

Report No.:

Test Time: 2019-07-25 10:56

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 0.3m 净化灯 Spark

Current: 0.079 A

Power Factor: 0.508

Voltage: 230.2 V

Power: 9.32 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 730 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.0, 154.3, 171.7, 171.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.1, 111.4, 114.1, 114.2

Luminaire Efficacy Rating (LER): 78.37

Max. Intensity: 247.4 cd

S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 730.0 lm

Efficiency: 100%

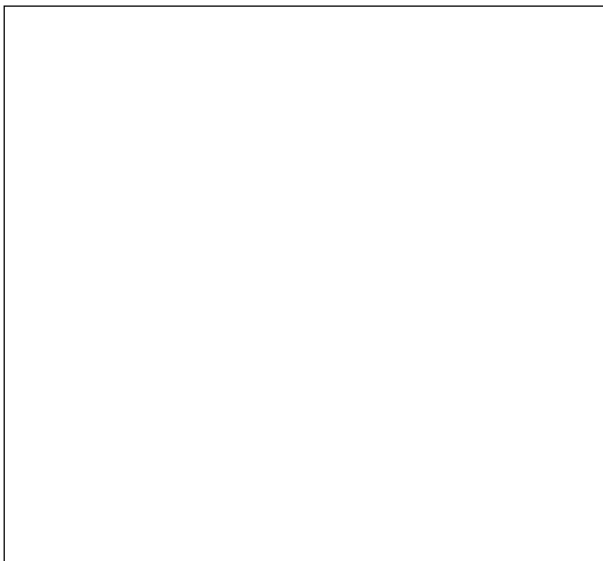
Upward Ratio: 0%

Central Intensity: 247.19 cd

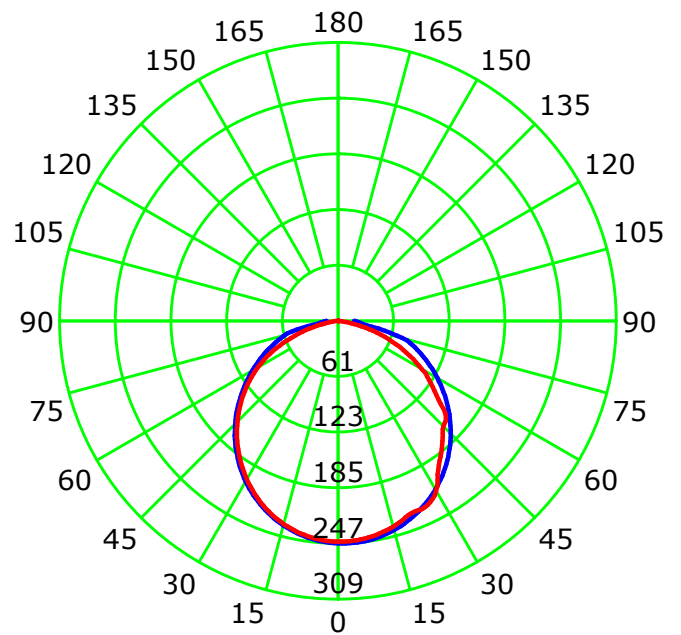
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 45.0

Test Lab: Trontop

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

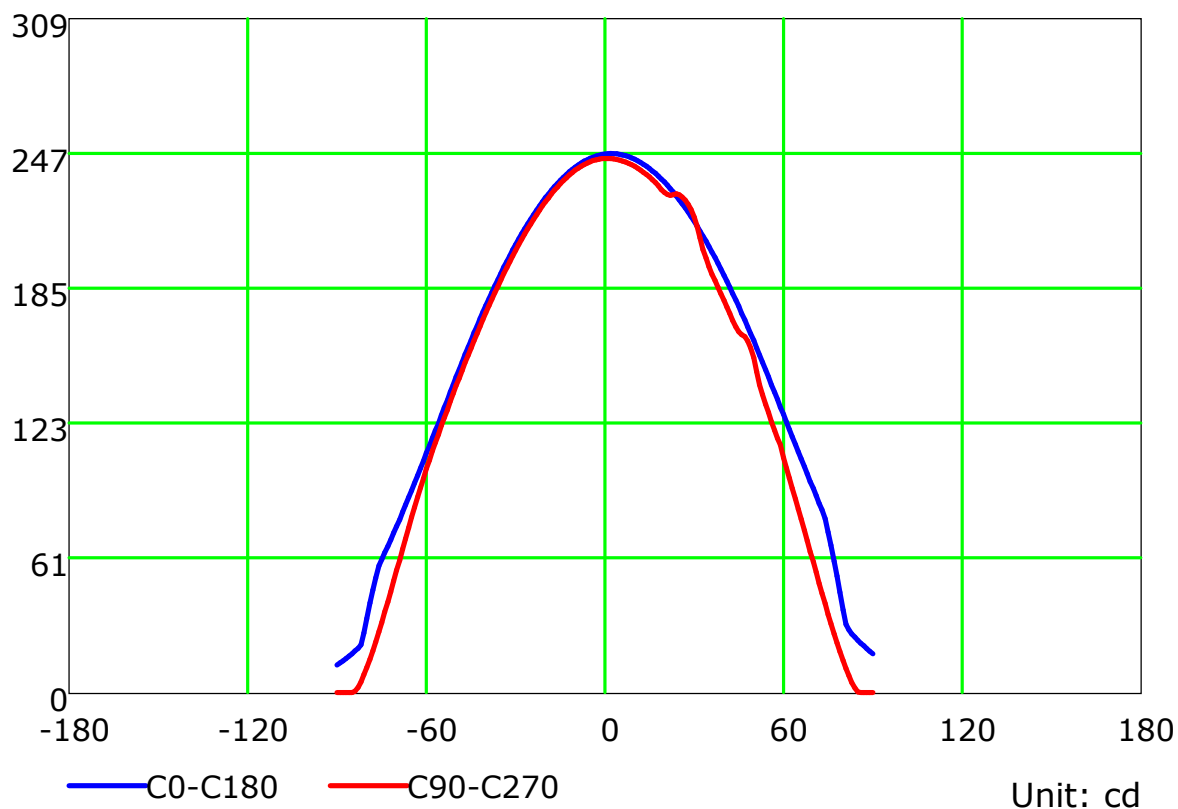
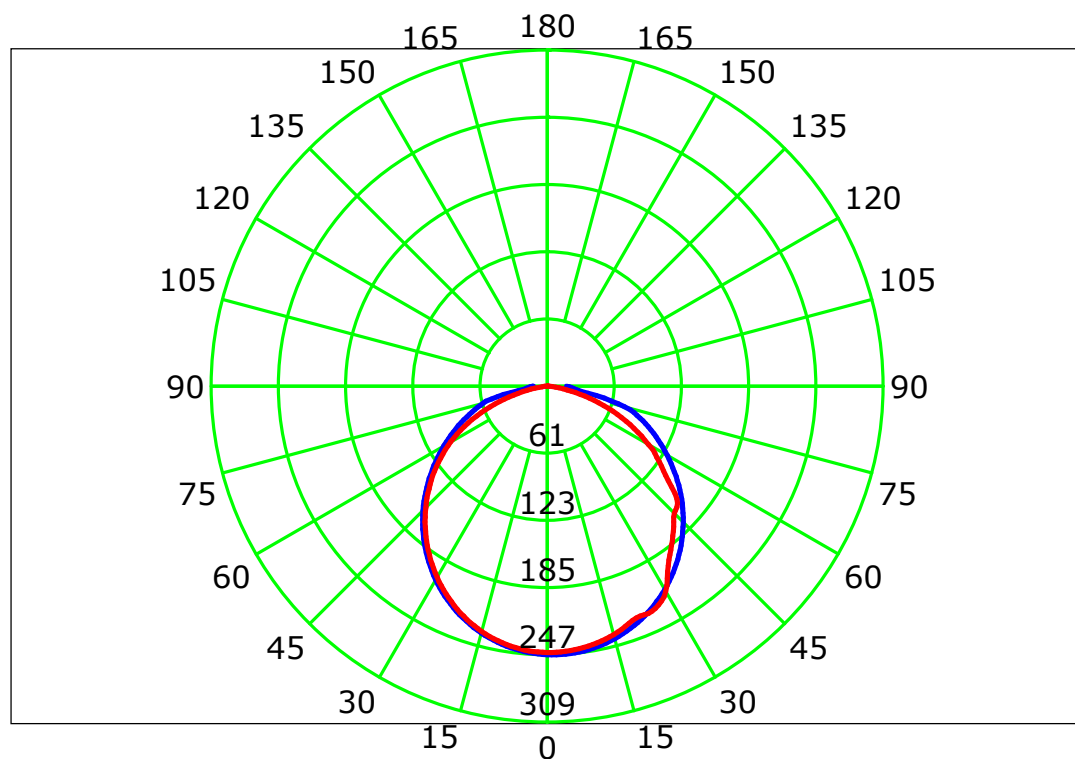
Test Device: GPM-1600L

Distance: 7.400 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0  
Test Lab: Trontop  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 7.400 m  
Humidity:  
Inspector:

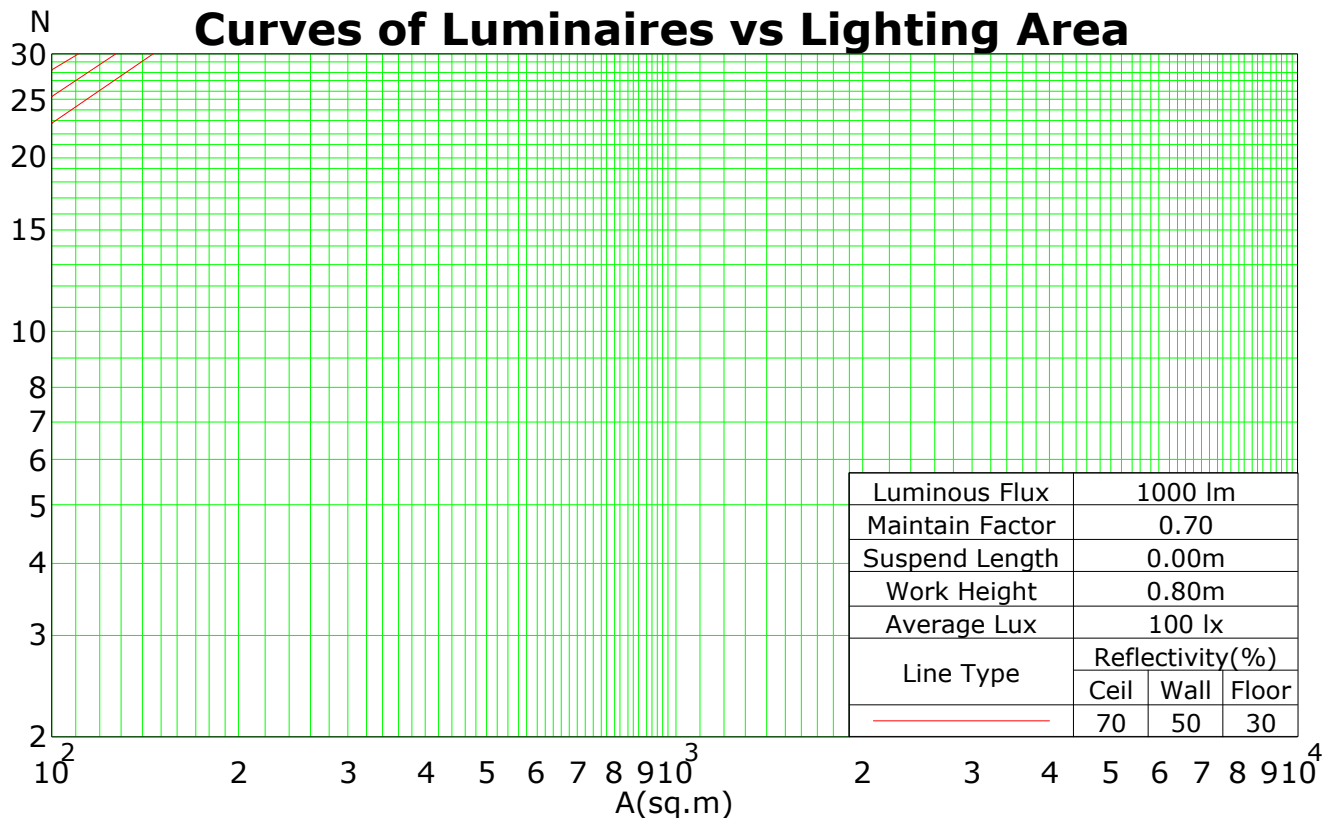
## Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	50	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.38



C Plane (°):0.0-360.0: 45.0

Test Lab: Trontop

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

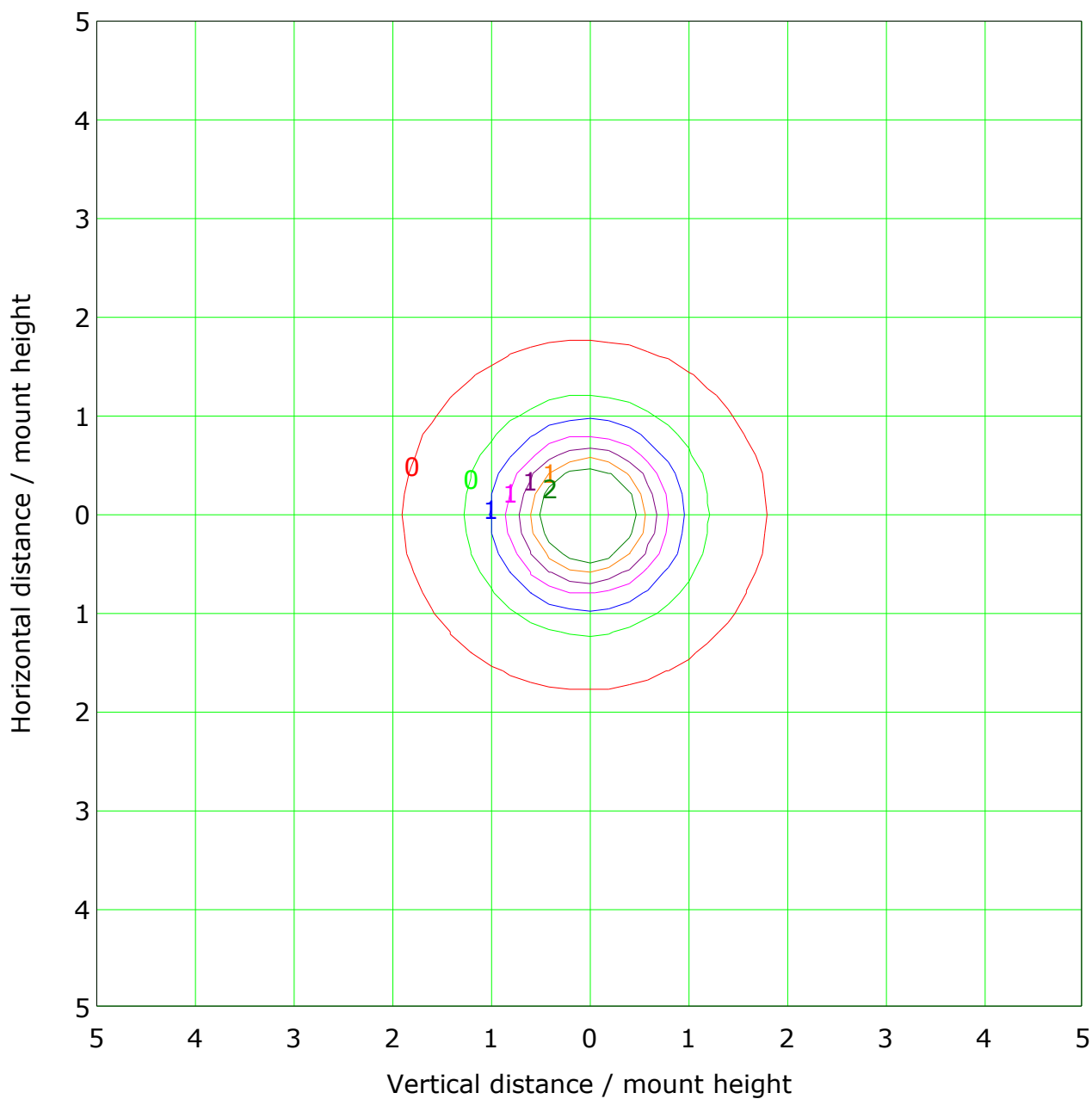
Test Device: GPM-1600L

Distance: 7.400 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 2.5 lx	
( 5%):	0.1 lx	( 15%):	0.4 lx
( 25%):	0.6 lx	( 35%):	0.9 lx
( 45%):	1.1 lx	( 55%):	1.4 lx
( 65%):	1.6 lx		

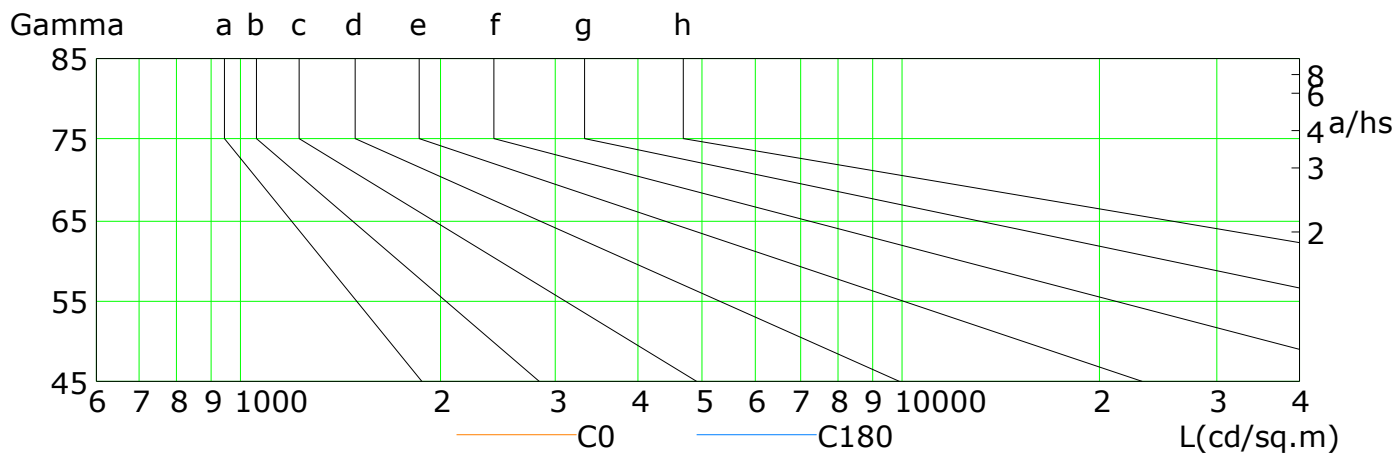
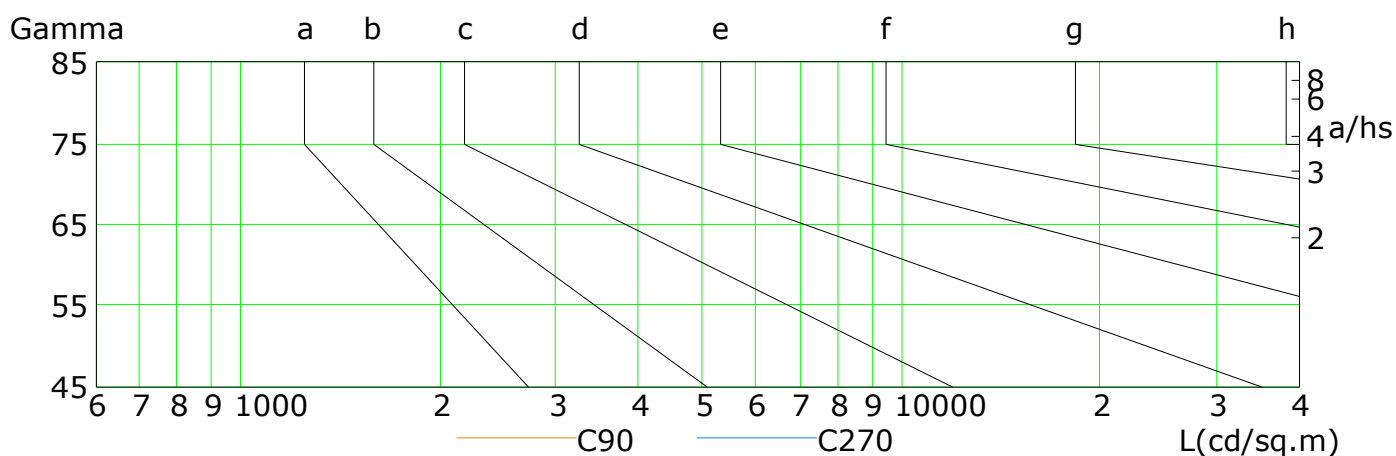
C Plane (°):0.0-360.0: 45.0  
Test Lab: Trontop  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 7.400 m  
Humidity:  
Inspector:

## 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

a b c d e f g h

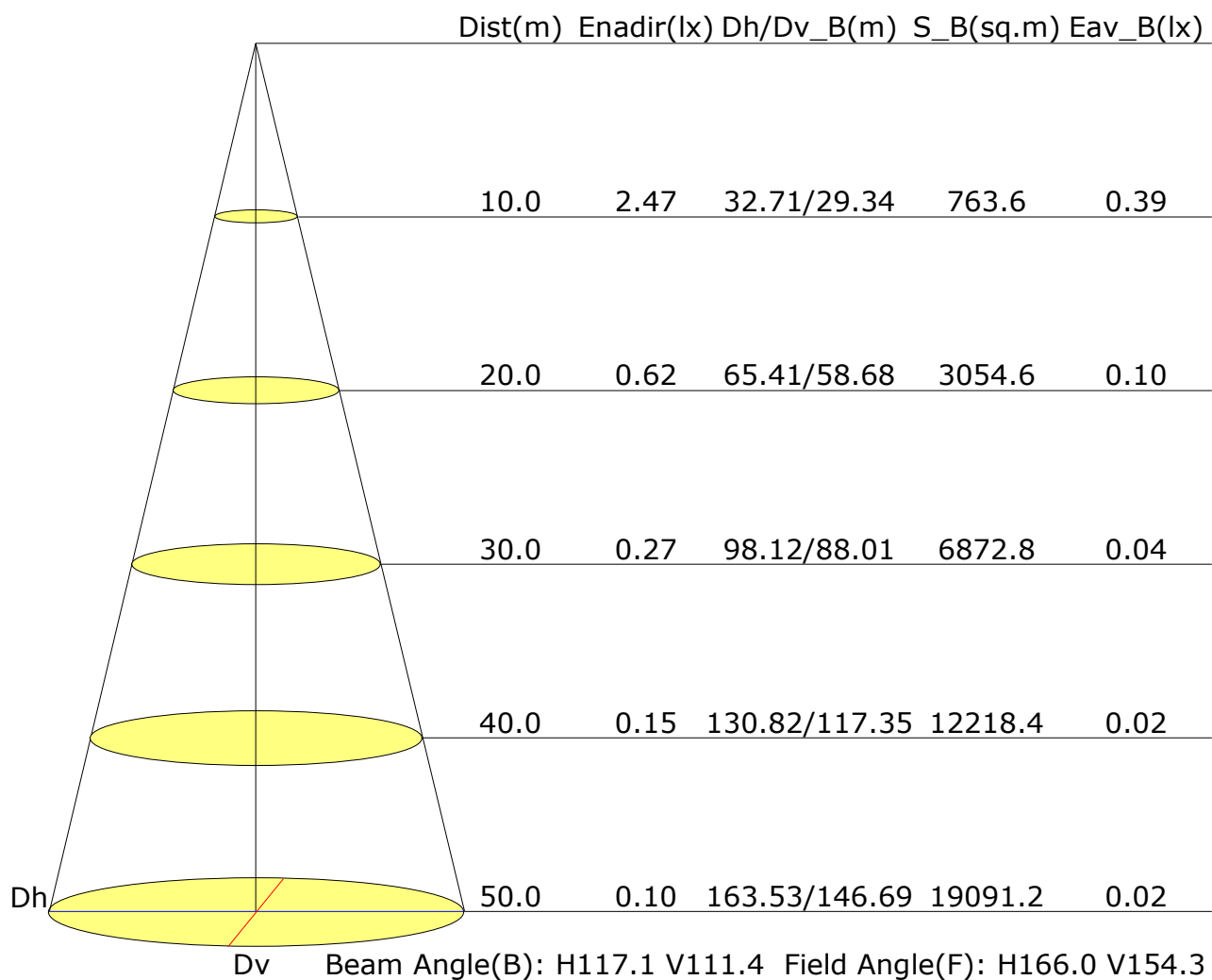


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	177	162	145	128	111	94	74	38	24
C90	166	154	129	108	84	60	36	15	0
C180	162	145	127	110	93	76	61	34	18
C270	158	141	123	103	81	56	32	11	0

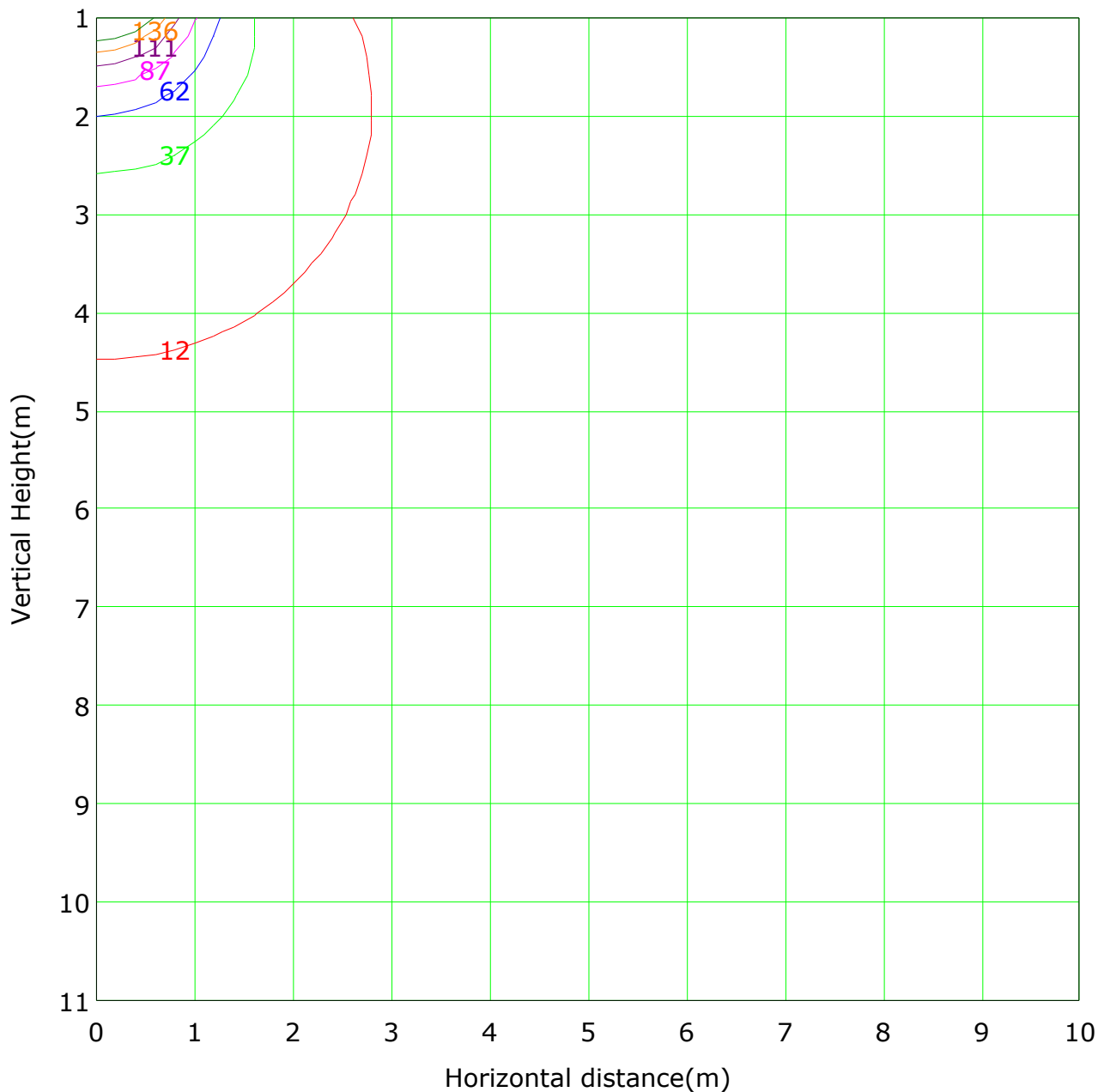
C Plane (°):0.0-360.0: 45.0  
 Test Lab: Trontop  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1600L  
 Distance: 7.400 m  
 Humidity:  
 Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



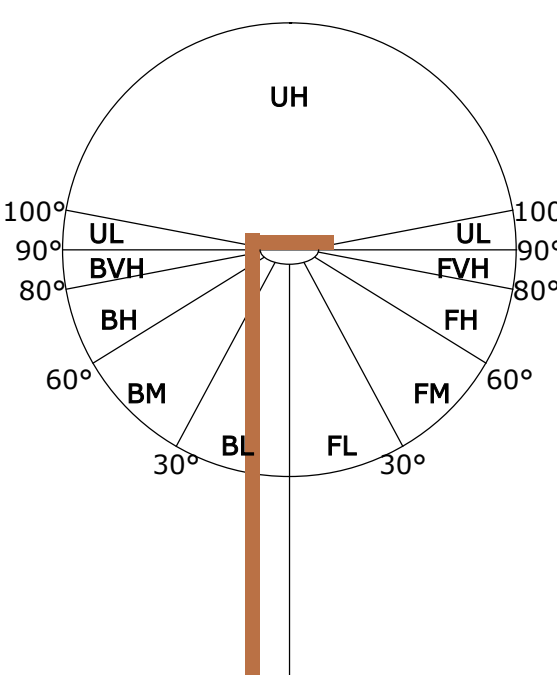
Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 247.2 lx

( 5%): 12.4 lx	( 15%): 37.1 lx
( 25%): 61.8 lx	( 35%): 86.5 lx
( 45%): 111.2 lx	( 55%): 136.0 lx
( 65%): 160.7 lx	

C Plane (°):0.0-360.0: 45.0  
Test Lab: Trontop  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 7.400 m  
Humidity:  
Inspector:

# **FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	371	50.8
	FL ( 0°-30°)	96	13.2
	FM (30°-60°)	187	25.7
	FH (60°-80°)	76	10.4
	FVH (80°-90°)	11	1.6
	BACK LIGHT	359	49.2
	BL ( 0°-30°)	95	13.0
	BM (30°-60°)	181	24.8
	BH (60°-80°)	73	10.0
	BVH (80°-90°)	10	1.4
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U1 G1

C Plane (°):0.0-360.0: 45.0  
Test Lab: Trontop  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: GPM-1600L  
Distance: 7.400 m  
Humidity:  
Inspector:



## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	245.8	0.2	0.2	0.03	0.03
1.0-2.0	245.7	0.7	0.9	0.10	0.13
2.0-3.0	245.5	1.2	2.1	0.16	0.29
3.0-4.0	245.2	1.6	3.8	0.22	0.51
4.0-5.0	244.9	2.1	5.9	0.29	0.80
5.0-6.0	244.5	2.6	8.4	0.35	1.16
6.0-7.0	243.9	3.0	11.5	0.41	1.57
7.0-8.0	243.3	3.5	14.9	0.48	2.05
8.0-9.0	242.6	3.9	18.9	0.54	2.59
9.0-10.0	241.9	4.4	23.3	0.60	3.19
10.0-11.0	241.0	4.8	28.1	0.66	3.85
11.0-12.0	240.0	5.2	33.3	0.72	4.56
12.0-13.0	239.0	5.7	39.0	0.78	5.34
13.0-14.0	237.9	6.1	45.1	0.83	6.18
14.0-15.0	236.7	6.5	51.6	0.89	7.07
15.0-16.0	235.5	6.9	58.5	0.95	8.01
16.0-17.0	234.1	7.3	65.8	1.00	9.01
17.0-18.0	232.7	7.7	73.4	1.05	10.06
18.0-19.0	231.1	8.0	81.5	1.10	11.16
19.0-20.0	229.5	8.4	89.9	1.15	12.31
20.0-21.0	227.9	8.8	98.6	1.20	13.51
21.0-22.0	226.3	9.1	107.7	1.25	14.76
22.0-23.0	224.7	9.4	117.2	1.29	16.05
23.0-24.0	223.1	9.8	126.9	1.34	17.39
24.0-25.0	221.3	10.1	137.0	1.38	18.77
25.0-26.0	219.4	10.4	147.3	1.42	20.18
26.0-27.0	217.4	10.6	158.0	1.46	21.64
27.0-28.0	215.3	10.9	168.9	1.49	23.14
28.0-29.0	213.2	11.2	180.0	1.53	24.66
29.0-30.0	210.9	11.4	191.4	1.56	26.22
30.0-31.0	208.6	11.6	203.0	1.59	27.82
31.0-32.0	206.2	11.8	214.9	1.62	29.43
32.0-33.0	203.6	12.0	226.9	1.64	31.08
33.0-34.0	201.1	12.2	239.0	1.67	32.74
34.0-35.0	198.5	12.3	251.4	1.69	34.43
35.0-36.0	195.9	12.5	263.8	1.71	36.14

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 Humidity:  
 Inspector:

## 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	193.2	12.6	276.4	1.73	37.87
37.0-38.0	190.4	12.7	289.1	1.74	39.61
38.0-39.0	187.5	12.8	301.9	1.75	41.36
39.0-40.0	184.5	12.9	314.8	1.76	43.13
40.0-41.0	181.3	12.9	327.7	1.77	44.89
41.0-42.0	178.0	12.9	340.7	1.77	46.67
42.0-43.0	174.6	12.9	353.6	1.77	48.44
43.0-44.0	171.1	12.9	366.5	1.77	50.21
44.0-45.0	167.6	12.9	379.4	1.76	51.97
45.0-46.0	164.2	12.8	392.2	1.76	53.73
46.0-47.0	161.0	12.8	405.0	1.75	55.49
47.0-48.0	157.7	12.8	417.8	1.75	57.23
48.0-49.0	154.3	12.7	430.5	1.74	58.97
49.0-50.0	150.9	12.6	443.0	1.72	60.69
50.0-51.0	147.1	12.5	455.5	1.71	62.40
51.0-52.0	143.3	12.3	467.8	1.68	64.08
52.0-53.0	139.6	12.1	479.9	1.66	65.75
53.0-54.0	135.8	12.0	491.9	1.64	67.39
54.0-55.0	132.2	11.8	503.7	1.62	69.01
55.0-56.0	128.5	11.6	515.3	1.59	70.60
56.0-57.0	124.8	11.4	526.7	1.56	72.16
57.0-58.0	121.3	11.2	538.0	1.54	73.70
58.0-59.0	117.6	11.0	549.0	1.51	75.20
59.0-60.0	113.9	10.8	559.7	1.47	76.68
60.0-61.0	110.0	10.5	570.2	1.44	78.12
61.0-62.0	106.1	10.2	580.4	1.40	79.52
62.0-63.0	102.3	10.0	590.4	1.36	80.88
63.0-64.0	98.5	9.7	600.1	1.32	82.20
64.0-65.0	94.8	9.4	609.4	1.29	83.49
65.0-66.0	91.3	9.1	618.6	1.25	84.74
66.0-67.0	87.6	8.8	627.4	1.21	85.94
67.0-68.0	83.7	8.5	635.8	1.16	87.10
68.0-69.0	79.5	8.1	644.0	1.11	88.22
69.0-70.0	75.3	7.7	651.7	1.06	89.28
70.0-71.0	71.3	7.4	659.1	1.01	90.29
71.0-72.0	67.3	7.0	666.1	0.96	91.24

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Test Device: GPM-1600L  
Distance: 7.400 m  
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