

Goniophotometers System Test Report

Product Info

Luminaire Category : LED Bulkhead Light

Luminaire : 4000K Black

Lamp Category : SMD

Lamp : F9093

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 : 0.1202 A Power : 14.61 W Power Factor : 0.5290 Frequency : 50.00 Hz

Photometric Parameters

CIE Class : Direct

Measurement Flux : 862.0 lm

Upward Ratio : 4.61 %

Maximum Intensity : 264.14 cd

Central Intensity : 263.31 cd

Luminaire Efficacy Rating (LER) : 59

Beam Angle (C0-C180,C90-C270) : 116.0 °, 118.3 °

Field Angle (C0-C180,C90-C270) : 169.4 °, 173.1 °

Total Rated Lamp Lumens : 862.0 lm

Efficiency : 100.00 %

Downward Ratio : 95.39 %

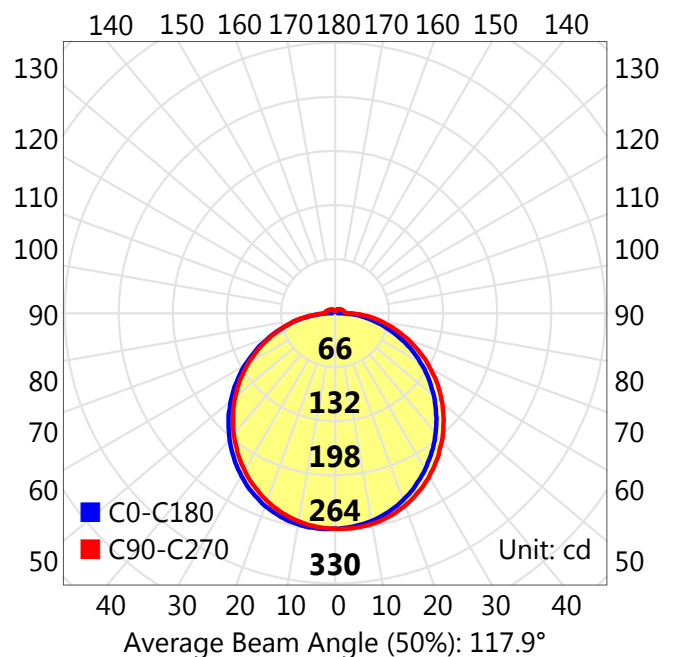
Position Of Maximum Intensity : C157.5° γ5°

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

Energy Efficiency Class : A (EU 874/2012 EEI:0.215)

Beam Angle (C45-C225,C135-C315) : 118.7 °, 118.3 °

Field Angle (C45-C225,C135-C315) : 171.7 °, 171.2 °



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

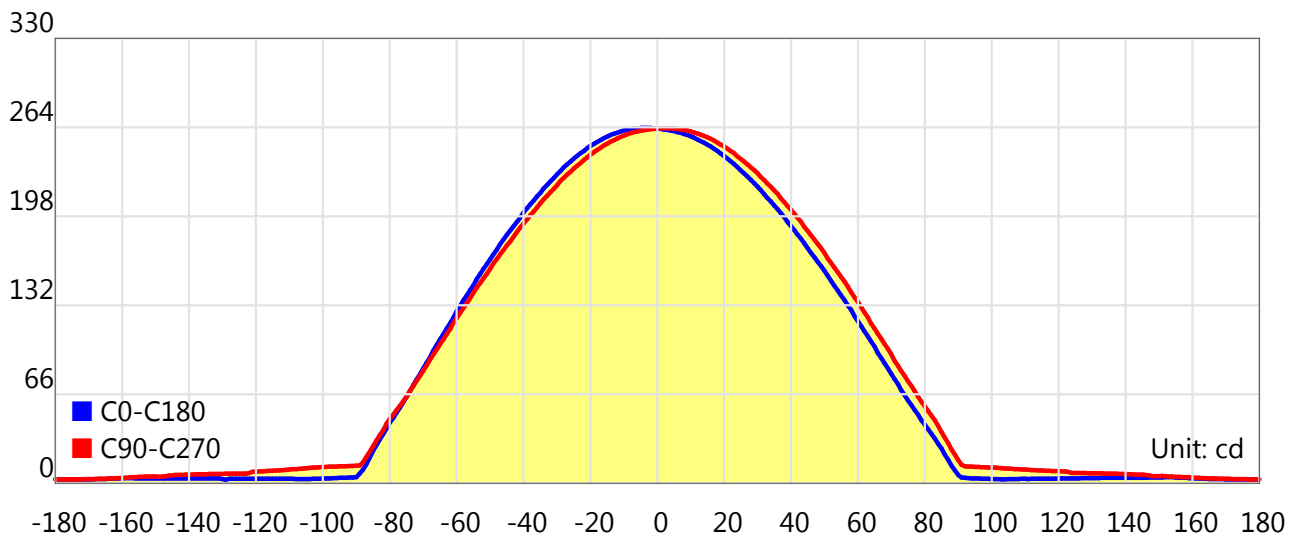
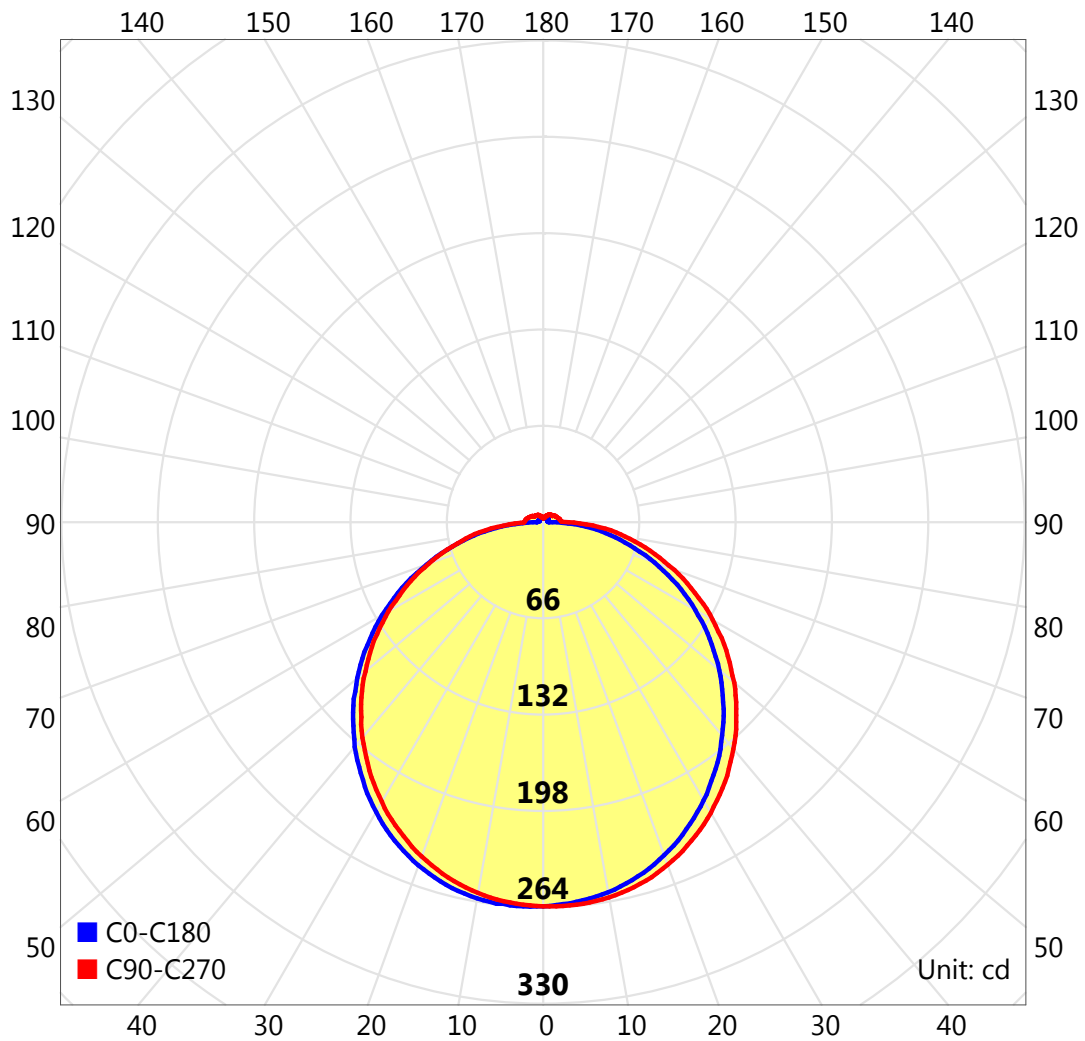
Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

Light Distribution Curve



C Plane : 0.0-360.0:22.5

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Gamma : 0.0-180.0:1.0

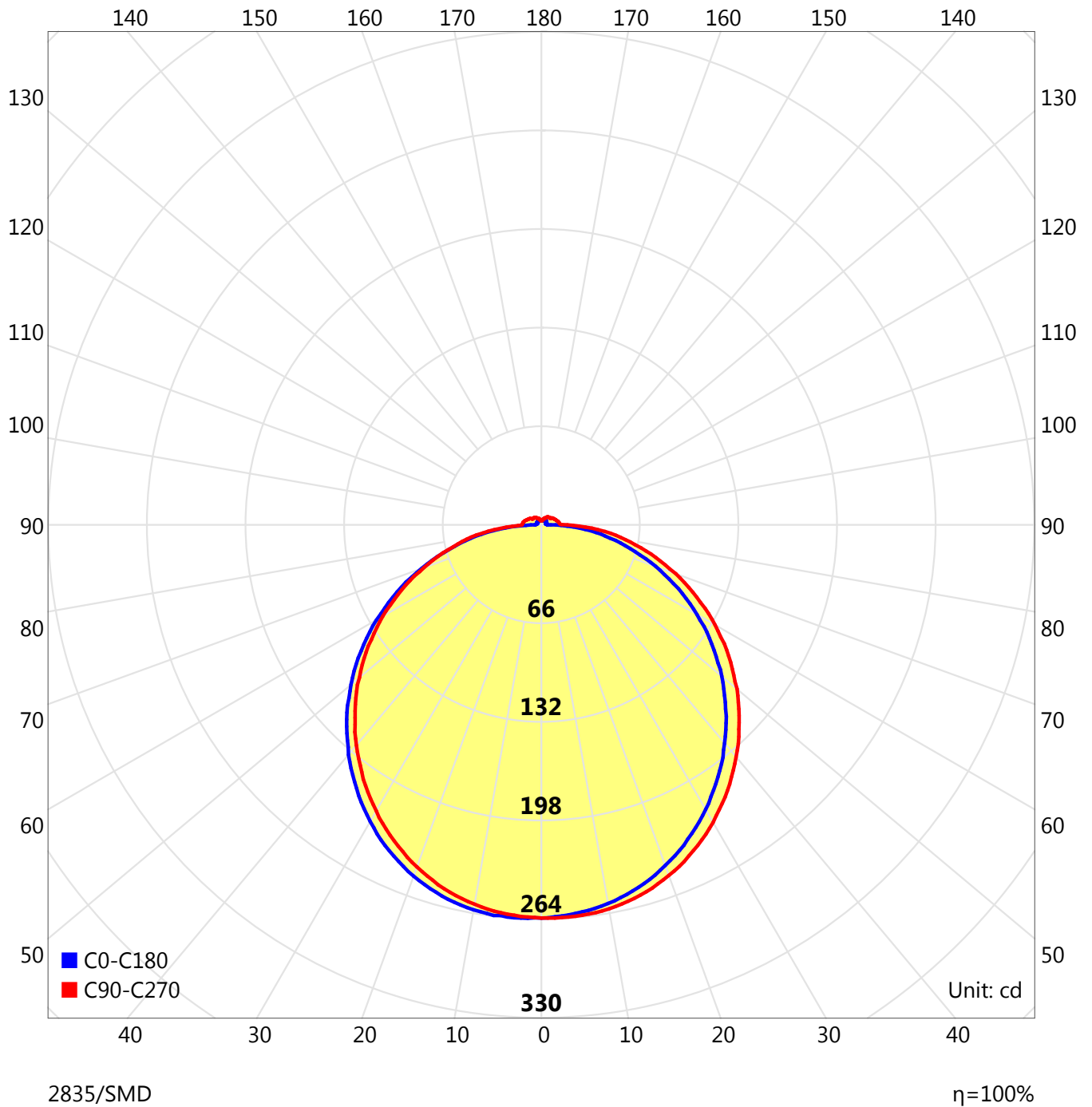
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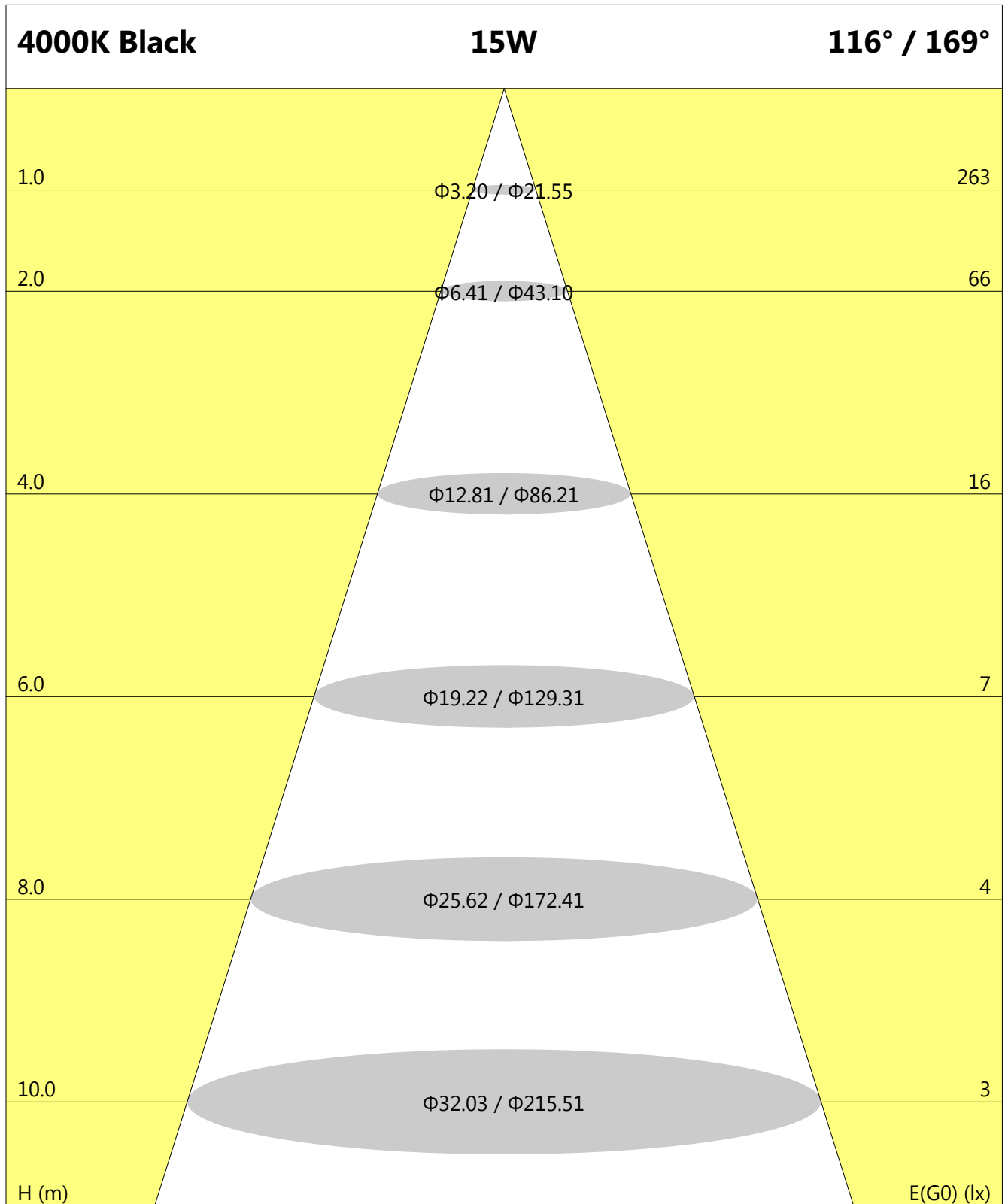
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Humidity : 65.0%

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

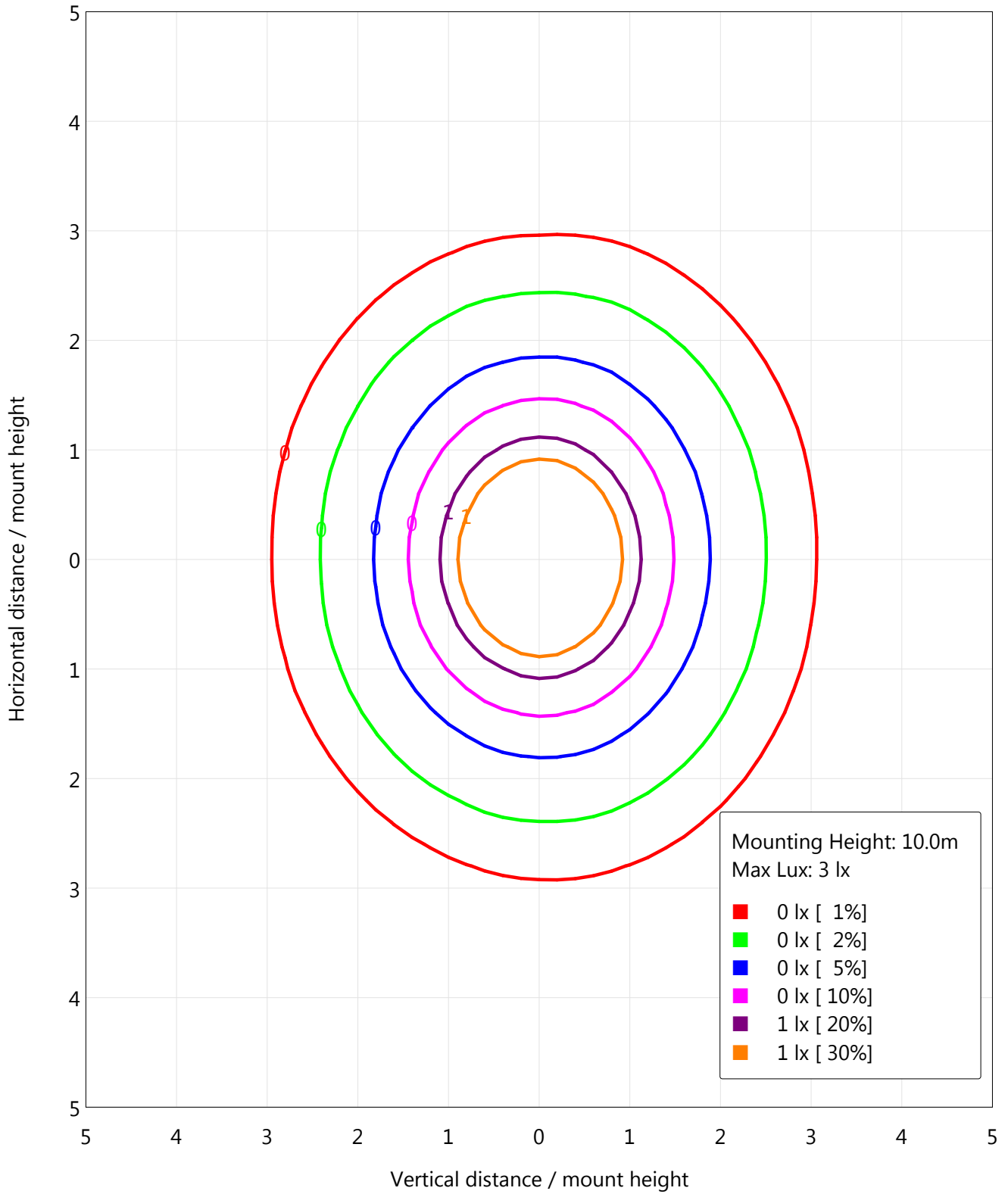
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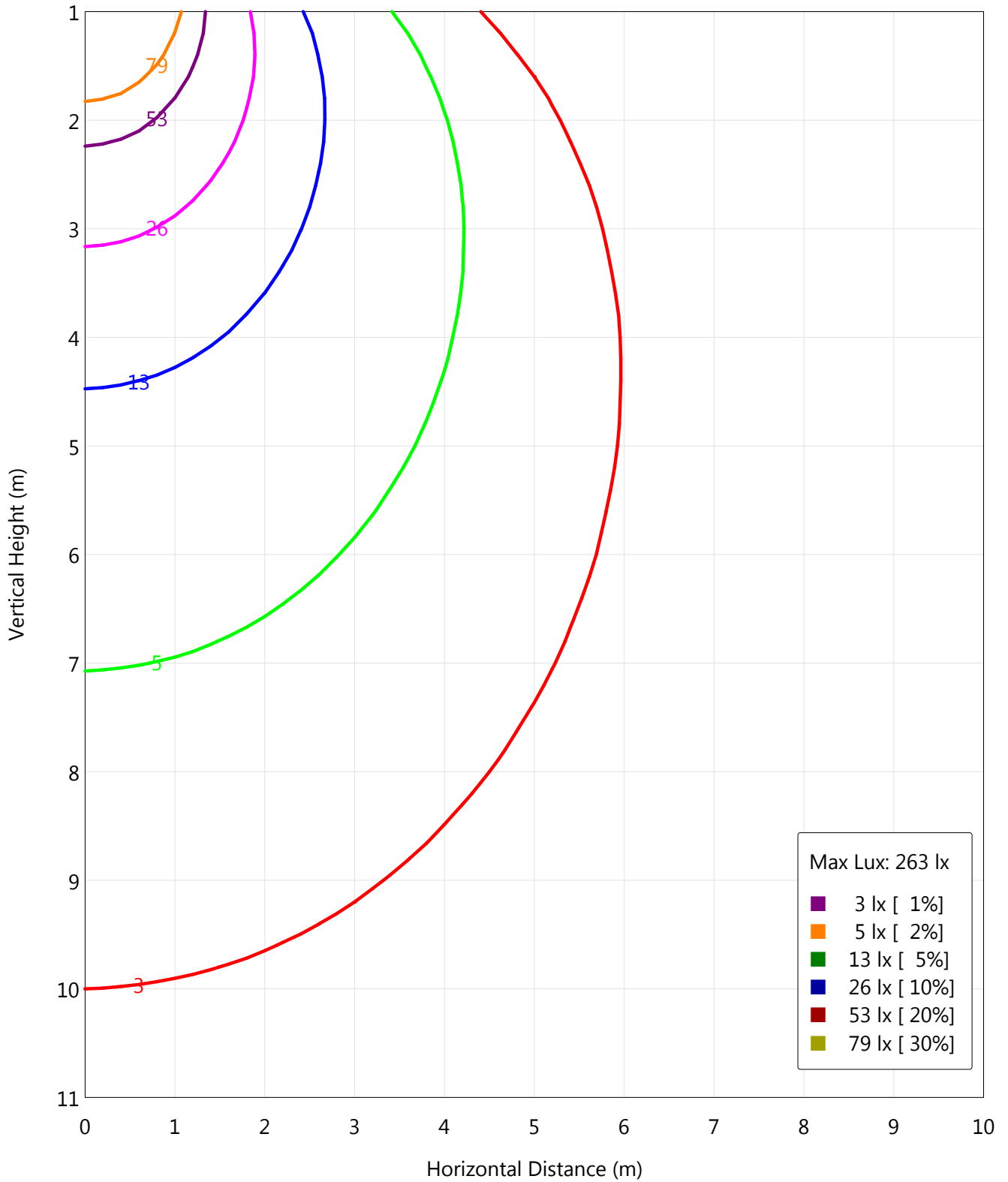
Humidity : 65.0%

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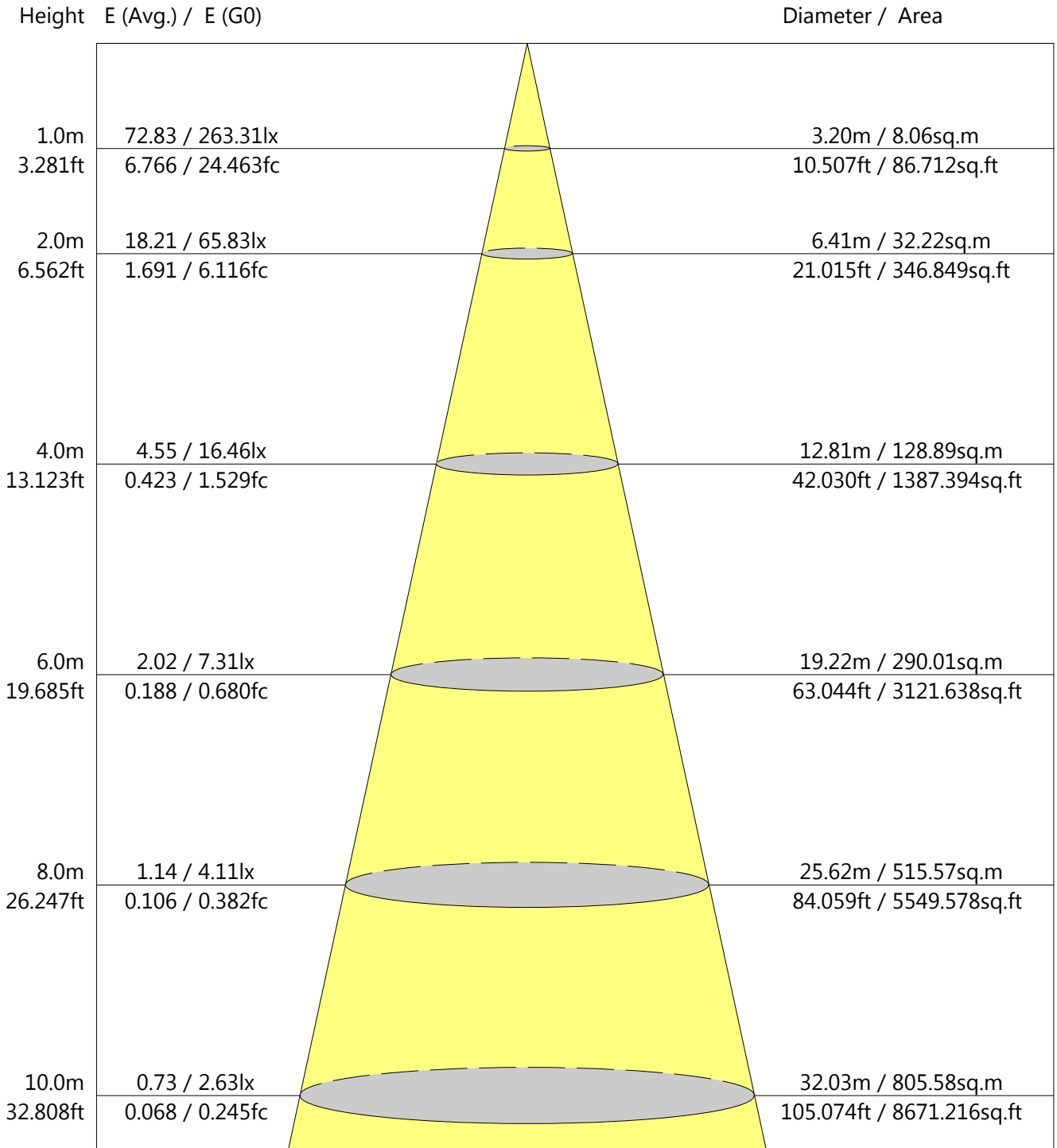
IsoLux



Vertical IsoLux Plot



Average Illuminance Effective Figure



Beam Angle: 116° Flux Out: 586.67lm

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Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

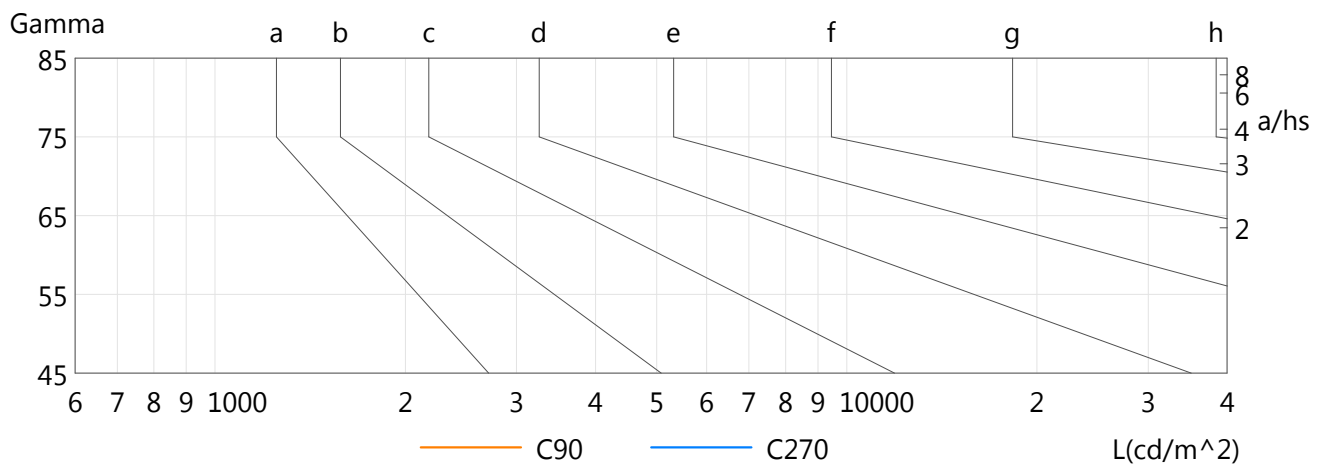
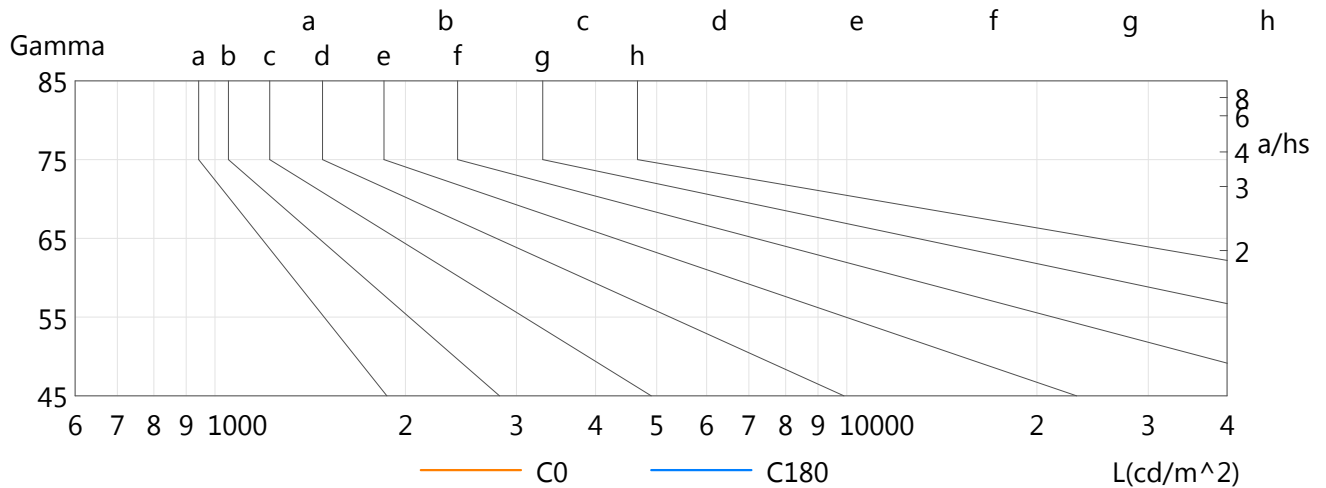
Review By :TMI

Humidity : 65.0%

Lumen Limit Curve

L (cd/m ²)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	175	158	139	120	101	81	62	44	26
C90	187	171	153	134	115	96	76	57	38
C270	184	166	147	128	107	85	64	45	24
C90	177	159	142	123	103	84	65	48	28

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



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Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

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	0.62	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		0.38	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	0.65	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	0.25
	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	0.26	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	0.52	0.45	0.40	0.33	0.28	0.24	0.19	0.16

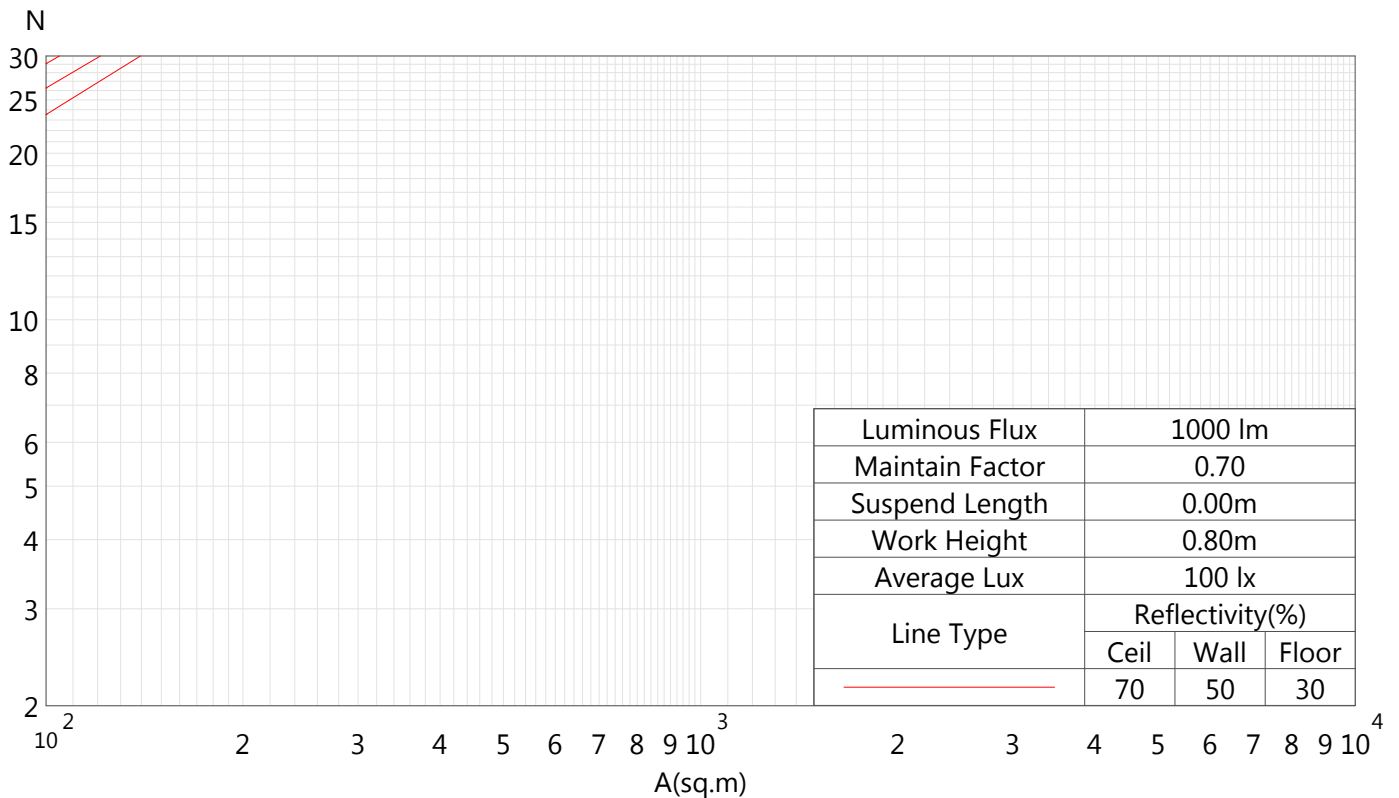
Utilisation Factors UF (C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.21	0.22	0.23	0.24	0.25	0.25	0.26	0.26	0.26
	0.30		0.14	0.16	0.17	0.18	0.20	0.21	0.21	0.23	0.24
	0.20		0.09	0.10	0.12	0.13	0.15	0.17	0.18	0.20	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	67	58	51	77	66	57	51	63	55	50	60	53	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	34	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	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	263.3	0.3	0.3	0.03	0.03
1.0-2.0	263.2	0.8	1.0	0.09	0.12
2.0-3.0	263.1	1.3	2.3	0.15	0.26
3.0-4.0	262.9	1.8	4.0	0.20	0.47
4.0-5.0	262.6	2.3	6.3	0.26	0.73
5.0-6.0	262.3	2.8	9.0	0.32	1.05
6.0-7.0	261.9	3.3	12.3	0.38	1.43
7.0-8.0	261.4	3.7	16.0	0.43	1.86
8.0-9.0	260.8	4.2	20.3	0.49	2.35
9.0-10.0	260.1	4.7	25.0	0.55	2.90
10.0-11.0	259.3	5.2	30.2	0.60	3.50
11.0-12.0	258.4	5.6	35.8	0.66	4.15
12.0-13.0	257.4	6.1	41.9	0.71	4.86
13.0-14.0	256.4	6.6	48.5	0.76	5.62
14.0-15.0	255.2	7.0	55.5	0.81	6.44
15.0-16.0	254.0	7.4	62.9	0.86	7.30
16.0-17.0	252.6	7.9	70.8	0.91	8.21
17.0-18.0	251.2	8.3	79.1	0.96	9.17
18.0-19.0	249.6	8.7	87.8	1.01	10.18
19.0-20.0	248.0	9.1	96.8	1.05	11.23
20.0-21.0	246.3	9.5	106.3	1.10	12.33
21.0-22.0	244.5	9.8	116.1	1.14	13.47
22.0-23.0	242.6	10.2	126.3	1.18	14.65
23.0-24.0	240.6	10.5	136.8	1.22	15.87
24.0-25.0	238.6	10.8	147.7	1.26	17.13
25.0-26.0	236.5	11.2	158.8	1.30	18.43
26.0-27.0	234.3	11.5	170.3	1.33	19.76
27.0-28.0	232.0	11.7	182.0	1.36	21.12
28.0-29.0	229.7	12.0	194.1	1.39	22.51
29.0-30.0	227.3	12.3	206.3	1.42	23.94
30.0-31.0	224.8	12.5	218.8	1.45	25.39
31.0-32.0	222.2	12.7	231.6	1.48	26.86
32.0-33.0	219.6	12.9	244.5	1.50	28.36
33.0-34.0	216.9	13.1	257.6	1.52	29.89
34.0-35.0	214.2	13.3	270.9	1.54	31.43
35.0-36.0	211.3	13.5	284.4	1.56	32.99
36.0-37.0	208.5	13.6	298.0	1.58	34.57
37.0-38.0	205.6	13.7	311.7	1.59	36.16
38.0-39.0	202.6	13.8	325.6	1.60	37.77
39.0-40.0	199.6	13.9	339.5	1.61	39.38

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C Humidity : 65.0%

Review By :TMI

Zonal Flux

Gamma °	I _{mean} cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	196.4	14.0	353.5	1.62	41.00
41.0-42.0	193.4	14.1	367.5	1.63	42.63
42.0-43.0	190.2	14.1	381.6	1.63	44.27
43.0-44.0	187.0	14.1	395.7	1.64	45.91
44.0-45.0	183.7	14.1	409.8	1.64	47.54
45.0-46.0	180.4	14.1	424.0	1.64	49.18
46.0-47.0	177.0	14.1	438.0	1.63	50.81
47.0-48.0	173.6	14.0	452.1	1.63	52.44
48.0-49.0	170.2	14.0	466.0	1.62	54.06
49.0-50.0	166.7	13.9	479.9	1.61	55.68
50.0-51.0	163.2	13.8	493.8	1.60	57.28
51.0-52.0	159.6	13.7	507.5	1.59	58.87
52.0-53.0	156.0	13.6	521.0	1.57	60.44
53.0-54.0	152.4	13.4	534.5	1.56	62.00
54.0-55.0	148.7	13.3	547.7	1.54	63.54
55.0-56.0	145.0	13.1	560.8	1.52	65.06
56.0-57.0	141.3	12.9	573.8	1.50	66.56
57.0-58.0	137.5	12.7	586.5	1.48	68.03
58.0-59.0	133.7	12.5	599.0	1.45	69.48
59.0-60.0	129.8	12.3	611.2	1.42	70.91
60.0-61.0	125.9	12.0	623.3	1.39	72.30
61.0-62.0	122.0	11.8	635.0	1.36	73.66
62.0-63.0	118.1	11.5	646.5	1.33	75.00
63.0-64.0	114.2	11.2	657.7	1.30	76.30
64.0-65.0	110.2	10.9	668.6	1.27	77.56
65.0-66.0	106.2	10.6	679.2	1.23	78.79
66.0-67.0	102.2	10.3	689.5	1.19	79.98
67.0-68.0	98.2	9.9	699.4	1.15	81.14
68.0-69.0	94.2	9.6	709.0	1.11	82.25
69.0-70.0	90.1	9.3	718.3	1.07	83.33
70.0-71.0	86.1	8.9	727.2	1.03	84.36
71.0-72.0	82.1	8.5	735.8	0.99	85.35
72.0-73.0	78.1	8.2	743.9	0.95	86.30
73.0-74.0	74.0	7.8	751.7	0.90	87.20
74.0-75.0	70.1	7.4	759.1	0.86	88.06
75.0-76.0	66.2	7.0	766.1	0.81	88.87
76.0-77.0	62.3	6.6	772.8	0.77	89.65
77.0-78.0	58.5	6.3	779.0	0.73	90.37
78.0-79.0	54.6	5.9	784.9	0.68	91.05
79.0-80.0	50.9	5.5	790.4	0.64	91.69

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Zonal Flux

Gamma °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
80.0-81.0	47.2	5.1	795.5	0.59	92.28
81.0-82.0	43.4	4.7	800.2	0.55	92.83
82.0-83.0	39.6	4.3	804.5	0.50	93.33
83.0-84.0	35.6	3.9	808.4	0.45	93.78
84.0-85.0	31.4	3.4	811.8	0.40	94.18
85.0-86.0	27.1	3.0	814.8	0.34	94.52
86.0-87.0	22.9	2.5	817.3	0.29	94.81
87.0-88.0	18.7	2.1	819.4	0.24	95.05
88.0-89.0	14.9	1.6	821.0	0.19	95.24
89.0-90.0	12.0	1.3	822.3	0.15	95.39
90.0-91.0	10.0	1.1	823.4	0.13	95.52
91.0-92.0	9.0	1.0	824.4	0.11	95.63
92.0-93.0	8.7	1.0	825.3	0.11	95.74
93.0-94.0	8.6	0.9	826.3	0.11	95.85
94.0-95.0	8.5	0.9	827.2	0.11	95.96
95.0-96.0	8.4	0.9	828.1	0.11	96.07
96.0-97.0	8.3	0.9	829.0	0.10	96.17
97.0-98.0	8.1	0.9	829.9	0.10	96.27
98.0-99.0	8.0	0.9	830.8	0.10	96.37
99.0-100.0	7.9	0.9	831.6	0.10	96.47
100.0-101.0	7.7	0.8	832.5	0.10	96.57
101.0-102.0	7.6	0.8	833.3	0.09	96.66
102.0-103.0	7.5	0.8	834.1	0.09	96.76
103.0-104.0	7.3	0.8	834.9	0.09	96.85
104.0-105.0	7.2	0.8	835.6	0.09	96.94
105.0-106.0	7.1	0.8	836.4	0.09	97.02
106.0-107.0	7.0	0.7	837.1	0.09	97.11
107.0-108.0	7.0	0.7	837.8	0.08	97.19
108.0-109.0	6.9	0.7	838.6	0.08	97.28
109.0-110.0	6.9	0.7	839.3	0.08	97.36
110.0-111.0	6.8	0.7	840.0	0.08	97.44
111.0-112.0	6.7	0.7	840.7	0.08	97.52
112.0-113.0	6.7	0.7	841.3	0.08	97.60
113.0-114.0	6.7	0.7	842.0	0.08	97.68
114.0-115.0	6.6	0.7	842.7	0.08	97.75
115.0-116.0	6.6	0.7	843.3	0.08	97.83
116.0-117.0	6.5	0.6	844.0	0.07	97.90
117.0-118.0	6.5	0.6	844.6	0.07	97.98
118.0-119.0	6.5	0.6	845.2	0.07	98.05
119.0-120.0	6.5	0.6	845.8	0.07	98.12

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C Humidity : 65.0%

Review By :TMI

Zonal Flux

Gamma °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
120.0-121.0	6.4	0.6	846.4	0.07	98.19
121.0-122.0	6.4	0.6	847.0	0.07	98.26
122.0-123.0	6.3	0.6	847.6	0.07	98.33
123.0-124.0	6.3	0.6	848.2	0.07	98.39
124.0-125.0	6.2	0.6	848.8	0.07	98.46
125.0-126.0	6.2	0.6	849.3	0.06	98.52
126.0-127.0	6.1	0.5	849.9	0.06	98.59
127.0-128.0	6.1	0.5	850.4	0.06	98.65
128.0-129.0	6.0	0.5	850.9	0.06	98.71
129.0-130.0	6.0	0.5	851.4	0.06	98.77
130.0-131.0	5.9	0.5	851.9	0.06	98.82
131.0-132.0	5.9	0.5	852.4	0.06	98.88
132.0-133.0	5.8	0.5	852.8	0.05	98.93
133.0-134.0	5.7	0.5	853.3	0.05	98.99
134.0-135.0	5.6	0.4	853.7	0.05	99.04
135.0-136.0	5.5	0.4	854.2	0.05	99.09
136.0-137.0	5.5	0.4	854.6	0.05	99.13
137.0-138.0	5.4	0.4	855.0	0.05	99.18
138.0-139.0	5.3	0.4	855.4	0.04	99.23
139.0-140.0	5.3	0.4	855.7	0.04	99.27
140.0-141.0	5.2	0.4	856.1	0.04	99.31
141.0-142.0	5.1	0.3	856.4	0.04	99.35
142.0-143.0	5.0	0.3	856.8	0.04	99.39
143.0-144.0	5.0	0.3	857.1	0.04	99.43
144.0-145.0	4.9	0.3	857.4	0.04	99.46
145.0-146.0	4.9	0.3	857.7	0.04	99.50
146.0-147.0	4.8	0.3	858.0	0.03	99.53
147.0-148.0	4.7	0.3	858.3	0.03	99.56
148.0-149.0	4.6	0.3	858.5	0.03	99.60
149.0-150.0	4.5	0.3	858.8	0.03	99.62
150.0-151.0	4.5	0.2	859.0	0.03	99.65
151.0-152.0	4.5	0.2	859.3	0.03	99.68
152.0-153.0	4.4	0.2	859.5	0.03	99.71
153.0-154.0	4.3	0.2	859.7	0.02	99.73
154.0-155.0	4.3	0.2	859.9	0.02	99.75
155.0-156.0	4.2	0.2	860.1	0.02	99.78
156.0-157.0	4.1	0.2	860.3	0.02	99.80
157.0-158.0	4.1	0.2	860.5	0.02	99.82
158.0-159.0	4.0	0.2	860.6	0.02	99.84
159.0-160.0	3.9	0.1	860.8	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 _{mean} cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
160.0-161.0	3.8	0.1	860.9	0.02	99.87
161.0-162.0	3.7	0.1	861.0	0.01	99.88
162.0-163.0	3.6	0.1	861.2	0.01	99.90
163.0-164.0	3.5	0.1	861.3	0.01	99.91
164.0-165.0	3.4	0.1	861.4	0.01	99.92
165.0-166.0	3.4	0.1	861.5	0.01	99.93
166.0-167.0	3.3	0.1	861.5	0.01	99.94
167.0-168.0	3.2	0.1	861.6	0.01	99.95
168.0-169.0	3.2	0.1	861.7	0.01	99.96
169.0-170.0	3.1	0.1	861.7	0.01	99.97
170.0-171.0	3.1	0.1	861.8	0.01	99.97
171.0-172.0	3.1	0.0	861.9	0.01	99.98
172.0-173.0	3.0	0.0	861.9	0.01	99.98
173.0-174.0	3.0	0.0	861.9	0.00	99.99
174.0-175.0	3.0	0.0	862.0	0.00	99.99
175.0-176.0	2.9	0.0	862.0	0.00	99.99
176.0-177.0	2.9	0.0	862.0	0.00	100.00
177.0-178.0	2.9	0.0	862.0	0.00	100.00
178.0-179.0	2.9	0.0	862.0	0.00	100.00
179.0-180.0	2.9	0.0	862.0	0.00	100.00

Light Distribution Data

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5
G0.0	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3
G1.0	263.2	263.1	263.2	263.3	263.4	263.5	263.6	263.6
G2.0	262.7	262.8	263.1	263.3	263.5	263.7	263.8	263.8
G3.0	262.3	262.5	262.8	263.1	263.4	263.7	263.9	264.0
G4.0	261.9	262.1	262.5	262.9	263.3	263.7	264.0	264.1
G5.0	261.3	261.7	262.1	262.6	263.2	263.6	264.0	264.1
G6.0	260.7	261.2	261.7	262.3	263.0	263.5	263.9	264.1
G7.0	260.1	260.6	261.2	261.9	262.7	263.3	263.8	263.9
G8.0	259.3	259.8	260.7	261.3	262.3	263.0	263.6	263.7
G9.0	258.5	259.0	260.0	260.8	261.8	262.6	263.2	263.4
G10.0	257.6	258.2	259.3	260.1	261.2	262.2	262.7	262.9
G11.0	256.6	257.3	258.3	259.3	260.4	261.6	262.2	262.4
G12.0	255.3	256.2	257.4	258.5	259.7	260.9	261.6	261.8
G13.0	254.1	255.1	256.4	257.6	258.8	260.2	260.9	261.0
G14.0	252.8	254.0	255.3	256.6	257.8	259.2	260.1	260.2
G15.0	251.4	252.4	254.1	255.2	256.8	258.2	259.2	259.2
G16.0	249.9	251.0	252.9	254.1	255.7	257.2	258.3	258.2
G17.0	248.4	249.6	251.5	252.8	254.4	256.1	257.0	257.1
G18.0	246.7	248.0	249.8	251.4	252.9	254.9	255.8	255.9
G19.0	244.7	246.4	248.3	249.9	251.5	253.6	254.5	254.6
G20.0	242.8	244.7	246.7	248.4	250.0	252.2	253.1	253.0
G21.0	241.0	242.9	245.0	246.5	248.4	250.4	251.7	251.5
G22.0	239.0	240.7	243.3	244.7	246.7	248.8	250.2	249.9
G23.0	237.0	238.7	241.4	242.9	245.0	247.1	248.5	248.2
G24.0	234.8	236.7	239.5	241.1	242.7	245.4	246.4	246.5
G25.0	232.2	234.7	237.1	239.1	240.9	243.6	244.6	244.6
G26.0	230.0	232.5	235.0	237.1	238.9	241.7	242.8	242.3
G27.0	227.6	230.3	232.9	234.6	236.8	239.3	240.8	240.3
G28.0	225.2	227.5	230.7	232.5	234.7	237.2	238.7	238.2
G29.0	222.7	225.2	228.4	230.2	232.5	235.1	236.6	236.0
G30.0	220.2	222.7	226.1	228.0	230.2	232.9	234.0	233.8
G31.0	217.7	220.3	223.2	225.6	227.4	230.6	231.7	231.5
G32.0	214.5	217.7	220.7	223.2	225.0	228.3	229.3	229.1
G33.0	211.8	215.1	218.2	220.7	222.5	225.9	226.9	226.1
G34.0	209.1	212.4	215.6	218.2	220.0	222.9	224.4	223.6
G35.0	206.3	209.2	213.0	215.1	217.4	220.3	221.9	221.0
G36.0	203.4	206.4	210.3	212.4	214.8	217.7	218.7	218.3
G37.0	200.5	203.6	207.5	209.7	211.5	215.1	216.0	215.6
G38.0	197.6	200.7	204.2	206.9	208.8	212.3	213.2	212.7
G39.0	194.0	197.8	201.3	204.1	205.9	209.5	210.4	209.9

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	191.0	194.9	198.4	200.7	203.1	206.1	207.6	206.3
G41.0	187.9	191.2	195.5	197.8	200.2	203.2	204.6	203.4
G42.0	184.8	188.2	192.5	194.8	197.2	200.2	201.6	200.3
G43.0	181.6	185.1	189.4	191.8	194.1	197.2	198.0	197.2
G44.0	178.4	181.9	185.7	188.8	190.4	194.2	194.9	194.0
G45.0	174.5	178.8	182.6	185.7	187.3	191.1	191.7	190.8
G46.0	171.2	175.6	179.5	182.5	184.2	187.9	188.5	186.9
G47.0	167.9	172.3	176.3	178.7	181.0	184.1	185.3	183.5
G48.0	164.6	168.3	173.0	175.5	177.7	180.8	182.0	180.1
G49.0	161.2	165.0	169.7	172.2	174.4	177.5	178.6	176.7
G50.0	157.8	161.7	166.4	168.9	171.1	174.2	174.6	173.2
G51.0	154.3	158.3	162.4	165.6	167.1	170.9	171.1	169.7
G52.0	150.1	154.8	159.0	162.2	163.6	167.4	167.7	166.2
G53.0	146.6	151.3	155.6	158.8	160.2	164.0	164.1	161.8
G54.0	143.1	147.8	152.1	154.6	156.7	159.8	160.5	158.1
G55.0	139.5	143.6	148.6	151.2	153.2	156.3	157.0	154.4
G56.0	135.9	140.1	145.1	147.6	149.7	152.7	153.3	150.7
G57.0	132.2	136.5	141.6	144.1	146.1	149.1	148.9	146.9
G58.0	128.6	132.8	137.3	140.5	141.7	145.4	145.2	143.0
G59.0	124.1	129.2	133.6	136.9	138.1	141.8	141.4	139.2
G60.0	120.4	125.5	130.0	133.3	134.4	138.1	137.6	134.5
G61.0	116.6	121.8	126.4	128.9	130.7	133.6	133.8	130.6
G62.0	112.9	117.3	122.7	125.2	127.0	129.8	129.9	126.6
G63.0	109.0	113.6	118.9	121.5	123.2	126.0	126.0	122.5
G64.0	105.2	109.8	115.2	117.8	118.7	122.2	121.3	118.5
G65.0	101.4	106.0	110.7	114.0	114.9	118.4	117.3	114.4
G66.0	96.8	102.2	106.9	110.3	111.1	114.5	113.4	110.3
G67.0	93.0	98.4	103.1	106.5	107.3	110.6	109.3	105.4
G68.0	89.1	94.5	99.3	101.9	103.4	105.9	105.3	101.3
G69.0	85.2	89.9	95.5	98.1	99.6	102.0	101.2	97.1
G70.0	81.4	86.1	91.7	94.3	95.8	98.1	96.4	93.0
G71.0	77.6	82.3	87.8	90.5	91.2	94.2	92.3	88.9
G72.0	73.7	78.4	83.2	86.7	87.3	90.2	88.2	84.7
G73.0	69.2	74.6	79.4	82.9	83.5	86.3	84.1	79.7
G74.0	65.4	70.8	75.6	78.4	79.7	81.6	80.1	75.6
G75.0	61.7	66.3	71.8	74.7	76.0	77.7	76.0	71.5
G76.0	58.1	62.5	68.0	71.0	72.3	73.8	72.0	67.5
G77.0	54.5	58.8	64.3	67.3	68.6	69.9	67.2	63.4
G78.0	50.9	55.2	59.8	63.6	64.2	66.1	63.2	59.4
G79.0	46.8	51.5	56.1	60.0	60.7	62.3	59.3	55.4

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	43.5	48.0	52.5	56.5	57.2	57.8	55.4	50.8
G81.0	40.4	44.5	48.9	52.2	53.8	54.0	51.5	47.0
G82.0	37.0	40.4	45.2	48.7	50.6	50.3	47.5	43.3
G83.0	33.3	36.9	41.5	45.0	46.8	46.4	43.6	39.2
G84.0	29.7	33.1	37.7	41.0	42.9	42.3	38.8	35.0
G85.0	26.0	29.3	33.1	37.0	38.2	38.2	34.5	30.8
G86.0	21.5	25.4	29.0	33.0	34.1	33.9	30.2	26.4
G87.0	17.4	21.5	25.0	28.9	29.8	29.4	25.7	20.8
G88.0	13.3	17.3	21.0	23.7	25.3	23.9	21.3	16.4
G89.0	9.6	12.8	17.2	19.7	21.2	19.8	17.2	12.5
G90.0	6.4	9.4	13.7	16.2	17.5	16.1	12.9	9.1
G91.0	4.4	6.7	10.3	13.0	13.8	13.0	9.7	6.2
G92.0	4.1	6.4	9.5	11.9	12.7	11.8	9.2	5.8
G93.0	3.9	6.1	9.4	11.8	12.6	11.6	9.1	5.7
G94.0	3.8	6.0	9.3	11.6	12.4	11.5	9.0	5.6
G95.0	3.7	5.9	9.2	11.5	12.3	11.4	8.8	5.5
G96.0	3.6	5.8	9.0	11.4	12.2	11.3	8.6	5.5
G97.0	3.5	5.7	8.9	11.3	12.1	11.1	8.4	5.4
G98.0	3.4	5.6	8.6	11.1	12.0	11.0	8.2	5.3
G99.0	3.3	5.5	8.4	11.0	11.9	10.9	7.9	5.2
G100.0	3.3	5.4	8.2	10.8	11.8	10.8	7.7	5.2
G101.0	3.2	5.3	8.0	10.6	11.7	10.6	7.5	5.2
G102.0	3.1	5.3	7.8	10.5	11.5	10.4	7.3	5.2
G103.0	3.1	5.3	7.6	10.3	11.4	10.2	7.1	5.1
G104.0	3.1	5.3	7.5	10.1	11.2	10.0	7.0	5.1
G105.0	3.1	5.3	7.4	9.9	11.0	9.9	6.8	5.1
G106.0	3.2	5.3	7.3	9.8	10.8	9.7	6.7	5.1
G107.0	3.2	5.4	7.2	9.7	10.7	9.5	6.7	5.1
G108.0	3.3	5.4	7.1	9.5	10.5	9.4	6.6	5.1
G109.0	3.3	5.4	7.0	9.4	10.4	9.3	6.7	5.1
G110.0	3.3	5.5	7.0	9.3	10.3	9.1	6.7	5.1
G111.0	3.3	5.5	7.0	9.1	10.1	9.0	6.7	5.1
G112.0	3.4	5.5	7.0	9.0	10.0	8.9	6.7	5.1
G113.0	3.4	5.6	7.0	8.9	9.8	8.8	6.7	5.1
G114.0	3.4	5.6	7.0	8.8	9.7	8.7	6.7	5.1
G115.0	3.5	5.6	7.0	8.8	9.6	8.7	6.7	5.1
G116.0	3.5	5.7	7.0	8.7	9.4	8.6	6.6	5.1
G117.0	3.5	5.7	7.0	8.6	9.3	8.6	6.6	5.1
G118.0	3.5	5.7	7.0	8.6	9.2	8.6	6.6	5.0
G119.0	3.5	5.7	7.0	8.6	9.1	8.5	6.6	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
G120.0	3.6	5.7	7.0	8.6	9.0	8.4	6.7	5.0
G121.0	3.6	5.7	7.1	8.6	8.9	8.4	6.7	4.9
G122.0	3.6	5.7	7.1	8.6	8.9	8.3	6.7	4.8
G123.0	3.7	5.6	7.1	8.5	8.5	8.2	6.8	4.8
G124.0	3.7	5.6	7.1	8.4	7.7	8.2	6.7	4.8
G125.0	3.8	5.6	7.1	8.3	7.7	8.1	6.7	4.8
G126.0	3.8	5.6	7.1	8.1	7.6	8.0	6.7	4.8
G127.0	3.8	5.5	7.1	7.8	7.6	7.9	6.6	4.8
G128.0	3.9	5.5	7.0	7.5	7.6	7.9	6.6	4.7
G129.0	3.9	5.5	7.0	7.3	7.6	7.8	6.5	4.7
G130.0	4.0	5.5	6.9	7.1	7.5	7.7	6.5	4.6
G131.0	4.0	5.5	6.9	6.9	7.5	7.7	6.4	4.6
G132.0	4.0	5.4	6.8	6.7	7.5	7.6	6.4	4.2
G133.0	4.0	5.4	6.7	6.5	7.4	7.4	6.3	3.7
G134.0	4.1	5.3	6.7	6.3	7.4	7.2	6.2	2.7
G135.0	4.1	5.3	6.6	6.1	7.3	7.1	6.2	3.1
G136.0	4.1	5.3	6.5	5.9	7.2	7.0	6.1	4.0
G137.0	4.1	5.2	6.5	5.8	7.2	6.9	6.0	3.9
G138.0	4.1	5.1	6.4	5.6	7.1	6.8	5.9	3.9
G139.0	4.1	5.1	6.3	5.4	7.0	6.6	5.8	3.9
G140.0	4.1	5.0	6.2	5.4	6.9	6.4	5.7	3.8
G141.0	4.1	4.9	6.2	5.3	6.8	6.2	5.6	3.8
G142.0	4.2	4.9	6.1	5.3	6.7	5.9	5.5	3.8
G143.0	4.2	4.8	6.1	5.3	6.6	5.7	5.3	3.8
G144.0	4.2	4.8	6.0	5.2	6.6	5.5	5.2	3.9
G145.0	4.2	4.7	5.8	5.1	6.5	5.4	5.1	4.0
G146.0	4.3	4.6	5.7	5.1	6.3	5.2	5.0	4.0
G147.0	4.3	4.6	5.6	5.0	6.0	5.2	4.9	4.0
G148.0	4.3	4.6	5.5	4.9	5.4	5.1	4.7	4.0
G149.0	4.4	4.7	5.2	4.9	5.3	5.0	4.5	4.0
G150.0	4.4	4.8	5.0	4.8	5.3	5.0	4.5	3.9
G151.0	4.5	4.8	4.8	4.7	5.5	5.0	4.6	3.9
G152.0	4.6	4.7	4.6	4.7	5.3	4.9	4.6	3.8
G153.0	4.5	4.5	4.5	4.7	5.2	4.8	4.7	3.8
G154.0	4.5	4.4	4.4	4.6	5.1	4.6	4.6	3.8
G155.0	4.4	4.3	4.3	4.5	5.0	4.5	4.4	3.9
G156.0	4.3	4.2	4.2	4.5	4.8	4.4	4.3	4.0
G157.0	4.1	4.1	4.1	4.4	4.7	4.2	4.2	4.1
G158.0	4.0	4.0	4.0	4.3	4.7	4.1	4.1	4.1
G159.0	3.9	3.9	3.9	4.4	4.5	4.0	4.1	4.0

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	3.8	3.8	3.8	4.3	4.4	3.9	4.0	3.9
G161.0	3.7	3.7	3.8	4.2	4.2	3.9	3.9	3.8
G162.0	3.6	3.6	3.7	4.1	4.1	3.8	3.8	3.7
G163.0	3.5	3.5	3.6	4.0	4.0	3.7	3.7	3.7
G164.0	3.4	3.5	3.5	3.9	3.9	3.6	3.6	3.6
G165.0	3.3	3.4	3.4	3.8	3.8	3.5	3.5	3.5
G166.0	3.3	3.4	3.4	3.7	3.7	3.5	3.4	3.4
G167.0	3.2	3.3	3.3	3.6	3.6	3.4	3.4	3.3
G168.0	3.2	3.3	3.3	3.6	3.5	3.3	3.3	3.2
G169.0	3.1	3.2	3.2	3.5	3.4	3.3	3.3	3.1
G170.0	3.1	3.1	3.2	3.4	3.4	3.3	3.3	3.1
G171.0	3.0	3.1	3.1	3.4	3.3	3.3	3.2	3.1
G172.0	3.0	3.1	3.1	3.3	3.3	3.2	3.1	3.0
G173.0	2.9	3.0	3.1	3.3	3.3	3.3	3.1	3.0
G174.0	2.9	3.0	3.1	3.3	3.3	3.2	3.0	2.9
G175.0	2.9	3.0	3.1	3.3	3.2	3.2	2.9	2.9
G176.0	2.9	2.9	3.0	3.2	3.2	3.0	2.9	2.8
G177.0	2.9	2.9	2.8	3.1	3.0	2.9	2.8	2.8
G178.0	2.9	2.8	2.8	2.9	2.9	3.0	2.9	2.9
G179.0	2.9	2.9	2.9	2.9	3.0	3.0	2.9	2.9
G180.0	2.9	2.9	2.9	3.0	3.0	3.0	2.9	2.9

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	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3
G1.0	263.3	263.4	263.3	263.2	263.1	263.0	263.0	263.0
G2.0	263.7	263.5	263.3	263.1	262.9	262.6	262.6	262.4
G3.0	263.7	263.5	263.2	262.9	262.6	262.2	262.1	262.0
G4.0	263.9	263.4	263.0	262.6	262.2	261.8	261.6	261.4
G5.0	263.8	263.3	262.8	262.3	261.7	261.3	261.0	260.8
G6.0	263.1	263.0	262.5	261.9	261.2	260.7	260.3	260.2
G7.0	263.6	262.7	262.2	261.3	260.6	259.9	259.6	259.4
G8.0	262.9	262.3	261.7	260.7	259.9	259.1	258.8	258.4
G9.0	262.4	261.8	261.1	260.0	259.1	258.3	257.9	257.4
G10.0	261.8	261.2	260.3	259.3	258.0	257.3	256.9	256.4
G11.0	261.1	260.5	259.5	258.4	257.1	256.3	255.7	255.3
G12.0	260.3	259.7	258.7	257.4	256.0	255.2	254.5	254.1
G13.0	259.5	258.6	257.7	256.2	254.8	254.0	253.2	252.8
G14.0	258.5	257.7	256.7	255.0	253.6	252.4	251.9	251.4
G15.0	257.4	256.6	255.6	253.8	252.2	251.1	250.5	249.7
G16.0	256.1	255.4	254.1	252.5	250.8	249.6	249.0	248.2
G17.0	254.8	254.1	252.8	251.1	249.0	248.0	247.4	246.5
G18.0	253.4	252.8	251.3	249.6	247.3	246.4	245.4	244.8
G19.0	252.0	251.3	249.8	248.0	245.6	244.7	243.7	243.0
G20.0	250.5	249.5	248.3	246.0	243.9	242.9	241.9	241.1
G21.0	248.8	247.8	246.6	244.2	242.0	240.7	240.0	238.8
G22.0	246.7	246.1	244.9	242.4	240.1	238.7	238.0	236.8
G23.0	244.9	244.3	242.6	240.5	237.7	236.7	235.9	234.7
G24.0	243.0	242.4	240.7	238.5	235.7	234.6	233.4	232.5
G25.0	241.0	240.4	238.7	236.5	233.5	232.5	231.2	230.3
G26.0	239.0	238.0	236.6	233.9	231.3	230.2	228.9	228.0
G27.0	236.8	235.8	234.5	231.7	229.0	227.5	226.6	225.6
G28.0	234.5	233.6	232.2	229.4	226.6	225.1	224.2	222.7
G29.0	231.8	231.3	230.0	227.1	224.2	222.7	221.8	220.2
G30.0	229.4	229.0	227.1	224.7	221.3	220.2	219.3	217.6
G31.0	226.8	226.6	224.7	222.2	218.7	217.7	216.2	215.0
G32.0	224.2	223.5	222.2	219.7	216.1	215.1	213.6	212.4
G33.0	221.6	220.9	219.6	216.5	213.5	212.5	210.9	209.7
G34.0	218.9	218.3	217.0	213.9	210.8	209.2	208.2	206.3
G35.0	215.7	215.6	214.3	211.2	208.0	206.5	205.4	203.6
G36.0	212.8	212.8	211.0	208.4	204.6	203.7	202.6	200.7
G37.0	210.0	210.0	208.2	205.6	201.7	200.8	199.1	197.8
G38.0	207.0	207.1	205.3	202.7	198.8	197.9	196.1	194.8
G39.0	204.1	203.6	202.4	199.2	195.9	195.0	193.2	191.8

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
G40.0	201.1	200.6	199.4	196.2	192.9	191.4	190.2	188.2
G41.0	197.3	197.5	196.4	193.2	189.8	188.3	187.1	185.1
G42.0	194.2	194.4	193.3	190.1	186.7	185.3	184.0	181.9
G43.0	191.0	191.2	189.5	187.0	183.0	182.1	180.9	178.8
G44.0	187.7	188.0	186.3	183.8	179.8	179.0	177.1	175.6
G45.0	184.4	184.1	183.1	180.0	176.5	175.8	173.9	172.3
G46.0	181.0	180.7	179.8	176.7	173.3	171.9	170.6	169.0
G47.0	177.6	177.3	176.5	173.4	170.0	168.6	167.3	165.0
G48.0	173.5	173.9	173.2	170.0	166.6	165.3	164.0	161.7
G49.0	170.0	170.5	169.1	166.7	163.3	162.0	160.6	158.3
G50.0	166.4	167.0	165.7	163.3	159.2	158.6	156.6	154.9
G51.0	162.8	162.7	162.2	159.9	155.8	155.2	153.2	151.4
G52.0	159.2	159.1	158.6	155.6	152.3	151.7	149.7	147.9
G53.0	155.5	155.4	155.1	152.1	148.7	147.6	146.2	144.4
G54.0	151.8	151.7	151.5	148.6	145.2	144.1	142.7	140.2
G55.0	147.2	148.0	147.8	145.0	141.7	140.6	139.2	136.6
G56.0	143.4	144.3	143.4	141.4	137.4	137.0	134.9	133.0
G57.0	139.6	140.4	139.7	137.7	133.7	133.4	131.2	129.3
G58.0	135.7	135.8	135.9	134.0	130.1	129.8	127.6	125.6
G59.0	131.7	132.0	132.2	129.6	126.4	126.1	124.0	122.0
G60.0	127.8	128.1	128.4	125.9	122.7	121.8	120.3	117.5
G61.0	123.0	124.1	124.5	122.1	119.0	118.1	116.6	113.7
G62.0	118.9	120.1	119.9	118.4	114.5	114.4	112.8	110.0
G63.0	114.9	116.1	116.0	114.6	110.8	110.6	108.3	106.2
G64.0	110.8	112.1	112.1	110.8	107.0	106.9	104.6	102.4
G65.0	106.8	107.2	108.1	106.2	103.3	103.2	100.8	98.6
G66.0	102.7	103.1	104.1	102.3	99.5	98.7	97.0	94.0
G67.0	98.5	99.0	100.2	98.5	95.7	94.9	93.2	90.1
G68.0	93.6	94.9	96.2	94.7	91.9	91.2	89.3	86.3
G69.0	89.4	90.9	91.4	90.8	87.4	87.4	85.5	82.5
G70.0	85.3	86.8	87.4	87.0	83.6	83.7	81.0	78.7
G71.0	81.2	81.8	83.3	83.2	79.9	79.9	77.2	74.8
G72.0	77.1	77.7	79.3	78.6	76.1	76.2	73.3	71.0
G73.0	73.0	73.6	75.3	74.7	72.4	71.7	69.6	66.5
G74.0	68.1	69.6	71.4	71.0	68.8	68.0	65.8	62.8
G75.0	64.1	65.6	66.6	67.3	64.5	64.3	62.1	59.1
G76.0	60.2	61.6	62.7	63.5	61.0	60.7	57.6	55.4
G77.0	56.2	57.6	58.8	59.9	57.6	57.1	54.0	51.8
G78.0	52.4	52.9	54.9	55.6	54.3	53.5	50.3	48.2
G79.0	48.7	49.0	51.2	52.1	51.1	49.4	46.8	44.1

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
G80.0	45.1	45.1	47.4	48.5	47.9	45.9	43.2	40.7
G81.0	40.8	41.5	42.8	44.8	44.2	42.3	39.6	37.4
G82.0	36.7	37.4	38.8	40.8	39.7	38.4	36.0	33.6
G83.0	32.6	33.3	34.8	36.8	35.9	34.5	31.4	29.9
G84.0	28.5	28.2	30.6	32.7	32.0	30.7	27.6	26.2
G85.0	24.2	23.9	26.3	27.4	27.7	25.9	23.7	22.4
G86.0	19.4	19.3	21.9	23.1	23.5	21.9	19.8	17.5
G87.0	14.2	15.1	17.8	19.2	19.7	18.1	16.1	13.5
G88.0	10.4	11.4	13.6	15.8	15.8	14.8	12.6	10.0
G89.0	7.1	8.3	10.6	12.9	13.3	12.0	9.2	6.9
G90.0	4.6	6.4	9.9	12.4	13.1	11.6	8.6	5.4
G91.0	4.4	6.2	9.8	12.3	13.0	11.4	8.3	5.0
G92.0	4.3	6.1	9.7	12.2	12.9	11.3	8.2	4.7
G93.0	4.2	6.0	9.6	12.1	12.8	11.2	8.1	4.6
G94.0	4.1	5.9	9.5	12.0	12.7	11.0	7.9	4.4
G95.0	4.0	5.8	9.4	12.0	12.6	10.9	7.7	4.3
G96.0	4.0	5.7	9.2	11.9	12.5	10.8	7.6	4.1
G97.0	3.9	5.5	9.1	11.8	12.5	10.7	7.4	4.0
G98.0	3.8	5.4	8.9	11.7	12.4	10.5	7.2	3.8
G99.0	3.7	5.3	8.7	11.6	12.3	10.4	6.9	3.8
G100.0	3.6	5.2	8.5	11.4	12.2	10.2	6.7	3.7
G101.0	3.5	5.1	8.3	11.3	12.0	10.1	6.4	3.7
G102.0	3.5	5.0	8.1	11.1	11.9	9.9	6.2	3.7
G103.0	3.4	4.9	7.9	10.9	11.7	9.7	6.0	3.7
G104.0	3.3	4.8	7.7	10.7	11.5	9.5	5.9	3.7
G105.0	3.3	4.8	7.5	10.5	11.3	9.3	5.8	3.7
G106.0	3.3	4.8	7.3	10.2	11.1	9.1	5.7	3.8
G107.0	3.3	4.8	7.2	10.0	10.8	9.0	5.7	3.8
G108.0	3.3	4.8	7.1	9.9	10.6	8.9	5.6	3.8
G109.0	3.3	4.8	7.0	9.7	10.5	8.7	5.6	3.9
G110.0	3.3	4.8	6.9	9.5	10.3	8.6	5.6	3.9
G111.0	3.4	4.8	6.8	9.4	10.1	8.5	5.5	3.9
G112.0	3.4	4.8	6.7	9.3	9.9	8.4	5.5	4.0
G113.0	3.4	4.9	6.6	9.1	9.7	8.3	5.5	4.0
G114.0	3.4	4.9	6.5	9.0	9.6	8.2	5.6	4.0
G115.0	3.4	4.9	6.5	8.9	9.4	8.1	5.6	4.1
G116.0	3.4	4.9	6.5	8.7	9.3	8.0	5.6	4.1
G117.0	3.4	4.9	6.5	8.6	9.1	7.9	5.7	4.1
G118.0	3.4	4.8	6.5	8.5	9.0	7.8	5.7	4.1
G119.0	3.4	4.8	6.4	8.4	8.9	7.7	5.7	4.1

C Plane : 0.0-360.0:22.5

Gamma : 0.0-180.0:1.0

Test Lab : TB

Measurement System : GMS-5000 (E412011U)

Test Type : Type C

Test Distance : 5.751 m

Temperature : 25.0°C

Humidity : 65.0%

Test By : ZK

Review By :TMI

Light Distribution Data

Unit: cd

G\C	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G120.0	3.4	4.8	6.4	8.3	8.7	7.6	5.8	4.1
G121.0	3.4	4.8	6.4	8.2	8.6	7.6	5.8	4.1
G122.0	3.5	4.8	6.4	8.2	7.6	7.5	5.9	4.1
G123.0	3.5	4.8	6.4	8.1	7.3	7.4	5.9	4.1
G124.0	3.5	4.7	6.4	8.0	7.3	7.4	5.9	4.1
G125.0	3.5	4.7	6.4	7.9	7.2	7.3	5.9	4.1
G126.0	3.5	4.7	6.4	7.8	7.2	7.2	5.9	4.0
G127.0	3.5	4.6	6.4	7.7	7.2	7.2	5.9	4.0
G128.0	3.3	4.6	6.3	7.6	7.2	7.2	5.9	4.0
G129.0	2.8	4.5	6.3	7.4	7.1	7.2	5.8	4.0
G130.0	3.1	4.5	6.2	7.2	7.1	7.2	5.8	4.0
G131.0	3.6	4.5	6.2	7.0	7.1	7.1	5.8	4.0
G132.0	3.6	4.4	6.1	6.8	7.0	7.1	5.7	4.0
G133.0	3.6	4.4	6.0	6.6	7.0	6.9	5.6	4.0
G134.0	3.6	4.3	6.0	6.4	6.9	6.8	5.6	3.9
G135.0	3.7	4.3	5.9	6.2	6.9	6.6	5.5	3.9
G136.0	3.7	4.3	5.8	6.1	6.8	6.3	5.5	3.9
G137.0	3.7	4.2	5.7	5.9	6.7	6.2	5.4	3.9
G138.0	3.7	4.2	5.6	5.8	6.7	6.0	5.3	3.9
G139.0	3.7	4.1	5.4	5.7	6.6	5.8	5.3	4.0
G140.0	3.7	4.1	5.2	5.6	6.5	5.6	5.2	4.0
G141.0	3.7	4.0	5.0	5.6	6.5	5.4	5.1	4.0
G142.0	3.7	4.0	5.0	5.6	6.4	5.2	5.0	3.9
G143.0	3.7	3.9	5.1	5.5	6.3	4.9	4.9	3.9
G144.0	3.7	3.9	5.1	5.4	6.2	4.8	4.9	3.9
G145.0	3.7	3.9	5.0	5.3	6.1	4.7	4.9	3.9
G146.0	3.7	3.9	5.0	5.2	5.9	4.6	4.8	3.9
G147.0	3.7	3.9	5.0	5.1	5.2	4.5	4.8	3.9
G148.0	3.7	3.8	5.1	5.0	5.0	4.6	4.6	3.8
G149.0	3.7	3.8	5.0	4.8	4.9	4.5	4.4	3.9
G150.0	3.7	3.8	4.8	4.6	5.2	4.4	4.2	4.0
G151.0	3.7	3.7	4.6	4.6	5.2	4.3	4.0	4.1
G152.0	3.7	3.7	4.5	4.6	5.2	4.2	3.9	4.2
G153.0	3.7	3.7	4.3	4.5	5.1	4.1	3.9	4.2
G154.0	3.6	3.8	4.2	4.4	5.0	4.1	3.8	4.1
G155.0	3.7	4.0	4.1	4.3	4.8	3.9	3.7	3.9
G156.0	3.8	4.1	4.0	4.2	4.7	3.8	3.7	3.8
G157.0	3.9	4.0	3.9	4.1	4.5	3.7	3.6	3.7
G158.0	3.9	3.9	3.8	4.0	4.4	3.7	3.5	3.6
G159.0	3.8	3.8	3.8	3.9	4.3	3.6	3.4	3.5

C Plane : 0.0-360.0:22.5

Test Lab : TB

Test Type : Type C

Test By : ZK

Test Distance : 5.751 m

Gamma : 0.0-180.0:1.0

Measurement System : GMS-5000 (E412011U)

Temperature : 25.0°C

Humidity : 65.0%

Review By :TMI

Light Distribution Data

Unit: cd

G\C	C180.0	C202.5	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5
G160.0	3.7	3.7	3.7	3.8	4.1	3.5	3.4	3.4
G161.0	3.7	3.6	3.6	3.7	4.0	3.5	3.3	3.3
G162.0	3.6	3.5	3.5	3.6	3.9	3.4	3.2	3.2
G163.0	3.5	3.4	3.4	3.6	3.8	3.3	3.2	3.2
G164.0	3.4	3.3	3.3	3.5	3.6	3.3	3.1	3.1
G165.0	3.3	3.3	3.3	3.4	3.5	3.2	3.1	3.1
G166.0	3.2	3.2	3.2	3.3	3.4	3.1	3.0	3.0
G167.0	3.2	3.1	3.2	3.3	3.3	3.1	3.0	3.0
G168.0	3.1	3.0	3.1	3.2	3.3	3.0	2.9	3.0
G169.0	3.1	3.0	3.1	3.1	3.2	3.0	2.9	2.9
G170.0	3.0	2.9	3.0	3.1	3.2	2.9	2.9	2.9
G171.0	3.0	2.9	3.0	3.1	3.1	2.9	2.9	2.9
G172.0	3.0	2.9	3.0	3.0	3.1	2.9	2.8	2.9
G173.0	3.0	2.9	3.0	3.0	3.0	2.9	2.8	2.9
G174.0	3.0	2.9	2.9	2.9	3.0	2.8	2.8	2.8
G175.0	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8
G176.0	2.9	2.8	2.9	2.9	2.9	2.8	2.8	2.8
G177.0	2.9	2.9	3.0	3.0	2.9	2.8	2.9	2.9
G178.0	2.8	2.9	3.0	3.0	3.0	2.8	2.9	2.9
G179.0	2.9	2.9	3.0	2.9	3.1	2.9	3.0	2.9
G180.0	2.9	2.9	2.9	2.9	3.0	3.0	3.0	2.9