



ATC MIDDLE EAST FZCO



 rafeed[®]
LED
E series

2022

OUR BEAUTIFUL WORLD WITH
LIGHTS.

Report No.: TH-916A

Test Time: 2020/3/7 17:26

Luminaire Property

Luminaire Manufacturer: ATC
 Luminaire Description: RFE-40W-6000K
 Luminous Width (mm): -175
 Current: 0.181 A
 Power Factor: 0.963

Luminous Length (mm): -175
 Voltage: 220V
 Power: 38.25 W

Photometric Results

CIE Class: Direct
 Measurement Flux: 3278.4 lm
 Downward Ratio: 99%
 Horizontal Diffuse Angle(50%): H123.8
 Vertical Diffuse Angle(50%): V123.7
 Luminaire Efficacy Rating (LER): 85.76
 Max. Intensity: 994.23 cd
 S/MH(C0/C180): 1.64

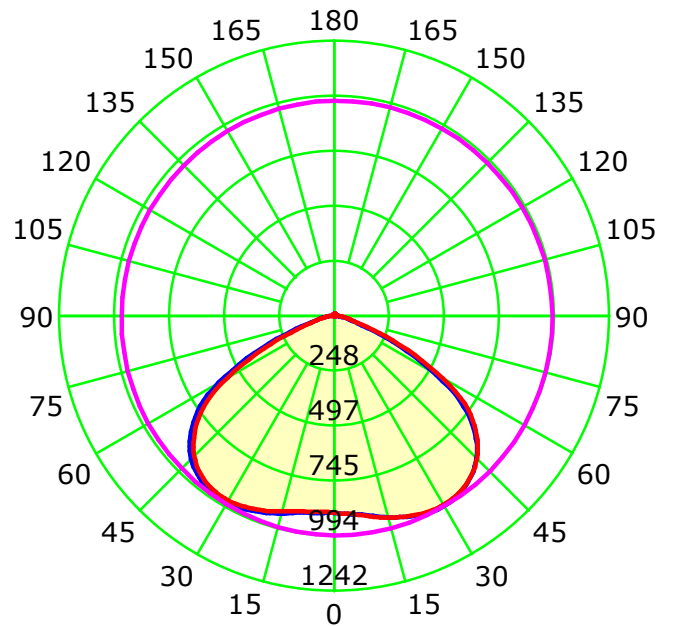
Total Rated Lamp Lumens: 3278.4 lm
 Efficiency: 100%
 Upward Ratio: 1%

Central Intensity: 890.63 cd
 Pos of Max. Intensity: H45 V29
 S/MH(C90/C270): 1.63

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

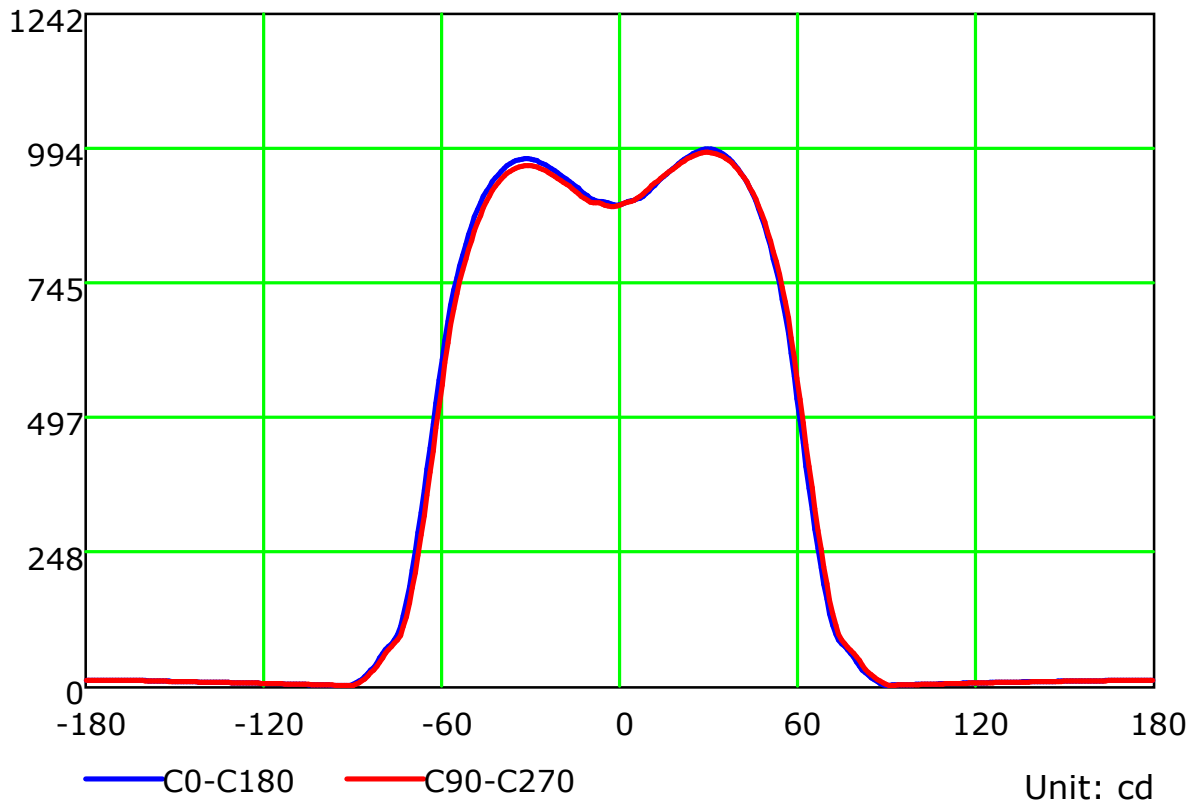
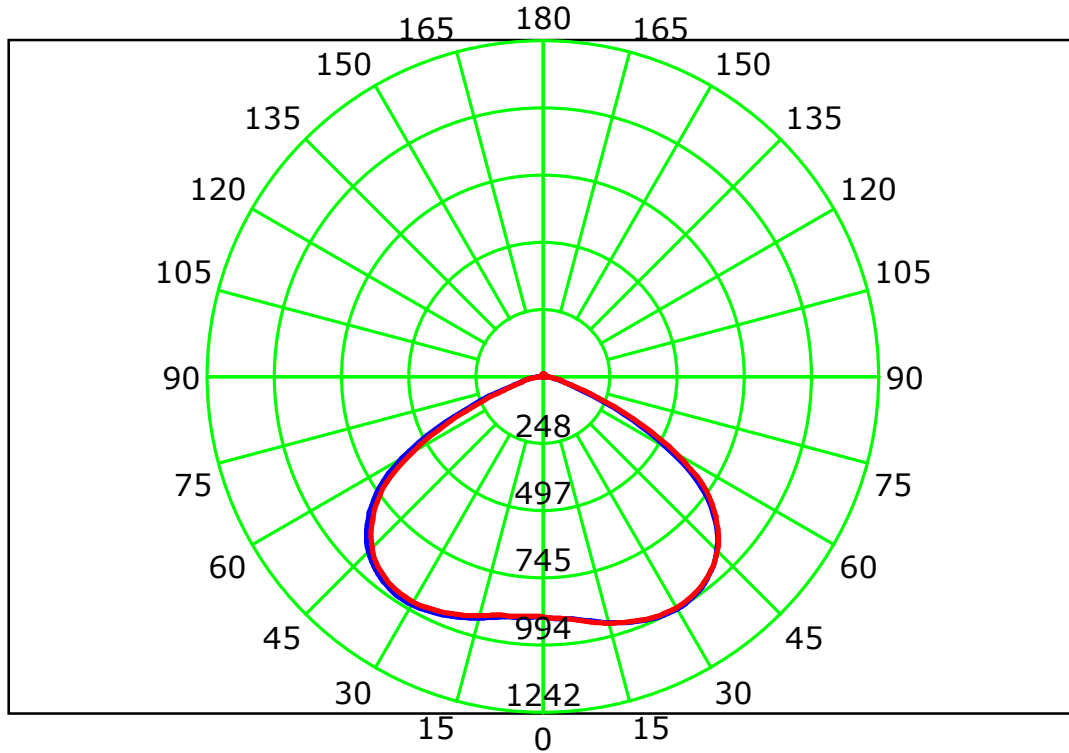
Average Diffuse Angle(50%): 123.5°

— C0-C180 — C90-C270 — G29

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: ATC

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Luminous Intensity Distribution Curve



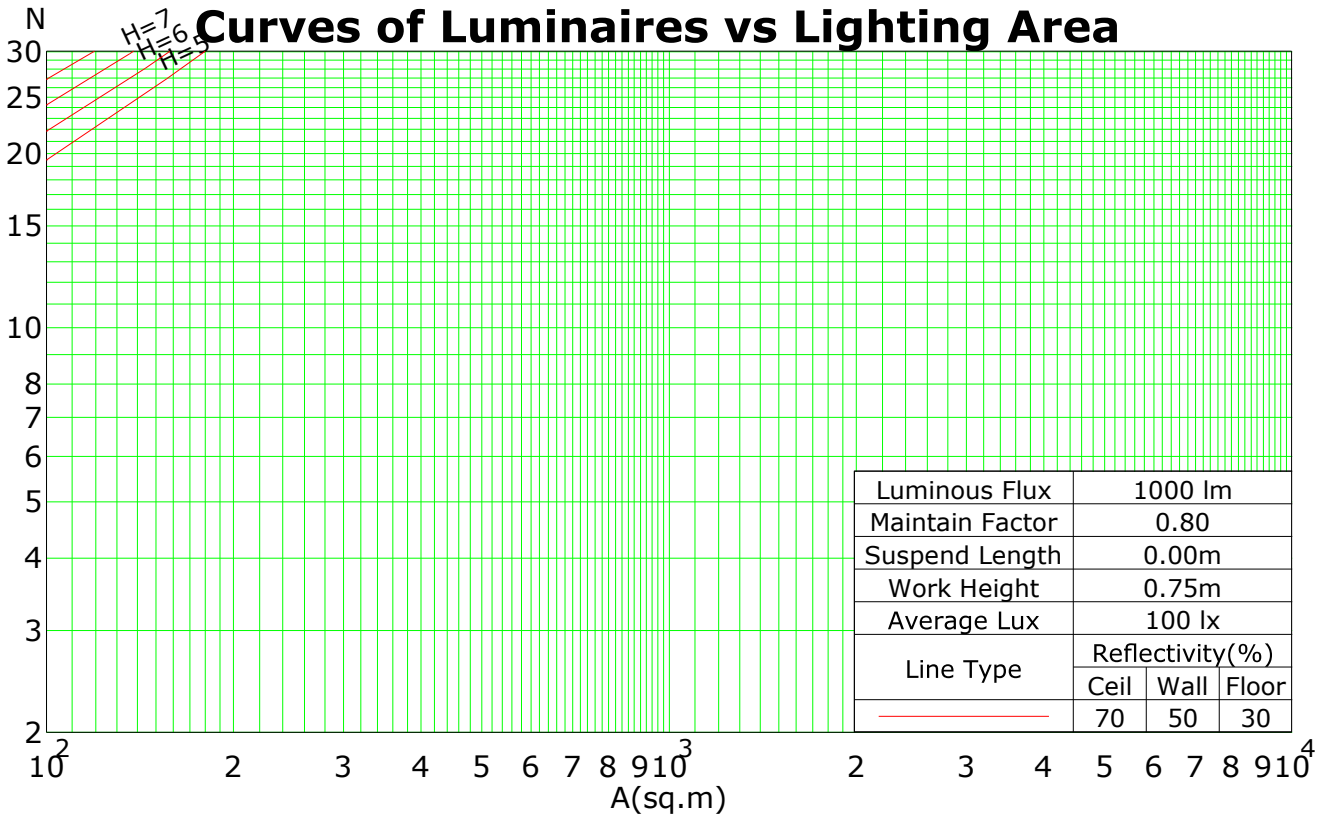
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Coefficients Of Utilization - Zonal Cavity Method

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
RCCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	90	88	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	62	57	53	51
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	28	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

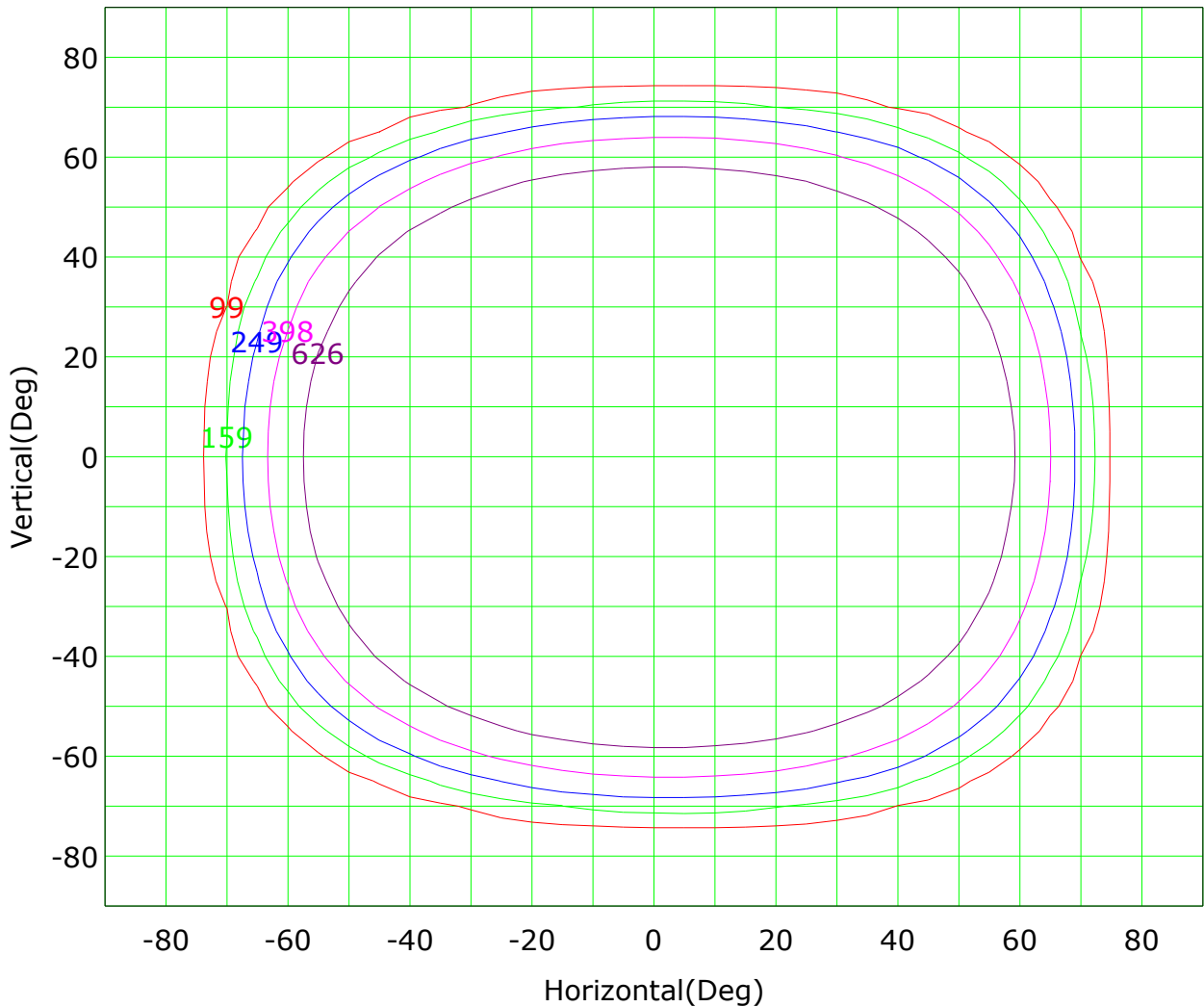
Spacing Criteria (0-180): 1.64
 Spacing Criteria (90-270): 1.63
 Spacing Criteria (Diagonal): 1.68



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 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Isocandela (rectangle)



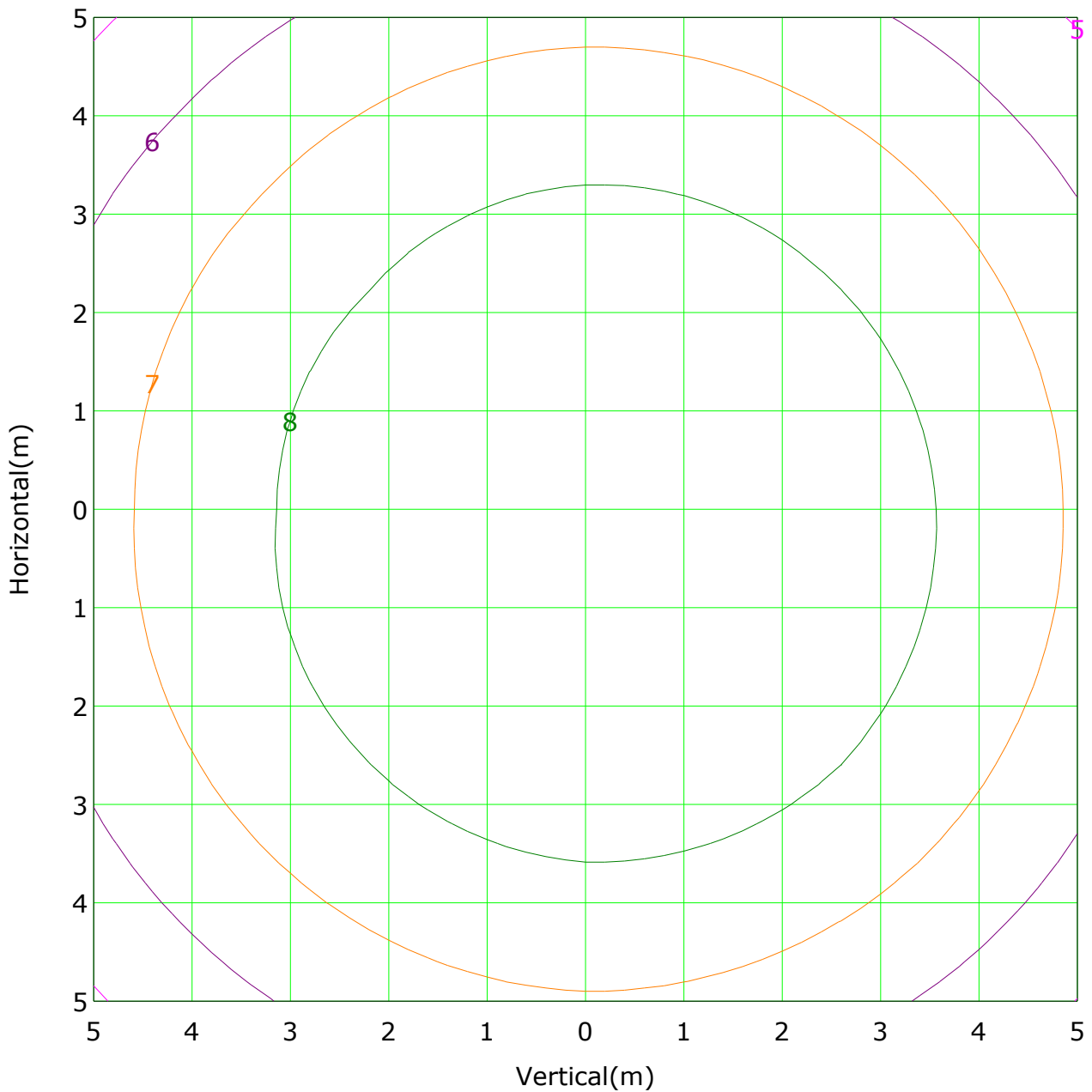
Imax (100%): 994 cd

- | | |
|------------------|------------------|
| — (10%): 99 cd | — (16%): 159 cd |
| — (25%): 249 cd | — (40%): 398 cd |
| — (63%): 626 cd | — (100%): 994 cd |

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 Test Device: GPM-1800B
 Distance: 8.499 m
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 Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 8.9 lx
— (30%): 2.7 lx	— (40%): 3.6 lx	
— (50%): 4.5 lx	— (60%): 5.4 lx	
— (70%): 6.3 lx	— (80%): 7.2 lx	
— (90%): 8.0 lx	— (100%): 8.9 lx	
— (120%): 10.7 lx	— (150%): 13.4 lx	

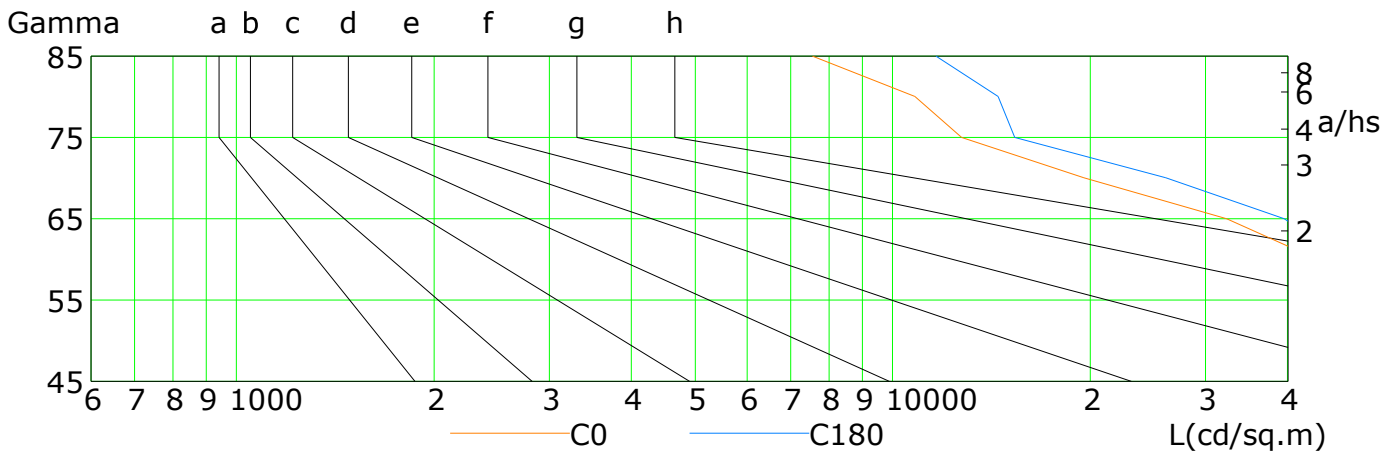
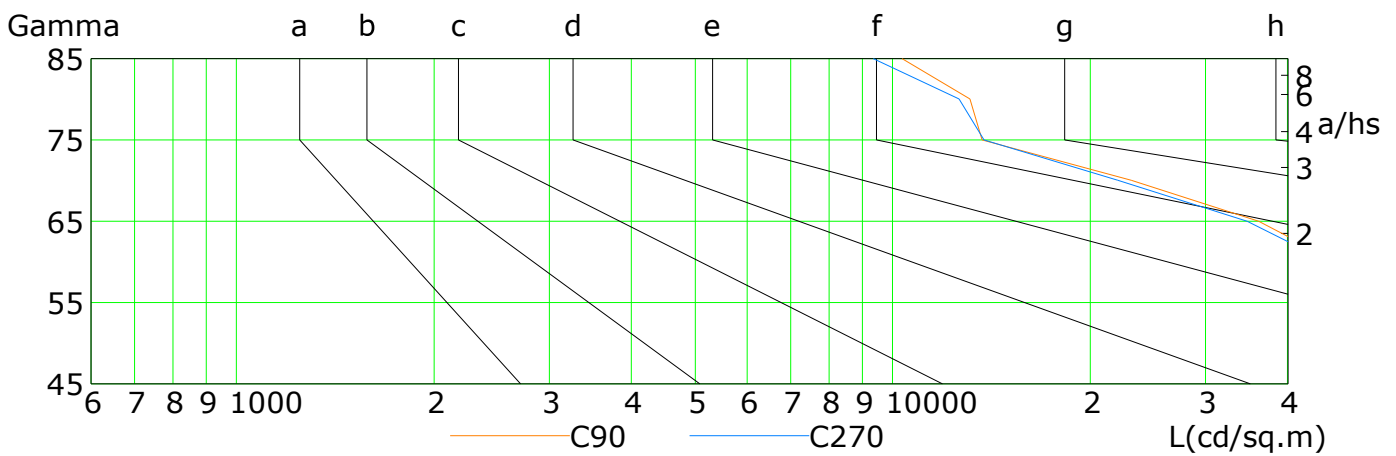
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 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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

a b c d e f g h

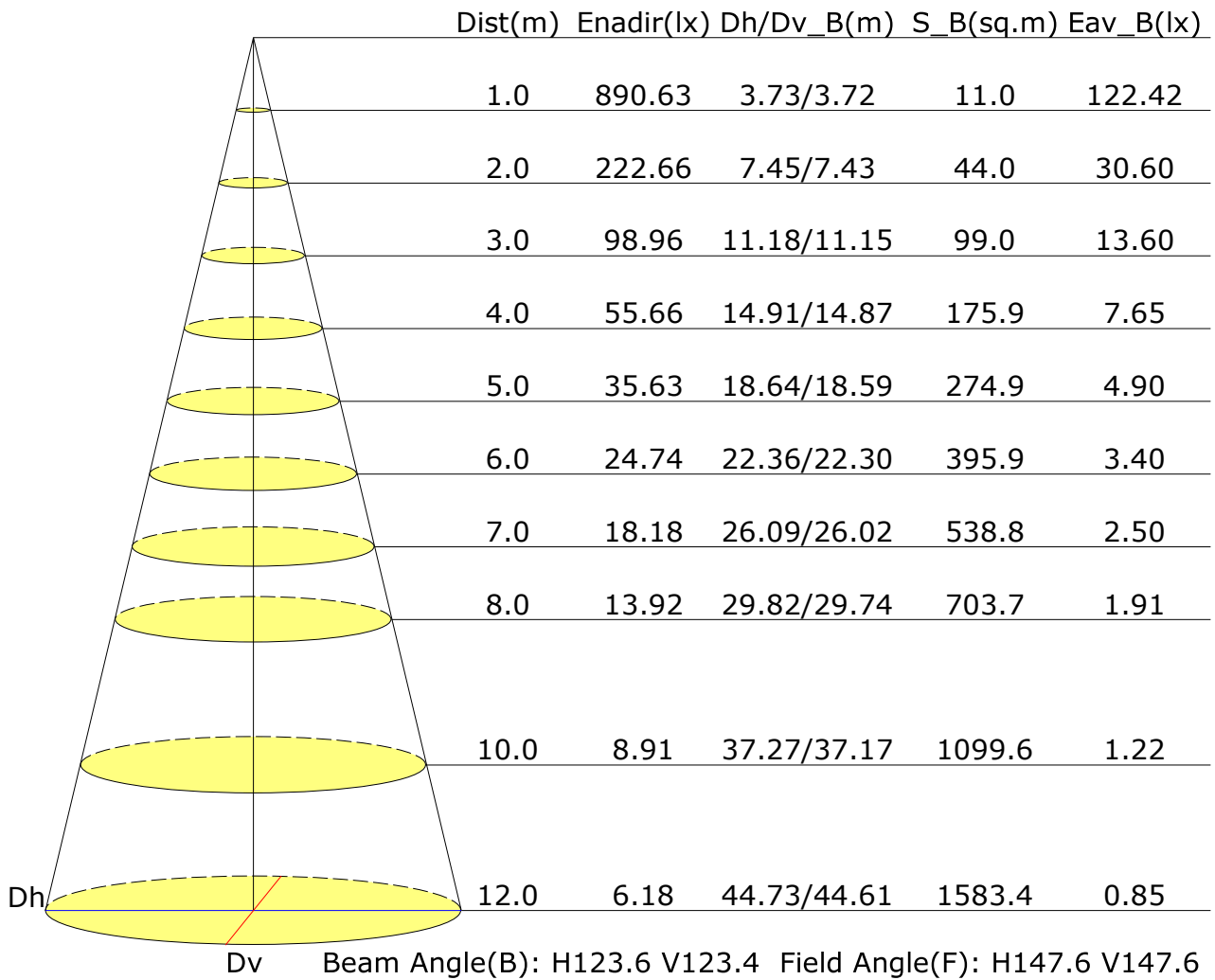


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	53516	53833	51894	44281	32245	19583	12733	10817	7556
C90	53670	54360	53496	47408	36110	23086	13689	13120	10332
C180	53839	55044	54819	50248	39514	26064	15339	14487	11644
C270	52710	53346	52630	46282	34703	22038	13792	12634	9335

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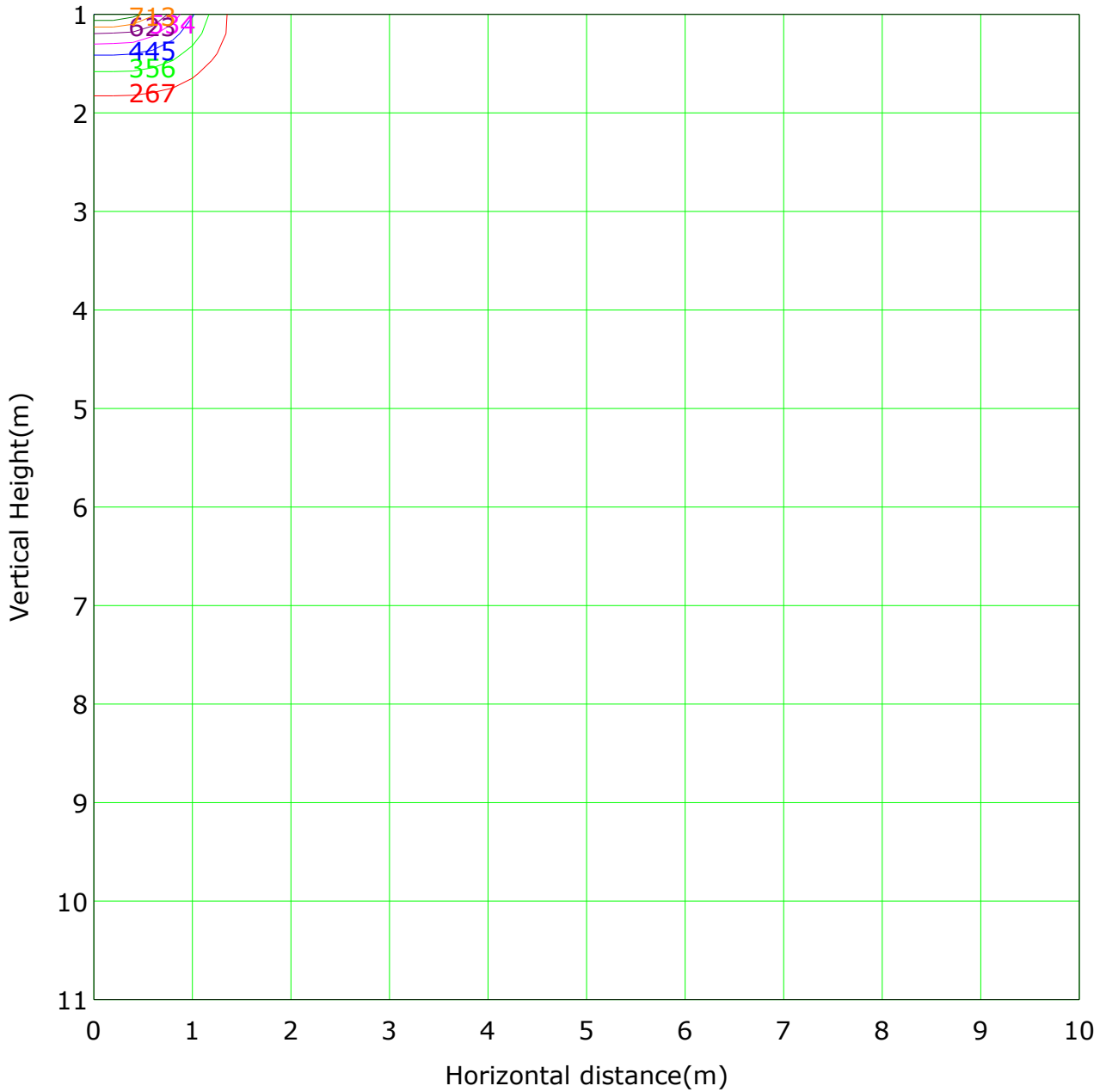
Illuminance at a Distance



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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 890.6 lx
— (30%): 267.2 lx	— (40%): 356.3 lx	— (60%): 534.4 lx
— (50%): 445.3 lx	— (80%): 712.5 lx	— (100%): 890.6 lx
— (70%): 623.4 lx	— (120%): 1068.8 lx	— (150%): 1335.9 lx
— (90%): 801.6 lx		

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 Humidity: 65
 Inspector:

Area Flux Table

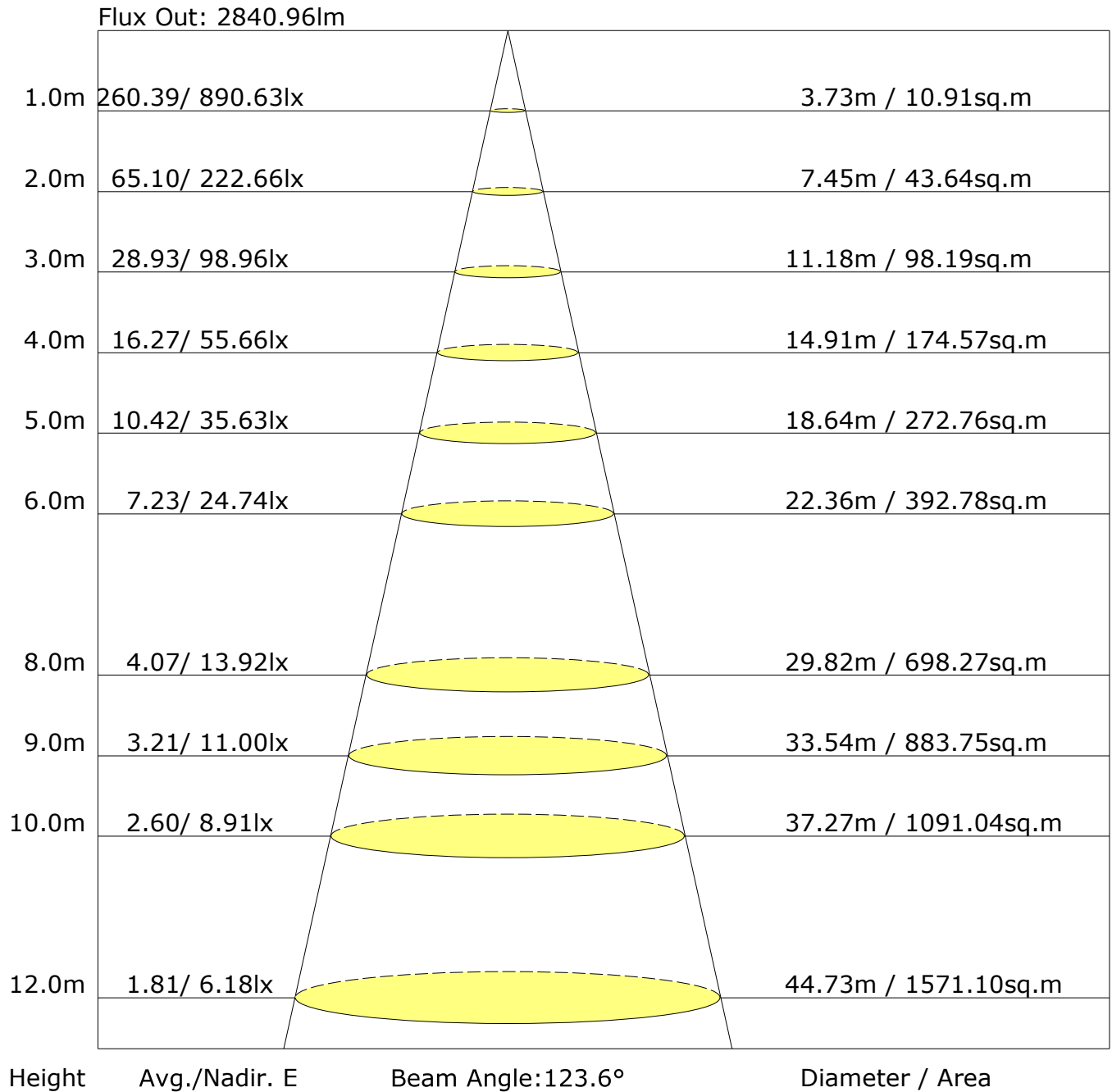
Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.1	0.1	0.2	0.4	0.5	0.6	0.7	0.7	0.6	0.6	0.6	0.5	0.3	0.2	0.1	0.1	0.0	0.0	1.0	0.0
	-80	0.0	0.1	0.4	0.8	1.3	1.8	2.3	2.8	3.0	2.9	2.5	2.0	1.5	1.0	0.6	0.3	0.1	0.0	0.0	9.1	0.0
	-70	0.0	0.3	0.8	1.6	3.1	5.4	7.9	9.9	10.9	10.6	9.2	6.9	4.3	2.4	1.3	0.6	0.2	0.0	0.0	43.6	0.0
	-60	0.0	0.4	1.2	3.4	7.6	12.6	17.1	20.1	21.5	21.4	19.5	16.0	11.0	6.1	2.5	1.0	0.3	0.0	0.0	116.7	0.0
	-50	0.1	0.5	1.9	6.2	12.7	18.6	22.8	25.6	27.0	26.9	25.4	22.4	17.6	11.2	5.1	1.5	0.4	0.0	0.0	196.9	0.0
	-40	0.1	0.6	3.0	9.1	16.1	21.6	25.5	27.9	29.0	29.0	28.0	25.4	21.3	15.3	7.9	2.3	0.5	0.0	0.0	313.9	0.0
	-30	0.1	0.7	4.1	11.2	18.1	23.2	26.5	28.2	28.9	29.0	28.5	26.7	23.1	17.6	10.2	3.2	0.6	0.1	0.1	342.9	0.0
	-20	0.1	0.9	4.9	12.4	19.1	23.8	26.6	27.6	27.9	28.1	28.1	27.0	24.0	18.8	11.6	4.0	0.7	0.1	0.1	344.1	0.0
	-10	0.1	0.9	5.3	13.0	19.5	24.1	26.5	27.2	27.1	27.3	27.7	27.0	24.4	19.4	12.3	4.4	0.7	0.1	0.1	355.3	0.0
	0	0.1	0.9	5.3	13.0	19.6	24.1	26.6	27.4	27.4	27.6	27.9	27.2	24.4	19.4	12.3	4.4	0.7	0.1	0.1	341.9	0.0
	10	0.1	0.9	4.9	12.5	19.2	24.0	26.9	28.2	28.6	28.8	28.7	27.3	24.1	18.9	11.6	4.0	0.7	0.1	0.1	342.2	0.0
	20	0.1	0.8	4.1	11.3	18.2	23.4	26.8	28.8	29.6	29.8	29.1	27.1	23.3	17.7	10.2	3.3	0.6	0.1	0.1	342.8	0.0
	30	0.1	0.6	3.1	9.2	16.3	21.9	25.9	28.3	29.5	29.6	28.4	25.8	21.5	15.5	8.0	2.3	0.5	0.1	0.1	342.2	0.0
	40	0.1	0.5	2.0	6.4	12.9	18.9	23.2	26.0	27.4	27.4	25.9	22.7	17.9	11.4	5.2	1.5	0.4	0.0	0.0	348.8	0.0
	50	0.0	0.4	1.2	3.5	7.8	12.9	17.4	20.4	21.9	21.7	19.9	16.3	11.3	6.3	2.6	1.0	0.3	0.0	0.0	348.8	0.0
	60	0.0	0.3	0.8	1.6	3.3	5.7	8.2	10.2	11.2	10.9	9.5	7.1	4.5	2.4	1.3	0.6	0.2	0.0	0.0	348.8	0.0
	70	0.0	0.2	0.4	0.9	1.4	1.9	2.4	2.8	3.0	2.9	2.6	2.1	1.6	1.1	0.6	0.3	0.1	0.0	0.0	348.8	0.0
	80	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.7	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	0.0	0.0	348.8	0.0
	90	1.0	9.1	43.6	116.7	196.9	265.0	313.9	342.9	355.3	355.3	341.9	310.1	256.8	185.3	103.5	34.8	7.0	0.7	0.0	3240	3166

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The Average Illuminance Effective Figure



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UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	26.4	27.8	26.7	28.0	28.3	26.5	27.9	26.8	28.1	28.4
3H	26.9	28.1	27.2	28.4	28.7	27.1	28.3	27.4	28.6	28.9
4H	26.9	28.1	27.3	28.4	28.7	27.1	28.3	27.5	28.6	28.9
6H	26.9	28.0	27.3	28.3	28.7	27.2	28.2	27.5	28.6	28.9
8H	26.9	27.9	27.3	28.3	28.6	27.2	28.2	27.6	28.5	28.9
12H	26.9	27.9	27.3	28.2	28.6	27.2	28.1	27.5	28.5	28.8
X=4H Y=2H	26.8	27.9	27.1	28.2	28.6	26.9	28.0	27.2	28.3	28.7
3H	27.3	28.3	27.7	28.6	29.0	27.5	28.5	27.9	28.8	29.2
4H	27.4	28.3	27.8	28.6	29.0	27.6	28.5	28.0	28.9	29.2
6H	27.5	28.2	27.9	28.6	29.1	27.7	28.5	28.1	28.9	29.3
8H	27.5	28.2	27.9	28.6	29.0	27.7	28.4	28.2	28.8	29.3
12H	27.5	28.1	27.9	28.5	29.0	27.7	28.3	28.2	28.8	29.2
X=8H Y=4H	27.4	28.1	27.8	28.5	29.0	27.6	28.3	28.0	28.7	29.2
6H	27.5	28.1	28.0	28.5	29.0	27.7	28.3	28.2	28.7	29.2
8H	27.5	28.0	28.0	28.5	29.0	27.8	28.3	28.3	28.7	29.2
12H	27.5	28.0	28.1	28.5	29.0	27.8	28.2	28.3	28.7	29.2
X=12H Y=4H	27.4	28.0	27.8	28.4	28.9	27.6	28.2	28.0	28.6	29.1
6H	27.5	28.0	28.0	28.5	29.0	27.7	28.2	28.2	28.7	29.2
8H	27.5	28.0	28.0	28.4	29.0	27.8	28.2	28.3	28.7	29.2
Variations with the observer position at spacings:										
S=1.0H						+0.2/-0.2				
S=1.5H						+0.8/-1.1				
S=2.0H						+1.7/-3.0				

Calculate in accordance with CIE Pub.117. The table is revised with 3278lm ($8\log(F/F_0) = 4.1$).

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 Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	890.2	0.9	0.9	0.03	0.03
1.0-2.0	890.9	2.6	3.4	0.08	0.10
2.0-3.0	892.1	4.3	7.7	0.13	0.23
3.0-4.0	893.3	6.0	13.7	0.18	0.42
4.0-5.0	894.8	7.7	21.4	0.23	0.65
5.0-6.0	896.6	9.4	30.8	0.29	0.94
6.0-7.0	898.8	11.2	41.9	0.34	1.28
7.0-8.0	901.1	12.9	54.8	0.39	1.67
8.0-9.0	903.9	14.7	69.5	0.45	2.12
9.0-10.0	907.2	16.4	85.9	0.50	2.62
10.0-11.0	911.0	18.2	104.1	0.56	3.18
11.0-12.0	915.4	20.0	124.1	0.61	3.79
12.0-13.0	920.0	21.8	146.0	0.67	4.45
13.0-14.0	924.8	23.7	169.6	0.72	5.17
14.0-15.0	929.6	25.5	195.2	0.78	5.95
15.0-16.0	934.1	27.4	222.5	0.84	6.79
16.0-17.0	938.5	29.2	251.8	0.89	7.68
17.0-18.0	942.9	31.1	282.9	0.95	8.63
18.0-19.0	947.1	33.0	315.8	1.01	9.63
19.0-20.0	951.0	34.8	350.6	1.06	10.70
20.0-21.0	955.0	36.7	387.3	1.12	11.81
21.0-22.0	958.9	38.5	425.8	1.18	12.99
22.0-23.0	962.6	40.4	466.2	1.23	14.22
23.0-24.0	966.0	42.2	508.5	1.29	15.51
24.0-25.0	969.2	44.1	552.5	1.34	16.85
25.0-26.0	972.0	45.9	598.4	1.40	18.25
26.0-27.0	974.4	47.7	646.1	1.45	19.71
27.0-28.0	976.3	49.4	695.5	1.51	21.22
28.0-29.0	977.9	51.2	746.7	1.56	22.78
29.0-30.0	978.9	52.9	799.6	1.61	24.39
30.0-31.0	979.1	54.5	854.1	1.66	26.05
31.0-32.0	978.8	56.1	910.2	1.71	27.76
32.0-33.0	977.9	57.6	967.8	1.76	29.52
33.0-34.0	976.4	59.1	1026.9	1.80	31.32
34.0-35.0	974.2	60.5	1087.4	1.85	33.17
35.0-36.0	971.3	61.9	1149.2	1.89	35.06

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Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	967.8	63.1	1212.4	1.93	36.98
37.0-38.0	963.6	64.3	1276.7	1.96	38.94
38.0-39.0	958.8	65.5	1342.2	2.00	40.94
39.0-40.0	953.3	66.5	1408.7	2.03	42.97
40.0-41.0	946.9	67.4	1476.1	2.06	45.03
41.0-42.0	939.8	68.3	1544.4	2.08	47.11
42.0-43.0	931.9	69.0	1613.4	2.11	49.21
43.0-44.0	922.9	69.7	1683.1	2.13	51.34
44.0-45.0	912.9	70.2	1753.3	2.14	53.48
45.0-46.0	902.2	70.6	1823.8	2.15	55.63
46.0-47.0	890.0	70.8	1894.6	2.16	57.79
47.0-48.0	876.2	70.8	1965.4	2.16	59.95
48.0-49.0	861.2	70.7	2036.2	2.16	62.11
49.0-50.0	844.7	70.4	2106.6	2.15	64.26
50.0-51.0	827.3	70.0	2176.6	2.14	66.39
51.0-52.0	808.8	69.4	2246.0	2.12	68.51
52.0-53.0	789.0	68.6	2314.7	2.09	70.60
53.0-54.0	767.7	67.7	2382.3	2.06	72.67
54.0-55.0	744.5	66.5	2448.8	2.03	74.70
55.0-56.0	718.7	65.0	2513.8	1.98	76.68
56.0-57.0	690.0	63.1	2576.9	1.92	78.60
57.0-58.0	657.8	60.8	2637.7	1.86	80.46
58.0-59.0	621.8	58.1	2695.8	1.77	82.23
59.0-60.0	583.1	55.1	2750.9	1.68	83.91
60.0-61.0	543.8	51.9	2802.8	1.58	85.50
61.0-62.0	503.8	48.6	2851.4	1.48	86.98
62.0-63.0	462.3	45.0	2896.4	1.37	88.35
63.0-64.0	420.8	41.3	2937.7	1.26	89.61
64.0-65.0	380.7	37.7	2975.3	1.15	90.76
65.0-66.0	341.6	34.1	3009.4	1.04	91.80
66.0-67.0	303.9	30.6	3040.0	0.93	92.73
67.0-68.0	267.2	27.1	3067.1	0.83	93.55
68.0-69.0	232.6	23.7	3090.8	0.72	94.28
69.0-70.0	201.0	20.6	3111.4	0.63	94.91
70.0-71.0	171.5	17.7	3129.2	0.54	95.45
71.0-72.0	144.9	15.1	3144.2	0.46	95.91

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: ATC

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	122.6	12.8	3157.1	0.39	96.30
73.0-74.0	104.8	11.0	3168.1	0.34	96.64
74.0-75.0	91.7	9.7	3177.8	0.30	96.93
75.0-76.0	82.8	8.8	3186.6	0.27	97.20
76.0-77.0	76.1	8.1	3194.7	0.25	97.45
77.0-78.0	70.0	7.5	3202.2	0.23	97.68
78.0-79.0	63.9	6.9	3209.0	0.21	97.89
79.0-80.0	57.0	6.1	3215.2	0.19	98.07
80.0-81.0	49.5	5.3	3220.5	0.16	98.24
81.0-82.0	41.7	4.5	3225.0	0.14	98.37
82.0-83.0	34.5	3.7	3228.8	0.11	98.49
83.0-84.0	28.4	3.1	3231.9	0.09	98.58
84.0-85.0	23.0	2.5	3234.4	0.08	98.66
85.0-86.0	18.0	2.0	3236.4	0.06	98.72
86.0-87.0	13.4	1.5	3237.8	0.04	98.76
87.0-88.0	9.6	1.1	3238.9	0.03	98.80
88.0-89.0	6.5	0.7	3239.6	0.02	98.82
89.0-90.0	4.0	0.4	3240.0	0.01	98.83
90.0-91.0	2.5	0.3	3240.3	0.01	98.84
91.0-92.0	2.0	0.2	3240.5	0.01	98.85
92.0-93.0	2.1	0.2	3240.7	0.01	98.85
93.0-94.0	2.2	0.2	3241.0	0.01	98.86
94.0-95.0	2.3	0.3	3241.2	0.01	98.87
95.0-96.0	2.5	0.3	3241.5	0.01	98.88
96.0-97.0	2.6	0.3	3241.8	0.01	98.88
97.0-98.0	2.8	0.3	3242.1	0.01	98.89
98.0-99.0	2.9	0.3	3242.4	0.01	98.90
99.0-100.0	3.0	0.3	3242.7	0.01	98.91
100.0-101.0	3.2	0.3	3243.1	0.01	98.92
101.0-102.0	3.3	0.4	3243.4	0.01	98.93
102.0-103.0	3.5	0.4	3243.8	0.01	98.95
103.0-104.0	3.6	0.4	3244.2	0.01	98.96
104.0-105.0	3.8	0.4	3244.6	0.01	98.97
105.0-106.0	4.0	0.4	3245.0	0.01	98.98
106.0-107.0	4.1	0.4	3245.5	0.01	99.00
107.0-108.0	4.3	0.4	3245.9	0.01	99.01

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: ATC

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	4.4	0.5	3246.4	0.01	99.02
109.0-110.0	4.6	0.5	3246.8	0.01	99.04
110.0-111.0	4.7	0.5	3247.3	0.01	99.05
111.0-112.0	4.8	0.5	3247.8	0.02	99.07
112.0-113.0	5.0	0.5	3248.3	0.02	99.08
113.0-114.0	5.1	0.5	3248.8	0.02	99.10
114.0-115.0	5.3	0.5	3249.4	0.02	99.12
115.0-116.0	5.4	0.5	3249.9	0.02	99.13
116.0-117.0	5.6	0.5	3250.4	0.02	99.15
117.0-118.0	5.7	0.6	3251.0	0.02	99.17
118.0-119.0	5.8	0.6	3251.5	0.02	99.18
119.0-120.0	6.0	0.6	3252.1	0.02	99.20
120.0-121.0	6.1	0.6	3252.7	0.02	99.22
121.0-122.0	6.2	0.6	3253.3	0.02	99.23
122.0-123.0	6.3	0.6	3253.9	0.02	99.25
123.0-124.0	6.5	0.6	3254.5	0.02	99.27
124.0-125.0	6.6	0.6	3255.0	0.02	99.29
125.0-126.0	6.7	0.6	3255.6	0.02	99.31
126.0-127.0	6.8	0.6	3256.2	0.02	99.33
127.0-128.0	7.0	0.6	3256.9	0.02	99.34
128.0-129.0	7.1	0.6	3257.5	0.02	99.36
129.0-130.0	7.2	0.6	3258.1	0.02	99.38
130.0-131.0	7.3	0.6	3258.7	0.02	99.40
131.0-132.0	7.4	0.6	3259.3	0.02	99.42
132.0-133.0	7.5	0.6	3259.9	0.02	99.44
133.0-134.0	7.6	0.6	3260.5	0.02	99.46
134.0-135.0	7.7	0.6	3261.1	0.02	99.47
135.0-136.0	7.8	0.6	3261.7	0.02	99.49
136.0-137.0	7.9	0.6	3262.3	0.02	99.51
137.0-138.0	8.0	0.6	3262.9	0.02	99.53
138.0-139.0	8.1	0.6	3263.5	0.02	99.55
139.0-140.0	8.2	0.6	3264.1	0.02	99.56
140.0-141.0	8.3	0.6	3264.7	0.02	99.58
141.0-142.0	8.4	0.6	3265.2	0.02	99.60
142.0-143.0	8.5	0.6	3265.8	0.02	99.62
143.0-144.0	8.6	0.6	3266.4	0.02	99.63

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: ATC

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	8.8	0.6	3266.9	0.02	99.65
145.0-146.0	8.9	0.5	3267.5	0.02	99.67
146.0-147.0	9.0	0.5	3268.0	0.02	99.68
147.0-148.0	9.1	0.5	3268.6	0.02	99.70
148.0-149.0	9.2	0.5	3269.1	0.02	99.72
149.0-150.0	9.3	0.5	3269.6	0.02	99.73
150.0-151.0	9.5	0.5	3270.1	0.02	99.75
151.0-152.0	9.6	0.5	3270.6	0.02	99.76
152.0-153.0	9.7	0.5	3271.1	0.01	99.78
153.0-154.0	9.8	0.5	3271.6	0.01	99.79
154.0-155.0	9.9	0.5	3272.0	0.01	99.81
155.0-156.0	10.1	0.5	3272.5	0.01	99.82
156.0-157.0	10.2	0.4	3273.0	0.01	99.83
157.0-158.0	10.3	0.4	3273.4	0.01	99.85
158.0-159.0	10.4	0.4	3273.8	0.01	99.86
159.0-160.0	10.5	0.4	3274.2	0.01	99.87
160.0-161.0	10.6	0.4	3274.6	0.01	99.88
161.0-162.0	10.7	0.4	3275.0	0.01	99.90
162.0-163.0	10.7	0.4	3275.3	0.01	99.91
163.0-164.0	10.8	0.3	3275.7	0.01	99.92
164.0-165.0	10.9	0.3	3276.0	0.01	99.93
165.0-166.0	10.9	0.3	3276.3	0.01	99.94
166.0-167.0	11.0	0.3	3276.6	0.01	99.94
167.0-168.0	11.1	0.3	3276.8	0.01	99.95
168.0-169.0	11.1	0.2	3277.1	0.01	99.96
169.0-170.0	11.2	0.2	3277.3	0.01	99.97
170.0-171.0	11.2	0.2	3277.5	0.01	99.97
171.0-172.0	11.3	0.2	3277.7	0.01	99.98
172.0-173.0	11.3	0.2	3277.8	0.00	99.98
173.0-174.0	11.3	0.1	3278.0	0.00	99.99
174.0-175.0	11.4	0.1	3278.1	0.00	99.99
175.0-176.0	11.4	0.1	3278.2	0.00	99.99
176.0-177.0	11.4	0.1	3278.3	0.00	100.00
177.0-178.0	11.4	0.1	3278.3	0.00	100.00
178.0-179.0	11.5	0.0	3278.3	0.00	100.00
179.0-180.0	11.5	0.0	3278.4	0.00	100.00

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: ATC

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	890.6	890.1	889.1	889.9	890.6	890.1	889.1	889.9	890.6	
G1.0	892.1	892.9	891.6	890.9	890.1	888.2	887.8	889.7	892.1	
G2.0	894.3	895.5	893.9	892.2	890.6	887.4	887.3	890.6	894.3	
G3.0	896.5	897.3	895.5	893.3	891.8	887.1	887.3	892.4	896.5	
G4.0	898.0	898.5	897.0	894.3	893.8	887.7	888.0	894.4	898.0	
G5.0	899.4	900.6	899.0	895.2	895.5	889.2	889.3	896.4	899.4	
G6.0	901.0	904.0	902.0	897.0	896.5	891.3	891.9	897.4	901.0	
G7.0	903.0	908.1	905.8	899.5	897.0	893.8	893.8	898.1	903.0	
G8.0	906.4	912.8	910.5	903.2	897.9	894.7	894.3	899.5	906.4	
G9.0	910.8	917.8	915.4	906.9	899.8	895.1	894.7	902.4	910.8	
G10.0	916.0	923.9	920.1	911.5	903.0	895.5	895.8	905.8	916.0	
G11.0	921.0	929.4	925.8	915.8	906.8	897.5	898.5	910.0	921.0	
G12.0	926.6	934.6	930.5	920.4	911.0	901.0	902.0	914.7	926.6	
G13.0	932.7	940.0	935.0	924.6	915.8	904.7	906.4	919.8	932.7	
G14.0	937.8	945.3	939.6	929.3	920.9	909.1	910.8	925.1	937.8	
G15.0	942.8	950.0	943.9	933.8	925.6	914.4	915.5	929.5	942.8	
G16.0	947.9	954.1	948.1	937.9	929.5	919.1	920.0	933.9	947.9	
G17.0	952.4	958.9	952.2	941.7	933.8	923.5	924.5	938.8	952.4	
G18.0	957.2	963.5	956.3	945.8	938.3	928.0	928.7	942.8	957.2	
G19.0	961.5	967.9	960.3	949.6	941.6	932.1	932.6	946.6	961.5	
G20.0	966.0	972.5	964.6	953.5	945.3	936.0	936.0	950.5	966.0	
G21.0	970.6	976.2	968.5	958.1	949.3	939.4	939.2	954.9	970.6	
G22.0	974.7	980.1	971.6	961.7	953.2	943.3	942.7	959.0	974.7	
G23.0	978.0	983.4	975.4	965.2	957.0	946.8	946.4	962.8	978.0	
G24.0	981.3	986.5	978.2	968.3	960.8	950.2	950.0	965.8	981.3	
G25.0	985.0	989.2	980.7	971.4	963.6	953.5	953.1	968.8	985.0	
G26.0	987.7	991.5	983.3	974.2	966.5	956.1	955.5	971.4	987.7	
G27.0	990.1	992.9	984.9	976.4	969.3	958.5	957.8	973.6	990.1	
G28.0	992.0	993.9	986.3	977.9	972.0	960.5	960.0	975.4	992.0	
G29.0	993.1	994.2	987.3	979.3	974.0	962.2	962.0	976.5	993.1	
G30.0	993.6	994.2	987.3	980.1	974.7	963.7	962.9	976.9	993.6	
G31.0	993.1	993.0	986.8	980.1	975.4	964.2	963.3	977.1	993.1	
G32.0	992.3	991.0	985.8	979.5	975.7	964.4	962.9	976.6	992.3	
G33.0	990.0	989.0	984.6	978.4	975.1	964.1	962.1	975.6	990.0	
G34.0	987.5	986.2	982.2	976.5	974.0	963.1	960.8	973.3	987.5	
G35.0	984.2	983.4	979.4	974.4	972.2	961.5	958.6	970.2	984.2	
G36.0	980.5	979.6	975.9	971.4	969.4	958.4	955.7	966.5	980.5	

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: ATC

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	976.1	974.9	972.1	968.0	966.0	955.5	952.4	962.3	976.1	
G38.0	970.5	969.2	967.2	963.8	962.4	951.9	948.5	957.5	970.5	
G39.0	964.3	963.4	961.8	959.1	958.2	948.3	944.0	951.1	964.3	
G40.0	957.1	956.4	956.0	954.1	952.6	943.3	938.3	944.2	957.1	
G41.0	950.2	948.7	948.9	947.9	946.6	937.7	931.8	936.6	950.2	
G42.0	941.9	940.2	941.3	941.5	940.2	931.0	924.6	927.6	941.9	
G43.0	932.3	931.5	933.3	934.5	933.2	923.1	916.7	918.0	932.3	
G44.0	922.4	920.3	923.2	925.4	924.4	913.9	906.8	908.0	922.4	
G45.0	910.2	909.1	912.8	916.7	915.7	904.3	896.5	896.5	910.2	
G46.0	898.0	896.6	901.8	907.1	906.1	894.1	884.7	884.4	898.0	
G47.0	884.0	881.5	888.3	894.7	894.4	882.8	871.0	870.4	884.0	
G48.0	867.4	865.2	874.3	882.2	881.7	869.0	857.2	855.1	867.4	
G49.0	850.2	848.4	858.6	867.8	867.8	854.7	842.1	837.0	850.2	
G50.0	832.3	830.8	840.5	852.3	851.0	837.8	824.8	819.2	832.3	
G51.0	813.3	809.8	823.2	836.3	834.6	821.6	807.7	801.0	813.3	
G52.0	790.6	789.8	804.6	817.2	817.5	804.1	790.1	779.3	790.6	
G53.0	768.6	768.7	785.1	798.7	797.3	784.4	769.4	758.0	768.6	
G54.0	744.7	744.7	761.7	778.5	777.3	765.4	748.8	732.4	744.7	
G55.0	715.9	716.2	738.0	755.0	756.3	744.5	726.1	706.3	715.9	
G56.0	686.2	687.0	711.3	730.8	733.0	718.8	697.8	676.5	686.2	
G57.0	652.3	653.0	680.9	704.0	704.5	692.8	668.3	643.0	652.3	
G58.0	615.7	615.7	644.2	674.3	675.8	663.5	635.2	602.5	615.7	
G59.0	573.0	572.5	608.2	638.2	640.0	627.1	598.8	563.5	573.0	
G60.0	532.5	532.6	570.2	602.5	604.3	590.4	556.6	519.1	532.5	
G61.0	491.9	491.6	530.8	564.7	566.5	552.0	517.0	478.7	491.9	
G62.0	450.7	450.7	486.7	525.9	523.7	513.3	477.8	438.4	450.7	
G63.0	406.1	410.1	446.5	482.4	484.5	470.1	434.5	394.9	406.1	
G64.0	366.3	366.3	406.4	442.4	440.8	430.7	395.4	356.3	366.3	
G65.0	327.8	327.7	367.1	403.0	401.7	387.9	352.8	318.7	327.8	
G66.0	290.5	289.7	328.5	363.7	362.7	349.6	315.5	278.8	290.5	
G67.0	255.4	254.9	288.3	326.2	321.3	312.7	279.8	244.5	255.4	
G68.0	219.6	218.7	253.4	286.2	285.1	274.0	242.5	212.7	219.6	
G69.0	189.2	188.3	220.3	251.2	250.1	240.0	210.5	180.1	189.2	
G70.0	161.1	160.2	189.9	218.6	214.4	208.3	181.3	152.5	161.1	
G71.0	133.8	135.4	158.7	185.3	184.4	176.4	154.4	129.0	133.8	
G72.0	113.2	114.7	134.1	157.2	156.3	149.7	128.7	107.8	113.2	
G73.0	96.8	96.5	113.3	132.7	130.2	127.1	110.1	93.4	96.8	

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: ATC

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	85.6	85.2	96.6	112.4	110.6	106.7	94.3	84.6	85.6	
G75.0	79.3	78.6	85.2	96.3	95.5	93.0	85.9	77.9	79.3	
G76.0	73.6	72.6	78.6	85.8	85.3	85.0	79.7	72.6	73.6	
G77.0	67.7	66.8	72.8	78.9	79.2	78.4	73.6	66.5	67.7	
G78.0	61.0	60.9	66.9	73.3	73.7	72.8	67.7	59.9	61.0	
G79.0	53.4	54.5	61.3	68.0	67.5	67.1	61.0	52.7	53.4	
G80.0	45.2	47.2	54.8	62.3	60.5	59.8	52.8	44.2	45.2	
G81.0	37.1	39.6	47.5	54.9	52.3	52.3	44.9	36.1	37.1	
G82.0	30.2	31.4	39.1	47.6	43.1	44.5	36.8	29.4	30.2	
G83.0	25.8	25.5	31.4	40.0	35.2	36.4	30.1	25.1	25.8	
G84.0	21.2	21.9	25.3	32.4	29.7	29.2	25.5	18.9	21.2	
G85.0	15.8	17.1	21.7	26.7	24.4	25.0	19.6	12.8	15.8	
G86.0	11.9	12.9	17.4	22.9	18.6	18.7	13.2	9.9	11.9	
G87.0	8.4	9.5	13.0	16.6	12.9	12.5	10.0	6.4	8.4	
G88.0	5.7	6.6	10.0	12.6	9.6	9.4	6.9	3.3	5.7	
G89.0	2.6	3.4	6.9	9.5	6.4	6.0	3.8	1.6	2.6	
G90.0	2.1	2.0	3.6	6.4	3.7	2.3	1.6	1.7	2.1	
G91.0	2.2	2.2	2.0	2.8	1.6	1.6	1.7	1.8	2.2	
G92.0	2.4	2.3	2.1	2.0	1.8	1.7	1.8	2.0	2.4	
G93.0	2.5	2.5	2.2	2.2	1.9	1.8	1.9	2.0	2.5	
G94.0	2.7	2.6	2.4	2.3	2.0	1.9	2.0	2.2	2.7	
G95.0	2.8	2.8	2.6	2.5	2.1	2.1	2.1	2.3	2.8	
G96.0	3.0	2.9	2.7	2.6	2.2	2.2	2.3	2.4	3.0	
G97.0	3.2	3.1	2.9	2.7	2.3	2.3	2.4	2.6	3.2	
G98.0	3.3	3.2	3.0	2.9	2.5	2.5	2.5	2.7	3.3	
G99.0	3.4	3.3	3.1	3.1	2.6	2.6	2.7	2.8	3.4	
G100.0	3.6	3.5	3.3	3.2	2.8	2.8	2.8	3.0	3.6	
G101.0	3.8	3.7	3.5	3.3	2.9	2.9	3.0	3.1	3.8	
G102.0	4.0	3.8	3.7	3.5	3.0	3.0	3.1	3.3	4.0	
G103.0	4.1	4.0	3.8	3.7	3.2	3.2	3.3	3.4	4.1	
G104.0	4.2	4.2	3.9	3.8	3.3	3.3	3.4	3.5	4.2	
G105.0	4.4	4.3	4.0	4.0	3.5	3.5	3.6	3.7	4.4	
G106.0	4.6	4.5	4.3	4.1	3.6	3.6	3.8	3.9	4.6	
G107.0	4.7	4.6	4.4	4.3	3.8	3.7	3.9	4.0	4.7	
G108.0	4.9	4.8	4.6	4.5	3.9	3.9	4.0	4.1	4.9	
G109.0	5.0	4.9	4.7	4.6	4.1	4.1	4.2	4.3	5.0	
G110.0	5.2	5.1	4.9	4.8	4.2	4.2	4.3	4.4	5.2	

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: ATC

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0
G111.0	5.2	5.2	5.0	4.9	4.4	4.3	4.5	4.6	5.2
G112.0	5.5	5.3	5.2	5.1	4.5	4.5	4.7	4.7	5.5
G113.0	5.6	5.5	5.3	5.2	4.7	4.7	4.7	4.8	5.6
G114.0	5.8	5.6	5.5	5.3	4.9	4.8	4.9	5.0	5.8
G115.0	5.9	5.7	5.6	5.5	5.0	4.9	5.1	5.1	5.9
G116.0	6.0	5.9	5.7	5.6	5.2	5.1	5.2	5.2	6.0
G117.0	6.1	6.1	5.9	5.7	5.3	5.2	5.3	5.4	6.1
G118.0	6.3	6.2	6.1	5.9	5.5	5.4	5.4	5.5	6.3
G119.0	6.4	6.3	6.2	6.0	5.5	5.5	5.6	5.7	6.4
G120.0	6.5	6.5	6.3	6.1	5.7	5.6	5.7	5.8	6.5
G121.0	6.7	6.5	6.4	6.3	5.8	5.7	5.8	5.9	6.7
G122.0	6.8	6.7	6.5	6.4	5.9	5.8	5.9	6.0	6.8
G123.0	6.9	6.8	6.7	6.5	6.1	6.0	6.1	6.2	6.9
G124.0	7.1	6.9	6.8	6.7	6.2	6.2	6.2	6.3	7.1
G125.0	7.2	7.0	6.9	6.8	6.3	6.3	6.4	6.4	7.2
G126.0	7.3	7.1	7.0	6.9	6.5	6.4	6.5	6.5	7.3
G127.0	7.4	7.3	7.1	7.0	6.6	6.5	6.6	6.7	7.4
G128.0	7.5	7.3	7.3	7.2	6.7	6.7	6.7	6.8	7.5
G129.0	7.6	7.5	7.3	7.3	6.8	6.8	6.9	6.9	7.6
G130.0	7.7	7.6	7.5	7.4	6.9	6.9	6.9	7.0	7.7
G131.0	7.8	7.7	7.5	7.5	7.1	7.0	7.1	7.1	7.8
G132.0	7.9	7.8	7.7	7.6	7.2	7.1	7.2	7.3	7.9
G133.0	8.0	7.9	7.8	7.7	7.3	7.3	7.3	7.4	8.0
G134.0	8.1	8.0	7.8	7.8	7.4	7.4	7.4	7.4	8.1
G135.0	8.2	8.1	7.9	7.9	7.5	7.5	7.5	7.5	8.2
G136.0	8.3	8.2	8.0	8.0	7.6	7.6	7.6	7.6	8.3
G137.0	8.4	8.3	8.2	8.1	7.7	7.7	7.7	7.7	8.4
G138.0	8.5	8.4	8.3	8.2	7.8	7.8	7.8	7.8	8.5
G139.0	8.6	8.5	8.4	8.3	7.9	7.9	7.9	7.9	8.6
G140.0	8.7	8.6	8.5	8.4	8.0	8.0	8.0	8.0	8.7
G141.0	8.8	8.6	8.6	8.5	8.1	8.1	8.1	8.1	8.8
G142.0	8.9	8.8	8.7	8.6	8.2	8.2	8.2	8.3	8.9
G143.0	9.0	8.9	8.8	8.7	8.3	8.3	8.3	8.4	9.0
G144.0	9.1	9.0	8.9	8.8	8.4	8.4	8.4	8.5	9.1
G145.0	9.2	9.1	9.0	8.9	8.5	8.6	8.5	8.6	9.2
G146.0	9.3	9.2	9.1	9.0	8.7	8.7	8.6	8.7	9.3
G147.0	9.4	9.3	9.2	9.1	8.8	8.8	8.8	8.9	9.4

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: ATC

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	9.5	9.4	9.3	9.2	8.9	8.9	8.9	9.0	9.5	
G149.0	9.6	9.5	9.4	9.4	9.1	9.1	9.0	9.1	9.6	
G150.0	9.8	9.6	9.5	9.4	9.2	9.2	9.2	9.3	9.8	
G151.0	9.8	9.7	9.6	9.5	9.4	9.4	9.3	9.4	9.8	
G152.0	9.8	9.8	9.7	9.6	9.5	9.5	9.5	9.5	9.8	
G153.0	9.9	9.9	9.8	9.7	9.6	9.7	9.7	9.7	9.9	
G154.0	10.0	10.0	9.9	9.8	9.8	9.8	9.8	9.9	10.0	
G155.0	10.1	10.1	10.0	10.0	10.0	9.9	10.0	10.0	10.1	
G156.0	10.2	10.1	10.1	10.0	10.1	10.1	10.1	10.2	10.2	
G157.0	10.3	10.2	10.1	10.1	10.3	10.3	10.3	10.3	10.3	
G158.0	10.3	10.3	10.3	10.2	10.4	10.4	10.4	10.4	10.3	
G159.0	10.4	10.4	10.3	10.3	10.5	10.5	10.5	10.5	10.4	
G160.0	10.4	10.5	10.4	10.3	10.7	10.6	10.6	10.7	10.4	
G161.0	10.5	10.5	10.5	10.5	10.8	10.7	10.7	10.8	10.5	
G162.0	10.6	10.6	10.5	10.5	10.9	10.8	10.8	10.8	10.6	
G163.0	10.6	10.6	10.6	10.6	11.0	10.9	10.9	10.9	10.6	
G164.0	10.7	10.7	10.6	10.6	11.0	11.0	11.0	10.9	10.7	
G165.0	10.8	10.8	10.7	10.7	11.1	11.1	11.1	11.0	10.8	
G166.0	10.8	10.8	10.8	10.8	11.2	11.1	11.1	11.1	10.8	
G167.0	10.9	10.9	10.8	10.8	11.2	11.2	11.2	11.1	10.9	
G168.0	11.0	11.0	10.9	10.9	11.3	11.2	11.2	11.2	11.0	
G169.0	11.0	11.0	11.0	10.9	11.3	11.3	11.3	11.2	11.0	
G170.0	11.1	11.1	11.1	11.0	11.4	11.4	11.3	11.3	11.1	
G171.0	11.2	11.2	11.1	11.1	11.4	11.4	11.4	11.3	11.2	
G172.0	11.2	11.2	11.1	11.2	11.5	11.4	11.4	11.3	11.2	
G173.0	11.3	11.3	11.2	11.2	11.4	11.4	11.4	11.3	11.3	
G174.0	11.3	11.3	11.3	11.3	11.5	11.5	11.5	11.4	11.3	
G175.0	11.4	11.4	11.3	11.3	11.5	11.5	11.5	11.4	11.4	
G176.0	11.4	11.4	11.3	11.3	11.5	11.5	11.5	11.4	11.4	
G177.0	11.4	11.5	11.4	11.3	11.5	11.5	11.5	11.4	11.4	
G178.0	11.5	11.5	11.4	11.4	11.5	11.5	11.5	11.5	11.5	
G179.0	11.5	11.5	11.4	11.4	11.5	11.5	11.5	11.5	11.5	
G180.0	11.5	11.5	11.4	11.4	11.5	11.6	11.5	11.5	11.5	

C Plane (°):0.0-360.0: 45.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: ATC

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.499 m
 Humidity: 65
 Inspector:



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