

### Goniophotometers System Test Report

#### Product Info

Luminaire Category : LED Bulkhead Light

Luminaire : 3000K White

Lamp Category : SMD

Lamp : F9090

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 : 229.79 V Current : 0.1205 A Power : 14.68 W Power Factor : 0.5300 Frequency : 50.00 Hz

#### Photometric Parameters

CIE Class : Direct

Measurement Flux : 1008.5 lm

Upward Ratio : 5.47 %

Maximum Intensity : 276.81 cd

Central Intensity : 276.05 cd

Luminaire Efficacy Rating (LER) : 69

Beam Angle (C0-C180,C90-C270) : 124.7 °, 127.4 °

Field Angle (C0-C180,C90-C270) : 177.2 °, 181.1 °

Total Rated Lamp Lumens : 1008.5 lm

Efficiency : 100.00 %

Downward Ratio : 94.53 %

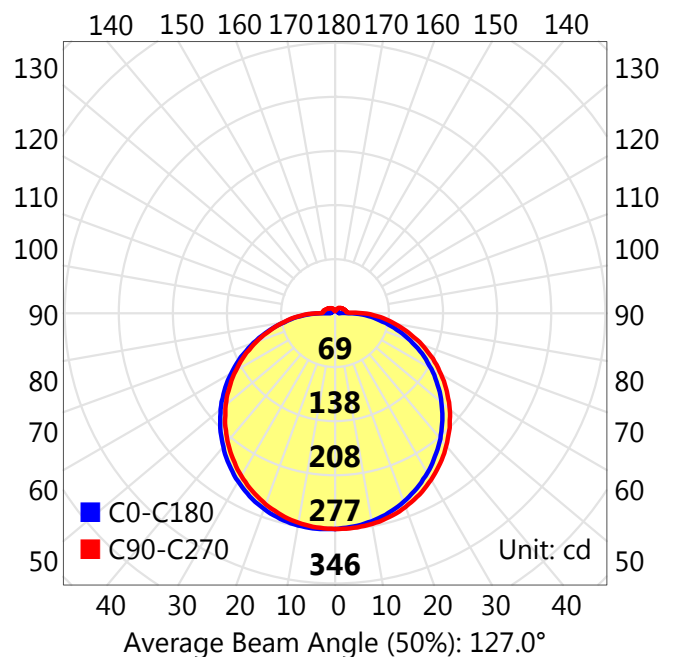
Position Of Maximum Intensity : C180° γ5°

S/MH(C0-C180,C90-C270) : 1.30, 1.31

Energy Efficiency Class : A (EU 874/2012 EEI:0.190)

Beam Angle (C45-C225,C135-C315) : 127.8 °, 127.5 °

Field Angle (C45-C225,C135-C315) : 179.6 °, 179.4 °



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

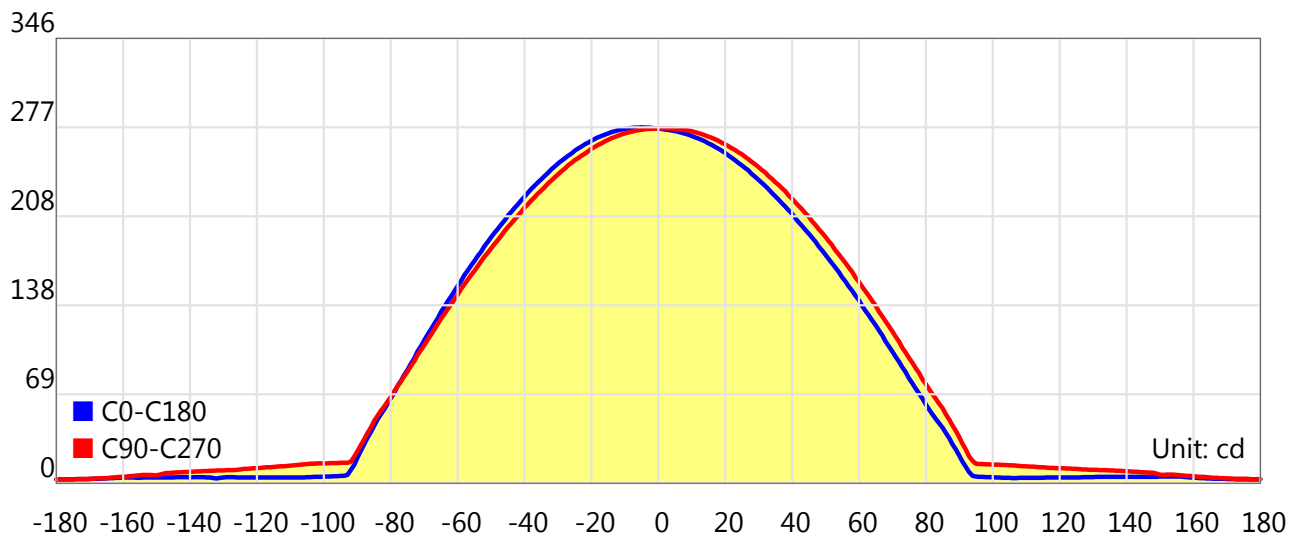
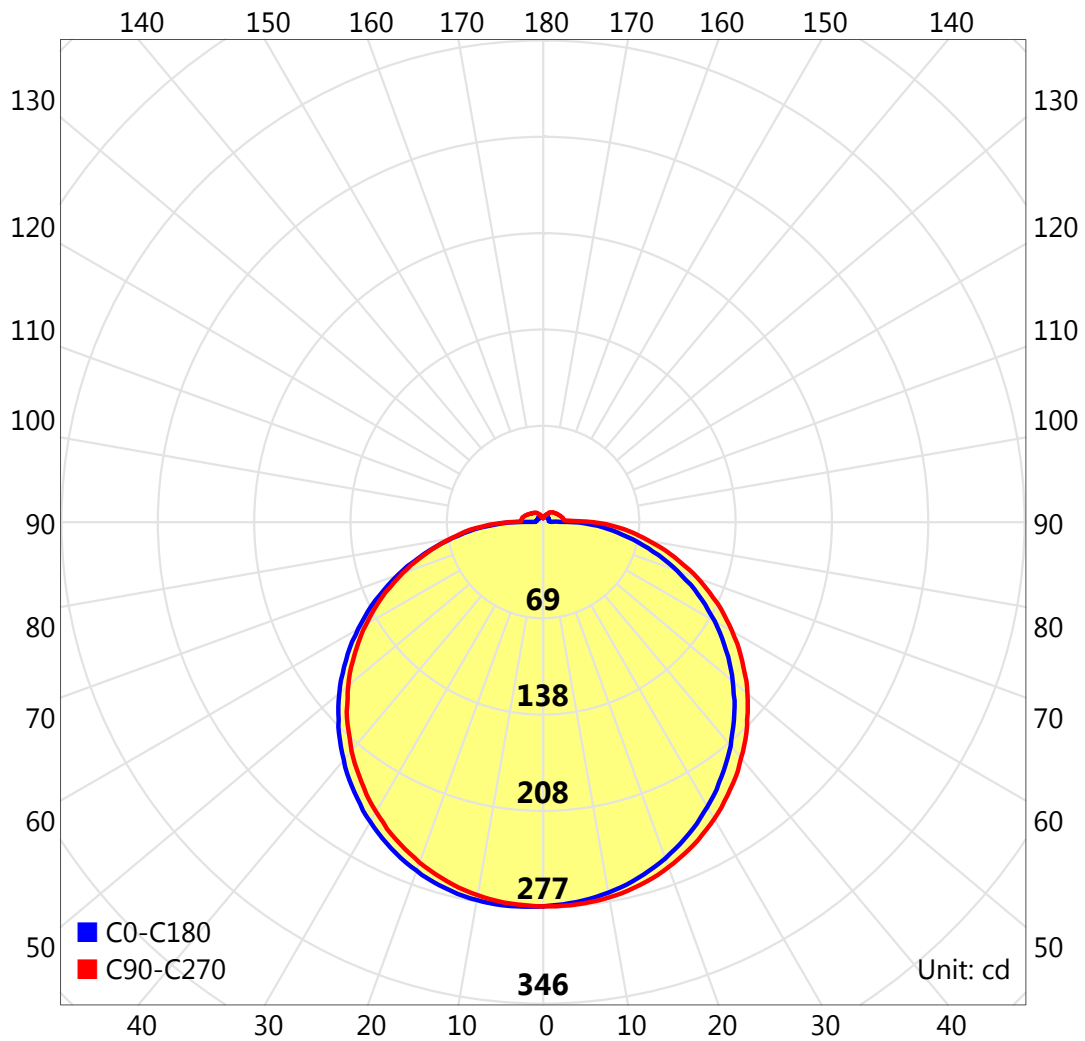
Measurement System : GMS-5000 (E412011U)

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

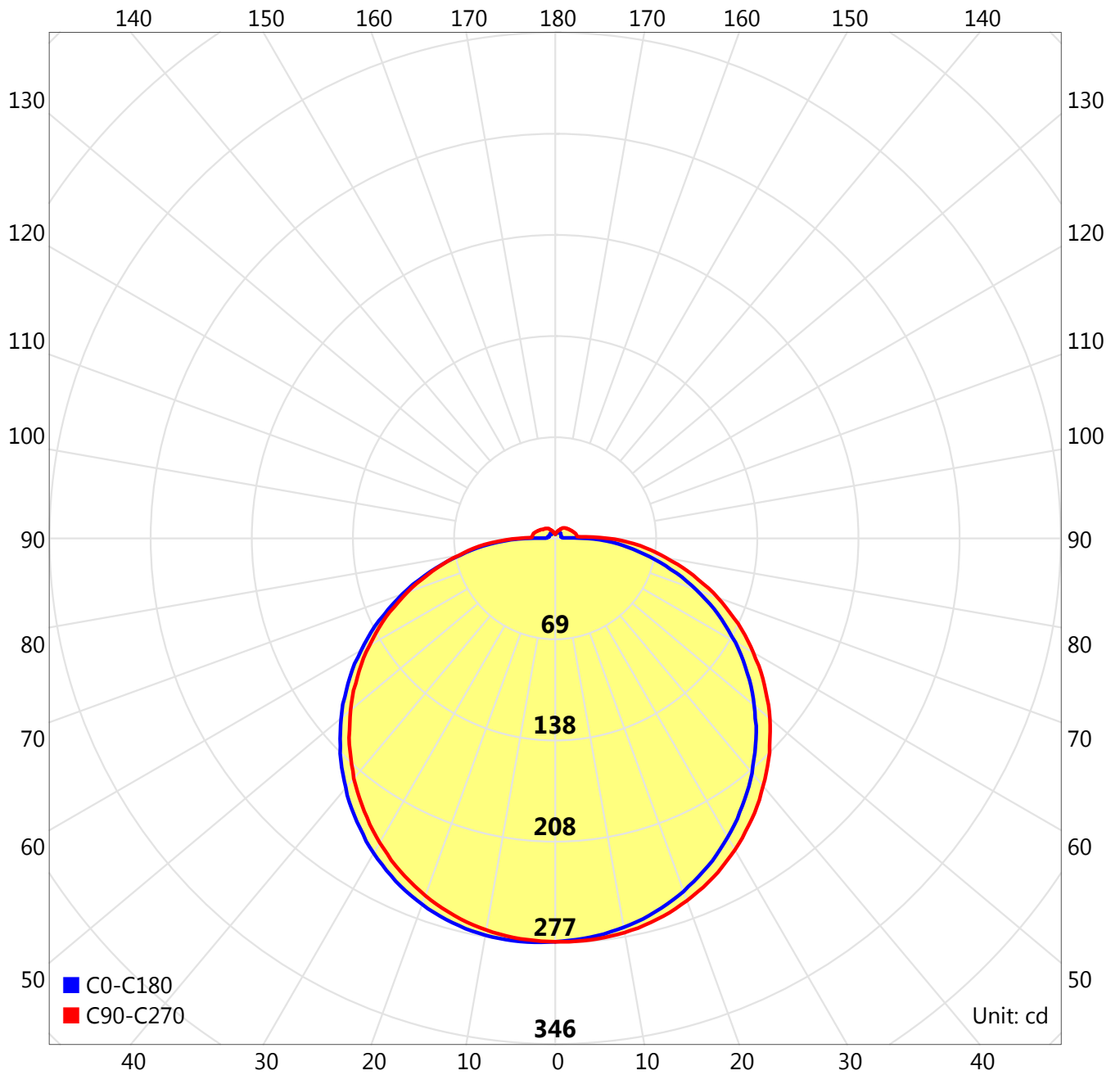
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Review By :TMI

Humidity : 65.0%

### Light Distribution Curve (cd/klm)



2835/SMD

$\eta=100\%$

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

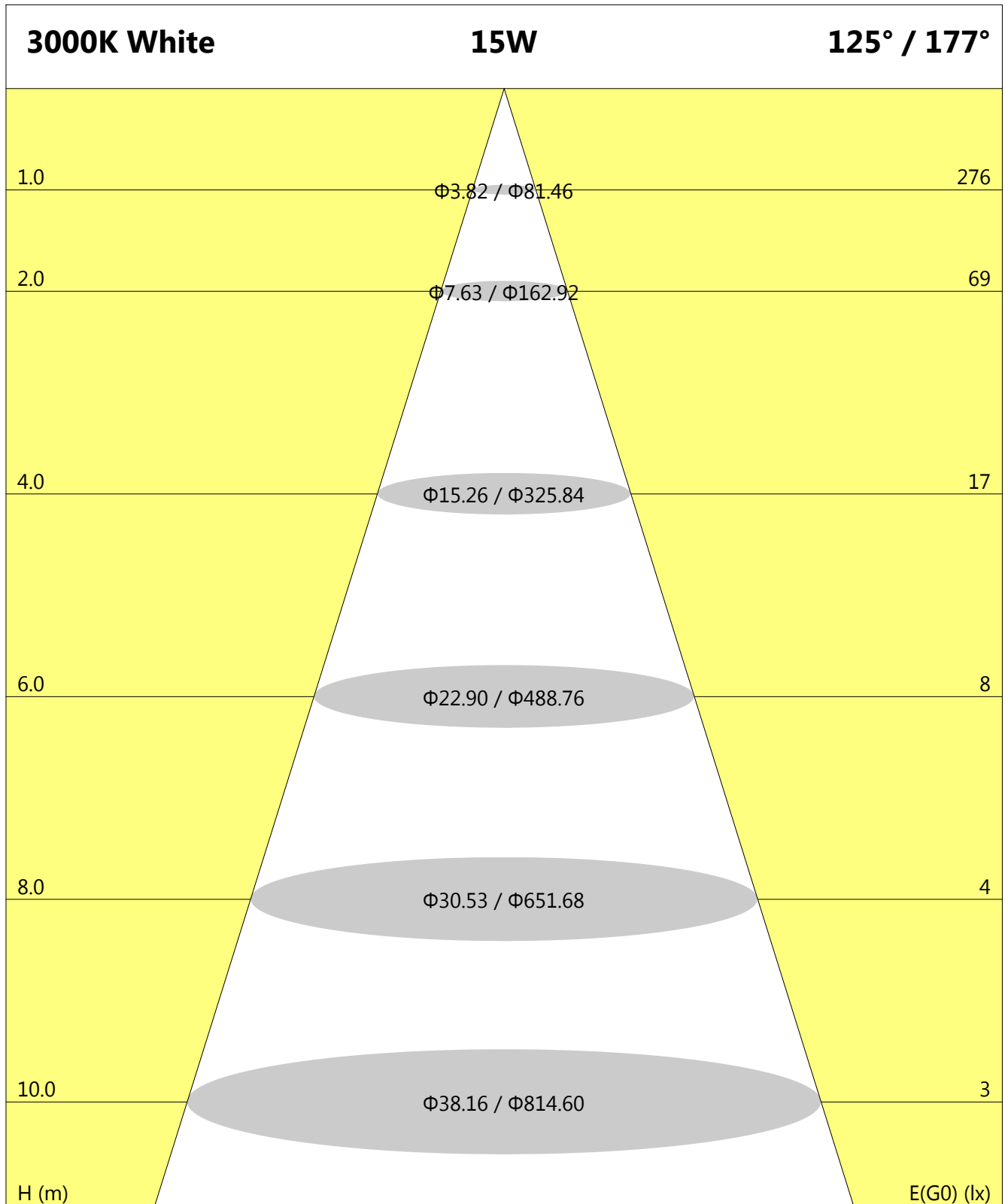
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Review By :TMI

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**Lux-Distance**



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Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

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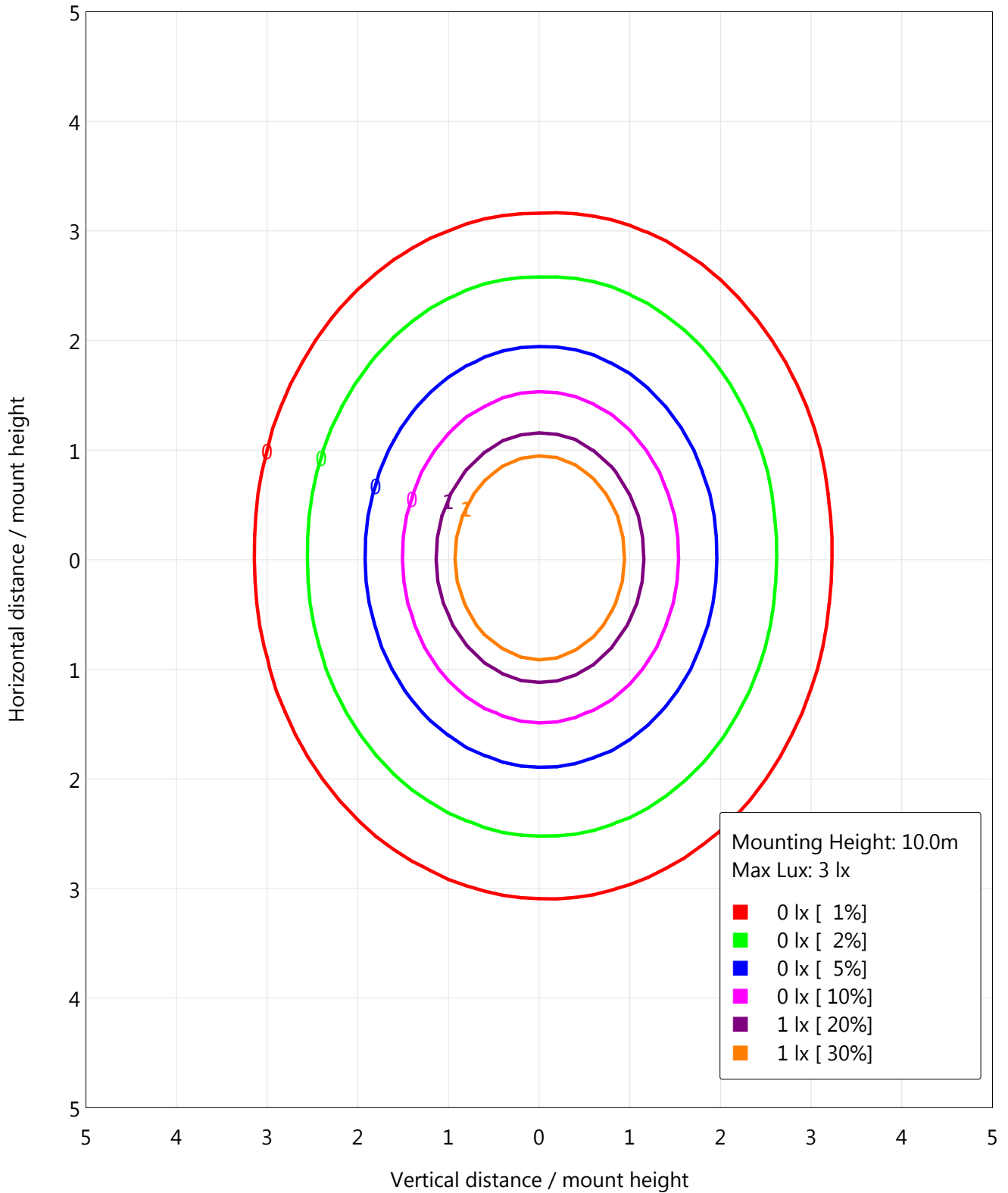
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Temperature : 25.0°C

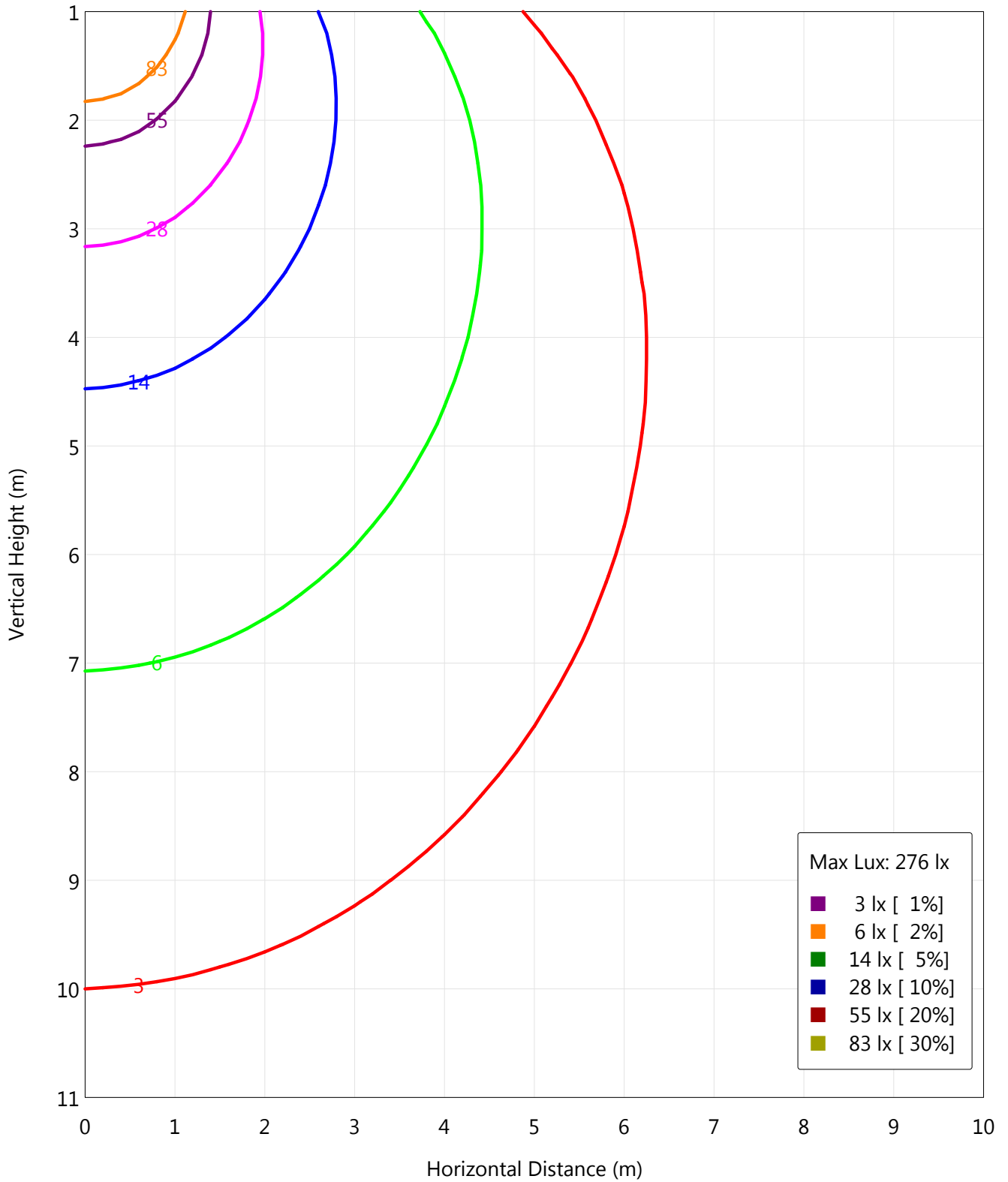
Humidity : 65.0%

Review By :TMI

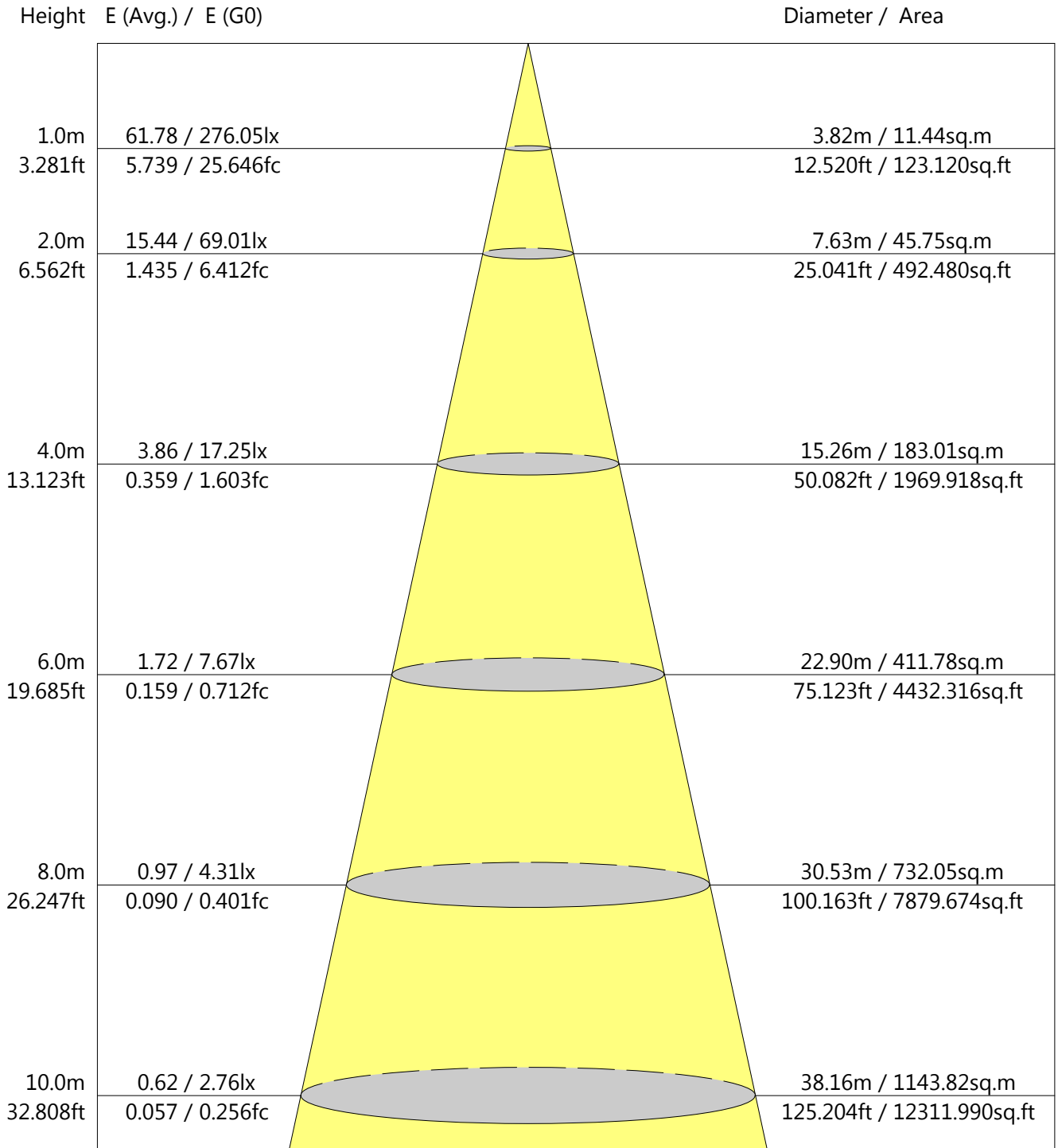
### IsoLux



### Vertical IsoLux Plot



### Average Illuminance Effective Figure



Beam Angle: 124.7° Flux Out: 706.60lm

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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

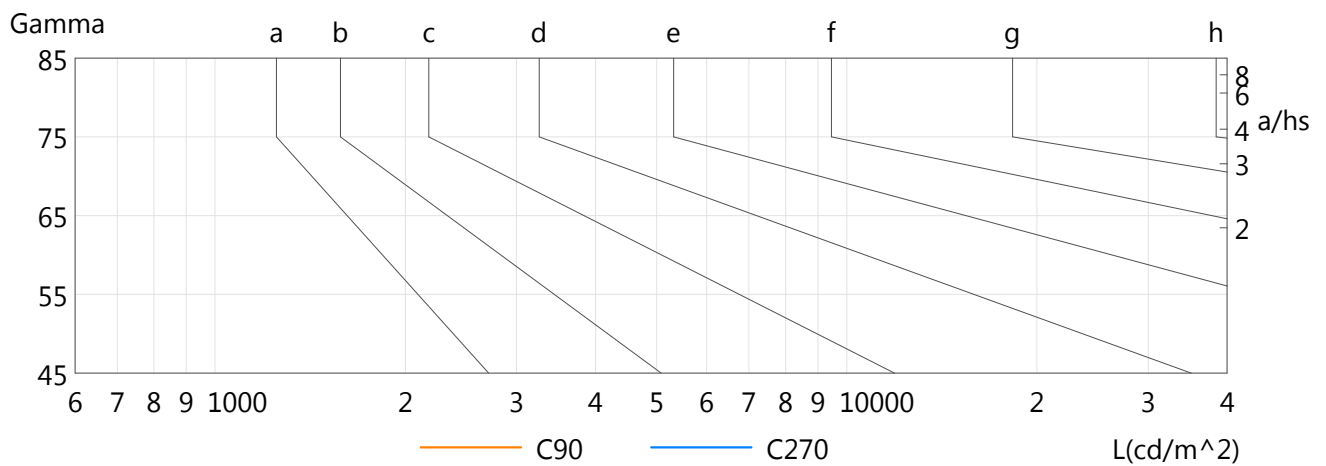
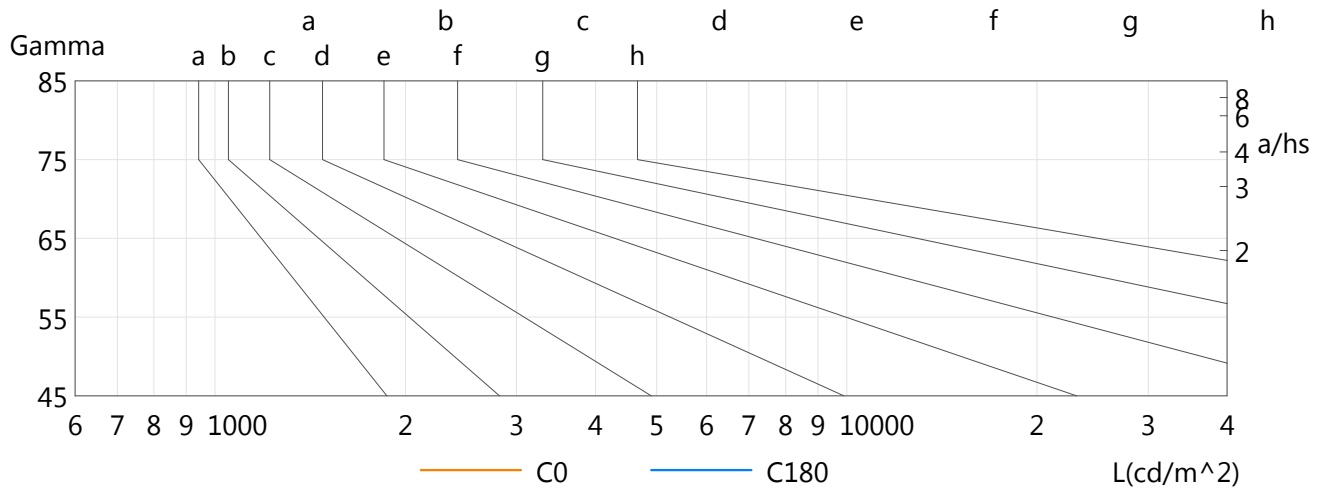
Review By :TMI

Humidity : 65.0%

### Lumen Limit Curve

L (cd/m <sup>2</sup> )	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	194	178	160	143	123	103	82	61	43
C90	207	192	175	157	138	118	98	77	59
C270	208	191	173	153	133	111	89	66	45
C90	199	183	165	147	128	108	87	67	48

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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**TM5 UF Table**

Utilisation Factors UF (F)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.54	0.62	0.69	0.75	0.82	0.87	0.91	0.95	0.99
	0.30		0.46	0.54	0.61	0.67	0.75	0.81	0.85	0.91	0.95
	0.20		0.40	0.48	0.55	0.61	0.69	0.75	0.80	0.86	0.91
0.50	0.50	0.20	0.52	0.59	0.66	0.71	0.78	0.83	0.86	0.90	0.94
	0.30		0.45	0.52	0.59	0.65	0.72	0.77	0.81	0.86	0.90
	0.20		0.39	0.47	0.54	0.59	0.67	0.73	0.77	0.83	0.87
0.30	0.50	0.20	0.50	0.57	0.63	0.68	0.74	0.78	0.82	0.86	0.89
	0.30		0.43	0.51	0.57	0.62	0.69	0.74	0.78	0.83	0.86
	0.20		0.39	0.46	0.53	0.58	0.65	0.70	0.74	0.80	0.83
0.00	0.00	0.00	0.36	0.42	0.49	0.54	0.61	0.66	0.69	0.74	0.77

Utilisation Factors UF (W)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	1.01	0.87	0.75	0.66	0.54	0.45	0.39	0.31	0.26
	0.30		0.84	0.75	0.65	0.58	0.49	0.42	0.37	0.29	0.25
	0.20		0.72	0.65	0.58	0.52	0.44	0.39	0.34	0.28	0.23
0.50	0.50	0.20	0.97	0.83	0.71	0.63	0.51	0.46	0.37	0.30	0.25
	0.30		0.82	0.72	0.63	0.56	0.47	0.40	0.35	0.28	0.23
	0.20		0.71	0.64	0.56	0.51	0.43	0.37	0.33	0.27	0.23
0.30	0.50	0.20	0.93	0.79	0.68	0.60	0.49	0.41	0.36	0.28	0.23
	0.30		0.79	0.70	0.61	0.54	0.45	0.38	0.33	0.27	0.23
	0.20		0.69	0.62	0.55	0.50	0.42	0.36	0.32	0.26	0.22
0.00	0.00	0.00	0.59	0.52	0.46	0.41	0.34	0.29	0.26	0.21	0.17

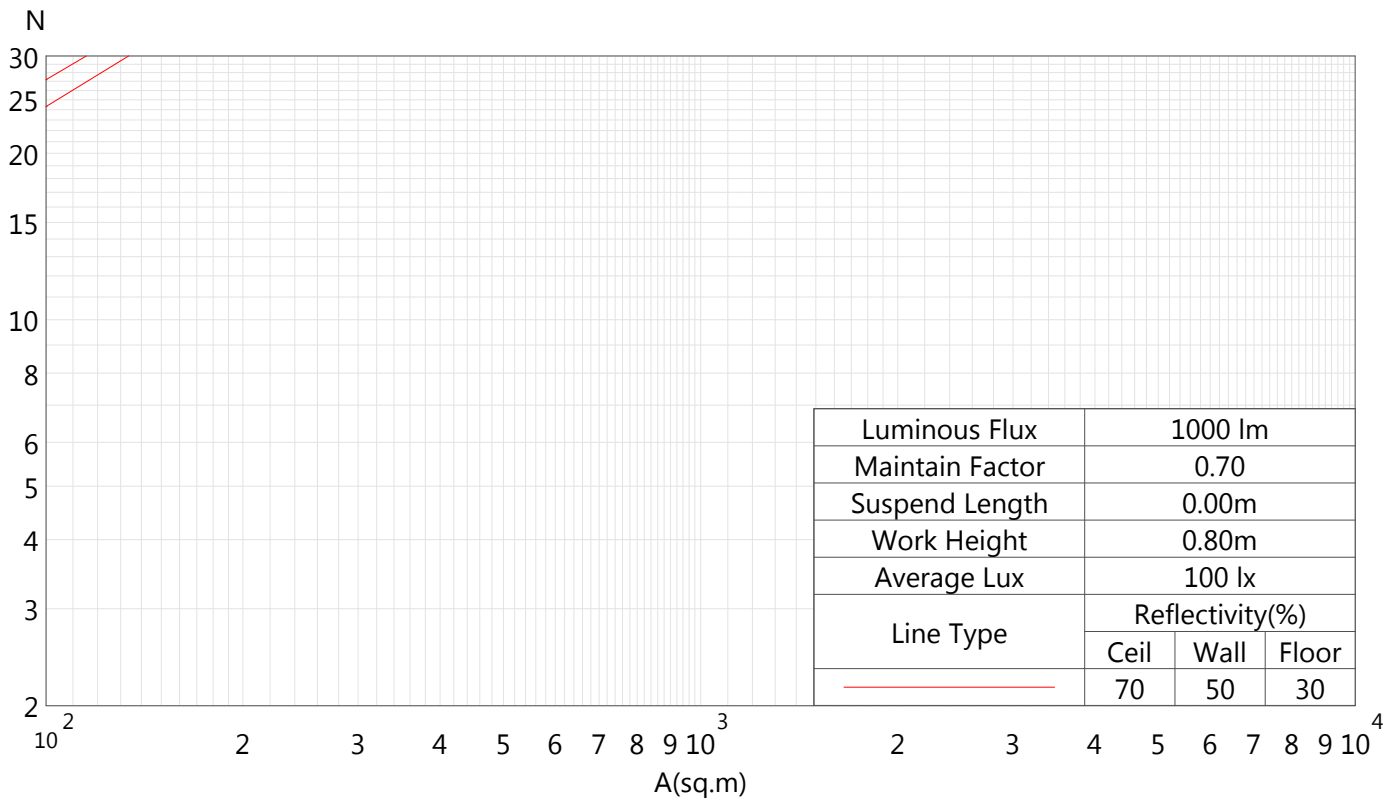
Utilisation Factors UF (C)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.22	0.23	0.24	0.25	0.25	0.26	0.26	0.27	0.27
	0.30		0.15	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24
	0.20		0.10	0.11	0.12	0.14	0.16	0.17	0.18	0.20	0.21
0.50	0.50	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25	0.26	0.26
	0.30		0.14	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23
	0.20		0.09	0.11	0.12	0.13	0.15	0.17	0.18	0.19	0.20
0.30	0.50	0.20	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25
	0.30		0.14	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.22
	0.20		0.09	0.11	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	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	105	100	95	90	102	97	92	88	92	88	84	87	84	81	82	80	77	75
2	95	86	78	72	92	83	76	70	79	73	68	75	70	65	71	67	63	61
3	86	75	66	59	83	73	64	58	69	62	56	65	59	54	62	57	53	50
4	78	66	56	49	76	64	55	48	61	53	47	58	51	46	55	49	45	42
5	72	58	49	42	69	57	48	41	54	46	40	51	45	39	49	43	38	36
6	66	52	43	36	64	51	42	36	49	41	35	46	39	34	44	38	33	31
7	61	47	38	32	59	46	37	31	44	36	31	42	35	30	40	34	30	27
8	57	43	34	28	55	42	34	28	40	33	27	39	32	27	37	31	26	24
9	53	39	31	25	51	39	30	25	37	30	24	35	29	24	34	28	24	22
10	50	36	28	23	48	35	28	22	34	27	22	33	26	22	32	26	21	20

Spacing Criteria: 1.30 (0-180), 1.31 (90-270), 1.45 (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	276.0	0.3	0.3	0.03	0.03
1.0-2.0	276.0	0.8	1.1	0.08	0.10
2.0-3.0	275.9	1.3	2.4	0.13	0.24
3.0-4.0	275.7	1.8	4.2	0.18	0.42
4.0-5.0	275.5	2.4	6.6	0.24	0.65
5.0-6.0	275.2	2.9	9.5	0.29	0.94
6.0-7.0	274.9	3.4	12.9	0.34	1.28
7.0-8.0	274.5	3.9	16.8	0.39	1.67
8.0-9.0	273.9	4.4	21.3	0.44	2.11
9.0-10.0	273.4	4.9	26.2	0.49	2.60
10.0-11.0	272.7	5.5	31.7	0.54	3.14
11.0-12.0	272.0	5.9	37.6	0.59	3.73
12.0-13.0	271.1	6.4	44.0	0.64	4.37
13.0-14.0	270.2	6.9	51.0	0.69	5.05
14.0-15.0	269.2	7.4	58.4	0.73	5.79
15.0-16.0	268.1	7.9	66.2	0.78	6.57
16.0-17.0	267.0	8.3	74.5	0.82	7.39
17.0-18.0	265.7	8.8	83.3	0.87	8.26
18.0-19.0	264.4	9.2	92.5	0.91	9.17
19.0-20.0	263.0	9.6	102.1	0.95	10.12
20.0-21.0	261.5	10.0	112.2	1.00	11.12
21.0-22.0	259.9	10.4	122.6	1.04	12.16
22.0-23.0	258.2	10.8	133.4	1.07	13.23
23.0-24.0	256.5	11.2	144.7	1.11	14.34
24.0-25.0	254.7	11.6	156.2	1.15	15.49
25.0-26.0	252.9	11.9	168.2	1.18	16.68
26.0-27.0	250.9	12.3	180.5	1.22	17.89
27.0-28.0	248.9	12.6	193.1	1.25	19.14
28.0-29.0	246.8	12.9	206.0	1.28	20.42
29.0-30.0	244.7	13.2	219.2	1.31	21.73
30.0-31.0	242.4	13.5	232.7	1.34	23.07
31.0-32.0	240.2	13.8	246.4	1.36	24.44
32.0-33.0	237.8	14.0	260.5	1.39	25.82
33.0-34.0	235.4	14.2	274.7	1.41	27.24
34.0-35.0	232.9	14.5	289.2	1.43	28.67
35.0-36.0	230.4	14.7	303.8	1.45	30.13
36.0-37.0	227.8	14.9	318.7	1.47	31.60
37.0-38.0	225.1	15.0	333.7	1.49	33.09
38.0-39.0	222.4	15.2	348.9	1.51	34.60
39.0-40.0	219.6	15.3	364.2	1.52	36.11

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	216.8	15.4	379.7	1.53	37.65
41.0-42.0	214.0	15.5	395.2	1.54	39.19
42.0-43.0	211.0	15.6	410.9	1.55	40.74
43.0-44.0	208.0	15.7	426.6	1.56	42.29
44.0-45.0	205.0	15.8	442.3	1.56	43.86
45.0-46.0	201.9	15.8	458.1	1.57	45.42
46.0-47.0	198.8	15.8	473.9	1.57	46.99
47.0-48.0	195.5	15.8	489.7	1.57	48.56
48.0-49.0	192.3	15.8	505.5	1.57	50.12
49.0-50.0	189.1	15.8	521.3	1.56	51.69
50.0-51.0	185.7	15.7	537.0	1.56	53.25
51.0-52.0	182.4	15.7	552.7	1.55	54.80
52.0-53.0	179.0	15.6	568.2	1.54	56.34
53.0-54.0	175.5	15.5	583.7	1.53	57.88
54.0-55.0	172.0	15.4	599.1	1.52	59.40
55.0-56.0	168.4	15.2	614.3	1.51	60.91
56.0-57.0	164.7	15.1	629.3	1.49	62.40
57.0-58.0	161.1	14.9	644.2	1.48	63.88
58.0-59.0	157.4	14.7	659.0	1.46	65.34
59.0-60.0	153.6	14.5	673.5	1.44	66.78
60.0-61.0	149.9	14.3	687.8	1.42	68.20
61.0-62.0	146.1	14.1	701.9	1.40	69.59
62.0-63.0	142.2	13.8	715.7	1.37	70.96
63.0-64.0	138.2	13.6	729.2	1.35	72.31
64.0-65.0	134.3	13.3	742.5	1.32	73.63
65.0-66.0	130.4	13.0	755.5	1.29	74.92
66.0-67.0	126.3	12.7	768.2	1.26	76.17
67.0-68.0	122.2	12.4	780.6	1.23	77.40
68.0-69.0	118.1	12.1	792.7	1.19	78.60
69.0-70.0	114.0	11.7	804.4	1.16	79.76
70.0-71.0	109.8	11.4	815.7	1.13	80.88
71.0-72.0	105.7	11.0	826.7	1.09	81.97
72.0-73.0	101.4	10.6	837.3	1.05	83.02
73.0-74.0	97.2	10.2	847.6	1.01	84.04
74.0-75.0	93.0	9.8	857.4	0.97	85.01
75.0-76.0	88.7	9.4	866.8	0.93	85.95
76.0-77.0	84.4	9.0	875.8	0.89	86.84
77.0-78.0	80.3	8.6	884.4	0.85	87.69
78.0-79.0	76.0	8.2	892.6	0.81	88.50
79.0-80.0	71.8	7.7	900.3	0.77	89.27

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Measurement System : GMS-5000 (E412011U)

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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	67.7	7.3	907.6	0.73	89.99
81.0-82.0	63.6	6.9	914.5	0.68	90.68
82.0-83.0	59.5	6.5	921.0	0.64	91.32
83.0-84.0	55.4	6.0	927.0	0.60	91.92
84.0-85.0	51.4	5.6	932.6	0.56	92.47
85.0-86.0	47.1	5.2	937.8	0.51	92.98
86.0-87.0	42.6	4.7	942.5	0.46	93.45
87.0-88.0	38.1	4.2	946.6	0.41	93.86
88.0-89.0	33.3	3.7	950.3	0.36	94.22
89.0-90.0	28.4	3.1	953.4	0.31	94.53
90.0-91.0	23.7	2.6	956.0	0.26	94.79
91.0-92.0	19.2	2.1	958.1	0.21	95.00
92.0-93.0	15.5	1.7	959.8	0.17	95.16
93.0-94.0	12.8	1.4	961.2	0.14	95.30
94.0-95.0	11.4	1.2	962.4	0.12	95.43
95.0-96.0	10.9	1.2	963.6	0.12	95.55
96.0-97.0	10.8	1.2	964.8	0.12	95.66
97.0-98.0	10.7	1.2	966.0	0.12	95.78
98.0-99.0	10.6	1.1	967.1	0.11	95.89
99.0-100.0	10.4	1.1	968.2	0.11	96.00
100.0-101.0	10.3	1.1	969.3	0.11	96.11
101.0-102.0	10.2	1.1	970.4	0.11	96.22
102.0-103.0	10.0	1.1	971.5	0.11	96.33
103.0-104.0	9.9	1.1	972.6	0.10	96.43
104.0-105.0	9.7	1.0	973.6	0.10	96.54
105.0-106.0	9.6	1.0	974.6	0.10	96.64
106.0-107.0	9.4	1.0	975.6	0.10	96.73
107.0-108.0	9.3	1.0	976.6	0.10	96.83
108.0-109.0	9.2	1.0	977.5	0.10	96.93
109.0-110.0	9.1	0.9	978.5	0.09	97.02
110.0-111.0	9.0	0.9	979.4	0.09	97.11
111.0-112.0	9.0	0.9	980.3	0.09	97.20
112.0-113.0	8.9	0.9	981.2	0.09	97.29
113.0-114.0	8.8	0.9	982.1	0.09	97.38
114.0-115.0	8.8	0.9	983.0	0.09	97.47
115.0-116.0	8.7	0.9	983.9	0.09	97.55
116.0-117.0	8.7	0.9	984.7	0.08	97.64
117.0-118.0	8.6	0.8	985.6	0.08	97.72
118.0-119.0	8.6	0.8	986.4	0.08	97.80
119.0-120.0	8.6	0.8	987.2	0.08	97.88

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 °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
120.0-121.0	8.5	0.8	988.0	0.08	97.96
121.0-122.0	8.5	0.8	988.8	0.08	98.04
122.0-123.0	8.4	0.8	989.6	0.08	98.12
123.0-124.0	8.4	0.8	990.3	0.08	98.20
124.0-125.0	8.4	0.8	991.1	0.07	98.27
125.0-126.0	8.3	0.7	991.8	0.07	98.34
126.0-127.0	8.2	0.7	992.6	0.07	98.42
127.0-128.0	8.2	0.7	993.3	0.07	98.49
128.0-129.0	8.2	0.7	994.0	0.07	98.56
129.0-130.0	8.1	0.7	994.7	0.07	98.62
130.0-131.0	8.1	0.7	995.3	0.07	98.69
131.0-132.0	8.0	0.7	996.0	0.06	98.76
132.0-133.0	7.8	0.6	996.6	0.06	98.82
133.0-134.0	7.8	0.6	997.2	0.06	98.88
134.0-135.0	7.7	0.6	997.8	0.06	98.94
135.0-136.0	7.5	0.6	998.4	0.06	99.00
136.0-137.0	7.4	0.6	999.0	0.06	99.05
137.0-138.0	7.3	0.5	999.5	0.05	99.11
138.0-139.0	7.1	0.5	1000.0	0.05	99.16
139.0-140.0	7.0	0.5	1000.5	0.05	99.21
140.0-141.0	6.9	0.5	1001.0	0.05	99.26
141.0-142.0	6.8	0.5	1001.5	0.05	99.30
142.0-143.0	6.6	0.4	1001.9	0.04	99.34
143.0-144.0	6.5	0.4	1002.4	0.04	99.39
144.0-145.0	6.4	0.4	1002.8	0.04	99.43
145.0-146.0	6.4	0.4	1003.2	0.04	99.47
146.0-147.0	6.3	0.4	1003.5	0.04	99.50
147.0-148.0	6.2	0.4	1003.9	0.04	99.54
148.0-149.0	6.0	0.3	1004.2	0.03	99.57
149.0-150.0	5.8	0.3	1004.6	0.03	99.61
150.0-151.0	5.7	0.3	1004.9	0.03	99.64
151.0-152.0	5.7	0.3	1005.2	0.03	99.67
152.0-153.0	5.6	0.3	1005.5	0.03	99.70
153.0-154.0	5.5	0.3	1005.7	0.03	99.72
154.0-155.0	5.4	0.3	1006.0	0.03	99.75
155.0-156.0	5.3	0.2	1006.2	0.02	99.77
156.0-157.0	5.2	0.2	1006.5	0.02	99.79
157.0-158.0	5.0	0.2	1006.7	0.02	99.81
158.0-159.0	4.9	0.2	1006.9	0.02	99.83
159.0-160.0	4.8	0.2	1007.0	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	4.6	0.2	1007.2	0.02	99.87
161.0-162.0	4.5	0.2	1007.4	0.02	99.88
162.0-163.0	4.4	0.1	1007.5	0.01	99.90
163.0-164.0	4.2	0.1	1007.7	0.01	99.91
164.0-165.0	4.1	0.1	1007.8	0.01	99.92
165.0-166.0	4.0	0.1	1007.9	0.01	99.93
166.0-167.0	3.9	0.1	1008.0	0.01	99.94
167.0-168.0	3.8	0.1	1008.1	0.01	99.95
168.0-169.0	3.7	0.1	1008.1	0.01	99.96
169.0-170.0	3.6	0.1	1008.2	0.01	99.97
170.0-171.0	3.5	0.1	1008.3	0.01	99.97
171.0-172.0	3.4	0.1	1008.3	0.01	99.98
172.0-173.0	3.4	0.0	1008.4	0.00	99.98
173.0-174.0	3.3	0.0	1008.4	0.00	99.99
174.0-175.0	3.3	0.0	1008.5	0.00	99.99
175.0-176.0	3.2	0.0	1008.5	0.00	100.00
176.0-177.0	3.2	0.0	1008.5	0.00	100.00
177.0-178.0	3.2	0.0	1008.5	0.00	100.00
178.0-179.0	3.2	0.0	1008.5	0.00	100.00
179.0-180.0	3.2	0.0	1008.5	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	276.1	276.1	276.1	276.1	276.1	276.1	276.1	276.1
G1.0	275.7	275.8	275.9	276.0	276.1	276.2	276.3	276.3
G2.0	275.3	275.5	275.7	275.9	276.1	276.3	276.4	276.5
G3.0	274.9	275.1	275.4	275.7	276.0	276.3	276.5	276.6
G4.0	274.4	274.6	275.1	275.4	275.9	276.3	276.5	276.7
G5.0	274.0	274.2	274.6	275.1	275.7	276.2	276.5	276.7
G6.0	273.4	273.7	274.2	274.8	275.5	276.1	276.5	276.7
G7.0	272.8	273.1	273.7	274.4	275.2	275.9	276.3	276.5
G8.0	271.9	272.5	273.1	274.0	274.8	275.6	276.1	276.4
G9.0	271.1	271.7	272.5	273.4	274.4	275.2	275.9	276.0
G10.0	270.3	270.9	271.8	272.7	273.8	274.8	275.5	275.6
G11.0	269.3	270.0	271.1	272.0	273.2	274.3	275.1	275.2
G12.0	268.3	269.0	270.2	271.3	272.6	273.7	274.5	274.7
G13.0	267.2	268.0	269.4	270.4	271.6	273.0	273.9	274.1
G14.0	266.0	266.9	268.2	269.5	270.7	272.3	273.2	273.4
G15.0	264.5	265.7	267.1	268.5	269.8	271.5	272.4	272.5
G16.0	263.2	264.4	265.9	267.2	268.8	270.4	271.6	271.6
G17.0	261.8	262.9	264.7	266.1	267.7	269.4	270.6	270.6
G18.0	260.2	261.5	263.4	264.9	266.5	268.4	269.7	269.6
G19.0	258.7	260.0	262.1	263.6	265.0	267.2	268.3	268.5
G20.0	257.0	258.4	260.3	262.2	263.7	266.0	267.1	267.3
G21.0	255.0	256.8	258.8	260.7	262.3	264.7	265.9	266.0
G22.0	253.2	255.1	257.2	259.2	260.8	263.3	264.6	264.3
G23.0	251.3	253.4	255.6	257.3	259.2	261.6	263.1	262.9
G24.0	249.4	251.2	253.8	255.6	257.6	260.0	261.7	261.3
G25.0	247.4	249.3	252.1	253.9	255.9	258.5	259.8	259.7
G26.0	245.4	247.3	250.2	252.1	254.1	256.8	258.1	258.1
G27.0	243.2	245.3	247.9	250.3	252.0	255.0	256.4	256.3
G28.0	240.6	243.2	245.9	248.3	250.1	253.2	254.6	254.5
G29.0	238.4	241.1	243.9	246.3	248.1	251.3	252.7	252.2
G30.0	236.1	238.9	241.8	243.9	246.1	249.0	250.8	250.2
G31.0	233.8	236.2	239.6	241.8	243.9	247.0	248.8	248.2
G32.0	231.4	233.9	237.4	239.6	241.8	244.9	246.3	246.1
G33.0	228.9	231.5	235.1	237.3	239.1	242.8	244.2	243.9
G34.0	225.9	229.0	232.3	235.0	236.8	240.6	241.9	241.6
G35.0	223.3	226.6	229.9	232.7	234.5	238.3	239.7	238.8
G36.0	220.7	224.0	227.5	229.8	232.1	235.5	237.3	236.5
G37.0	218.0	220.9	224.9	227.3	229.6	233.1	234.9	234.0
G38.0	215.3	218.3	222.4	224.8	227.1	230.6	232.5	231.4
G39.0	212.5	215.6	219.8	222.2	224.0	228.1	229.4	228.8

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	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G40.0	209.7	212.8	216.5	219.6	221.4	225.5	226.8	226.2
G41.0	206.3	210.1	213.9	216.9	218.7	222.9	224.2	223.5
G42.0	203.4	207.2	211.0	214.2	215.9	220.2	221.5	220.2
G43.0	200.4	204.3	208.2	210.9	213.1	216.8	218.7	217.3
G44.0	197.4	200.8	205.4	208.0	210.3	214.0	215.9	214.4
G45.0	194.3	197.8	202.5	205.2	207.4	211.2	213.0	211.5
G46.0	191.2	194.9	199.5	202.2	203.9	208.3	209.5	208.5
G47.0	188.1	191.8	195.9	199.3	200.9	205.3	206.5	205.4
G48.0	184.3	188.7	192.9	196.2	197.9	202.3	203.4	201.6
G49.0	181.1	185.5	189.8	193.2	194.8	199.2	200.3	198.5
G50.0	177.8	181.7	186.7	189.5	191.7	195.5	197.2	195.2
G51.0	174.6	178.5	183.5	186.4	188.5	192.4	194.0	191.9
G52.0	171.2	175.3	180.3	183.1	185.3	189.2	190.1	188.6
G53.0	167.8	171.9	177.1	179.9	181.4	185.9	186.7	185.2
G54.0	164.4	168.6	173.2	176.6	178.1	182.6	183.4	181.7
G55.0	160.3	165.2	169.8	173.3	174.7	179.3	180.0	177.5
G56.0	156.8	161.8	166.5	169.4	171.3	175.2	176.6	174.0
G57.0	153.3	157.6	163.0	165.9	167.9	171.8	173.0	170.3
G58.0	149.7	154.1	159.6	162.5	164.4	168.3	169.5	166.7
G59.0	146.1	150.6	156.1	159.0	160.2	164.8	165.1	163.0
G60.0	142.5	147.0	151.9	155.5	156.7	161.2	161.5	159.2
G61.0	138.1	143.4	148.3	151.9	153.1	157.6	157.8	155.4
G62.0	134.3	139.7	144.7	148.4	149.4	153.9	154.0	150.8
G63.0	130.6	136.0	141.0	144.0	145.7	149.5	150.2	146.8
G64.0	126.8	131.5	137.3	140.3	142.0	145.8	146.4	142.9
G65.0	123.0	127.8	133.7	136.6	138.3	142.0	142.5	138.9
G66.0	119.1	123.9	129.9	132.9	133.7	138.2	137.8	134.8
G67.0	115.2	120.1	125.4	129.1	129.9	134.3	133.8	130.7
G68.0	110.5	116.2	121.5	125.3	126.0	130.4	129.7	126.5
G69.0	106.5	112.3	117.7	121.4	122.2	125.7	125.7	121.5
G70.0	102.6	108.4	113.8	116.9	118.3	121.8	121.6	117.3
G71.0	98.6	103.6	109.9	112.9	114.3	117.7	117.5	113.1
G72.0	94.6	99.7	105.9	109.0	110.4	113.7	113.3	108.8
G73.0	90.6	95.6	102.0	105.1	105.6	109.6	108.2	104.4
G74.0	86.6	91.6	97.2	101.1	101.6	105.5	104.0	100.1
G75.0	81.8	87.6	93.2	97.2	97.7	101.5	99.7	95.0
G76.0	77.8	83.6	89.2	92.4	93.7	96.6	95.5	90.6
G77.0	73.8	79.6	85.2	88.5	89.7	92.4	91.1	86.2
G78.0	69.9	74.7	81.1	84.5	85.8	88.3	86.9	81.8
G79.0	66.0	70.8	77.1	80.6	81.1	84.2	81.7	77.5

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	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G80.0	61.4	66.9	72.3	76.7	77.2	80.1	77.5	73.2
G81.0	57.6	62.9	68.3	72.8	73.3	76.0	73.2	68.9
G82.0	53.9	59.0	64.4	68.9	69.5	71.9	68.9	63.7
G83.0	50.3	55.2	60.4	64.2	65.8	67.0	64.7	59.5
G84.0	46.9	50.6	56.5	60.4	62.1	63.0	60.5	55.2
G85.0	43.4	47.0	52.5	56.6	58.6	59.0	56.3	51.2
G86.0	39.4	43.2	48.5	52.6	53.9	54.9	51.1	47.1
G87.0	35.3	39.0	43.6	48.2	49.6	50.4	46.7	42.4
G88.0	30.4	34.8	39.3	43.8	45.2	45.8	42.0	37.6
G89.0	26.3	30.5	34.8	39.3	40.8	41.1	37.2	31.9
G90.0	21.8	26.2	30.4	33.9	36.2	35.3	32.3	26.8
G91.0	17.1	20.6	25.9	29.1	31.1	30.0	27.2	21.6
G92.0	12.8	16.2	21.5	24.5	26.3	25.1	22.3	16.9
G93.0	9.0	12.2	17.3	20.2	21.1	20.7	17.2	12.8
G94.0	5.7	8.4	12.6	16.5	17.5	17.0	13.4	9.1
G95.0	5.4	7.7	11.4	14.3	15.3	14.5	11.7	7.8
G96.0	5.2	7.4	11.3	14.1	15.1	14.3	11.6	7.7
G97.0	5.0	7.3	11.2	14.0	15.0	14.2	11.5	7.6
G98.0	5.0	7.2	11.0	13.9	14.9	14.1	11.3	7.5
G99.0	4.8	7.1	10.9	13.7	14.7	14.0	11.1	7.4
G100.0	4.8	7.0	10.7	13.6	14.7	13.9	11.0	7.3
G101.0	4.6	6.9	10.5	13.5	14.6	13.8	10.8	7.2
G102.0	4.6	6.9	10.2	13.4	14.5	13.7	10.6	7.1
G103.0	4.5	6.7	10.0	13.2	14.4	13.6	10.3	7.0
G104.0	4.4	6.7	9.7	13.0	14.3	13.4	10.1	7.0
G105.0	4.3	6.7	9.5	12.8	14.2	13.2	9.8	7.0
G106.0	4.2	6.7	9.3	12.7	14.0	13.0	9.6	7.0
G107.0	4.2	6.7	9.1	12.5	13.8	12.8	9.5	7.0
G108.0	4.2	6.7	9.0	12.2	13.6	12.6	9.3	7.0
G109.0	4.3	6.8	8.9	12.1	13.4	12.5	9.2	7.0
G110.0	4.4	6.8	8.8	11.9	13.2	12.3	9.1	7.0
G111.0	4.4	6.9	8.7	11.8	13.1	12.2	9.0	7.0
G112.0	4.4	6.9	8.7	11.7	13.0	12.0	9.0	7.0
G113.0	4.5	7.0	8.7	11.6	12.8	11.8	9.0	7.0
G114.0	4.4	7.0	8.7	11.4	12.6	11.7	9.0	7.0
G115.0	4.5	7.1	8.8	11.3	12.5	11.5	9.0	7.0
G116.0	4.5	7.1	8.8	11.2	12.3	11.4	9.0	7.0
G117.0	4.5	7.2	8.8	11.1	12.2	11.3	9.0	7.0
G118.0	4.6	7.2	8.9	11.0	12.0	11.3	9.0	7.0
G119.0	4.6	7.2	8.9	11.0	11.9	11.3	9.0	7.0

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	4.6	7.2	8.9	10.9	11.8	11.2	9.0	7.0
G121.0	4.6	7.2	8.9	10.9	11.7	11.2	8.9	6.9
G122.0	4.6	7.2	9.0	10.8	11.6	11.1	8.9	6.9
G123.0	4.7	7.2	9.0	10.7	11.5	11.0	9.0	6.9
G124.0	4.7	7.2	9.0	10.7	11.4	10.9	9.0	6.8
G125.0	4.7	7.2	9.1	10.6	11.3	10.9	9.0	6.7
G126.0	4.7	7.1	9.1	10.6	11.0	10.8	9.0	6.7
G127.0	4.8	7.1	9.1	10.5	10.8	10.6	9.0	6.7
G128.0	4.9	7.1	9.1	10.5	10.7	10.6	9.0	6.7
G129.0	4.9	7.1	9.1	10.6	10.6	10.5	8.9	6.6
G130.0	5.0	7.0	9.0	10.4	10.6	10.4	8.9	6.6
G131.0	5.0	6.9	9.0	10.2	10.5	10.3	8.8	6.5
G132.0	5.0	6.9	8.9	9.9	10.4	10.2	8.7	6.5
G133.0	5.0	6.8	8.8	9.6	10.3	10.0	8.6	6.4
G134.0	5.1	6.8	8.7	9.3	10.2	9.8	8.5	6.3
G135.0	5.1	6.7	8.7	9.0	10.1	9.6	8.4	5.9
G136.0	5.1	6.7	8.6	8.7	10.0	9.4	8.3	5.5
G137.0	5.1	6.6	8.5	8.5	9.9	9.3	8.2	4.6
G138.0	5.1	6.5	8.4	8.3	9.8	9.1	8.1	4.3
G139.0	5.1	6.5	8.3	8.0	9.6	8.8	8.0	4.9
G140.0	5.1	6.4	8.2	7.7	9.5	8.5	7.9	5.1
G141.0	5.1	6.3	8.1	7.4	9.4	8.2	7.7	5.1
G142.0	5.1	6.2	7.9	7.2	9.2	7.9	7.6	5.1
G143.0	5.1	6.1	7.9	6.9	9.0	7.6	7.4	5.0
G144.0	5.1	6.0	7.8	6.8	8.9	7.4	7.2	4.9
G145.0	5.1	5.9	7.7	6.7	8.7	7.2	7.1	4.8
G146.0	5.1	5.9	7.6	6.6	8.5	7.0	6.9	4.8
G147.0	5.1	5.8	7.5	6.6	8.4	6.9	6.8	4.8
G148.0	5.2	5.7	7.2	6.4	8.2	6.7	6.6	4.8
G149.0	5.2	5.6	7.0	6.3	7.6	6.6	6.4	4.9
G150.0	5.2	5.7	6.9	6.2	6.8	6.5	6.1	5.0
G151.0	5.2	5.7	6.5	6.0	6.7	6.5	5.9	5.0
G152.0	5.3	5.9	6.1	5.9	6.9	6.4	5.9	4.9
G153.0	5.4	6.0	5.9	5.8	6.9	6.2	6.0	4.8
G154.0	5.4	5.9	5.7	5.6	6.7	6.1	6.1	4.7
G155.0	5.3	5.6	5.5	5.6	6.5	5.9	5.9	4.7
G156.0	5.2	5.4	5.4	5.5	6.3	5.6	5.6	4.8
G157.0	5.1	5.2	5.2	5.3	6.1	5.4	5.4	4.9
G158.0	4.9	5.1	5.0	5.2	5.8	5.2	5.3	5.1
G159.0	4.7	4.9	4.9	5.2	5.7	5.1	5.1	5.0

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

**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	276.1	276.1	276.1	276.1	276.1	276.1	276.1	276.1
G1.0	276.3	276.2	276.2	276.1	275.9	275.8	275.8	275.8
G2.0	276.5	276.4	276.2	276.0	275.8	275.6	275.4	275.4
G3.0	276.6	276.5	276.2	275.9	275.6	275.3	275.0	275.0
G4.0	276.8	276.5	276.2	275.8	275.3	275.0	274.6	274.6
G5.0	276.8	276.5	276.1	275.5	275.0	274.5	274.2	274.1
G6.0	276.8	276.4	275.9	275.2	274.6	274.0	273.7	273.5
G7.0	276.6	276.3	275.7	274.9	274.1	273.5	273.1	272.8
G8.0	276.4	276.0	275.3	274.4	273.5	272.8	272.5	272.1
G9.0	276.1	275.7	274.9	274.0	272.9	272.2	271.6	271.4
G10.0	275.7	275.3	274.4	273.4	272.1	271.4	270.8	270.5
G11.0	275.2	274.6	273.9	272.7	271.4	270.5	269.9	269.6
G12.0	274.7	274.0	273.2	271.8	270.5	269.4	268.9	268.5
G13.0	274.0	273.3	272.5	270.9	269.5	268.4	267.8	267.2
G14.0	273.1	272.6	271.6	270.0	268.4	267.3	266.7	266.0
G15.0	272.2	271.7	270.6	269.0	267.1	266.1	265.3	264.8
G16.0	271.3	270.8	269.6	267.9	265.9	264.9	264.0	263.5
G17.0	270.3	269.6	268.5	266.7	264.6	263.5	262.6	262.1
G18.0	269.2	268.4	267.4	265.2	263.2	262.2	261.1	260.6
G19.0	268.0	267.2	266.1	263.9	261.8	260.4	259.6	258.7
G20.0	266.4	265.9	264.8	262.5	260.2	258.8	258.0	257.1
G21.0	265.0	264.5	263.1	261.0	258.3	257.2	256.4	255.3
G22.0	263.6	263.1	261.6	259.4	256.6	255.5	254.3	253.5
G23.0	262.1	261.5	260.0	257.8	254.9	253.7	252.5	251.7
G24.0	260.4	259.6	258.4	256.1	253.1	251.9	250.6	249.8
G25.0	258.7	257.9	256.6	253.9	251.2	249.6	248.7	247.8
G26.0	256.6	256.1	254.8	252.1	249.2	247.6	246.7	245.3
G27.0	254.7	254.2	252.6	250.1	247.2	245.6	244.6	243.2
G28.0	252.8	252.3	250.6	248.1	244.7	243.5	242.5	241.0
G29.0	250.8	250.3	248.6	246.1	242.5	241.3	239.8	238.8
G30.0	248.7	247.8	246.5	244.0	240.3	239.2	237.6	236.5
G31.0	246.5	245.7	244.4	241.3	238.0	236.4	235.3	234.1
G32.0	244.3	243.4	242.1	239.1	235.7	234.0	232.9	231.2
G33.0	241.5	241.1	239.8	236.7	233.3	231.6	230.5	228.7
G34.0	239.1	238.8	237.0	234.3	230.3	229.2	228.0	226.2
G35.0	236.7	236.4	234.6	231.9	227.9	226.7	225.0	223.7
G36.0	234.2	233.9	232.1	229.4	225.3	224.1	222.3	221.0
G37.0	231.6	230.8	229.6	226.8	222.6	221.5	219.7	218.3
G38.0	228.9	228.2	227.0	223.7	220.0	218.3	217.0	215.6
G39.0	226.3	225.5	224.3	221.0	217.3	215.5	214.3	212.3

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
G40.0	222.9	222.8	221.0	218.3	214.5	212.8	211.5	209.5
G41.0	220.1	220.0	218.3	215.5	211.1	210.0	208.7	206.5
G42.0	217.2	217.1	215.4	212.6	208.2	207.1	205.2	203.6
G43.0	214.2	213.6	212.5	209.7	205.3	204.2	202.3	200.7
G44.0	211.2	210.6	209.6	206.2	202.3	200.7	199.3	197.7
G45.0	208.2	207.6	206.6	203.2	199.3	197.7	196.3	194.0
G46.0	204.5	204.5	203.6	200.2	196.2	194.7	193.3	190.9
G47.0	201.3	201.3	199.8	197.1	192.5	191.6	190.2	187.8
G48.0	198.0	198.1	196.7	194.0	189.3	188.4	186.4	184.6
G49.0	194.8	194.9	193.5	190.8	186.1	185.3	183.2	181.4
G50.0	191.4	190.9	190.2	187.6	182.9	182.1	180.0	178.1
G51.0	188.0	187.5	186.9	183.7	179.6	178.2	176.8	174.8
G52.0	184.5	184.1	183.6	180.4	176.2	174.9	173.4	170.8
G53.0	180.3	180.6	180.1	177.0	172.9	171.5	170.1	167.4
G54.0	176.8	177.1	176.0	173.6	168.8	168.2	166.7	164.0
G55.0	173.2	173.5	172.6	170.2	165.4	164.8	162.6	160.5
G56.0	169.5	169.1	169.0	166.7	161.9	161.3	159.2	157.0
G57.0	165.7	165.4	165.4	162.4	158.4	157.1	155.6	153.4
G58.0	162.0	161.7	161.7	158.8	154.7	153.6	152.1	149.8
G59.0	157.4	157.9	158.0	155.2	151.2	150.0	148.5	145.5
G60.0	153.5	154.1	153.5	151.5	146.8	146.4	144.9	141.8
G61.0	149.6	150.2	149.7	147.8	143.1	142.8	140.5	138.1
G62.0	145.5	146.2	145.8	144.1	139.4	139.1	136.7	134.3
G63.0	141.5	141.5	142.0	139.5	135.6	135.4	133.0	130.6
G64.0	137.4	137.5	138.1	135.7	131.9	130.9	129.3	126.8
G65.0	133.3	133.4	134.1	131.8	128.0	127.1	125.5	122.2
G66.0	128.3	129.3	130.1	127.9	124.2	123.3	121.6	118.3
G67.0	124.1	125.1	125.2	124.0	119.5	119.4	117.8	114.3
G68.0	119.8	120.8	121.1	120.1	115.6	115.5	113.1	110.4
G69.0	115.6	116.7	117.0	116.1	111.7	111.7	109.2	106.4
G70.0	111.3	111.5	112.8	111.3	107.8	107.8	105.2	102.5
G71.0	106.9	107.2	108.6	107.3	103.8	103.1	101.2	97.6
G72.0	102.6	102.9	104.3	103.2	99.8	99.1	97.1	93.6
G73.0	97.3	98.5	99.2	99.1	95.1	95.1	93.1	89.5
G74.0	93.0	94.2	95.0	95.1	91.1	91.2	88.3	85.5
G75.0	88.6	89.8	90.7	91.0	87.2	87.2	84.3	81.4
G76.0	84.2	84.5	86.4	86.0	83.2	83.3	80.2	77.4
G77.0	79.8	80.1	82.1	81.9	79.3	78.5	76.2	73.3
G78.0	75.5	75.8	77.8	77.9	75.4	74.6	72.2	68.5
G79.0	70.4	71.4	72.7	73.9	71.6	70.7	68.2	64.6

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
G80.0	66.1	67.1	68.5	69.8	67.2	66.8	63.4	60.6
G81.0	61.8	62.8	64.2	65.8	63.5	62.9	59.4	56.7
G82.0	57.6	57.6	60.0	61.9	60.0	59.1	55.5	52.8
G83.0	53.7	53.4	55.8	57.2	56.5	54.6	51.5	49.1
G84.0	49.9	49.3	51.6	53.2	52.6	50.7	47.6	44.7
G85.0	44.6	45.0	47.3	48.8	48.4	46.4	43.6	40.7
G86.0	39.9	40.2	41.9	44.3	43.3	42.1	39.4	36.4
G87.0	35.3	35.5	37.1	39.7	39.0	37.7	34.1	32.2
G88.0	30.5	30.6	32.3	34.9	34.2	33.2	29.7	27.9
G89.0	25.1	24.4	27.3	28.8	29.4	27.7	25.4	23.5
G90.0	19.9	19.5	22.5	24.2	24.9	23.2	21.0	17.9
G91.0	14.3	15.0	18.2	20.0	20.9	19.3	17.0	13.6
G92.0	10.2	11.1	13.7	16.5	16.8	15.8	13.3	9.9
G93.0	6.6	8.0	11.9	15.1	16.1	14.7	11.4	7.5
G94.0	5.8	7.7	11.7	15.0	16.1	14.5	11.1	7.1
G95.0	5.7	7.5	11.7	14.9	16.0	14.3	10.9	6.8
G96.0	5.6	7.4	11.6	14.8	15.9	14.2	10.8	6.6
G97.0	5.5	7.3	11.5	14.7	15.8	14.1	10.7	6.4
G98.0	5.4	7.1	11.4	14.6	15.8	14.0	10.5	6.3
G99.0	5.3	7.0	11.2	14.5	15.7	13.9	10.3	6.1
G100.0	5.3	6.9	11.1	14.5	15.6	13.8	10.1	6.0
G101.0	5.2	6.7	10.9	14.4	15.5	13.7	9.9	5.8
G102.0	5.1	6.5	10.7	14.3	15.5	13.5	9.7	5.7
G103.0	5.0	6.4	10.4	14.1	15.3	13.3	9.5	5.6
G104.0	4.9	6.3	10.2	13.9	15.2	13.1	9.2	5.5
G105.0	4.8	6.2	9.9	13.8	15.0	12.9	8.9	5.5
G106.0	4.7	6.1	9.6	13.6	14.8	12.7	8.6	5.5
G107.0	4.6	6.1	9.4	13.4	14.6	12.5	8.5	5.5
G108.0	4.5	6.1	9.2	13.1	14.4	12.3	8.3	5.6
G109.0	4.6	6.1	9.0	12.8	14.2	12.0	8.2	5.6
G110.0	4.6	6.1	8.9	12.6	13.9	11.8	8.1	5.7
G111.0	4.6	6.1	8.7	12.4	13.6	11.7	8.0	5.7
G112.0	4.6	6.1	8.6	12.2	13.4	11.5	7.9	5.8
G113.0	4.6	6.1	8.5	12.0	13.2	11.4	7.9	5.8
G114.0	4.6	6.2	8.4	11.8	13.0	11.2	7.8	5.8
G115.0	4.6	6.2	8.3	11.7	12.8	11.1	7.7	5.9
G116.0	4.6	6.2	8.3	11.6	12.6	10.9	7.7	6.0
G117.0	4.7	6.2	8.2	11.4	12.5	10.8	7.8	6.0
G118.0	4.7	6.2	8.2	11.2	12.3	10.7	7.8	6.0
G119.0	4.7	6.2	8.2	11.1	12.1	10.5	7.8	6.0

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	4.7	6.2	8.2	10.9	11.9	10.4	7.8	6.0
G121.0	4.7	6.2	8.1	10.7	11.7	10.2	7.9	6.0
G122.0	4.7	6.1	8.1	10.6	11.5	10.1	7.9	6.0
G123.0	4.7	6.1	8.1	10.6	11.4	10.0	7.9	6.0
G124.0	4.7	6.1	8.1	10.5	11.2	9.9	8.0	6.0
G125.0	4.7	6.0	8.2	10.3	10.7	9.8	8.0	6.0
G126.0	4.7	6.0	8.2	10.2	10.5	9.7	8.0	5.9
G127.0	4.8	5.9	8.1	10.2	10.4	9.6	8.0	5.9
G128.0	4.8	5.9	8.1	10.0	10.3	9.6	8.0	5.8
G129.0	4.8	5.9	8.1	10.0	10.3	9.6	8.0	5.8
G130.0	4.7	5.7	8.1	9.9	10.2	9.5	7.9	5.7
G131.0	4.5	5.7	8.0	9.8	10.1	9.5	7.9	5.7
G132.0	3.8	5.6	7.9	9.7	10.0	9.3	7.8	5.6
G133.0	4.0	5.5	7.8	9.5	9.9	9.1	7.7	5.6
G134.0	4.7	5.5	7.7	9.4	9.8	8.8	7.7	5.6
G135.0	4.7	5.4	7.6	9.1	9.7	8.5	7.6	5.5
G136.0	4.8	5.3	7.5	8.9	9.6	8.2	7.5	5.5
G137.0	4.8	5.3	7.4	8.7	9.4	8.0	7.5	5.4
G138.0	4.8	5.2	7.3	8.4	9.3	7.8	7.3	5.4
G139.0	4.8	5.2	7.2	8.2	9.2	7.5	7.2	5.3
G140.0	4.7	5.1	7.1	7.9	9.0	7.2	7.0	5.3
G141.0	4.8	5.1	6.8	7.7	8.9	6.9	7.0	5.2
G142.0	4.8	5.0	6.5	7.5	8.7	6.7	6.8	5.1
G143.0	4.8	4.9	6.3	7.3	8.6	6.5	6.6	5.1
G144.0	4.8	4.9	6.3	7.1	8.5	6.3	6.6	5.1
G145.0	4.7	4.9	6.4	7.0	8.3	6.1	6.6	5.1
G146.0	4.7	4.8	6.2	6.8	8.2	6.0	6.6	5.1
G147.0	4.7	4.7	6.1	6.8	8.0	5.9	6.4	5.0
G148.0	4.6	4.7	6.0	6.7	7.7	5.9	6.3	4.9
G149.0	4.6	4.6	6.0	6.5	6.7	5.8	5.9	4.9
G150.0	4.6	4.6	6.1	6.3	6.4	5.6	5.6	4.8
G151.0	4.6	4.6	6.1	6.1	6.3	5.5	5.4	4.9
G152.0	4.6	4.5	5.9	6.0	6.6	5.4	5.1	5.0
G153.0	4.6	4.5	5.7	5.8	6.6	5.2	5.0	5.1
G154.0	4.5	4.4	5.4	5.6	6.5	5.1	4.8	5.1
G155.0	4.5	4.4	5.2	5.4	6.3	5.0	4.7	5.0
G156.0	4.4	4.6	5.0	5.2	6.1	4.8	4.6	4.8
G157.0	4.5	4.8	4.9	5.1	5.8	4.6	4.4	4.6
G158.0	4.6	4.8	4.7	5.0	5.6	4.5	4.3	4.4
G159.0	4.7	4.7	4.6	4.8	5.4	4.4	4.2	4.2

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	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G160.0	4.6	4.5	4.5	4.7	5.2	4.3	4.1	4.1
G161.0	4.5	4.3	4.3	4.6	5.0	4.2	4.0	3.9
G162.0	4.3	4.1	4.2	4.4	4.7	4.1	3.9	3.8
G163.0	4.2	4.0	4.1	4.3	4.6	4.0	3.8	3.8
G164.0	4.1	3.9	3.9	4.2	4.4	3.9	3.7	3.7
G165.0	3.9	3.8	3.8	4.0	4.2	3.8	3.6	3.6
G166.0	3.8	3.7	3.7	3.9	4.0	3.7	3.5	3.5
G167.0	3.7	3.5	3.6	3.8	3.9	3.5	3.4	3.5
G168.0	3.6	3.4	3.6	3.7	3.8	3.5	3.3	3.4
G169.0	3.5	3.3	3.5	3.6	3.6	3.4	3.2	3.3
G170.0	3.4	3.3	3.4	3.5	3.6	3.3	3.2	3.3
G171.0	3.4	3.2	3.4	3.5	3.5	3.2	3.2	3.2
G172.0	3.3	3.2	3.3	3.4	3.4	3.2	3.1	3.2
G173.0	3.3	3.1	3.2	3.4	3.4	3.1	3.1	3.2
G174.0	3.2	3.1	3.2	3.3	3.3	3.0	3.1	3.2
G175.0	3.2	3.1	3.2	3.3	3.2	3.0	3.1	3.1
G176.0	3.2	3.0	3.1	3.2	3.1	2.9	3.1	3.1
G177.0	3.1	3.1	3.2	3.3	3.1	3.0	3.1	3.1
G178.0	3.0	3.2	3.2	3.3	3.2	3.1	3.2	3.2
G179.0	3.1	3.1	3.3	3.2	3.4	3.0	3.3	3.2
G180.0	3.2	3.1	3.2	3.1	3.2	3.3	3.3	3.3