

Report No.: TH-5671A

Test Time: 2025/9/19 11:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog:

Number of Lamps:

Luminous Length (mm): -68

Luminous Height (mm):

Current: 0.120 A

Power Factor: 0.561

Luminaire Description: 15W

Lamp Description:

Lumens per Lamp:

Luminous Width (mm): -68

Voltage: 220.3 V

Power: 14.86 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1123.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H72.7

Vertical Diffuse Angle(50%): V79.5

Luminaire Efficacy Rating (LER): 75.65

Max. Intensity: 750.82 cd

S/MH(C0/C180): 1.13

Total Rated Lamp Lumens: 1123.5 lm

Efficiency: 100%

Upward Ratio: 0%

C0r0 Intensity: 631.83 cd

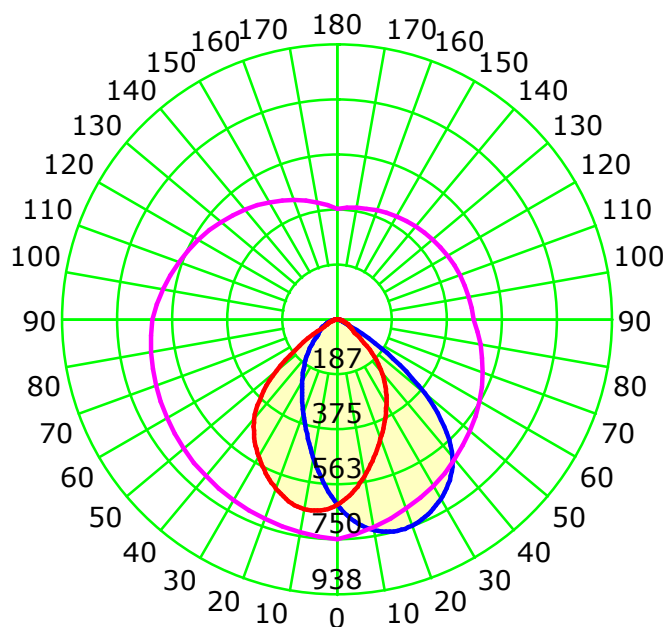
Pos of Max. Intensity: H0 V17

S/MH(C90/C270): 1.06

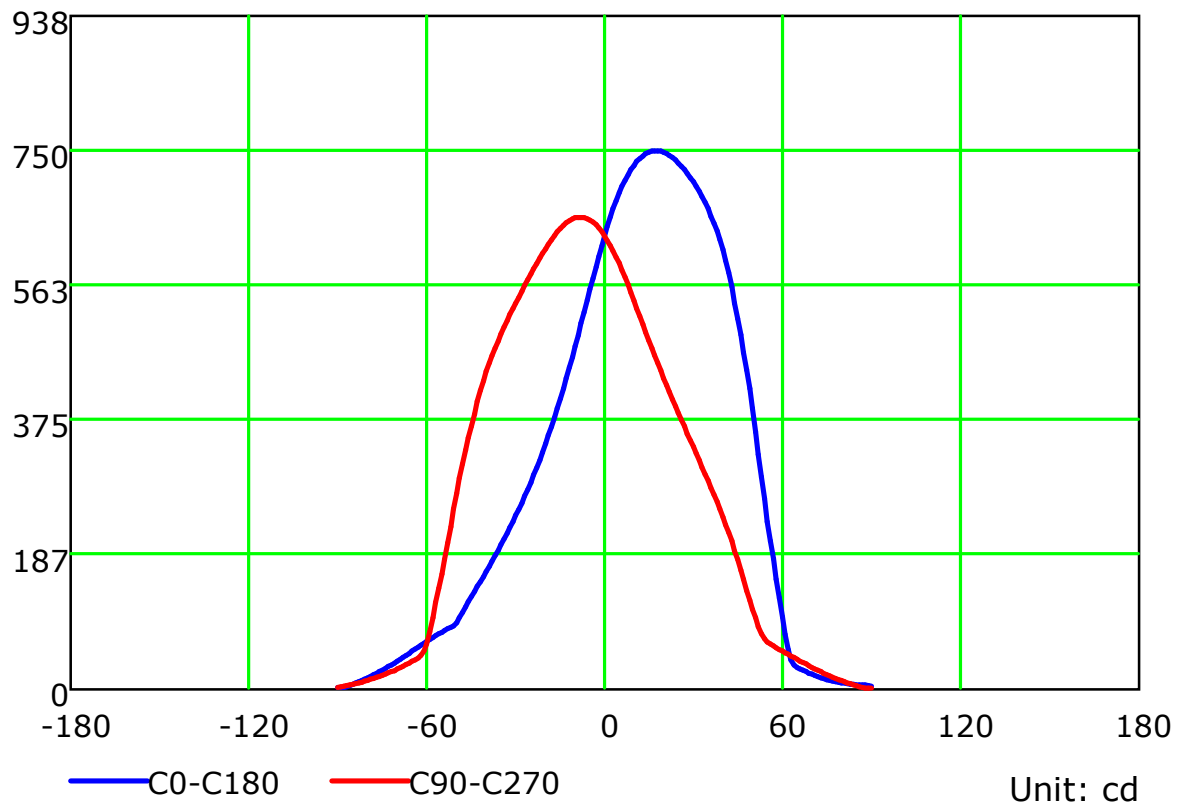
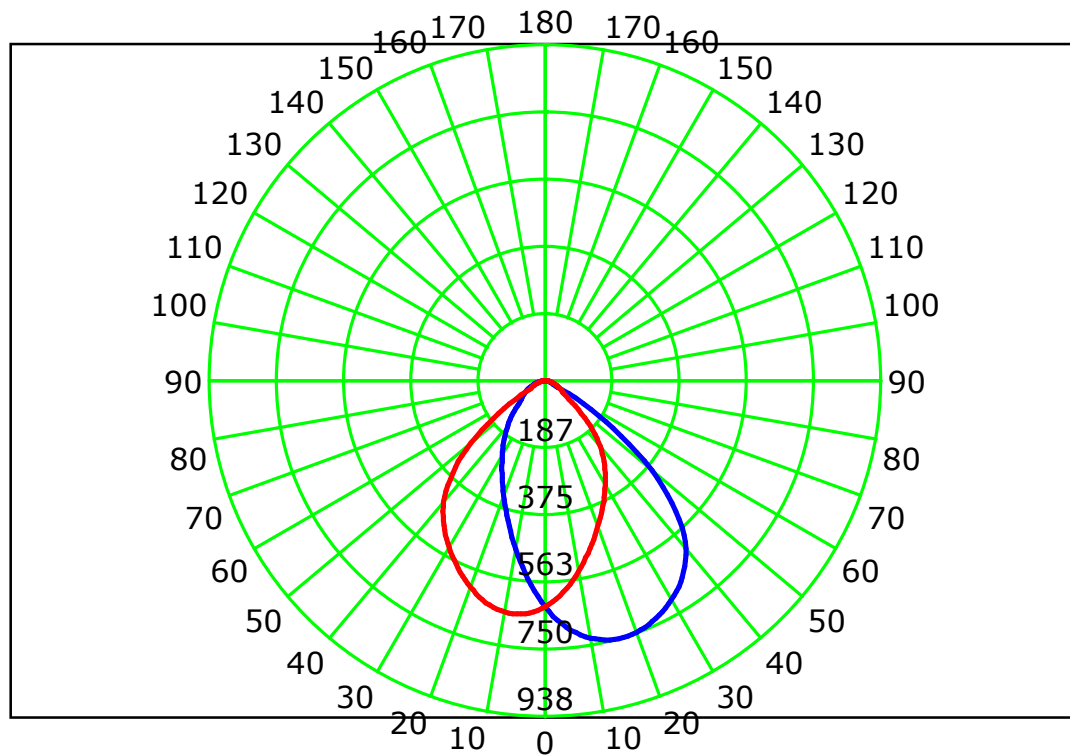
Picture Of Luminaire



Luminous Intensity Distribution Curve



Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jack

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 8.705 m [K=1.0000]
 Humidity: 65
 Inspector:

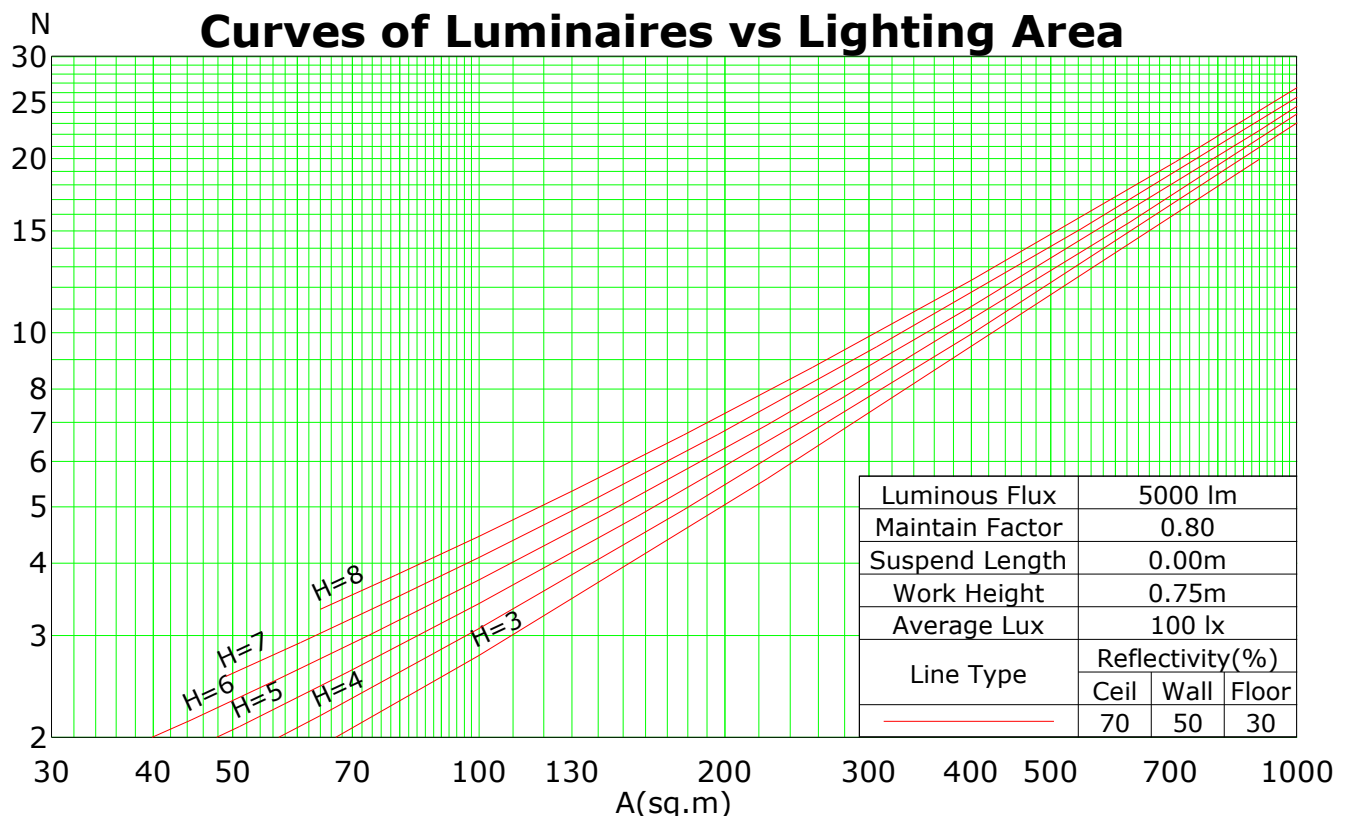
Coefficients Of Utilization - Zonal Cavity Method

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
RCR	RF = 0.2																	
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.11	1.08	1.04	1.01	1.09	1.05	1.02	1.00	1.01	0.99	0.97	0.98	0.96	0.94	0.94	0.92	0.91	0.89
2	1.03	0.97	0.92	0.87	1.01	0.95	0.90	0.86	0.92	0.88	0.84	0.89	0.85	0.82	0.86	0.83	0.80	0.78
3	0.96	0.87	0.81	0.75	0.94	0.86	0.80	0.75	0.83	0.78	0.74	0.81	0.76	0.72	0.78	0.74	0.71	0.69
4	0.89	0.79	0.72	0.66	0.87	0.78	0.71	0.66	0.76	0.70	0.65	0.73	0.68	0.64	0.71	0.67	0.63	0.61
5	0.83	0.72	0.64	0.59	0.81	0.71	0.64	0.58	0.69	0.63	0.58	0.67	0.62	0.57	0.65	0.61	0.57	0.55
6	0.77	0.66	0.58	0.52	0.75	0.65	0.57	0.52	0.63	0.57	0.52	0.62	0.56	0.51	0.60	0.55	0.51	0.49
7	0.72	0.60	0.52	0.47	0.71	0.59	0.52	0.47	0.58	0.51	0.47	0.57	0.51	0.46	0.55	0.50	0.46	0.44
8	0.67	0.55	0.48	0.43	0.66	0.55	0.48	0.43	0.54	0.47	0.42	0.52	0.46	0.42	0.51	0.46	0.42	0.40
9	0.63	0.51	0.44	0.39	0.62	0.51	0.44	0.39	0.50	0.43	0.39	0.49	0.43	0.38	0.48	0.42	0.38	0.37
10	0.60	0.48	0.40	0.36	0.58	0.47	0.40	0.36	0.46	0.40	0.35	0.45	0.39	0.35	0.44	0.39	0.35	0.34

Spacing Criteria (0-180): 1.13

Spacing Criteria (90-270): 1.06

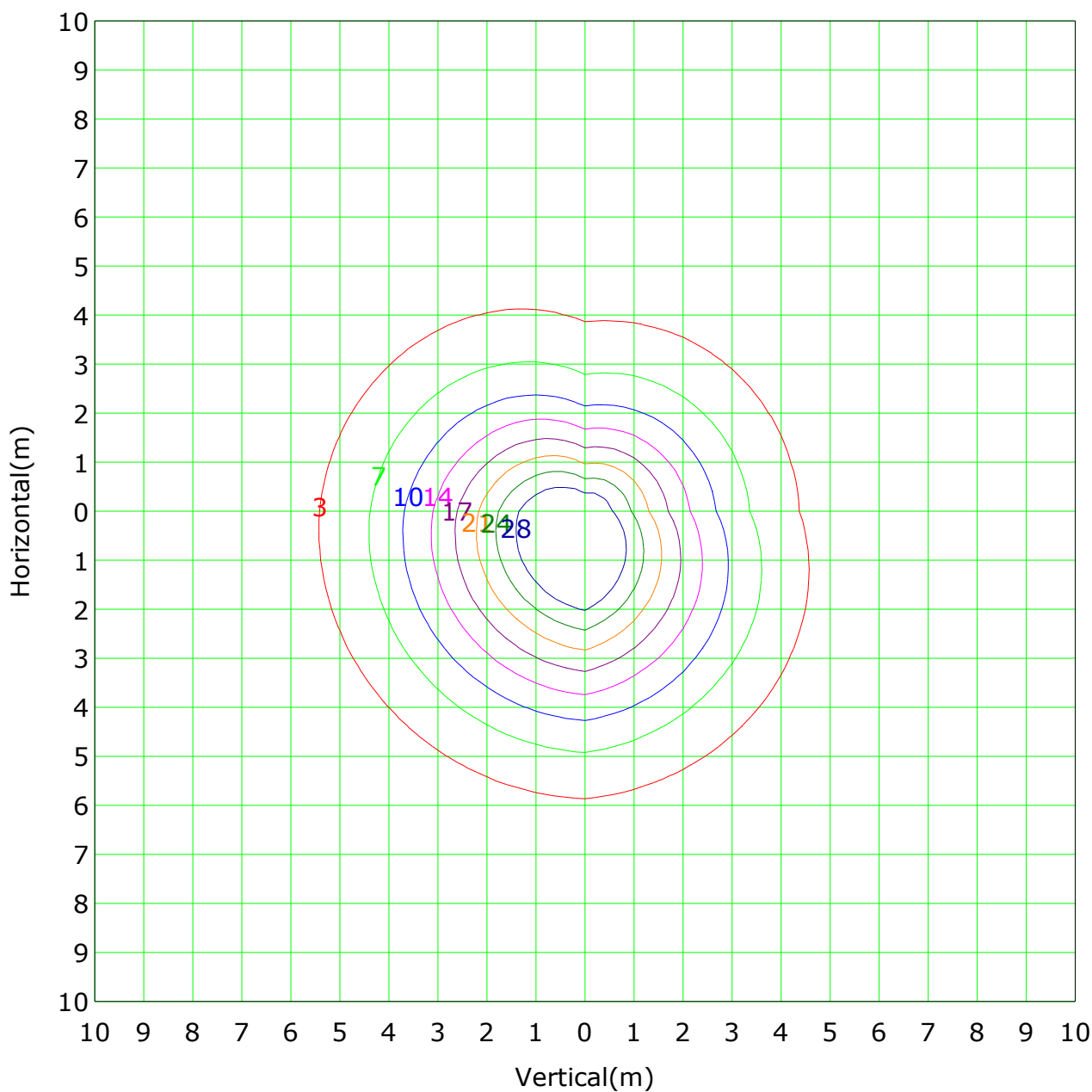
Spacing Criteria (Diagonal): 1.21



C Plane (°):0.0-360.0: 90.0
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 Test Device: GPM-1800B
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 Humidity: 65
 Inspector:

IsoLux Plot



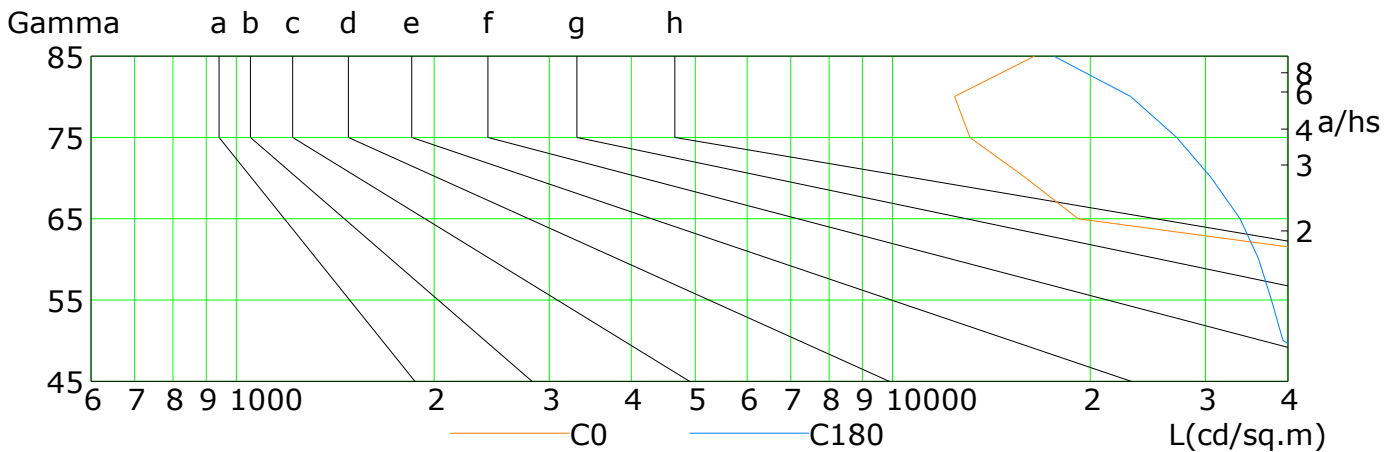
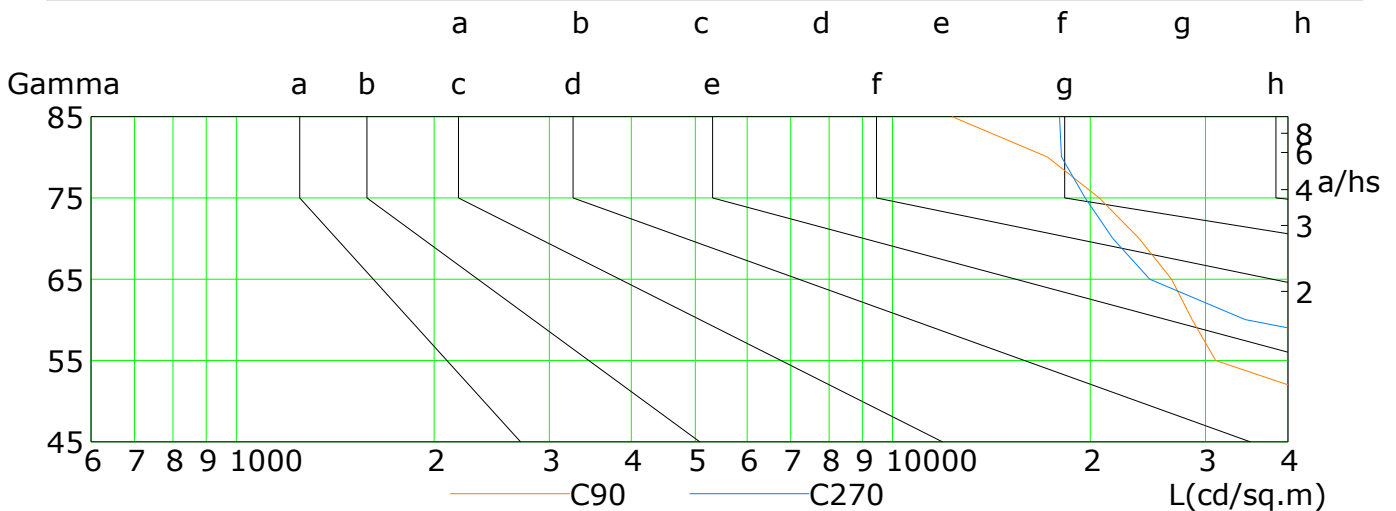
Mounting Height: 4.5m		Max Lux(100%): 34.5 lx	
— (10%):	3.4 lx	— (20%):	6.9 lx
— (30%):	10.3 lx	— (40%):	13.8 lx
— (50%):	17.2 lx	— (60%):	20.7 lx
— (70%):	24.1 lx	— (80%):	27.6 lx

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Lum Limit Curve

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

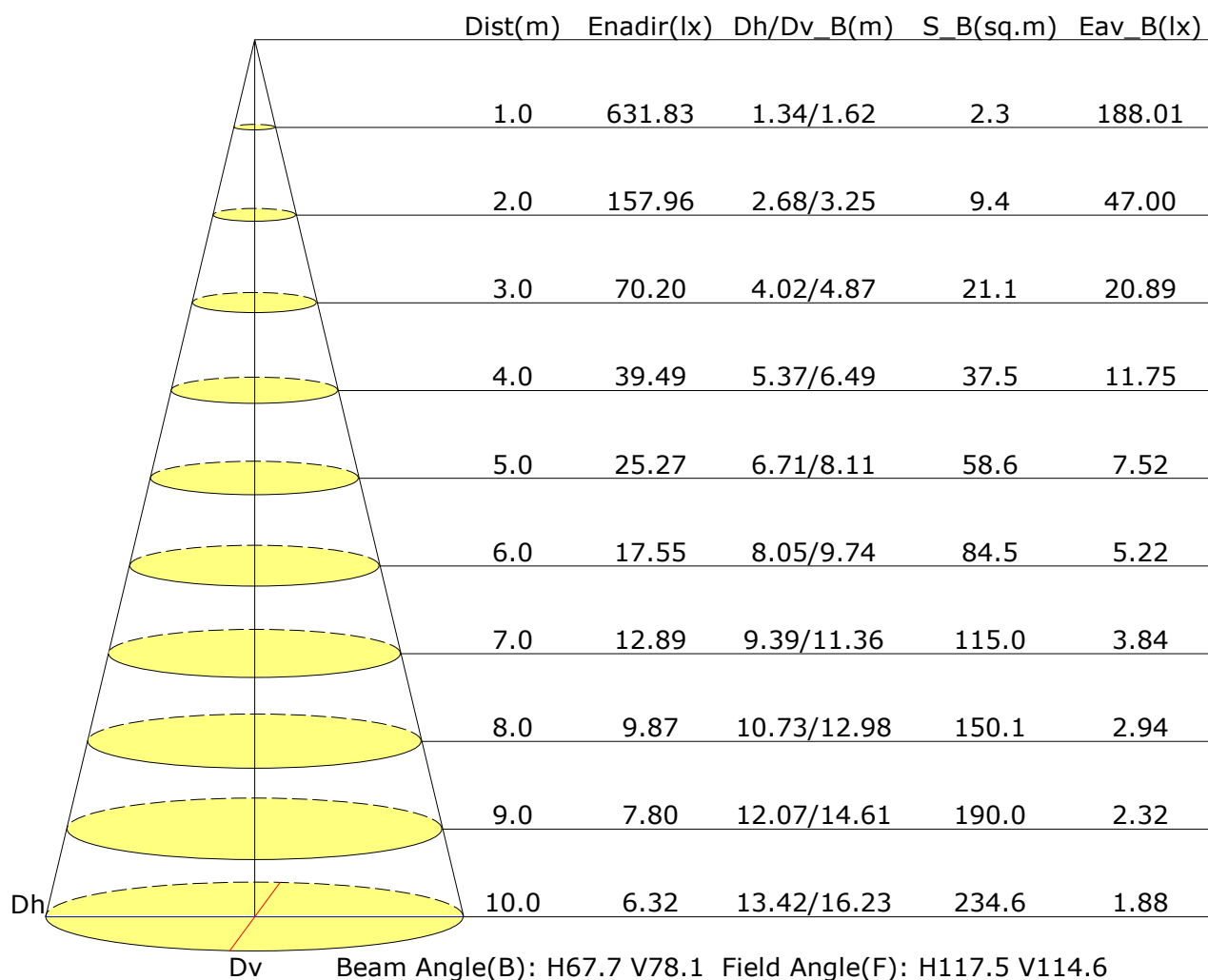


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	201003	167399	111861	55080	19152	15930	13108	12427	16441
C90	70190	47467	31039	28600	26588	23735	20623	17199	12306
C180	49993	39303	37747	36119	33871	30604	27078	23045	17613
C270	142686	116672	76515	34413	24655	21653	19667	18101	17955

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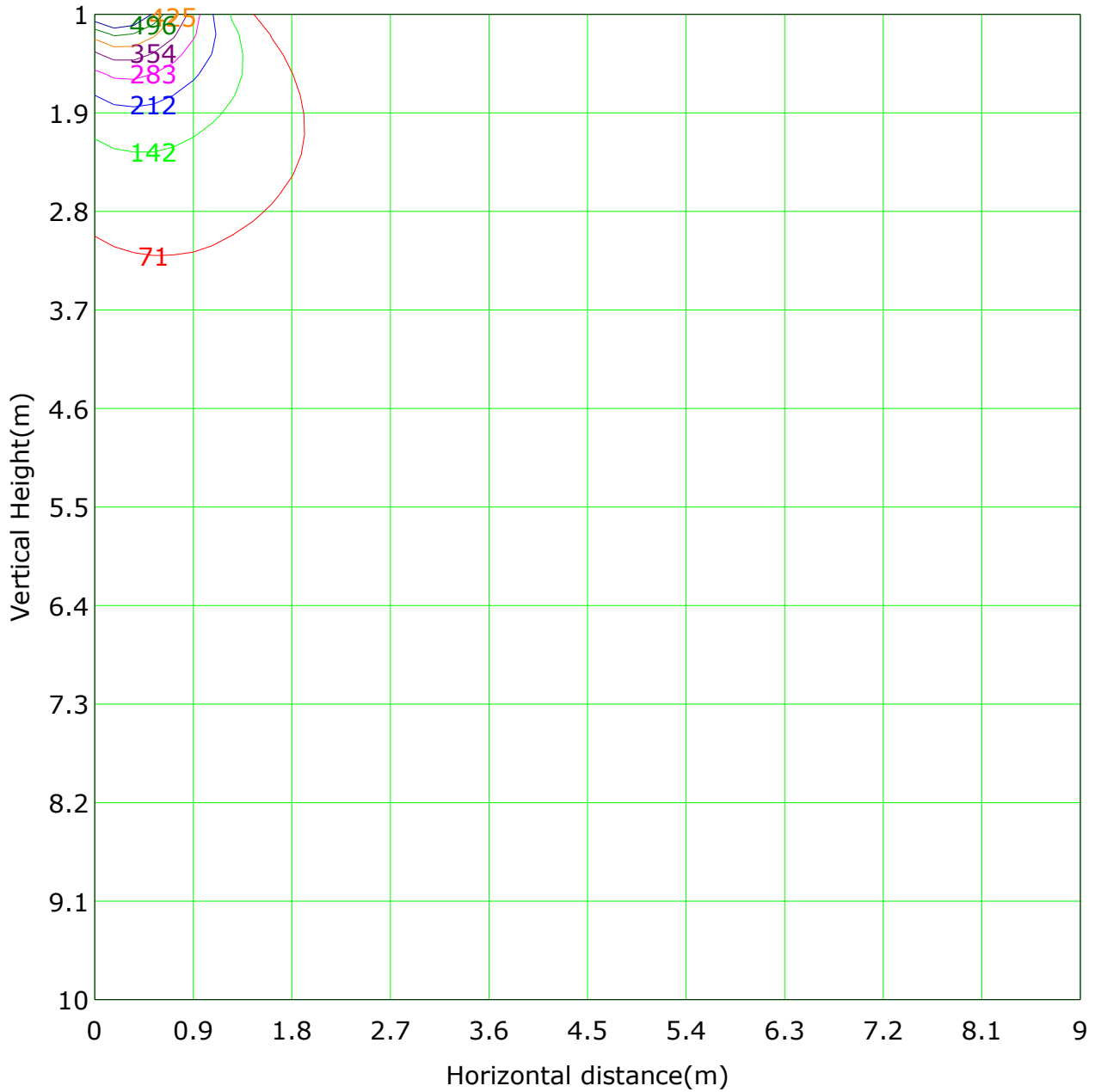
Illuminance at a Distance



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Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 10.0m	Max Lux: 708.3 lx
(10%): 70.8 lx	(20%): 141.7 lx	
(30%): 212.5 lx	(40%): 283.3 lx	
(50%): 354.1 lx	(60%): 425.0 lx	
(70%): 495.8 lx	(80%): 566.6 lx	

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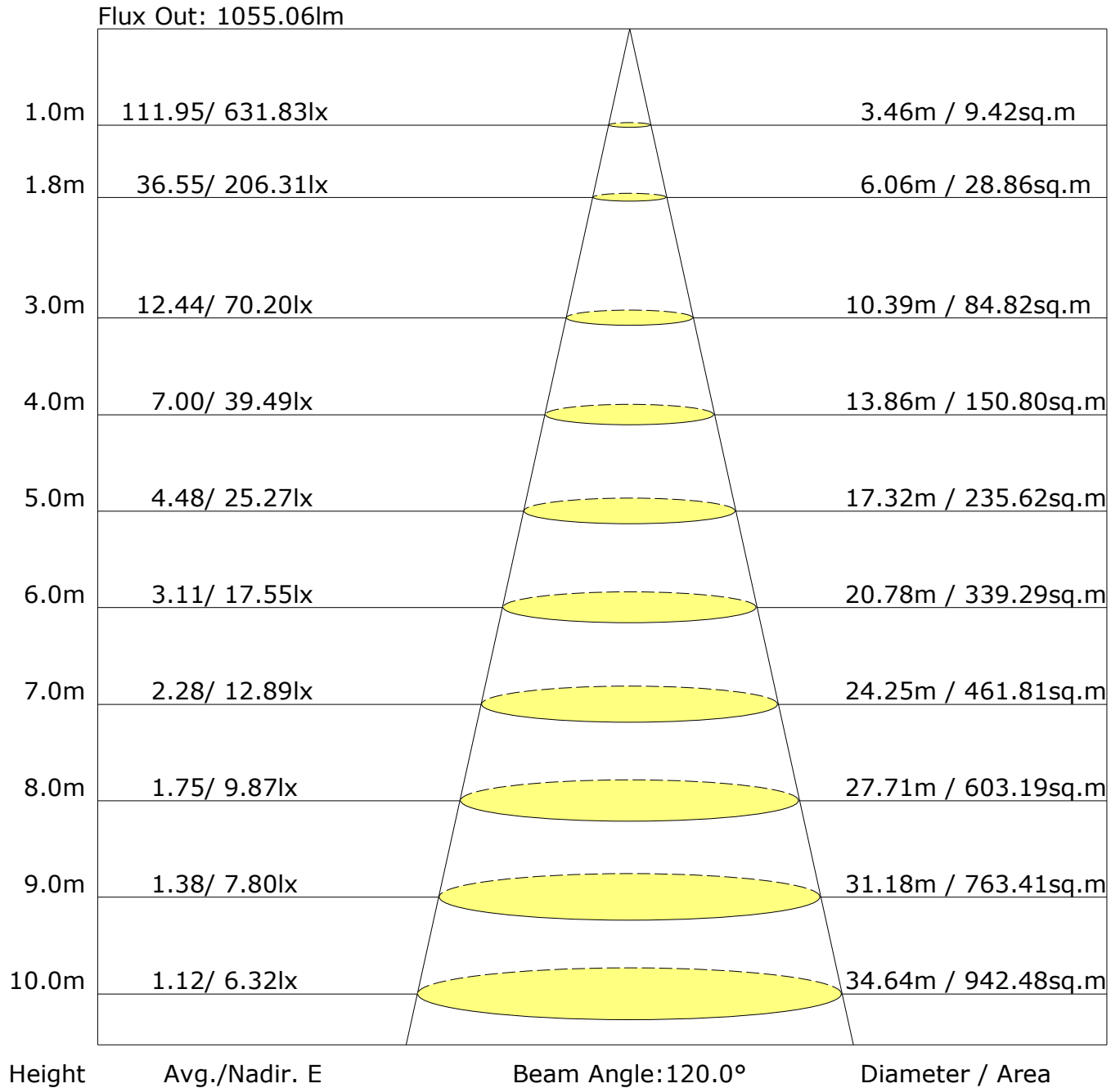
Area Flux Table

Unit: lm																			
Horizontal plane																			
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Flux(T)	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4
Flux(E)	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4
Flux(T)	0.2	2.1	6.7	14.0	27.5	50.4	79.5	111.8	141.6	160.6	164.0	148.6	116.3	69.8	24.4	4.4	1.3	0.2	1123
Flux(E)	0.0	0.0	0.0	4.7	20.6	44.2	73.6	106.1	136.2	155.6	159.7	144.5	112.4	65.9	20.1	0.2	0.0	0.0	1044
Flux(T)	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4
Flux(E)	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4
Flux(T)	0.2	2.1	6.7	14.0	27.5	50.4	79.5	111.8	141.6	160.6	164.0	148.6	116.3	69.8	24.4	4.4	1.3	0.2	1123
Flux(E)	0.0	0.0	0.0	4.7	20.6	44.2	73.6	106.1	136.2	155.6	159.7	144.5	112.4	65.9	20.1	0.2	0.0	0.0	1044

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Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

The Average Illuminance Effective Figure



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 Inspector:

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	29.3	30.5	29.6	30.7	30.9	27.2	28.4	27.5	28.6	28.8
3H	29.2	30.3	29.5	30.5	30.8	27.3	28.3	27.6	28.6	28.8
4H	29.2	30.2	29.5	30.4	30.7	27.3	28.3	27.6	28.5	28.8
6H	29.1	30.0	29.5	30.3	30.6	27.3	28.2	27.7	28.5	28.8
8H	29.1	30.0	29.5	30.3	30.6	27.3	28.2	27.7	28.5	28.8
12H	29.1	29.9	29.5	30.2	30.6	27.3	28.1	27.7	28.4	28.8
X=4H Y=2H	29.2	30.2	29.5	30.5	30.8	27.2	28.2	27.6	28.5	28.8
3H	29.2	30.0	29.5	30.3	30.6	27.4	28.2	27.7	28.5	28.9
4H	29.1	29.9	29.5	30.2	30.6	27.4	28.2	27.8	28.5	28.9
6H	29.1	29.8	29.5	30.1	30.5	27.5	28.2	27.9	28.5	28.9
8H	29.1	29.7	29.5	30.1	30.5	27.5	28.1	28.0	28.5	28.9
12H	29.1	29.6	29.5	30.0	30.5	27.5	28.1	28.0	28.5	28.9
X=8H Y=4H	29.1	29.7	29.5	30.1	30.5	27.4	28.0	27.8	28.4	28.8
6H	29.1	29.5	29.5	30.0	30.4	27.5	28.0	28.0	28.4	28.9
8H	29.1	29.5	29.5	29.9	30.4	27.6	28.0	28.0	28.4	28.9
12H	29.1	29.4	29.6	29.9	30.4	27.6	28.0	28.1	28.4	28.9
X=12H Y=4H	29.0	29.6	29.5	30.0	30.4	27.4	27.9	27.8	28.3	28.8
6H	29.0	29.5	29.5	29.9	30.4	27.5	27.9	28.0	28.4	28.8
8H	29.1	29.4	29.5	29.9	30.4	27.6	27.9	28.0	28.4	28.9
Variations with the observer position at spacings:										
S=1.0H	+0.7/-1.2					+0.9/-1.6				
S=1.5H	+2.6/-6.7					+2.2/-5.4				
S=2.0H	+4.6/-8.0					+3.6/-6.1				

Calculate in accordance with CIE Pub.117. The table is revised with 1123lm ($8\log(F/F_0) = 0.4$).

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Humidity: 65
Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	631.8	0.6	0.6	0.05	0.05
1.0-2.0	631.2	1.8	2.4	0.16	0.22
2.0-3.0	629.9	3.0	5.4	0.27	0.48
3.0-4.0	627.9	4.2	9.6	0.37	0.86
4.0-5.0	625.5	5.4	15.0	0.48	1.34
5.0-6.0	622.5	6.5	21.6	0.58	1.92
6.0-7.0	618.6	7.7	29.2	0.68	2.60
7.0-8.0	614.3	8.8	38.0	0.78	3.38
8.0-9.0	609.5	9.9	47.9	0.88	4.26
9.0-10.0	604.2	10.9	58.8	0.97	5.24
10.0-11.0	598.8	12.0	70.8	1.07	6.30
11.0-12.0	593.3	13.0	83.8	1.15	7.46
12.0-13.0	587.1	13.9	97.7	1.24	8.70
13.0-14.0	580.6	14.9	112.6	1.32	10.02
14.0-15.0	574.0	15.8	128.3	1.40	11.42
15.0-16.0	567.0	16.6	145.0	1.48	12.90
16.0-17.0	560.2	17.4	162.4	1.55	14.46
17.0-18.0	552.9	18.2	180.6	1.62	16.08
18.0-19.0	545.5	19.0	199.6	1.69	17.77
19.0-20.0	538.1	19.7	219.3	1.75	19.52
20.0-21.0	530.6	20.4	239.7	1.81	21.34
21.0-22.0	523.1	21.0	260.7	1.87	23.21
22.0-23.0	515.4	21.6	282.3	1.93	25.13
23.0-24.0	507.7	22.2	304.5	1.98	27.11
24.0-25.0	500.0	22.7	327.3	2.02	29.13
25.0-26.0	492.1	23.2	350.5	2.07	31.20
26.0-27.0	484.3	23.7	374.2	2.11	33.31
27.0-28.0	476.3	24.1	398.3	2.15	35.46
28.0-29.0	468.1	24.5	422.8	2.18	37.64
29.0-30.0	460.0	24.8	447.7	2.21	39.85
30.0-31.0	452.1	25.2	472.8	2.24	42.09
31.0-32.0	444.0	25.4	498.3	2.26	44.35
32.0-33.0	435.8	25.7	523.9	2.29	46.64
33.0-34.0	427.2	25.9	549.8	2.30	48.94
34.0-35.0	418.4	26.0	575.8	2.31	51.25
35.0-36.0	409.3	26.1	601.9	2.32	53.57

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Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	399.8	26.1	627.9	2.32	55.89
37.0-38.0	390.1	26.0	654.0	2.32	58.21
38.0-39.0	380.4	26.0	679.9	2.31	60.52
39.0-40.0	370.1	25.8	705.8	2.30	62.82
40.0-41.0	358.8	25.6	731.3	2.27	65.09
41.0-42.0	346.8	25.2	756.5	2.24	67.34
42.0-43.0	334.2	24.8	781.3	2.20	69.54
43.0-44.0	319.9	24.1	805.4	2.15	71.69
44.0-45.0	305.0	23.4	828.9	2.09	73.78
45.0-46.0	290.2	22.7	851.6	2.02	75.80
46.0-47.0	274.8	21.9	873.4	1.95	77.74
47.0-48.0	258.5	20.9	894.3	1.86	79.60
48.0-49.0	241.8	19.9	914.2	1.77	81.37
49.0-50.0	225.0	18.8	932.9	1.67	83.04
50.0-51.0	207.5	17.6	950.5	1.56	84.60
51.0-52.0	189.7	16.3	966.8	1.45	86.05
52.0-53.0	172.7	15.0	981.8	1.34	87.39
53.0-54.0	156.6	13.8	995.6	1.23	88.62
54.0-55.0	141.3	12.6	1008.2	1.12	89.74
55.0-56.0	127.5	11.5	1019.7	1.03	90.76
56.0-57.0	114.7	10.5	1030.2	0.93	91.70
57.0-58.0	101.6	9.4	1039.6	0.84	92.53
58.0-59.0	88.4	8.3	1047.9	0.74	93.27
59.0-60.0	76.1	7.2	1055.1	0.64	93.91
60.0-61.0	65.0	6.2	1061.3	0.55	94.46
61.0-62.0	56.0	5.4	1066.7	0.48	94.94
62.0-63.0	49.1	4.8	1071.4	0.43	95.37
63.0-64.0	44.5	4.4	1075.8	0.39	95.76
64.0-65.0	41.3	4.1	1079.9	0.36	96.12
65.0-66.0	38.7	3.9	1083.8	0.34	96.46
66.0-67.0	36.3	3.7	1087.4	0.33	96.79
67.0-68.0	34.1	3.5	1090.9	0.31	97.10
68.0-69.0	31.9	3.3	1094.1	0.29	97.39
69.0-70.0	29.6	3.0	1097.2	0.27	97.66
70.0-71.0	27.5	2.8	1100.0	0.25	97.91
71.0-72.0	25.5	2.7	1102.7	0.24	98.15

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[illegible]

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Humidity: 65
Inspector:

Zonal Lumen (Continue 3)

cone flux(90°): 828.86 lm

%lum = 73.8%

%lamp = 73.8%

cone flux(120°): 1055.06 lm

%lum = 93.9%

%lamp = 93.9%

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	631.8	631.8	631.8	631.8	631.8					
G5.0	691.9	593.9	557.3	653.8	691.9					
G10.0	730.1	541.4	477.7	657.0	730.1					
G15.0	748.8	486.0	404.3	642.5	748.8					
G20.0	748.7	433.3	341.8	613.7	748.7					
G25.0	733.6	384.6	287.2	578.7	733.6					
G30.0	707.3	337.3	241.8	538.0	707.3					
G35.0	670.1	290.0	200.6	494.8	670.1					
G40.0	612.8	239.5	163.3	443.0	612.8					
G45.0	516.2	180.2	128.4	366.4	516.2					
G50.0	390.8	110.8	91.7	272.4	390.8					
G55.0	233.0	64.7	78.6	159.4	233.0					
G60.0	100.0	51.9	65.6	62.5	100.0					
G65.0	29.4	40.8	52.0	37.8	29.4					
G70.0	19.8	29.5	38.0	26.9	19.8					
G75.0	12.3	19.4	25.5	18.5	12.3					
G80.0	7.8	10.8	14.5	11.4	7.8					
G85.0	5.2	3.9	5.6	5.7	5.2					
G90.0	2.8	0.8	1.1	1.4	2.8					
G644.9	602.4	572.4	651.0	680.9	0.0					
G701.1	553.0	492.8	657.7	724.3	0.0					
G735.7	497.7	419.0	646.7	746.7	0.0					
G750.1	444.2	353.4	620.0	750.0	0.0					
G746.6	394.1	298.0	586.0	737.6	0.0					
G729.3	346.4	250.3	546.1	713.2	4.0					
G700.8	299.4	209.1	504.3	678.8	9.0					
G659.6	250.6	170.2	454.2	626.9	14.0					
G597.9	191.9	135.8	383.0	537.9	19.0					
G493.9	123.2	98.6	293.6	418.9	24.0					
G357.7	69.6	80.9	179.7	264.6	29.0					
G206.4	54.2	68.5	79.4	126.3	34.0					
G75.6	43.0	54.7	40.1	32.7	39.0					
G27.0	31.8	40.9	28.9	21.4	44.0					
G18.1	21.4	28.0	20.1	13.7	49.0					
G11.4	12.5	16.6	12.8	8.7	54.0					
G7.2	5.2	7.3	6.7	5.5	59.0					
G5.0	0.7	1.1	2.3	4.3	64.0					

C Plane (°):0.0-360.0: 90.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jack

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1800B
Distance: 8.705 m [K=1.0000]
Humidity: 65
Inspector:

LED Average Luminance Report

Avg.L	cd/m ²
L 0-180(65) av	26511.34
L 0-180(75) av	20093.13
L 0-180(85) av	17027.27
L 90-270(65) av	25621.33
L 90-270(75) av	20145.26
L 90-270(85) av	15130.08
L 45(65) av	26066.34
L 45(75) av	20119.19
L 45(85) av	16078.67

Standard: GB/T 29293-2012