

### Goniophotometers System Test Report

#### Product Info

Luminaire Category : LED Bulkhead Light

Luminaire : 4000K White

Lamp Category : SMD

Lamp : F9091

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 : 229.81 V Current : 0.1223 A Power : 14.70 W Power Factor : 0.5230 Frequency : 50.00 Hz

#### Photometric Parameters

CIE Class : Direct

Measurement Flux : 1096.9 lm

Upward Ratio : 4.83 %

Maximum Intensity : 335.04 cd

Central Intensity : 334.19 cd

Luminaire Efficacy Rating (LER) : 75

Beam Angle (C0-C180,C90-C270) : 116.1 °, 118.2 °

Field Angle (C0-C180,C90-C270) : 169.3 °, 173.2 °

Total Rated Lamp Lumens : 1096.9 lm

Efficiency : 100.00 %

Downward Ratio : 95.17 %

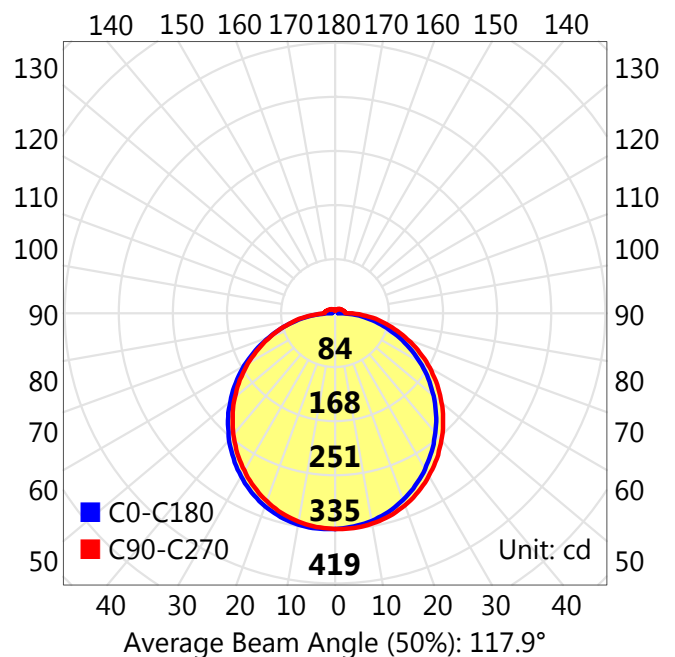
Position Of Maximum Intensity : C157.5° γ4°

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

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

Beam Angle (C45-C225,C135-C315) : 118.7 °, 118.4 °

Field Angle (C45-C225,C135-C315) : 171.7 °, 171.4 °



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

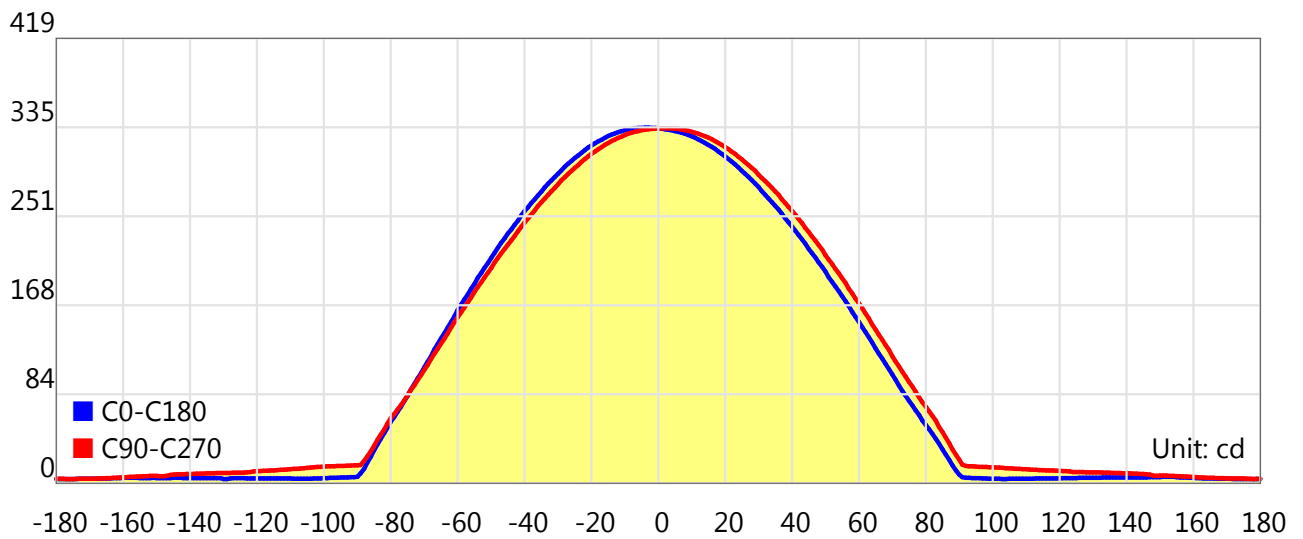
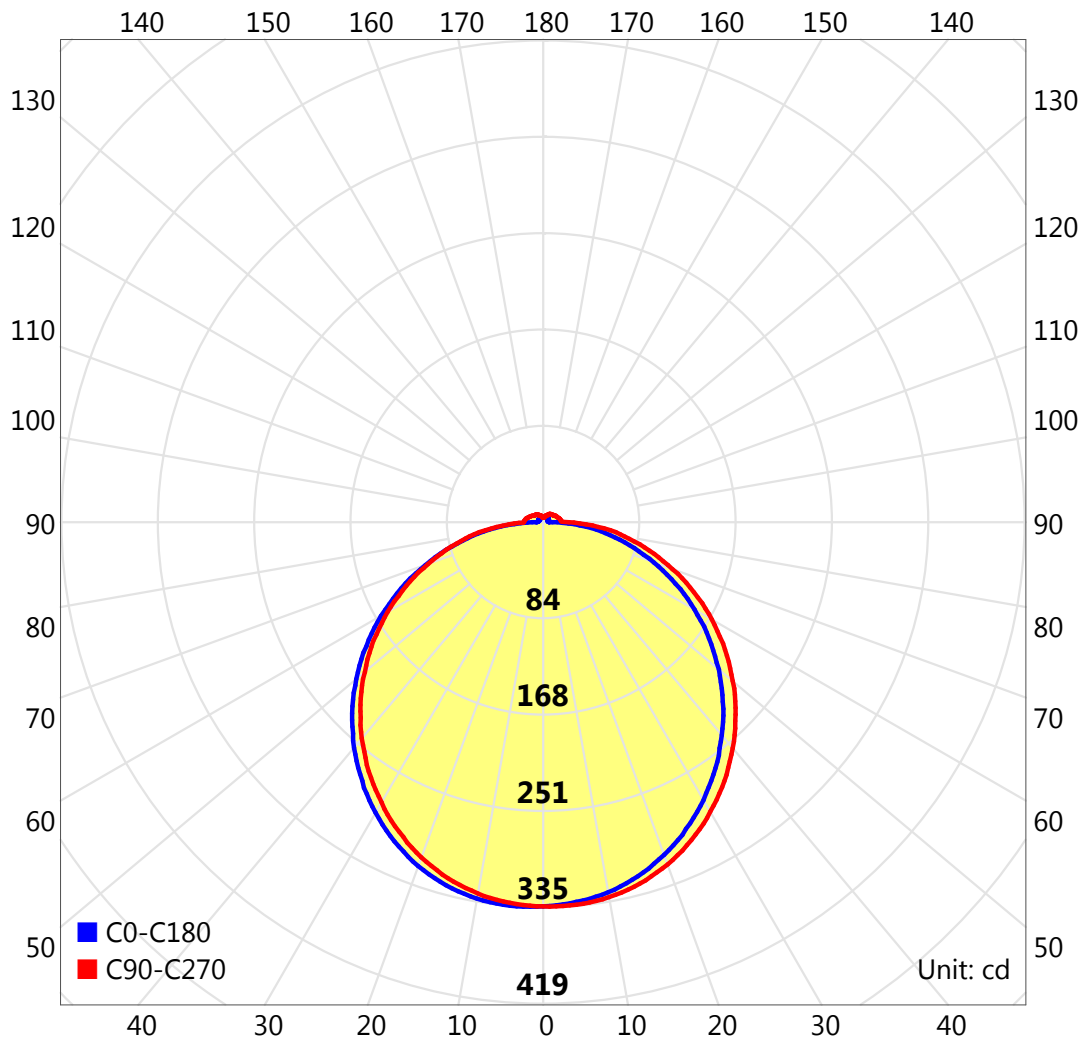
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

### Light Distribution Curve



C Plane : 0.0-360.0:22.5

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Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

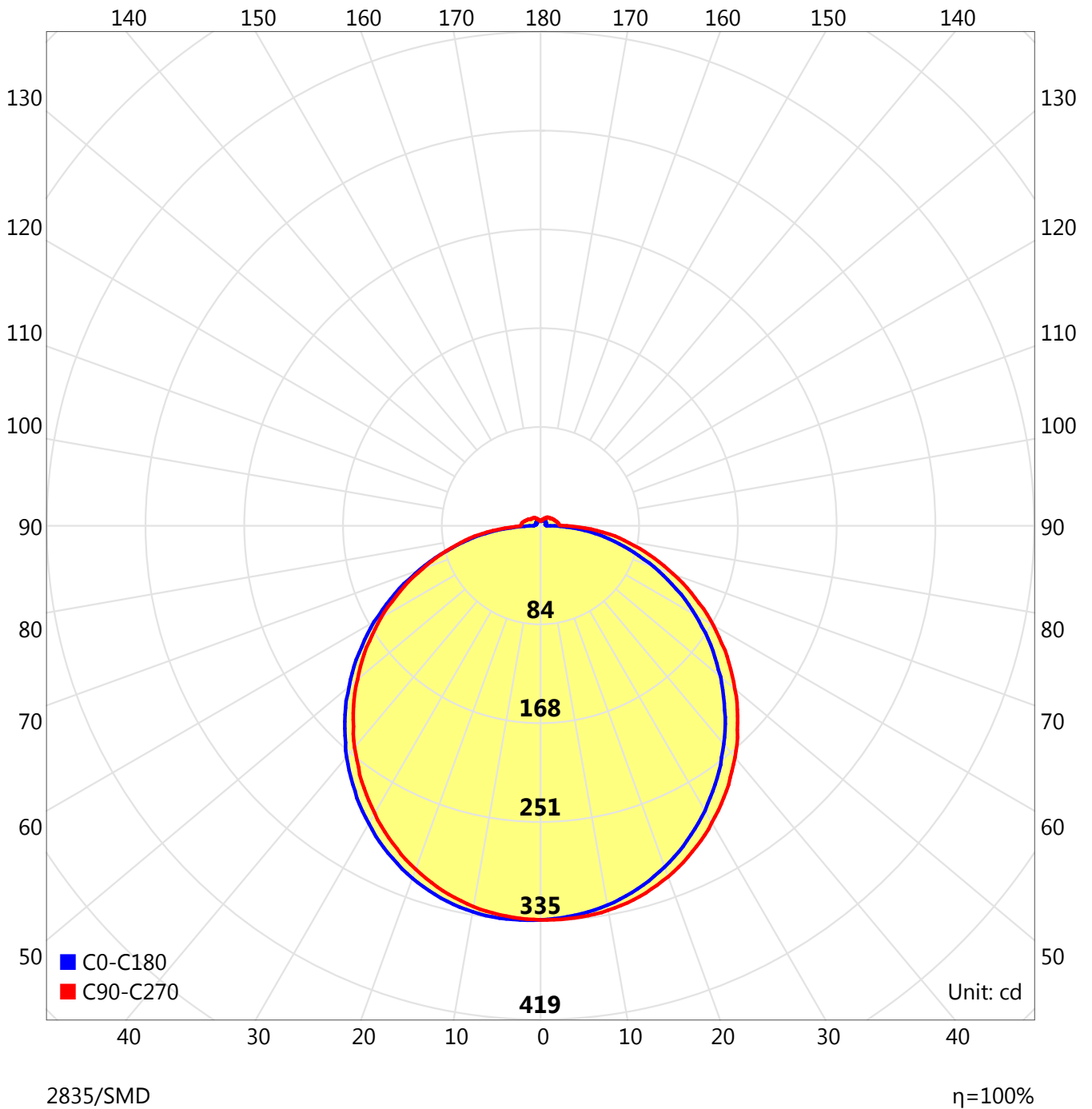
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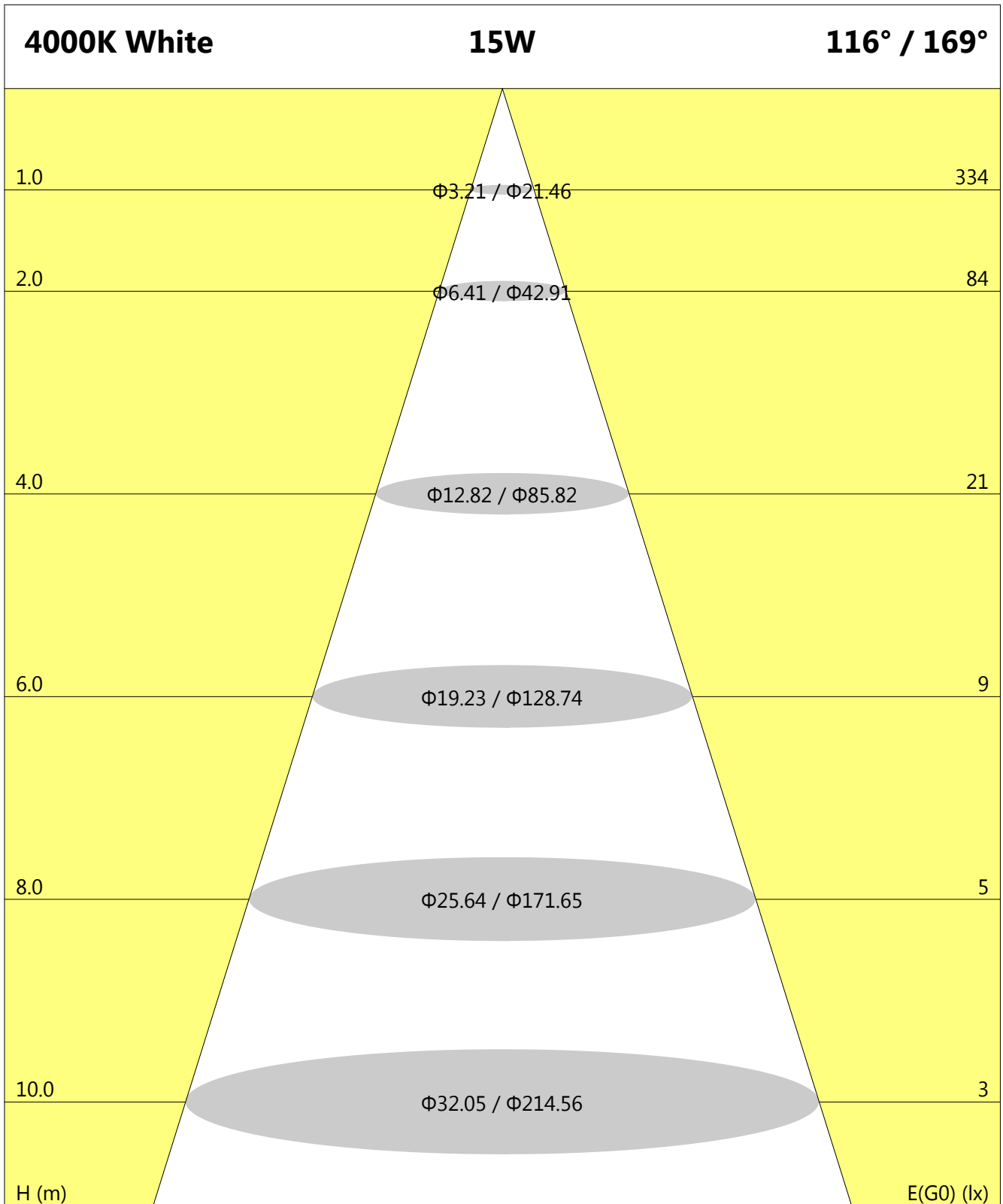
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Humidity : 65.0%

### 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

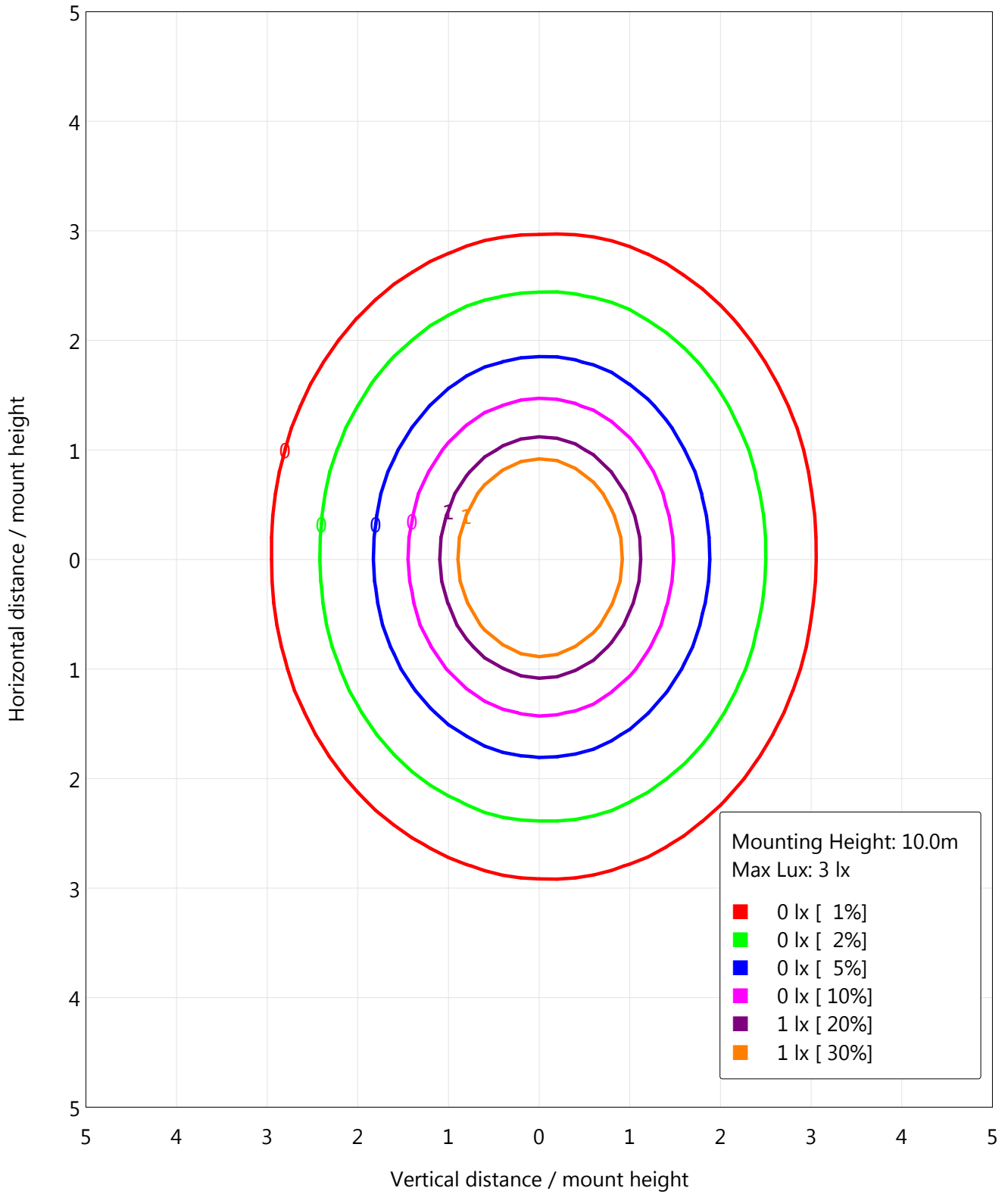
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Temperature : 25.0°C

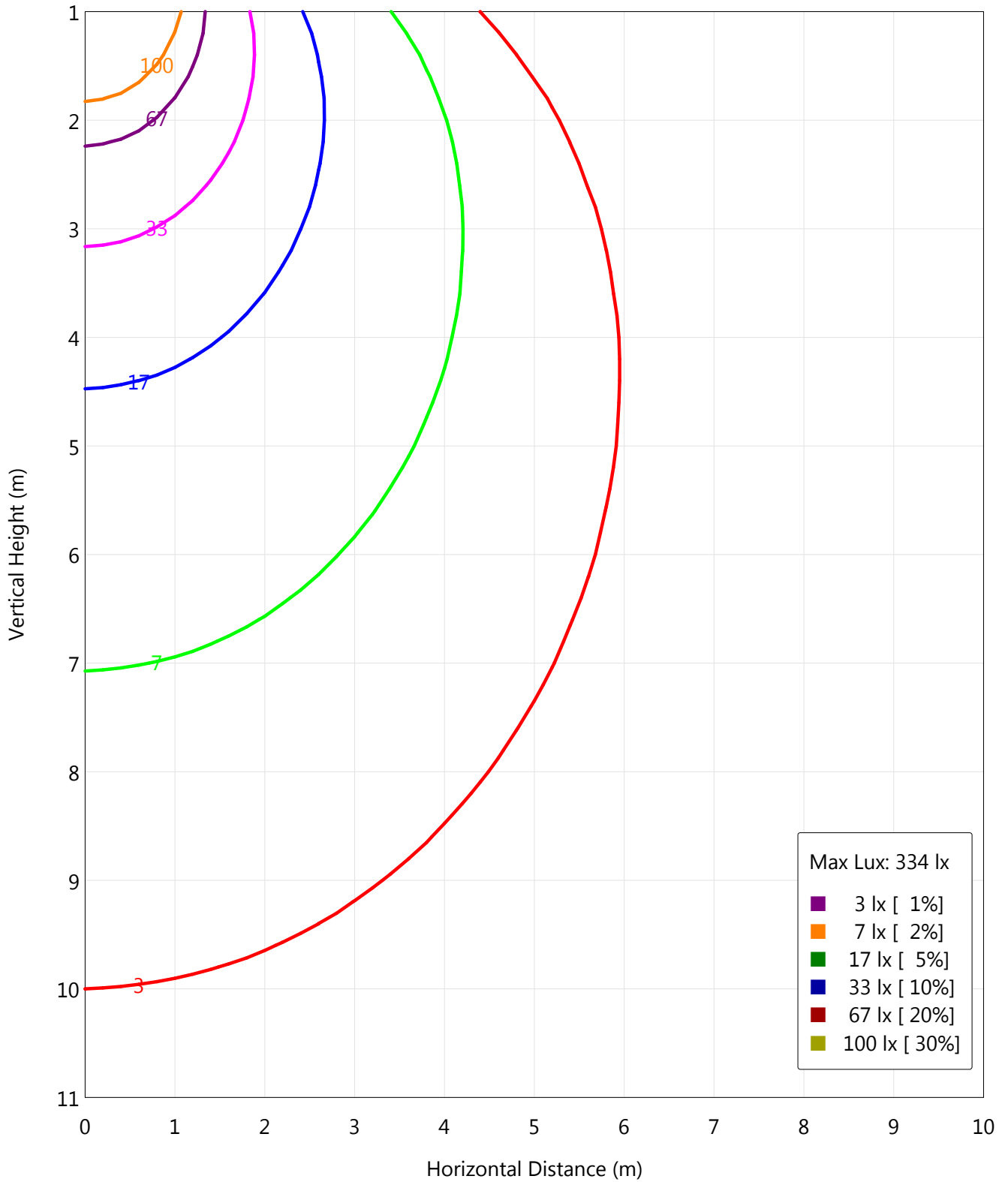
Humidity : 65.0%

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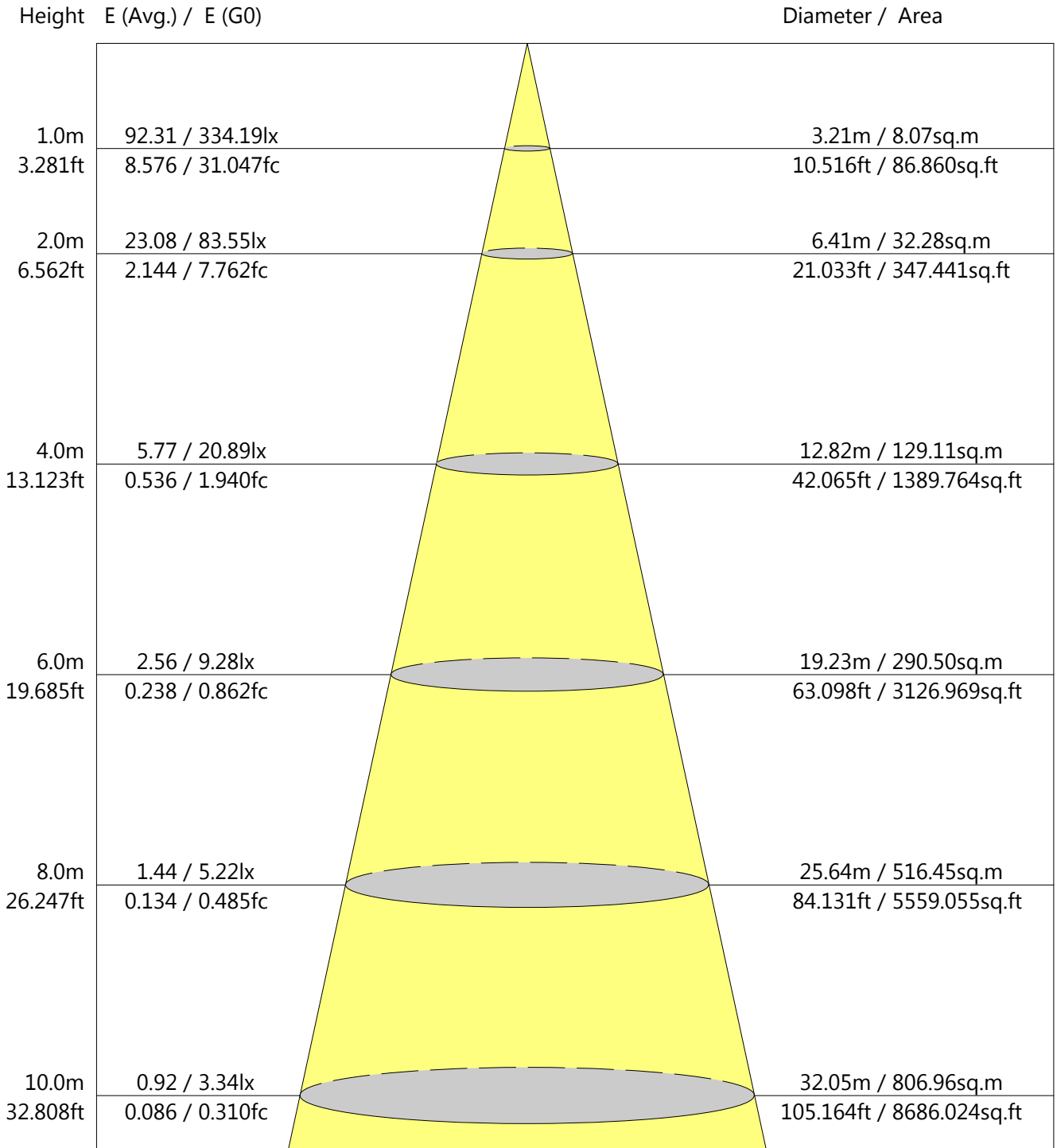
### IsoLux



### Vertical IsoLux Plot



### Average Illuminance Effective Figure

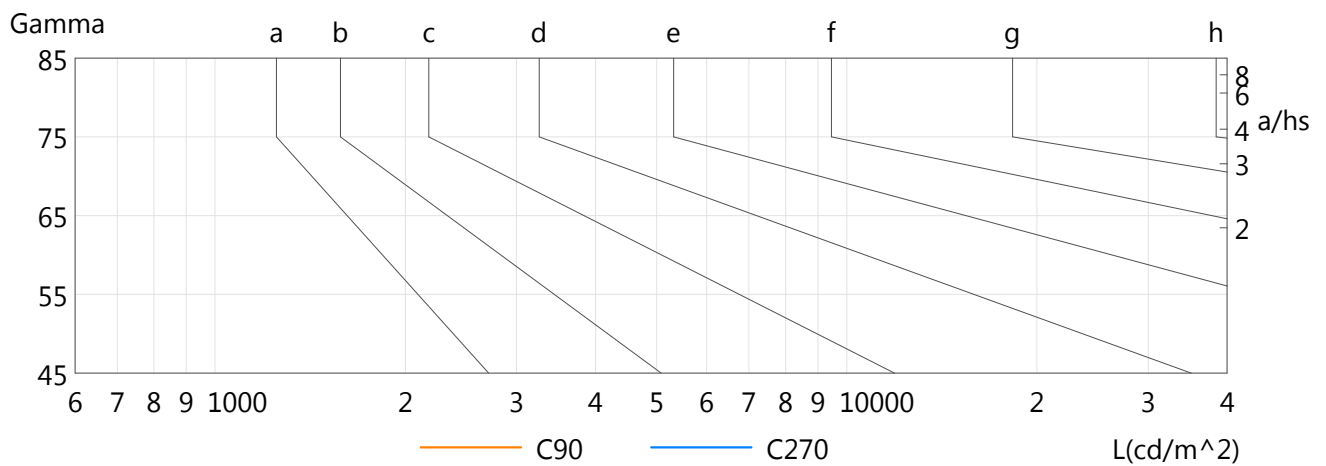
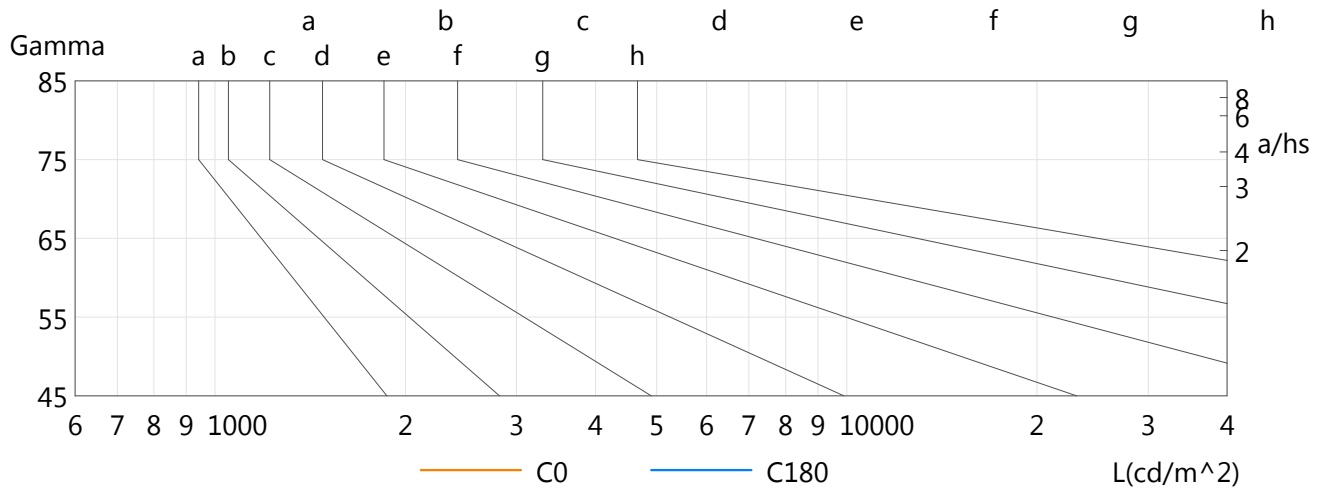


Beam Angle: 116.1° Flux Out: 744.89lm

### Lumen Limit Curve

L (cd/m <sup>2</sup> )	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	221	200	176	152	127	103	78	55	32
C90	237	215	193	169	145	120	96	72	48
C270	235	212	188	163	136	109	82	58	31
C90	225	203	180	156	132	107	83	61	36

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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Gamma : 0.0-180.0:1.0

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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	0.76	0.82	0.86	0.92	0.96
	0.20		0.39	0.49	0.57	0.62	0.71	0.77	0.82	0.88	0.92
0.50	0.50	0.20	0.51	0.61	0.67	0.72	0.79	0.84	0.87	0.92	0.95
	0.30		0.44	0.53	0.61	0.66	0.74	0.79	0.83	0.88	0.92
	0.20		0.38	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	0.64	0.69	0.76	0.80	0.83	0.87	0.90
	0.30		0.43	0.52	0.59	0.64	0.71	0.76	0.79	0.84	0.87
	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	0.55	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	0.25
	0.30		0.86	0.74	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	0.32	0.25	0.21
0.30	0.50	0.20	0.95	0.78	0.67	0.59	0.47	0.40	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

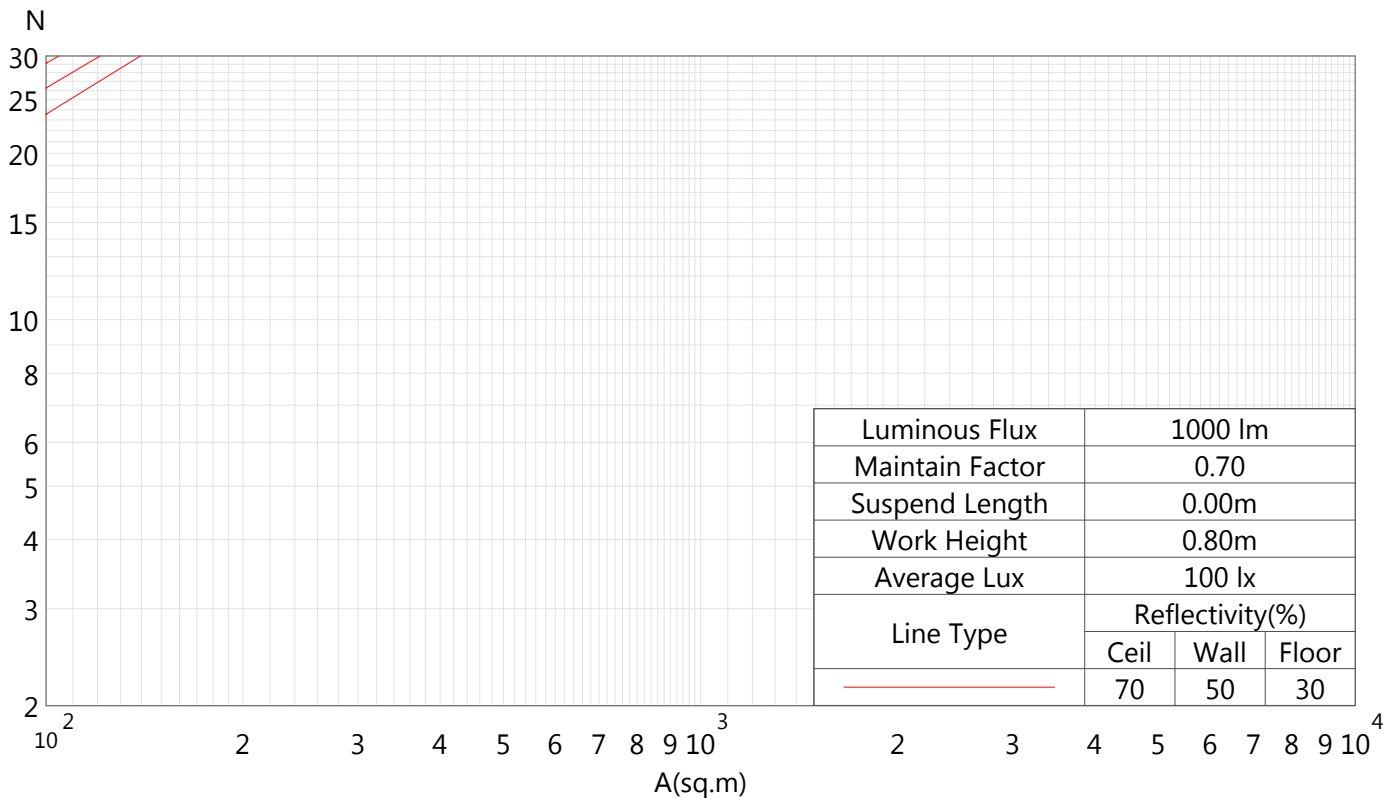
Utilisation Factors UF (C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.21	0.23	0.23	0.24	0.25	0.25	0.26	0.26	0.27
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24
	0.20		0.09	0.11	0.12	0.13	0.15	0.17	0.18	0.20	0.21
0.50	0.50	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.25
	0.30		0.14	0.15	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	0.16	0.18	0.19	0.20
0.30	0.50	0.20	0.20	0.21	0.22	0.22	0.23	0.24	0.24	0.24	0.24
	0.30		0.14	0.15	0.16	0.17	0.19	0.20	0.20	0.21	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	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	106	101	97	92	103	98	94	90	93	90	87	89	86	83	84	82	80	77
2	96	88	80	74	93	85	79	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	85	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	67	58	51	77	66	57	51	63	55	49	60	53	48	57	52	47	45
5	73	60	51	44	71	59	50	43	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	29
8	58	44	36	30	56	44	35	30	42	34	29	40	34	29	39	33	28	26
9	54	41	32	27	53	40	32	27	38	31	26	37	31	26	36	30	25	24
10	51	38	30	24	49	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	334.2	0.3	0.3	0.03	0.03
1.0-2.0	334.1	1.0	1.3	0.09	0.12
2.0-3.0	333.9	1.6	2.9	0.15	0.26
3.0-4.0	333.7	2.2	5.1	0.20	0.47
4.0-5.0	333.3	2.9	8.0	0.26	0.73
5.0-6.0	332.9	3.5	11.5	0.32	1.05
6.0-7.0	332.4	4.1	15.6	0.38	1.42
7.0-8.0	331.7	4.7	20.4	0.43	1.86
8.0-9.0	331.0	5.4	25.7	0.49	2.34
9.0-10.0	330.1	6.0	31.7	0.54	2.89
10.0-11.0	329.1	6.6	38.3	0.60	3.49
11.0-12.0	328.0	7.2	45.4	0.65	4.14
12.0-13.0	326.7	7.8	53.2	0.71	4.85
13.0-14.0	325.4	8.3	61.5	0.76	5.61
14.0-15.0	323.9	8.9	70.4	0.81	6.42
15.0-16.0	322.3	9.4	79.9	0.86	7.28
16.0-17.0	320.6	10.0	89.8	0.91	8.19
17.0-18.0	318.7	10.5	100.4	0.96	9.15
18.0-19.0	316.8	11.0	111.4	1.00	10.15
19.0-20.0	314.8	11.5	122.9	1.05	11.20
20.0-21.0	312.6	12.0	134.9	1.09	12.30
21.0-22.0	310.3	12.5	147.4	1.14	13.44
22.0-23.0	307.9	12.9	160.3	1.18	14.61
23.0-24.0	305.4	13.4	173.6	1.22	15.83
24.0-25.0	302.8	13.8	187.4	1.26	17.09
25.0-26.0	300.1	14.2	201.6	1.29	18.38
26.0-27.0	297.4	14.5	216.1	1.33	19.70
27.0-28.0	294.4	14.9	231.0	1.36	21.06
28.0-29.0	291.5	15.3	246.3	1.39	22.45
29.0-30.0	288.4	15.6	261.9	1.42	23.87
30.0-31.0	285.2	15.9	277.7	1.45	25.32
31.0-32.0	282.0	16.2	293.9	1.47	26.79
32.0-33.0	278.7	16.4	310.3	1.50	28.29
33.0-34.0	275.2	16.7	327.0	1.52	29.81
34.0-35.0	271.7	16.9	343.9	1.54	31.35
35.0-36.0	268.3	17.1	360.9	1.56	32.91
36.0-37.0	264.6	17.3	378.2	1.57	34.48
37.0-38.0	260.9	17.4	395.6	1.59	36.07
38.0-39.0	257.2	17.6	413.2	1.60	37.67
39.0-40.0	253.3	17.7	430.8	1.61	39.28

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	249.4	17.8	448.6	1.62	40.90
41.0-42.0	245.4	17.8	466.4	1.63	42.52
42.0-43.0	241.4	17.9	484.3	1.63	44.15
43.0-44.0	237.3	17.9	502.2	1.63	45.79
44.0-45.0	233.2	17.9	520.2	1.63	47.42
45.0-46.0	229.0	17.9	538.1	1.63	49.05
46.0-47.0	224.6	17.9	555.9	1.63	50.68
47.0-48.0	220.3	17.8	573.7	1.62	52.30
48.0-49.0	216.0	17.7	591.5	1.62	53.92
49.0-50.0	211.5	17.6	609.1	1.61	55.53
50.0-51.0	207.0	17.5	626.6	1.60	57.13
51.0-52.0	202.6	17.4	644.0	1.58	58.71
52.0-53.0	198.0	17.2	661.3	1.57	60.28
53.0-54.0	193.4	17.0	678.3	1.55	61.84
54.0-55.0	188.7	16.8	695.1	1.54	63.37
55.0-56.0	184.0	16.6	711.8	1.52	64.89
56.0-57.0	179.2	16.4	728.2	1.49	66.38
57.0-58.0	174.4	16.1	744.3	1.47	67.85
58.0-59.0	169.6	15.9	760.1	1.45	69.30
59.0-60.0	164.7	15.6	775.7	1.42	70.72
60.0-61.0	159.8	15.2	791.0	1.39	72.11
61.0-62.0	154.8	14.9	805.9	1.36	73.47
62.0-63.0	149.9	14.6	820.5	1.33	74.80
63.0-64.0	144.9	14.2	834.7	1.30	76.09
64.0-65.0	139.9	13.8	848.5	1.26	77.35
65.0-66.0	134.8	13.5	862.0	1.23	78.58
66.0-67.0	129.7	13.0	875.0	1.19	79.77
67.0-68.0	124.6	12.6	887.6	1.15	80.92
68.0-69.0	119.4	12.2	899.8	1.11	82.03
69.0-70.0	114.4	11.7	911.6	1.07	83.10
70.0-71.0	109.3	11.3	922.9	1.03	84.13
71.0-72.0	104.2	10.8	933.7	0.99	85.12
72.0-73.0	99.1	10.4	944.1	0.95	86.07
73.0-74.0	94.1	9.9	954.0	0.90	86.97
74.0-75.0	89.1	9.4	963.4	0.86	87.83
75.0-76.0	84.1	8.9	972.3	0.81	88.64
76.0-77.0	79.2	8.4	980.8	0.77	89.41
77.0-78.0	74.4	8.0	988.7	0.73	90.14
78.0-79.0	69.6	7.5	996.2	0.68	90.82
79.0-80.0	64.8	7.0	1003.2	0.64	91.45

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80.0-81.0	60.1	6.5	1009.7	0.59	92.05
81.0-82.0	55.3	6.0	1015.7	0.55	92.59
82.0-83.0	50.4	5.5	1021.2	0.50	93.09
83.0-84.0	45.4	4.9	1026.1	0.45	93.54
84.0-85.0	40.1	4.4	1030.5	0.40	93.94
85.0-86.0	34.7	3.8	1034.3	0.35	94.29
86.0-87.0	29.3	3.2	1037.5	0.29	94.58
87.0-88.0	24.0	2.6	1040.1	0.24	94.82
88.0-89.0	19.2	2.1	1042.2	0.19	95.01
89.0-90.0	15.5	1.7	1043.9	0.15	95.17
90.0-91.0	13.0	1.4	1045.3	0.13	95.30
91.0-92.0	11.7	1.3	1046.6	0.12	95.42
92.0-93.0	11.4	1.2	1047.9	0.11	95.53
93.0-94.0	11.3	1.2	1049.1	0.11	95.64
94.0-95.0	11.1	1.2	1050.3	0.11	95.75
95.0-96.0	11.0	1.2	1051.5	0.11	95.86
96.0-97.0	10.8	1.2	1052.7	0.11	95.97
97.0-98.0	10.6	1.2	1053.9	0.11	96.07
98.0-99.0	10.5	1.1	1055.0	0.10	96.18
99.0-100.0	10.3	1.1	1056.1	0.10	96.28
100.0-101.0	10.1	1.1	1057.2	0.10	96.38
101.0-102.0	10.0	1.1	1058.3	0.10	96.48
102.0-103.0	9.8	1.0	1059.3	0.10	96.57
103.0-104.0	9.6	1.0	1060.4	0.09	96.67
104.0-105.0	9.5	1.0	1061.4	0.09	96.76
105.0-106.0	9.4	1.0	1062.4	0.09	96.85
106.0-107.0	9.3	1.0	1063.3	0.09	96.94
107.0-108.0	9.2	1.0	1064.3	0.09	97.03
108.0-109.0	9.1	0.9	1065.2	0.09	97.11
109.0-110.0	9.0	0.9	1066.2	0.09	97.20
110.0-111.0	9.0	0.9	1067.1	0.08	97.28
111.0-112.0	8.9	0.9	1068.0	0.08	97.36
112.0-113.0	8.9	0.9	1068.9	0.08	97.45
113.0-114.0	8.8	0.9	1069.8	0.08	97.53
114.0-115.0	8.8	0.9	1070.7	0.08	97.61
115.0-116.0	8.7	0.9	1071.5	0.08	97.69
116.0-117.0	8.7	0.9	1072.4	0.08	97.76
117.0-118.0	8.7	0.8	1073.2	0.08	97.84
118.0-119.0	8.6	0.8	1074.1	0.08	97.92
119.0-120.0	8.6	0.8	1074.9	0.07	97.99

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	8.6	0.8	1075.7	0.07	98.06
121.0-122.0	8.5	0.8	1076.5	0.07	98.14
122.0-123.0	8.5	0.8	1077.3	0.07	98.21
123.0-124.0	8.4	0.8	1078.0	0.07	98.28
124.0-125.0	8.4	0.8	1078.8	0.07	98.35
125.0-126.0	8.3	0.7	1079.5	0.07	98.42
126.0-127.0	8.3	0.7	1080.3	0.07	98.48
127.0-128.0	8.2	0.7	1081.0	0.07	98.55
128.0-129.0	8.2	0.7	1081.7	0.06	98.61
129.0-130.0	8.1	0.7	1082.4	0.06	98.67
130.0-131.0	8.0	0.7	1083.0	0.06	98.73
131.0-132.0	8.0	0.7	1083.7	0.06	98.79
132.0-133.0	7.8	0.6	1084.3	0.06	98.85
133.0-134.0	7.7	0.6	1084.9	0.06	98.91
134.0-135.0	7.6	0.6	1085.5	0.05	98.96
135.0-136.0	7.5	0.6	1086.1	0.05	99.01
136.0-137.0	7.4	0.6	1086.7	0.05	99.07
137.0-138.0	7.4	0.5	1087.2	0.05	99.12
138.0-139.0	7.2	0.5	1087.7	0.05	99.16
139.0-140.0	7.1	0.5	1088.2	0.05	99.21
140.0-141.0	7.0	0.5	1088.7	0.04	99.25
141.0-142.0	6.9	0.5	1089.2	0.04	99.30
142.0-143.0	6.9	0.5	1089.7	0.04	99.34
143.0-144.0	6.8	0.4	1090.1	0.04	99.38
144.0-145.0	6.7	0.4	1090.5	0.04	99.42
145.0-146.0	6.6	0.4	1091.0	0.04	99.46
146.0-147.0	6.5	0.4	1091.3	0.04	99.49
147.0-148.0	6.4	0.4	1091.7	0.03	99.53
148.0-149.0	6.3	0.4	1092.1	0.03	99.56
149.0-150.0	6.2	0.3	1092.4	0.03	99.59
150.0-151.0	6.2	0.3	1092.8	0.03	99.62
151.0-152.0	6.2	0.3	1093.1	0.03	99.65
152.0-153.0	6.1	0.3	1093.4	0.03	99.68
153.0-154.0	6.0	0.3	1093.7	0.03	99.71
154.0-155.0	5.9	0.3	1094.0	0.03	99.73
155.0-156.0	5.8	0.3	1094.2	0.02	99.75
156.0-157.0	5.7	0.2	1094.5	0.02	99.78
157.0-158.0	5.6	0.2	1094.7	0.02	99.80
158.0-159.0	5.5	0.2	1094.9	0.02	99.82
159.0-160.0	5.4	0.2	1095.1	0.02	99.84

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	5.2	0.2	1095.3	0.02	99.85
161.0-162.0	5.1	0.2	1095.5	0.02	99.87
162.0-163.0	5.0	0.2	1095.7	0.02	99.89
163.0-164.0	4.9	0.2	1095.8	0.01	99.90
164.0-165.0	4.8	0.1	1096.0	0.01	99.91
165.0-166.0	4.7	0.1	1096.1	0.01	99.92
166.0-167.0	4.6	0.1	1096.2	0.01	99.94
167.0-168.0	4.6	0.1	1096.3	0.01	99.95
168.0-169.0	4.5	0.1	1096.4	0.01	99.95
169.0-170.0	4.4	0.1	1096.5	0.01	99.96
170.0-171.0	4.4	0.1	1096.6	0.01	99.97
171.0-172.0	4.4	0.1	1096.7	0.01	99.98
172.0-173.0	4.3	0.1	1096.7	0.01	99.98
173.0-174.0	4.3	0.1	1096.8	0.00	99.99
174.0-175.0	4.2	0.0	1096.8	0.00	99.99
175.0-176.0	4.2	0.0	1096.9	0.00	99.99
176.0-177.0	4.2	0.0	1096.9	0.00	100.00
177.0-178.0	4.2	0.0	1096.9	0.00	100.00
178.0-179.0	4.2	0.0	1096.9	0.00	100.00
179.0-180.0	4.2	0.0	1096.9	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	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2
G1.0	333.9	333.9	334.1	334.1	334.3	334.4	334.5	334.5
G2.0	333.4	333.5	333.8	334.1	334.4	334.5	334.7	334.8
G3.0	332.9	333.1	333.5	333.8	334.3	334.6	334.9	335.0
G4.0	332.3	332.6	333.1	333.5	334.1	334.5	335.0	335.0
G5.0	331.6	332.0	332.5	333.2	333.9	334.4	334.9	335.0
G6.0	330.9	331.3	331.9	332.7	333.6	334.2	334.8	335.0
G7.0	330.0	330.6	331.3	332.1	333.1	333.9	334.6	334.7
G8.0	329.0	329.5	330.5	331.4	332.6	333.5	334.3	334.4
G9.0	328.0	328.6	329.7	330.7	332.0	333.0	333.9	334.0
G10.0	326.7	327.4	328.7	329.8	331.1	332.4	333.2	333.4
G11.0	325.5	326.3	327.5	328.9	330.2	331.7	332.6	332.7
G12.0	323.8	324.9	326.3	327.8	329.2	330.8	331.8	331.9
G13.0	322.2	323.5	324.9	326.6	328.0	329.6	330.9	330.8
G14.0	320.5	322.0	323.5	325.0	326.8	328.5	329.9	329.7
G15.0	318.8	320.0	322.1	323.5	325.5	327.3	328.7	328.5
G16.0	316.9	318.2	320.4	322.0	324.0	326.0	327.2	327.3
G17.0	314.9	316.4	318.7	320.3	322.1	324.5	325.8	325.8
G18.0	312.4	314.4	316.5	318.6	320.4	322.9	324.3	324.3
G19.0	310.2	312.3	314.5	316.7	318.5	321.3	322.6	322.6
G20.0	307.9	310.1	312.5	314.7	316.6	319.1	320.9	320.5
G21.0	305.5	307.4	310.3	312.3	314.6	317.2	319.0	318.6
G22.0	302.9	305.0	308.0	310.1	312.4	315.2	317.0	316.6
G23.0	300.3	302.4	305.7	307.7	310.2	313.0	314.6	314.4
G24.0	297.6	299.9	302.7	305.3	307.4	310.8	312.3	312.2
G25.0	294.3	297.2	300.2	302.9	304.9	308.5	310.0	309.9
G26.0	291.4	294.5	297.5	300.3	302.4	306.1	307.6	306.9
G27.0	288.4	291.6	294.8	297.7	299.7	303.0	305.2	304.3
G28.0	285.4	288.1	292.0	294.4	297.0	300.4	302.5	301.6
G29.0	282.3	285.1	289.0	291.5	294.2	297.7	299.8	298.8
G30.0	279.1	282.0	286.0	288.6	290.7	294.9	296.5	296.0
G31.0	275.1	278.8	282.4	285.6	287.7	292.0	293.6	293.1
G32.0	271.8	275.6	279.2	282.5	284.6	289.0	290.6	290.0
G33.0	268.3	272.3	276.0	279.3	281.5	285.3	287.5	286.2
G34.0	264.8	268.2	272.7	275.4	278.2	282.1	284.3	283.0
G35.0	261.3	264.8	269.3	272.1	274.9	278.9	281.1	279.7
G36.0	257.6	261.2	265.9	268.7	271.5	275.6	277.8	276.3
G37.0	254.0	257.6	262.4	265.3	267.4	272.2	273.7	272.8
G38.0	249.4	253.9	258.1	261.7	263.9	268.7	270.2	269.2
G39.0	245.6	250.2	254.5	258.1	260.2	265.2	266.6	265.6

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	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G40.0	241.8	246.5	250.8	254.5	256.6	260.8	263.0	261.1
G41.0	237.9	241.9	247.1	250.0	252.9	257.1	259.3	257.4
G42.0	233.9	238.0	243.3	246.3	249.1	253.4	255.5	253.5
G43.0	229.8	234.1	239.4	242.4	245.2	249.5	250.8	249.5
G44.0	225.8	230.0	235.5	238.5	240.5	245.7	246.9	245.5
G45.0	220.8	226.0	230.8	234.6	236.6	241.7	242.9	241.4
G46.0	216.7	222.0	226.8	230.6	232.6	237.8	238.9	236.5
G47.0	212.4	217.8	222.7	225.8	228.5	232.9	234.7	232.3
G48.0	208.2	212.8	218.6	221.6	224.3	228.7	230.5	228.0
G49.0	203.8	208.5	214.4	217.5	220.2	224.6	226.3	223.6
G50.0	199.5	204.3	209.4	213.3	215.1	220.4	221.2	219.3
G51.0	194.2	200.0	205.1	209.1	210.9	216.1	216.8	214.8
G52.0	189.8	195.6	200.8	204.8	206.5	211.8	212.4	210.3
G53.0	185.3	191.2	196.5	200.4	202.1	207.4	207.9	204.8
G54.0	180.8	186.7	192.1	195.2	197.7	202.1	203.4	200.1
G55.0	176.3	181.4	187.7	190.8	193.3	197.6	198.8	195.5
G56.0	171.7	176.9	183.2	186.3	188.8	193.1	193.3	190.7
G57.0	167.0	172.3	178.8	181.9	183.3	188.5	188.6	185.9
G58.0	161.5	167.7	173.3	177.3	178.7	183.9	183.9	181.0
G59.0	156.8	163.1	168.7	172.8	174.1	179.3	179.1	176.1
G60.0	152.1	158.5	164.2	168.2	169.5	173.7	174.3	170.3
G61.0	147.3	152.8	159.5	162.7	164.8	169.0	169.5	165.3
G62.0	142.5	148.1	154.8	158.0	160.1	164.2	164.6	160.2
G63.0	137.7	143.3	150.1	153.3	155.3	159.4	159.6	155.1
G64.0	132.8	138.5	144.4	148.6	149.6	154.6	153.7	150.0
G65.0	127.1	133.8	139.7	143.8	144.8	149.7	148.7	144.9
G66.0	122.2	128.9	135.0	139.1	140.0	144.9	143.7	139.8
G67.0	117.3	124.1	130.1	134.3	135.2	138.9	138.6	133.5
G68.0	112.4	118.3	125.3	128.6	130.3	134.0	133.5	128.2
G69.0	107.5	113.4	120.5	123.8	125.5	129.1	128.3	123.1
G70.0	102.7	108.6	115.7	119.0	119.7	124.1	122.2	117.9
G71.0	97.9	103.7	109.9	114.2	114.8	119.2	117.0	112.6
G72.0	92.0	98.9	105.0	109.4	110.0	114.2	111.9	107.3
G73.0	87.2	94.0	100.2	104.6	105.2	109.2	106.7	101.1
G74.0	82.5	88.3	95.4	99.0	100.5	103.3	101.6	95.9
G75.0	77.9	83.5	90.6	94.3	95.8	98.4	96.5	90.7
G76.0	73.2	78.8	85.8	89.6	91.1	93.5	90.5	85.6
G77.0	68.7	74.2	81.1	84.9	86.4	88.6	85.4	80.5
G78.0	64.3	69.5	75.5	80.3	81.0	83.8	80.3	75.4
G79.0	59.1	65.0	70.8	75.8	76.5	79.0	75.4	70.4

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
G80.0	54.9	60.5	66.3	71.3	72.2	73.3	70.5	64.6
G81.0	51.0	55.3	61.7	65.9	67.9	68.6	65.6	59.7
G82.0	46.8	51.0	57.1	61.5	63.8	63.9	60.6	55.1
G83.0	42.1	46.6	52.4	56.8	59.1	59.0	54.7	50.0
G84.0	37.5	41.8	47.7	51.8	53.2	53.9	49.6	44.7
G85.0	32.0	37.0	41.8	46.8	48.3	48.6	44.2	39.4
G86.0	27.3	32.1	36.8	41.7	43.2	43.2	38.8	33.9
G87.0	22.0	27.2	31.7	36.6	37.8	36.5	33.1	26.8
G88.0	16.9	21.0	26.8	30.1	32.1	30.7	27.5	21.3
G89.0	12.3	16.2	21.9	25.1	27.0	25.5	22.3	16.3
G90.0	8.2	11.9	17.5	20.6	22.4	20.9	16.9	12.0
G91.0	5.8	8.6	12.7	16.6	17.7	16.8	12.8	8.3
G92.0	5.4	8.2	12.3	15.3	16.3	15.3	12.2	7.9
G93.0	5.1	7.9	12.1	15.1	16.2	15.2	12.1	7.7
G94.0	5.0	7.8	11.9	14.9	16.0	14.9	11.9	7.6
G95.0	4.9	7.6	11.8	14.8	15.8	14.8	11.7	7.5
G96.0	4.8	7.5	11.6	14.6	15.7	14.7	11.4	7.4
G97.0	4.7	7.4	11.4	14.5	15.5	14.5	11.2	7.3
G98.0	4.6	7.3	11.1	14.3	15.4	14.4	11.0	7.2
G99.0	4.5	7.2	10.9	14.1	15.3	14.3	10.7	7.0
G100.0	4.4	7.0	10.6	13.9	15.2	14.1	10.4	7.0
G101.0	4.3	6.9	10.3	13.7	15.0	13.9	10.1	7.0
G102.0	4.2	6.9	10.1	13.5	14.9	13.7	9.9	7.0
G103.0	4.2	6.9	9.9	13.3	14.7	13.5	9.7	7.0
G104.0	4.2	7.0	9.6	13.0	14.4	13.2	9.5	7.0
G105.0	4.2	7.0	9.5	12.8	14.2	13.0	9.3	7.0
G106.0	4.3	7.0	9.4	12.6	13.9	12.8	9.2	7.0
G107.0	4.4	7.1	9.3	12.5	13.8	12.6	9.1	7.0
G108.0	4.4	7.1	9.2	12.3	13.6	12.4	9.0	7.0
G109.0	4.5	7.2	9.1	12.1	13.5	12.3	9.0	7.0
G110.0	4.5	7.3	9.2	12.0	13.3	12.1	9.0	7.0
G111.0	4.5	7.3	9.2	11.9	13.1	12.0	9.0	7.0
G112.0	4.5	7.3	9.2	11.7	12.9	11.8	9.0	7.0
G113.0	4.6	7.4	9.2	11.6	12.7	11.6	9.0	7.0
G114.0	4.6	7.4	9.2	11.5	12.6	11.6	9.0	7.0
G115.0	4.6	7.5	9.2	11.5	12.4	11.5	9.0	7.0
G116.0	4.7	7.5	9.2	11.4	12.3	11.5	9.0	7.0
G117.0	4.7	7.5	9.2	11.3	12.2	11.5	9.0	7.0
G118.0	4.7	7.5	9.3	11.2	12.1	11.4	9.0	6.9
G119.0	4.7	7.5	9.3	11.1	12.0	11.3	9.0	6.9

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
G120.0	4.8	7.5	9.3	11.1	11.8	11.2	9.0	6.8
G121.0	4.8	7.5	9.4	11.1	11.7	11.2	9.1	6.8
G122.0	4.9	7.5	9.4	11.1	11.6	11.1	9.2	6.7
G123.0	4.9	7.5	9.5	11.0	11.3	11.0	9.2	6.7
G124.0	5.0	7.5	9.5	11.0	10.7	10.9	9.2	6.7
G125.0	5.0	7.5	9.5	11.0	10.7	10.8	9.1	6.7
G126.0	5.1	7.4	9.5	10.9	10.6	10.7	9.1	6.7
G127.0	5.2	7.4	9.4	10.6	10.6	10.7	9.1	6.6
G128.0	5.2	7.4	9.4	10.4	10.5	10.6	9.0	6.6
G129.0	5.3	7.4	9.3	10.1	10.5	10.5	8.9	6.5
G130.0	5.3	7.3	9.2	9.8	10.4	10.4	8.8	6.5
G131.0	5.4	7.3	9.2	9.5	10.3	10.2	8.8	6.4
G132.0	5.4	7.3	9.1	9.3	10.2	10.0	8.7	6.1
G133.0	5.5	7.2	9.0	9.0	10.2	9.8	8.6	5.7
G134.0	5.5	7.2	8.9	8.8	10.1	9.8	8.5	4.8
G135.0	5.5	7.1	8.9	8.5	10.0	9.6	8.4	4.0
G136.0	5.5	7.0	8.8	8.3	9.9	9.5	8.4	5.1
G137.0	5.5	7.0	8.7	8.1	9.8	9.3	8.3	5.5
G138.0	5.5	6.9	8.6	7.8	9.7	9.0	8.1	5.5
G139.0	5.5	6.8	8.5	7.6	9.6	8.7	8.0	5.4
G140.0	5.6	6.8	8.4	7.4	9.5	8.4	7.9	5.4
G141.0	5.6	6.7	8.3	7.3	9.3	8.2	7.7	5.3
G142.0	5.6	6.6	8.3	7.2	9.2	7.9	7.6	5.3
G143.0	5.6	6.5	8.2	7.2	9.1	7.6	7.4	5.2
G144.0	5.6	6.5	8.2	7.1	8.9	7.4	7.3	5.2
G145.0	5.7	6.4	8.0	7.0	8.8	7.4	7.2	5.3
G146.0	5.7	6.3	7.8	6.9	8.7	7.2	7.0	5.5
G147.0	5.8	6.2	7.6	6.9	8.2	7.1	6.9	5.5
G148.0	5.8	6.3	7.4	6.7	7.4	7.0	6.6	5.6
G149.0	5.9	6.4	7.2	6.6	7.2	7.0	6.4	5.6
G150.0	5.9	6.4	6.9	6.5	7.3	7.0	6.3	5.5
G151.0	6.0	6.5	6.6	6.5	7.5	6.9	6.5	5.4
G152.0	6.1	6.5	6.4	6.4	7.3	6.8	6.5	5.4
G153.0	6.1	6.3	6.3	6.3	7.2	6.6	6.5	5.3
G154.0	6.0	6.1	6.1	6.2	7.0	6.4	6.3	5.3
G155.0	5.9	6.0	5.9	6.1	6.8	6.2	6.2	5.4
G156.0	5.7	5.9	5.8	6.0	6.6	6.0	6.0	5.6
G157.0	5.6	5.7	5.7	6.0	6.5	5.9	5.9	5.8
G158.0	5.5	5.6	5.6	5.9	6.4	5.7	5.8	5.7
G159.0	5.3	5.5	5.5	5.9	6.2	5.6	5.7	5.6

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

**Light Distribution Data**

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G160.0	5.2	5.4	5.4	5.8	6.0	5.5	5.6	5.4
G161.0	5.0	5.2	5.3	5.7	5.9	5.4	5.5	5.3
G162.0	4.9	5.1	5.1	5.6	5.7	5.3	5.4	5.2
G163.0	4.8	5.0	5.0	5.5	5.6	5.2	5.2	5.1
G164.0	4.6	4.9	5.0	5.4	5.4	5.1	5.1	5.0
G165.0	4.6	4.8	4.9	5.3	5.3	5.0	5.0	4.9
G166.0	4.6	4.7	4.8	5.2	5.1	4.9	4.9	4.8
G167.0	4.5	4.7	4.7	5.1	5.0	4.8	4.8	4.6
G168.0	4.5	4.6	4.6	5.0	4.9	4.8	4.7	4.6
G169.0	4.4	4.6	4.6	4.9	4.8	4.7	4.7	4.5
G170.0	4.3	4.5	4.5	4.8	4.7	4.7	4.6	4.4
G171.0	4.2	4.4	4.5	4.7	4.7	4.6	4.6	4.4
G172.0	4.2	4.4	4.5	4.7	4.6	4.6	4.5	4.3
G173.0	4.1	4.3	4.5	4.6	4.6	4.6	4.4	4.2
G174.0	4.1	4.3	4.5	4.6	4.6	4.6	4.3	4.2
G175.0	4.1	4.2	4.4	4.6	4.6	4.6	4.2	4.1
G176.0	4.1	4.1	4.3	4.6	4.5	4.4	4.2	4.1
G177.0	4.1	4.1	4.1	4.4	4.2	4.2	4.2	4.1
G178.0	4.1	4.1	4.1	4.1	4.2	4.3	4.2	4.2
G179.0	4.1	4.1	4.1	4.1	4.2	4.3	4.2	4.2
G180.0	4.1	4.1	4.1	4.2	4.2	4.3	4.2	4.2

**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	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2
G1.0	334.5	334.4	334.2	334.1	334.0	333.8	333.8	333.7
G2.0	334.6	334.5	334.2	334.0	333.7	333.4	333.3	333.1
G3.0	334.8	334.5	334.1	333.7	333.4	332.9	332.8	332.6
G4.0	334.8	334.5	334.0	333.5	332.9	332.4	332.2	331.9
G5.0	334.7	334.3	333.7	333.1	332.4	331.8	331.3	331.2
G6.0	334.5	334.1	333.4	332.6	331.7	331.0	330.6	330.4
G7.0	334.2	333.6	333.0	331.9	331.0	330.2	329.7	329.4
G8.0	333.7	333.1	332.4	331.1	330.1	329.1	328.7	328.2
G9.0	333.2	332.5	331.7	330.3	329.1	328.0	327.6	327.0
G10.0	332.3	331.8	330.7	329.4	328.0	326.9	326.4	325.7
G11.0	331.5	331.0	329.8	328.3	326.6	325.6	324.8	324.3
G12.0	330.6	330.0	328.7	327.1	325.2	324.2	323.3	322.9
G13.0	329.5	328.7	327.6	325.8	323.8	322.7	321.7	321.2
G14.0	328.3	327.4	326.3	324.1	322.2	321.0	320.1	319.5
G15.0	327.0	326.1	324.9	322.6	320.5	319.0	318.3	317.3
G16.0	325.2	324.6	323.0	320.9	318.7	317.2	316.4	315.4
G17.0	323.6	323.0	321.3	319.2	316.4	315.2	314.5	313.3
G18.0	321.9	321.3	319.6	317.3	314.4	313.1	311.9	311.2
G19.0	320.1	319.5	317.7	315.3	312.3	311.0	309.7	308.9
G20.0	318.1	317.2	315.8	312.8	310.1	308.8	307.5	306.6
G21.0	316.1	315.1	313.6	310.6	307.7	306.0	305.1	303.6
G22.0	313.9	312.9	311.4	308.3	305.3	303.5	302.6	301.1
G23.0	311.2	310.6	308.6	305.9	302.8	300.9	300.0	298.4
G24.0	308.8	308.3	306.2	303.4	299.7	298.3	296.8	295.6
G25.0	306.3	305.8	303.7	300.8	296.9	295.6	294.0	292.8
G26.0	303.7	302.7	301.1	298.1	294.1	292.8	291.1	289.9
G27.0	300.9	300.0	298.4	294.8	291.2	289.9	288.2	287.0
G28.0	298.1	297.1	295.6	291.9	288.2	286.3	285.2	283.3
G29.0	294.7	294.2	292.7	289.0	285.2	283.3	282.1	280.1
G30.0	291.6	291.3	289.1	286.0	281.5	280.2	278.9	276.9
G31.0	288.5	288.2	286.0	282.8	278.2	277.0	275.0	273.6
G32.0	285.3	284.4	282.8	279.6	274.9	273.7	271.7	270.2
G33.0	282.0	281.1	279.6	275.6	271.6	270.3	268.3	266.7
G34.0	278.7	277.8	276.2	272.3	268.1	266.2	264.9	262.5
G35.0	274.6	274.4	272.8	268.9	264.7	262.7	261.3	259.0
G36.0	271.0	270.9	268.6	265.4	261.1	259.2	257.7	255.4
G37.0	267.4	267.3	265.1	261.7	256.7	255.5	253.3	251.6
G38.0	263.7	263.6	261.4	258.1	253.0	251.8	249.6	247.9
G39.0	259.9	259.1	257.7	254.4	249.3	248.1	245.9	244.0

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
G40.0	256.1	255.3	254.0	249.9	245.5	243.6	242.0	240.2
G41.0	252.2	251.4	250.1	246.1	241.6	239.7	238.1	235.5
G42.0	247.4	247.5	245.4	242.1	237.6	235.8	234.2	231.5
G43.0	243.3	243.4	241.5	238.2	232.8	231.8	230.2	227.5
G44.0	239.2	239.3	237.4	234.2	228.8	227.8	225.5	223.4
G45.0	235.0	234.4	233.4	230.1	224.7	223.8	221.4	219.3
G46.0	230.7	230.1	229.2	225.2	220.6	219.7	217.2	215.1
G47.0	226.4	225.9	225.0	221.0	216.4	214.7	213.0	210.0
G48.0	222.0	221.5	220.7	216.7	212.1	210.5	208.8	205.8
G49.0	216.7	217.1	215.5	212.5	207.9	206.3	204.6	201.5
G50.0	212.2	212.7	211.2	208.2	202.7	202.0	199.5	197.1
G51.0	207.6	208.1	206.7	203.8	198.3	197.6	195.1	192.7
G52.0	202.9	202.6	202.2	199.4	193.9	193.3	190.7	188.2
G53.0	198.2	198.0	197.7	194.0	189.4	188.8	186.2	183.7
G54.0	193.6	193.4	193.1	189.5	184.9	183.5	181.8	178.4
G55.0	187.8	188.7	187.6	185.0	180.4	179.0	177.3	173.8
G56.0	183.0	183.8	182.9	180.4	175.0	174.5	172.8	169.2
G57.0	178.0	179.0	178.1	175.7	170.3	169.9	167.3	164.5
G58.0	173.1	173.2	173.4	171.0	165.7	165.3	162.6	159.9
G59.0	168.1	168.2	168.6	165.4	161.1	160.8	158.0	155.2
G60.0	163.1	163.3	163.8	160.7	156.4	155.2	153.4	149.6
G61.0	157.0	158.2	158.8	155.9	151.6	150.5	148.6	144.8
G62.0	151.9	153.1	152.9	151.1	146.8	145.8	143.9	140.0
G63.0	146.7	148.0	147.9	146.3	141.2	141.0	138.2	135.2
G64.0	141.6	142.9	143.0	141.5	136.4	136.3	133.4	130.4
G65.0	136.4	136.8	138.0	136.6	131.6	131.6	128.6	125.6
G66.0	131.2	131.5	132.9	130.8	126.8	125.9	123.8	120.7
G67.0	125.9	126.3	127.8	125.8	122.0	121.1	118.9	114.8
G68.0	119.6	121.1	121.7	120.9	117.2	116.3	114.1	110.0
G69.0	114.4	115.9	116.6	116.1	111.5	111.5	108.3	105.1
G70.0	109.1	110.7	111.5	111.2	106.7	106.8	103.5	100.3
G71.0	103.9	104.4	106.4	106.3	101.9	102.0	98.6	95.4
G72.0	98.6	99.2	101.2	100.4	97.1	97.2	93.7	90.6
G73.0	93.4	94.0	96.1	95.6	92.4	91.6	89.0	84.8
G74.0	88.3	88.9	91.1	90.8	87.8	86.9	84.2	80.1
G75.0	82.3	83.7	85.1	86.0	83.3	82.2	79.5	75.4
G76.0	77.2	78.6	80.1	81.3	77.9	77.6	73.8	70.7
G77.0	72.2	73.5	75.0	76.6	73.5	73.0	69.1	66.1
G78.0	67.3	67.5	70.1	72.0	69.4	68.6	64.5	61.6
G79.0	62.6	62.6	65.3	66.6	65.3	63.3	60.0	57.2

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
G80.0	58.1	57.7	60.5	62.1	61.3	58.9	55.5	52.1
G81.0	52.6	53.1	55.6	57.4	56.6	54.4	50.9	47.9
G82.0	47.3	47.9	49.6	52.3	50.8	49.4	46.3	43.2
G83.0	42.1	42.6	44.4	47.1	46.0	44.5	40.6	38.4
G84.0	36.8	37.2	39.1	41.9	41.0	39.5	35.7	33.7
G85.0	31.3	30.6	33.6	35.1	35.5	34.5	30.7	28.8
G86.0	25.2	24.7	28.0	29.6	30.2	28.3	25.8	22.7
G87.0	19.7	19.4	22.8	24.7	25.4	23.5	21.0	17.6
G88.0	13.7	14.7	17.4	20.3	21.2	19.3	16.7	13.1
G89.0	9.5	10.6	13.6	16.6	17.2	15.7	12.3	9.2
G90.0	6.2	8.2	12.6	16.0	17.0	15.3	11.6	7.4
G91.0	5.9	8.0	12.4	15.8	16.9	15.0	11.3	7.0
G92.0	5.8	7.8	12.4	15.7	16.7	14.9	11.1	6.6
G93.0	5.7	7.7	12.2	15.6	16.6	14.7	10.9	6.4
G94.0	5.5	7.5	12.1	15.5	16.5	14.6	10.8	6.2
G95.0	5.5	7.4	11.9	15.4	16.4	14.4	10.6	6.0
G96.0	5.3	7.2	11.8	15.3	16.3	14.3	10.3	5.9
G97.0	5.2	7.0	11.6	15.2	16.2	14.1	10.1	5.7
G98.0	5.1	6.9	11.4	15.0	16.1	13.9	9.8	5.6
G99.0	5.0	6.8	11.1	14.8	16.0	13.7	9.6	5.4
G100.0	4.9	6.6	10.8	14.7	15.8	13.5	9.3	5.3
G101.0	4.8	6.5	10.5	14.4	15.6	13.3	8.9	5.3
G102.0	4.7	6.4	10.3	14.3	15.4	13.1	8.7	5.3
G103.0	4.6	6.2	10.0	14.0	15.2	12.9	8.4	5.3
G104.0	4.5	6.2	9.7	13.7	14.9	12.6	8.3	5.3
G105.0	4.4	6.2	9.5	13.4	14.7	12.3	8.1	5.4
G106.0	4.5	6.2	9.3	13.2	14.4	12.1	8.0	5.4
G107.0	4.5	6.2	9.2	12.9	14.1	11.9	7.9	5.4
G108.0	4.5	6.2	9.0	12.7	13.8	11.7	7.8	5.5
G109.0	4.5	6.2	8.9	12.5	13.6	11.6	7.8	5.6
G110.0	4.6	6.2	8.8	12.3	13.4	11.4	7.7	5.6
G111.0	4.6	6.3	8.7	12.1	13.2	11.2	7.7	5.6
G112.0	4.6	6.3	8.6	12.0	13.0	11.1	7.6	5.7
G113.0	4.6	6.3	8.5	11.8	12.7	11.0	7.6	5.7
G114.0	4.6	6.3	8.4	11.6	12.5	10.8	7.7	5.8
G115.0	4.6	6.3	8.4	11.5	12.3	10.7	7.7	5.8
G116.0	4.6	6.3	8.4	11.3	12.1	10.6	7.7	5.8
G117.0	4.6	6.3	8.4	11.1	12.0	10.4	7.8	5.9
G118.0	4.6	6.3	8.3	11.0	11.8	10.3	7.8	5.9
G119.0	4.6	6.3	8.3	10.9	11.6	10.2	7.9	5.9

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	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G120.0	4.7	6.3	8.3	10.8	11.5	10.1	7.9	5.9
G121.0	4.7	6.3	8.3	10.6	11.3	10.0	8.0	5.9
G122.0	4.7	6.2	8.3	10.6	10.6	9.9	8.0	5.9
G123.0	4.8	6.2	8.4	10.5	10.2	9.8	8.1	5.9
G124.0	4.8	6.1	8.4	10.4	10.1	9.7	8.1	5.9
G125.0	4.9	6.1	8.3	10.3	10.0	9.6	8.1	5.8
G126.0	4.9	6.1	8.3	10.2	10.0	9.6	8.1	5.8
G127.0	4.8	6.0	8.3	10.1	10.0	9.6	8.0	5.8
G128.0	4.7	6.0	8.2	10.1	9.9	9.6	8.0	5.7
G129.0	4.1	5.9	8.2	9.9	9.8	9.6	8.0	5.7
G130.0	4.1	5.9	8.1	9.8	9.8	9.5	7.9	5.7
G131.0	4.9	5.8	8.1	9.6	9.7	9.3	7.9	5.7
G132.0	5.0	5.8	8.0	9.3	9.7	9.2	7.8	5.7
G133.0	5.0	5.7	7.9	9.1	9.5	8.9	7.7	5.6
G134.0	5.0	5.7	7.8	8.9	9.5	8.7	7.7	5.6
G135.0	5.0	5.6	7.8	8.7	9.4	8.4	7.6	5.6
G136.0	5.0	5.6	7.7	8.4	9.3	8.2	7.5	5.6
G137.0	5.0	5.5	7.5	8.2	9.2	7.9	7.4	5.6
G138.0	5.0	5.5	7.4	8.0	9.1	7.7	7.3	5.5
G139.0	5.1	5.5	7.1	7.8	9.0	7.5	7.2	5.5
G140.0	5.1	5.4	6.9	7.7	8.9	7.3	7.1	5.6
G141.0	5.1	5.4	6.6	7.6	8.8	7.0	7.0	5.6
G142.0	5.1	5.3	6.7	7.5	8.7	6.8	7.0	5.6
G143.0	5.1	5.3	6.8	7.4	8.6	6.5	6.9	5.5
G144.0	5.1	5.4	6.7	7.4	8.5	6.5	6.9	5.5
G145.0	5.1	5.3	6.6	7.3	8.4	6.3	6.8	5.5
G146.0	5.1	5.2	6.5	7.1	8.1	6.2	6.7	5.4
G147.0	5.1	5.2	6.6	7.0	7.2	6.3	6.5	5.4
G148.0	5.1	5.1	6.7	6.9	6.8	6.2	6.3	5.4
G149.0	5.1	5.1	6.7	6.6	6.7	6.1	6.0	5.4
G150.0	5.1	5.1	6.5	6.5	7.0	6.0	5.8	5.6
G151.0	5.1	5.1	6.3	6.4	7.1	5.9	5.6	5.7
G152.0	5.1	5.0	6.1	6.3	7.0	5.8	5.5	5.7
G153.0	5.1	5.0	5.9	6.1	6.9	5.6	5.4	5.7
G154.0	5.0	5.2	5.7	6.0	6.7	5.6	5.3	5.6
G155.0	5.1	5.4	5.6	5.9	6.5	5.4	5.2	5.4
G156.0	5.2	5.5	5.5	5.7	6.4	5.3	5.1	5.2
G157.0	5.3	5.5	5.4	5.6	6.2	5.2	5.1	5.1
G158.0	5.4	5.4	5.2	5.5	6.0	5.1	5.0	5.0
G159.0	5.3	5.2	5.1	5.4	5.8	5.1	4.8	4.8

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI



**Light Distribution Data**

Unit: cd

G\C	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G160.0	5.2	5.0	5.0	5.3	5.6	5.0	4.7	4.7
G161.0	5.0	4.9	5.0	5.2	5.5	4.8	4.6	4.6
G162.0	5.0	4.8	4.9	5.1	5.3	4.7	4.6	4.6
G163.0	4.9	4.7	4.7	5.0	5.2	4.6	4.5	4.5
G164.0	4.8	4.6	4.6	4.9	5.0	4.6	4.5	4.4
G165.0	4.6	4.5	4.6	4.8	4.9	4.5	4.4	4.4
G166.0	4.6	4.4	4.5	4.7	4.7	4.4	4.3	4.4
G167.0	4.5	4.3	4.5	4.6	4.6	4.4	4.2	4.3
G168.0	4.4	4.2	4.4	4.5	4.6	4.3	4.2	4.3
G169.0	4.3	4.2	4.3	4.5	4.5	4.2	4.2	4.2
G170.0	4.3	4.1	4.3	4.4	4.4	4.2	4.1	4.2
G171.0	4.3	4.1	4.3	4.4	4.4	4.1	4.1	4.2
G172.0	4.3	4.1	4.2	4.3	4.3	4.1	4.1	4.2
G173.0	4.2	4.1	4.2	4.3	4.3	4.1	4.1	4.1
G174.0	4.2	4.1	4.1	4.2	4.2	4.0	4.1	4.1
G175.0	4.1	4.0	4.1	4.2	4.2	3.9	4.0	4.1
G176.0	4.1	4.0	4.1	4.2	4.1	3.9	4.1	4.1
G177.0	4.1	4.1	4.2	4.3	4.1	4.0	4.2	4.2
G178.0	4.0	4.1	4.2	4.2	4.3	4.1	4.2	4.2
G179.0	4.1	4.1	4.2	4.2	4.4	4.1	4.2	4.2
G180.0	4.2	4.1	4.1	4.1	4.2	4.2	4.3	4.2