.7	0.06	98.51
126.0-127.0	6.0	0.5	822.2	0.06	98.57
127.0-128.0	6.0	0.5	822.7	0.06	98.64
128.0-129.0	5.9	0.5	823.2	0.06	98.70
129.0-130.0	5.8	0.5	823.7	0.06	98.76
130.0-131.0	5.8	0.5	824.2	0.06	98.81
131.0-132.0	5.7	0.5	824.7	0.06	98.87
132.0-133.0	5.7	0.5	825.2	0.05	98.92
133.0-134.0	5.5	0.4	825.6	0.05	98.98
134.0-135.0	5.4	0.4	826.0	0.05	99.03
135.0-136.0	5.4	0.4	826.4	0.05	99.08
136.0-137.0	5.4	0.4	826.8	0.05	99.13
137.0-138.0	5.3	0.4	827.2	0.05	99.17
138.0-139.0	5.2	0.4	827.6	0.05	99.22
139.0-140.0	5.1	0.4	828.0	0.04	99.26
140.0-141.0	5.0	0.4	828.3	0.04	99.31
141.0-142.0	5.0	0.3	828.7	0.04	99.35
142.0-143.0	4.9	0.3	829.0	0.04	99.39
143.0-144.0	4.9	0.3	829.3	0.04	99.42
144.0-145.0	4.8	0.3	829.6	0.04	99.46
145.0-146.0	4.8	0.3	829.9	0.04	99.50
146.0-147.0	4.7	0.3	830.2	0.03	99.53
147.0-148.0	4.6	0.3	830.5	0.03	99.56
148.0-149.0	4.5	0.3	830.7	0.03	99.59
149.0-150.0	4.4	0.2	831.0	0.03	99.62
150.0-151.0	4.4	0.2	831.2	0.03	99.65
151.0-152.0	4.4	0.2	831.4	0.03	99.68
152.0-153.0	4.3	0.2	831.7	0.03	99.70
153.0-154.0	4.2	0.2	831.9	0.02	99.73
154.0-155.0	4.2	0.2	832.1	0.02	99.75
155.0-156.0	4.1	0.2	832.2	0.02	99.77
156.0-157.0	4.0	0.2	832.4	0.02	99.80
157.0-158.0	3.9	0.2	832.6	0.02	99.82
158.0-159.0	3.9	0.2	832.7	0.02	99.83
159.0-160.0	3.8	0.1	832.9	0.02	99.85

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 <sub>mean</sub> cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
160.0-161.0	3.7	0.1	833.0	0.02	99.87
161.0-162.0	3.6	0.1	833.1	0.01	99.88
162.0-163.0	3.5	0.1	833.3	0.01	99.90
163.0-164.0	3.4	0.1	833.4	0.01	99.91
164.0-165.0	3.4	0.1	833.5	0.01	99.92
165.0-166.0	3.3	0.1	833.6	0.01	99.93
166.0-167.0	3.2	0.1	833.6	0.01	99.94
167.0-168.0	3.2	0.1	833.7	0.01	99.95
168.0-169.0	3.1	0.1	833.8	0.01	99.96
169.0-170.0	3.1	0.1	833.8	0.01	99.97
170.0-171.0	3.0	0.1	833.9	0.01	99.97
171.0-172.0	3.0	0.0	833.9	0.01	99.98
172.0-173.0	3.0	0.0	834.0	0.01	99.98
173.0-174.0	2.9	0.0	834.0	0.00	99.99
174.0-175.0	2.9	0.0	834.1	0.00	99.99
175.0-176.0	2.9	0.0	834.1	0.00	99.99
176.0-177.0	2.9	0.0	834.1	0.00	100.00
177.0-178.0	2.8	0.0	834.1	0.00	100.00
178.0-179.0	2.9	0.0	834.1	0.00	100.00
179.0-180.0	2.9	0.0	834.1	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	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2
G1.0	254.9	255.0	255.1	255.2	255.3	255.3	255.5	255.4
G2.0	254.5	254.7	254.9	255.1	255.3	255.5	255.7	255.6
G3.0	254.2	254.4	254.6	254.9	255.3	255.5	255.8	255.8
G4.0	253.7	254.0	254.3	254.7	255.2	255.5	255.8	255.9
G5.0	253.2	253.5	253.9	254.4	255.0	255.5	255.8	255.9
G6.0	252.7	253.0	253.5	254.1	254.8	255.3	255.8	255.9
G7.0	252.1	252.4	253.1	253.7	254.5	255.1	255.6	255.7
G8.0	251.4	251.8	252.5	253.2	254.0	254.8	255.4	255.5
G9.0	250.4	251.1	251.8	252.6	253.5	254.5	255.1	255.2
G10.0	249.5	250.2	251.1	252.0	253.0	254.0	254.7	254.7
G11.0	248.5	249.3	250.2	251.1	252.3	253.4	254.2	254.1
G12.0	247.4	248.2	249.4	250.3	251.6	252.7	253.6	253.5
G13.0	246.2	247.1	248.4	249.4	250.7	252.0	252.9	252.8
G14.0	245.0	245.9	247.3	248.4	249.6	251.2	252.0	252.0
G15.0	243.6	244.7	245.9	247.3	248.6	250.2	251.1	251.1
G16.0	241.9	243.3	244.7	246.2	247.5	249.2	250.2	250.2
G17.0	240.4	241.9	243.4	244.9	246.3	248.2	249.1	248.9
G18.0	238.8	240.4	242.0	243.3	245.0	246.7	248.0	247.7
G19.0	237.1	238.5	240.5	241.9	243.6	245.4	246.7	246.4
G20.0	235.4	236.9	238.9	240.3	242.1	244.1	245.4	245.1
G21.0	233.5	235.1	237.3	238.8	240.3	242.7	243.7	243.6
G22.0	231.2	233.3	235.2	237.1	238.6	241.1	242.2	242.1
G23.0	229.2	231.4	233.4	235.4	236.9	239.5	240.6	240.5
G24.0	227.2	229.5	231.6	233.5	235.2	237.8	239.0	238.4
G25.0	225.0	227.4	229.6	231.3	233.3	235.7	237.2	236.7
G26.0	222.8	224.9	227.6	229.3	231.4	233.8	235.4	234.8
G27.0	220.6	222.7	225.5	227.3	229.4	231.9	233.5	232.9
G28.0	218.2	220.5	222.9	225.2	226.9	229.9	231.1	230.8
G29.0	215.4	218.2	220.7	223.0	224.7	227.9	229.0	228.7
G30.0	212.9	215.9	218.4	220.8	222.5	225.7	226.9	226.1
G31.0	210.4	213.4	216.1	218.1	220.2	223.1	224.7	223.8
G32.0	207.9	210.5	213.7	215.7	217.9	220.8	222.5	221.5
G33.0	205.2	207.9	211.2	213.3	215.5	218.4	220.1	219.1
G34.0	202.6	205.3	208.7	210.8	212.5	216.0	217.2	216.7
G35.0	199.3	202.7	205.7	208.3	210.0	213.6	214.7	214.2
G36.0	196.5	200.0	203.1	205.7	207.4	211.0	212.2	211.6
G37.0	193.7	197.3	200.4	203.1	204.8	208.4	209.6	208.4
G38.0	190.8	194.5	197.6	199.8	202.1	205.2	206.9	205.6
G39.0	187.9	191.1	194.9	197.1	199.3	202.5	204.2	202.9

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	185.0	188.2	192.1	194.3	196.6	199.8	200.9	200.0
G41.0	182.0	185.3	189.2	191.5	193.2	197.0	198.0	197.1
G42.0	178.3	182.3	185.7	188.6	190.2	194.1	195.1	194.2
G43.0	175.3	179.3	182.8	185.6	187.3	191.2	192.2	191.2
G44.0	172.1	176.2	179.8	182.7	184.3	187.6	189.2	187.5
G45.0	169.0	173.2	176.8	179.1	181.3	184.7	186.1	184.4
G46.0	165.8	169.4	173.7	176.0	178.2	181.6	183.0	181.2
G47.0	162.6	166.2	170.6	172.9	175.1	178.5	179.3	178.0
G48.0	159.3	163.0	167.4	169.8	171.3	175.3	176.0	174.7
G49.0	155.3	159.8	163.6	166.6	168.1	172.1	172.8	171.4
G50.0	152.0	156.5	160.4	163.5	164.9	168.3	169.5	167.4
G51.0	148.7	153.2	157.2	159.6	161.6	165.0	166.2	164.0
G52.0	145.3	149.9	153.9	156.3	158.3	161.7	162.8	160.5
G53.0	141.8	145.8	150.6	152.9	154.9	158.3	159.4	157.0
G54.0	138.4	142.4	147.2	149.6	150.9	155.0	155.3	153.5
G55.0	134.2	139.0	143.2	146.3	147.5	151.6	151.8	149.9
G56.0	130.7	135.6	139.8	142.9	144.0	148.1	148.3	146.3
G57.0	127.2	132.1	136.3	139.4	140.6	144.6	144.7	141.9
G58.0	123.6	128.6	132.8	135.9	137.0	140.4	141.0	138.2
G59.0	120.0	125.0	129.4	131.8	133.5	136.8	137.4	134.4
G60.0	116.4	120.8	125.9	128.3	130.0	133.2	133.7	130.7
G61.0	112.7	117.2	122.3	124.7	125.7	129.6	129.3	126.8
G62.0	109.1	113.5	118.7	121.2	122.1	126.0	125.5	123.0
G63.0	104.6	109.9	114.4	117.6	118.5	122.3	121.7	119.1
G64.0	100.9	106.2	110.8	114.0	114.8	117.8	117.9	114.4
G65.0	97.2	102.6	107.2	109.6	111.2	114.1	114.1	110.5
G66.0	93.5	98.1	103.5	106.0	107.5	110.4	110.3	106.5
G67.0	89.8	94.4	99.9	102.3	103.8	106.6	106.4	102.5
G68.0	86.0	90.7	96.2	98.6	99.3	102.8	101.7	98.5
G69.0	81.6	87.0	91.7	95.0	95.6	99.1	97.7	94.5
G70.0	77.9	83.3	88.0	91.3	91.9	95.3	93.8	89.7
G71.0	74.2	79.6	84.3	87.7	88.2	91.5	89.9	85.7
G72.0	70.5	75.8	80.6	83.2	84.5	86.9	85.9	81.7
G73.0	66.8	71.4	76.9	79.6	80.8	83.1	82.0	77.6
G74.0	63.2	67.7	73.2	76.0	77.2	79.3	77.2	73.6
G75.0	59.6	64.1	69.6	72.4	72.9	75.5	73.3	69.7
G76.0	55.4	60.5	65.2	68.8	69.3	71.8	69.4	65.7
G77.0	51.9	56.9	61.6	65.2	65.7	68.0	65.5	61.0
G78.0	48.5	53.3	57.9	61.7	62.2	63.5	61.7	57.1
G79.0	45.2	49.2	54.4	57.5	58.8	59.9	57.8	53.3

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	42.0	45.8	50.9	54.1	55.5	56.2	54.1	49.6
G81.0	39.0	42.4	47.4	50.7	52.2	52.6	49.5	45.9
G82.0	35.8	39.1	43.1	47.3	48.4	49.0	45.8	42.3
G83.0	31.5	35.7	39.6	43.7	44.7	45.3	41.9	38.4
G84.0	28.0	32.1	35.9	39.9	40.9	41.3	38.0	33.5
G85.0	24.5	28.4	32.1	35.2	37.1	36.5	34.0	29.4
G86.0	20.9	23.9	28.3	31.3	33.2	32.3	29.8	25.2
G87.0	17.0	20.1	24.4	27.3	29.1	28.0	25.5	20.6
G88.0	13.0	16.1	20.6	23.2	23.9	23.6	20.2	16.4
G89.0	8.8	12.5	16.1	19.3	20.0	19.5	16.3	12.5
G90.0	5.7	9.2	12.8	15.8	16.5	15.9	12.9	8.6
G91.0	4.2	6.4	9.6	12.7	13.5	12.8	9.7	6.0
G92.0	3.9	6.0	9.2	11.5	12.3	11.4	9.1	5.7
G93.0	3.7	5.8	9.0	11.3	12.1	11.3	8.9	5.6
G94.0	3.6	5.7	8.9	11.2	12.0	11.2	8.8	5.5
G95.0	3.5	5.6	8.8	11.1	11.8	11.0	8.6	5.5
G96.0	3.4	5.5	8.6	10.9	11.7	10.9	8.4	5.4
G97.0	3.3	5.4	8.5	10.8	11.6	10.8	8.2	5.3
G98.0	3.2	5.3	8.3	10.7	11.5	10.7	8.0	5.2
G99.0	3.2	5.2	8.1	10.5	11.4	10.6	7.8	5.1
G100.0	3.1	5.1	7.9	10.4	11.3	10.4	7.6	5.1
G101.0	3.0	5.0	7.7	10.2	11.2	10.3	7.3	5.0
G102.0	2.9	5.0	7.4	10.0	11.0	10.1	7.1	5.0
G103.0	2.9	5.0	7.3	9.9	10.9	9.9	7.0	5.0
G104.0	2.9	5.0	7.2	9.7	10.7	9.7	6.8	5.0
G105.0	3.0	5.1	7.0	9.5	10.5	9.6	6.7	5.0
G106.0	3.0	5.1	7.0	9.4	10.3	9.4	6.6	5.0
G107.0	3.1	5.1	6.9	9.2	10.2	9.3	6.5	5.0
G108.0	3.1	5.1	6.8	9.1	10.0	9.1	6.5	5.0
G109.0	3.2	5.2	6.7	9.0	9.9	9.0	6.5	5.0
G110.0	3.2	5.2	6.7	8.9	9.8	8.8	6.5	5.0
G111.0	3.1	5.3	6.7	8.7	9.7	8.7	6.5	5.0
G112.0	3.2	5.3	6.7	8.6	9.5	8.6	6.5	5.0
G113.0	3.2	5.3	6.7	8.5	9.4	8.5	6.5	5.0
G114.0	3.2	5.4	6.7	8.5	9.2	8.4	6.5	5.0
G115.0	3.3	5.4	6.8	8.4	9.1	8.4	6.5	5.0
G116.0	3.3	5.4	6.8	8.4	9.0	8.4	6.5	5.0
G117.0	3.3	5.4	6.8	8.3	8.9	8.3	6.5	5.0
G118.0	3.3	5.4	6.8	8.3	8.8	8.3	6.5	4.9
G119.0	3.4	5.4	6.8	8.2	8.7	8.2	6.5	4.9

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
G120.0	3.4	5.4	6.8	8.2	8.6	8.2	6.5	4.9
G121.0	3.4	5.4	6.9	8.2	8.6	8.1	6.6	4.8
G122.0	3.5	5.4	6.9	8.2	8.5	8.1	6.6	4.8
G123.0	3.5	5.4	6.9	8.2	8.1	8.0	6.6	4.7
G124.0	3.5	5.4	6.9	8.1	7.6	7.9	6.6	4.8
G125.0	3.6	5.4	6.9	8.1	7.5	7.8	6.6	4.8
G126.0	3.6	5.4	6.9	7.9	7.5	7.8	6.6	4.7
G127.0	3.7	5.3	6.9	7.7	7.5	7.7	6.5	4.7
G128.0	3.7	5.3	6.8	7.5	7.5	7.6	6.5	4.7
G129.0	3.7	5.3	6.8	7.3	7.4	7.6	6.4	4.6
G130.0	3.8	5.3	6.7	7.0	7.4	7.5	6.4	4.6
G131.0	3.8	5.3	6.7	6.8	7.4	7.4	6.3	4.5
G132.0	3.8	5.2	6.6	6.6	7.3	7.3	6.3	4.2
G133.0	3.8	5.2	6.6	6.4	7.3	7.2	6.2	3.9
G134.0	3.9	5.1	6.5	6.3	7.2	7.0	6.1	2.9
G135.0	3.9	5.1	6.4	6.1	7.1	6.9	6.1	2.8
G136.0	3.9	5.1	6.4	5.9	7.1	6.8	6.0	3.9
G137.0	3.9	5.0	6.3	5.7	7.0	6.7	5.9	3.9
G138.0	3.9	5.0	6.2	5.5	6.9	6.5	5.8	3.8
G139.0	3.9	4.9	6.1	5.4	6.8	6.3	5.7	3.8
G140.0	3.9	4.8	6.1	5.3	6.8	6.1	5.6	3.8
G141.0	4.0	4.8	6.0	5.2	6.7	6.0	5.5	3.7
G142.0	4.0	4.7	6.0	5.2	6.6	5.7	5.4	3.7
G143.0	4.0	4.6	5.9	5.2	6.5	5.4	5.3	3.7
G144.0	4.0	4.6	5.9	5.1	6.4	5.3	5.2	3.7
G145.0	4.0	4.5	5.7	5.0	6.3	5.2	5.1	3.8
G146.0	4.1	4.5	5.6	5.0	6.2	5.1	5.0	3.9
G147.0	4.1	4.4	5.4	4.9	5.7	5.1	4.8	3.9
G148.0	4.1	4.5	5.3	4.8	5.2	4.9	4.7	3.9
G149.0	4.2	4.6	5.1	4.7	5.1	4.9	4.5	3.9
G150.0	4.2	4.6	4.9	4.7	5.2	4.9	4.4	3.9
G151.0	4.3	4.7	4.7	4.6	5.3	4.9	4.5	3.8
G152.0	4.3	4.6	4.6	4.6	5.2	4.8	4.6	3.8
G153.0	4.3	4.4	4.4	4.5	5.1	4.7	4.6	3.7
G154.0	4.3	4.3	4.3	4.5	4.9	4.6	4.5	3.7
G155.0	4.2	4.2	4.2	4.4	4.8	4.4	4.4	3.8
G156.0	4.1	4.1	4.1	4.3	4.7	4.2	4.3	3.9
G157.0	4.0	4.0	4.0	4.2	4.6	4.1	4.2	4.1
G158.0	3.9	3.9	4.0	4.2	4.5	4.0	4.0	4.0
G159.0	3.8	3.8	3.8	4.2	4.4	3.9	4.0	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	3.6	3.7	3.8	4.1	4.2	3.9	3.9	3.8
G161.0	3.5	3.6	3.7	4.1	4.1	3.8	3.8	3.7
G162.0	3.4	3.5	3.6	4.0	4.0	3.7	3.7	3.6
G163.0	3.3	3.4	3.5	3.9	3.9	3.6	3.6	3.5
G164.0	3.2	3.4	3.4	3.8	3.8	3.5	3.5	3.5
G165.0	3.2	3.3	3.4	3.7	3.6	3.4	3.5	3.4
G166.0	3.1	3.3	3.3	3.6	3.5	3.4	3.4	3.3
G167.0	3.1	3.2	3.3	3.5	3.5	3.3	3.3	3.2
G168.0	3.1	3.2	3.2	3.5	3.4	3.3	3.3	3.1
G169.0	3.0	3.1	3.2	3.4	3.3	3.2	3.2	3.1
G170.0	2.9	3.1	3.1	3.3	3.3	3.2	3.2	3.0
G171.0	2.9	3.0	3.1	3.3	3.2	3.2	3.2	3.0
G172.0	2.9	3.0	3.1	3.2	3.2	3.2	3.1	3.0
G173.0	2.8	3.0	3.1	3.2	3.2	3.2	3.0	2.9
G174.0	2.8	3.0	3.1	3.2	3.1	3.2	3.0	2.9
G175.0	2.8	2.9	3.0	3.2	3.1	3.1	2.9	2.8
G176.0	2.8	2.8	2.9	3.2	3.1	3.0	2.9	2.8
G177.0	2.7	2.8	2.8	3.0	2.9	2.9	2.8	2.8
G178.0	2.8	2.8	2.8	2.9	2.8	2.9	2.9	2.9
G179.0	2.8	2.8	2.8	2.8	2.9	3.0	2.9	2.9
G180.0	2.7	2.8	2.8	2.9	2.9	3.0	2.9	2.8

**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	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2
G1.0	255.3	255.3	255.2	255.1	255.0	254.9	254.8	254.8
G2.0	255.4	255.3	255.2	255.0	254.8	254.6	254.4	254.4
G3.0	255.5	255.3	255.1	254.8	254.5	254.1	254.0	254.0
G4.0	255.5	255.3	254.9	254.5	254.2	253.7	253.5	253.4
G5.0	255.4	255.2	254.8	254.2	253.8	253.2	253.0	252.8
G6.0	255.3	254.9	254.4	253.8	253.2	252.6	252.4	252.1
G7.0	255.0	254.7	254.0	253.3	252.6	251.9	251.5	251.4
G8.0	254.6	254.3	253.6	252.8	251.9	251.2	250.8	250.6
G9.0	254.2	253.7	253.1	252.1	251.1	250.4	249.9	249.7
G10.0	253.7	253.1	252.4	251.2	250.2	249.3	249.0	248.7
G11.0	253.0	252.4	251.7	250.4	249.3	248.3	247.9	247.4
G12.0	252.1	251.7	250.7	249.5	248.3	247.2	246.8	246.3
G13.0	251.3	250.8	249.8	248.4	246.9	246.0	245.6	245.0
G14.0	250.3	249.9	248.8	247.3	245.7	244.8	244.0	243.7
G15.0	249.3	248.6	247.7	246.2	244.4	243.5	242.7	242.3
G16.0	248.1	247.4	246.5	244.6	243.0	241.8	241.2	240.8
G17.0	246.9	246.2	245.2	243.3	241.5	240.2	239.7	238.9
G18.0	245.6	244.9	243.9	241.8	240.0	238.7	238.1	237.2
G19.0	243.9	243.5	242.1	240.3	238.3	237.0	236.4	235.5
G20.0	242.4	242.0	240.6	238.7	236.3	235.3	234.3	233.7
G21.0	240.9	240.4	239.0	237.0	234.5	233.5	232.4	231.8
G22.0	239.2	238.4	237.2	235.2	232.6	231.6	230.5	229.8
G23.0	237.4	236.6	235.4	233.0	230.7	229.2	228.5	227.8
G24.0	235.5	234.8	233.6	231.0	228.6	227.2	226.4	225.3
G25.0	233.2	232.9	231.3	229.0	226.6	225.1	224.3	223.1
G26.0	231.2	230.8	229.3	227.0	224.0	223.0	222.1	220.9
G27.0	229.1	228.8	227.2	224.8	221.8	220.7	219.4	218.6
G28.0	226.9	226.6	225.0	222.6	219.5	218.4	217.1	216.2
G29.0	224.7	224.0	222.8	220.4	217.1	216.1	214.7	213.8
G30.0	222.4	221.7	220.5	217.6	214.7	213.2	212.3	211.3
G31.0	219.5	219.3	218.1	215.2	212.2	210.7	209.8	208.3
G32.0	217.1	216.9	215.2	212.7	209.2	208.2	207.3	205.7
G33.0	214.6	214.4	212.7	210.2	206.6	205.6	204.1	203.0
G34.0	212.0	211.8	210.1	207.6	204.0	203.0	201.5	200.3
G35.0	209.3	208.7	207.5	205.0	201.3	200.3	198.8	197.6
G36.0	206.6	206.0	204.8	201.7	198.6	197.1	196.0	194.8
G37.0	203.8	203.2	202.1	199.0	195.8	194.3	193.2	191.4
G38.0	200.4	200.4	199.3	196.2	192.9	191.4	190.4	188.5
G39.0	197.5	197.5	195.9	193.3	190.0	188.6	187.5	185.6

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	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G40.0	194.6	194.6	193.0	190.4	186.5	185.7	184.0	182.6
G41.0	191.6	191.0	190.0	187.5	183.6	182.7	181.0	179.6
G42.0	188.5	188.0	187.0	183.9	180.5	179.1	178.0	176.6
G43.0	185.4	184.9	184.0	180.8	177.5	176.1	174.9	173.5
G44.0	181.6	181.8	180.9	177.8	174.4	173.0	171.8	169.7
G45.0	178.3	178.6	177.1	174.7	170.6	169.9	168.7	166.6
G46.0	175.1	175.3	174.0	171.5	167.5	166.8	164.9	163.4
G47.0	171.7	172.1	170.7	168.3	164.2	163.6	161.7	160.1
G48.0	168.4	168.0	167.4	165.0	161.0	160.3	158.5	156.8
G49.0	165.0	164.7	164.1	161.1	157.7	156.5	155.2	153.6
G50.0	160.8	161.3	160.8	157.8	154.4	153.2	152.0	149.6
G51.0	157.3	157.8	156.7	154.4	151.1	149.9	148.6	146.2
G52.0	153.8	154.3	153.2	151.0	147.0	146.5	145.2	142.8
G53.0	150.2	150.7	149.8	147.6	143.6	143.1	141.2	139.4
G54.0	146.6	146.5	146.3	144.2	140.2	139.7	137.8	136.0
G55.0	142.9	142.8	142.8	140.0	136.7	135.6	134.3	132.5
G56.0	139.2	139.2	139.2	136.5	133.2	132.2	130.9	128.3
G57.0	134.7	135.5	135.6	132.9	129.7	128.6	127.4	124.7
G58.0	130.9	131.7	131.2	129.3	125.4	125.1	123.8	121.2
G59.0	127.1	128.0	127.5	125.8	121.9	121.6	119.6	117.6
G60.0	123.3	124.2	123.8	122.1	118.3	118.1	116.0	114.0
G61.0	119.4	119.6	120.1	118.5	114.7	114.5	112.4	110.3
G62.0	115.5	115.7	116.3	114.1	111.0	110.2	108.8	106.7
G63.0	111.6	111.8	112.5	110.4	107.4	106.6	105.1	102.2
G64.0	106.9	107.9	108.0	106.7	103.7	103.0	101.5	98.6
G65.0	102.9	104.0	104.2	103.0	99.4	99.3	97.8	94.9
G66.0	98.9	100.1	100.3	99.3	95.7	95.7	93.4	91.2
G67.0	94.9	96.1	96.4	95.6	92.0	92.0	89.7	87.4
G68.0	90.9	91.3	92.5	91.8	88.3	88.4	86.0	83.7
G69.0	86.9	87.4	88.7	87.4	84.7	84.0	82.3	79.3
G70.0	82.2	83.4	84.8	83.7	81.1	80.4	78.6	75.5
G71.0	78.2	79.4	80.1	79.9	76.7	76.8	74.9	71.8
G72.0	74.2	75.4	76.2	76.2	73.0	73.1	70.5	68.1
G73.0	70.2	71.5	72.3	72.5	69.5	69.5	66.8	64.5
G74.0	66.3	66.8	68.5	68.9	66.0	66.0	63.2	60.9
G75.0	62.5	62.9	64.7	64.6	62.5	61.7	59.6	57.3
G76.0	58.6	59.0	60.9	61.0	59.1	58.2	56.0	53.0
G77.0	54.1	55.2	57.1	57.4	55.8	54.7	52.5	49.6
G78.0	50.4	51.4	52.7	54.0	52.0	51.3	49.0	46.1
G79.0	46.8	47.7	49.0	50.6	48.9	48.0	44.8	42.8

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
G80.0	43.4	43.2	45.4	47.2	45.8	44.7	41.4	39.6
G81.0	40.0	39.7	41.7	42.9	42.2	41.2	37.9	36.4
G82.0	36.0	35.8	37.9	39.0	38.6	36.8	34.4	32.8
G83.0	31.3	31.7	34.0	35.2	35.0	33.0	30.8	28.5
G84.0	27.3	27.7	29.2	31.2	30.5	29.3	27.1	24.9
G85.0	23.1	23.5	25.0	26.9	26.3	25.5	22.6	21.3
G86.0	18.5	19.1	20.8	22.7	22.3	21.6	18.9	17.4
G87.0	14.3	14.3	16.9	18.9	18.7	17.9	15.3	13.5
G88.0	10.5	10.7	13.5	15.0	15.6	14.0	12.0	10.0
G89.0	6.7	7.7	10.5	12.3	12.9	11.5	9.2	6.4
G90.0	4.4	6.1	9.5	12.0	12.6	11.2	8.4	5.2
G91.0	4.2	5.9	9.3	11.9	12.5	11.0	8.1	4.9
G92.0	4.1	5.8	9.3	11.8	12.4	10.9	8.0	4.7
G93.0	4.0	5.7	9.2	11.7	12.3	10.8	7.9	4.5
G94.0	4.0	5.6	9.1	11.6	12.2	10.7	7.7	4.4
G95.0	3.9	5.5	9.0	11.5	12.2	10.6	7.6	4.2
G96.0	3.8	5.4	8.9	11.4	12.1	10.5	7.4	4.1
G97.0	3.7	5.2	8.7	11.4	12.0	10.3	7.3	4.0
G98.0	3.6	5.1	8.5	11.3	11.9	10.2	7.0	3.8
G99.0	3.5	5.0	8.3	11.1	11.8	10.1	6.8	3.8
G100.0	3.5	4.9	8.1	11.0	11.7	9.9	6.6	3.7
G101.0	3.4	4.8	7.9	10.8	11.6	9.7	6.4	3.7
G102.0	3.3	4.7	7.7	10.7	11.5	9.6	6.2	3.7
G103.0	3.2	4.6	7.5	10.5	11.3	9.4	6.0	3.7
G104.0	3.2	4.6	7.3	10.3	11.1	9.2	5.9	3.7
G105.0	3.1	4.6	7.1	10.1	10.9	9.0	5.8	3.7
G106.0	3.1	4.6	7.0	9.9	10.7	8.9	5.7	3.8
G107.0	3.2	4.6	6.9	9.7	10.5	8.7	5.6	3.8
G108.0	3.2	4.6	6.8	9.5	10.3	8.6	5.6	3.8
G109.0	3.2	4.6	6.6	9.4	10.1	8.5	5.6	3.9
G110.0	3.2	4.6	6.6	9.2	10.0	8.4	5.5	3.9
G111.0	3.2	4.6	6.5	9.1	9.8	8.3	5.5	3.9
G112.0	3.2	4.6	6.4	9.0	9.6	8.2	5.5	4.0
G113.0	3.2	4.6	6.3	8.8	9.5	8.1	5.5	4.0
G114.0	3.2	4.6	6.3	8.7	9.3	8.0	5.5	4.0
G115.0	3.2	4.6	6.3	8.6	9.2	7.9	5.5	4.1
G116.0	3.3	4.6	6.2	8.4	9.0	7.8	5.6	4.1
G117.0	3.3	4.6	6.2	8.3	8.9	7.7	5.6	4.1
G118.0	3.3	4.6	6.2	8.2	8.8	7.6	5.6	4.1
G119.0	3.3	4.6	6.2	8.1	8.6	7.5	5.7	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	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G120.0	3.3	4.6	6.2	8.0	8.5	7.4	5.7	4.1
G121.0	3.3	4.6	6.2	7.9	8.4	7.3	5.8	4.1
G122.0	3.4	4.6	6.2	7.9	7.6	7.3	5.8	4.1
G123.0	3.4	4.5	6.2	7.8	7.3	7.2	5.8	4.1
G124.0	3.4	4.5	6.2	7.8	7.3	7.2	5.8	4.1
G125.0	3.4	4.5	6.2	7.7	7.2	7.1	5.8	4.1
G126.0	3.4	4.5	6.2	7.6	7.2	7.0	5.8	4.0
G127.0	3.4	4.4	6.2	7.5	7.2	7.0	5.8	4.0
G128.0	3.3	4.4	6.1	7.4	7.2	7.0	5.8	4.0
G129.0	2.8	4.3	6.1	7.3	7.1	7.0	5.7	4.0
G130.0	3.0	4.3	6.0	7.2	7.1	7.0	5.7	4.0
G131.0	3.5	4.2	6.0	6.9	7.0	6.9	5.7	4.0
G132.0	3.5	4.2	5.9	6.8	7.0	6.8	5.6	4.0
G133.0	3.5	4.2	5.8	6.6	6.9	6.6	5.6	3.9
G134.0	3.5	4.1	5.8	6.4	6.9	6.5	5.5	3.9
G135.0	3.6	4.1	5.7	6.2	6.8	6.3	5.4	3.9
G136.0	3.6	4.1	5.6	6.1	6.7	6.1	5.4	3.9
G137.0	3.6	4.0	5.6	5.9	6.7	5.9	5.3	3.9
G138.0	3.6	4.0	5.4	5.7	6.6	5.8	5.2	3.9
G139.0	3.6	4.0	5.3	5.6	6.5	5.5	5.2	3.9
G140.0	3.6	3.9	5.1	5.5	6.4	5.4	5.1	3.9
G141.0	3.6	3.9	4.8	5.5	6.4	5.2	5.0	3.9
G142.0	3.6	3.8	4.9	5.5	6.3	5.0	4.9	3.9
G143.0	3.6	3.8	5.0	5.4	6.2	4.8	4.9	3.9
G144.0	3.6	3.8	4.9	5.3	6.1	4.7	4.9	3.9
G145.0	3.6	3.8	4.8	5.2	6.0	4.5	4.8	3.8
G146.0	3.6	3.7	4.8	5.1	5.9	4.5	4.8	3.8
G147.0	3.6	3.7	4.8	5.0	5.2	4.4	4.7	3.8
G148.0	3.6	3.7	4.9	4.9	4.9	4.4	4.5	3.8
G149.0	3.6	3.7	4.8	4.7	4.8	4.4	4.3	3.8
G150.0	3.6	3.6	4.7	4.6	5.1	4.3	4.1	3.9
G151.0	3.6	3.6	4.5	4.6	5.1	4.2	4.0	4.0
G152.0	3.6	3.6	4.4	4.5	5.1	4.1	3.9	4.1
G153.0	3.6	3.5	4.2	4.4	5.0	4.0	3.8	4.1
G154.0	3.6	3.7	4.1	4.3	4.8	3.9	3.7	4.0
G155.0	3.6	3.8	4.0	4.2	4.7	3.8	3.6	3.8
G156.0	3.7	4.0	3.9	4.1	4.6	3.7	3.6	3.7
G157.0	3.8	3.9	3.8	4.0	4.4	3.6	3.5	3.6
G158.0	3.8	3.8	3.7	3.9	4.3	3.6	3.5	3.5
G159.0	3.7	3.7	3.7	3.8	4.2	3.5	3.4	3.4

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
G160.0	3.6	3.6	3.6	3.8	4.0	3.4	3.3	3.3
G161.0	3.6	3.5	3.5	3.7	3.9	3.4	3.2	3.2
G162.0	3.5	3.4	3.4	3.6	3.8	3.3	3.2	3.2
G163.0	3.4	3.3	3.3	3.5	3.7	3.2	3.1	3.1
G164.0	3.3	3.2	3.3	3.4	3.6	3.2	3.1	3.1
G165.0	3.2	3.1	3.2	3.4	3.4	3.1	3.0	3.0
G166.0	3.2	3.1	3.1	3.3	3.4	3.1	3.0	3.0
G167.0	3.1	3.0	3.1	3.2	3.3	3.0	2.9	3.0
G168.0	3.1	2.9	3.0	3.2	3.2	3.0	2.9	2.9
G169.0	3.0	2.9	3.0	3.1	3.1	2.9	2.8	2.9
G170.0	3.0	2.8	3.0	3.1	3.1	2.8	2.8	2.9
G171.0	3.0	2.8	3.0	3.0	3.0	2.8	2.8	2.8
G172.0	3.0	2.8	2.9	3.0	3.0	2.8	2.8	2.8
G173.0	2.9	2.8	2.9	3.0	3.0	2.8	2.8	2.8
G174.0	2.9	2.8	2.9	2.9	2.9	2.7	2.8	2.8
G175.0	2.9	2.8	2.8	2.9	2.9	2.7	2.7	2.8
G176.0	2.8	2.7	2.8	2.9	2.8	2.7	2.8	2.8
G177.0	2.8	2.8	2.9	3.0	2.8	2.7	2.8	2.8
G178.0	2.7	2.8	2.9	2.9	2.9	2.8	2.9	2.9
G179.0	2.8	2.8	2.9	2.9	3.0	2.8	2.9	2.9
G180.0	2.9	2.7	2.8	2.8	2.9	2.9	3.0	2.9