Report No.: 5寸 **Test Time:** 2021-01-06 10:25

Luminaire Property

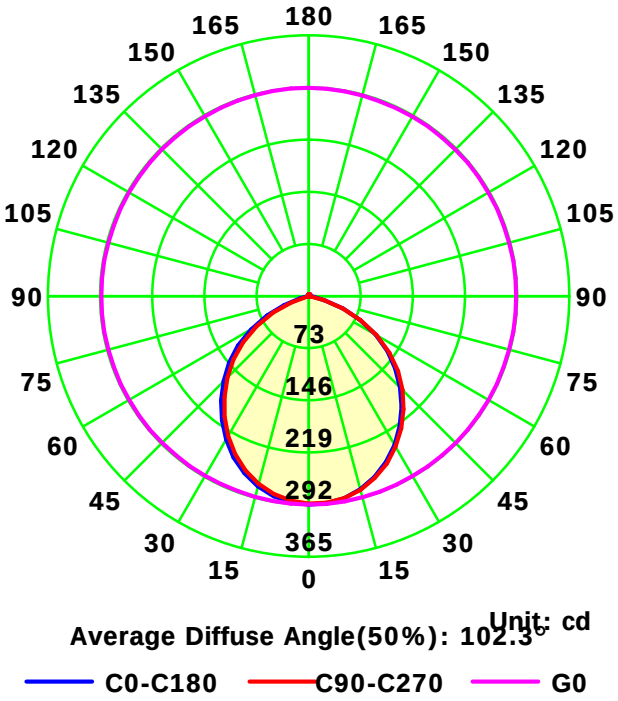
Luminaire Manufacturer:
Lamp Catalog: LED
Voltage: 120.0 V
Power: 9.11 W
Lamp Description: LED
Current: 0.078 A
Power Factor: 0.973

Photometric Results

CIE Class: Direct
Measurement Flux: 714.9 lm
Downward Ratio: 99%
Field Angle: H145.7 V143.3
Luminaire Efficacy Rating (LER): 78
Max. Intensity: 292.67 cd
Total Rated Lamp Lumens: 714.9 lm
Efficiency: 100%
Upward Ratio: 1%
Beam Angle: H102.5 V102.0
Central Intensity: 292.66 cd
Pos of Max. Intensity: H0 V0

Picture Of Luminaire

Luminous Intensity Distribution Curve



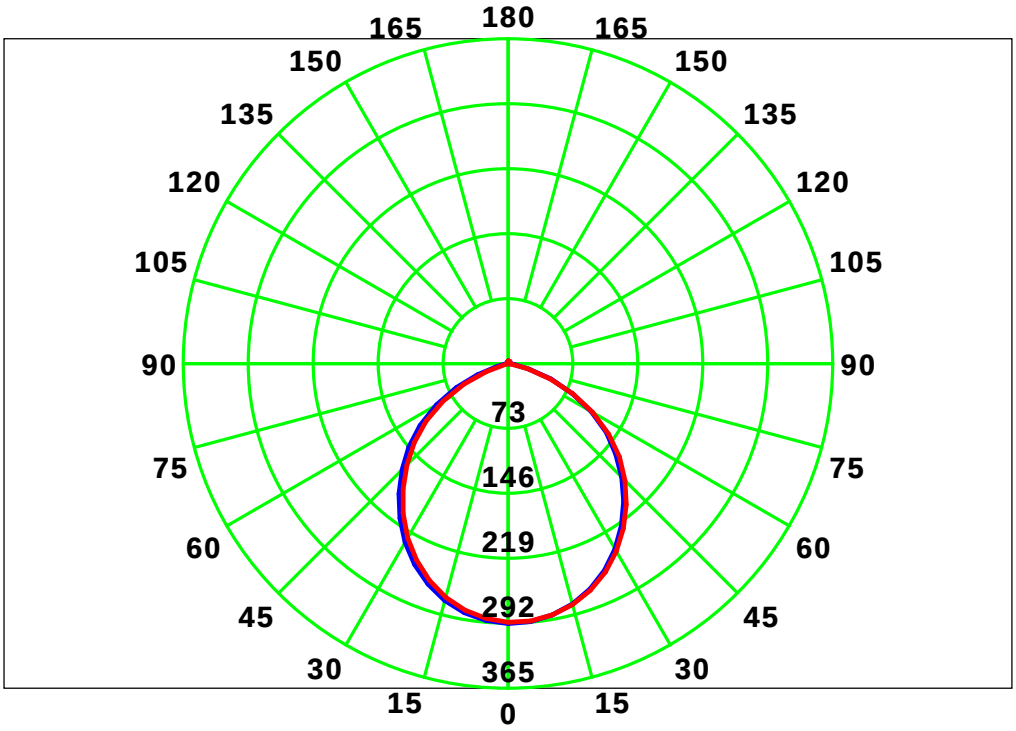
Unit: cd

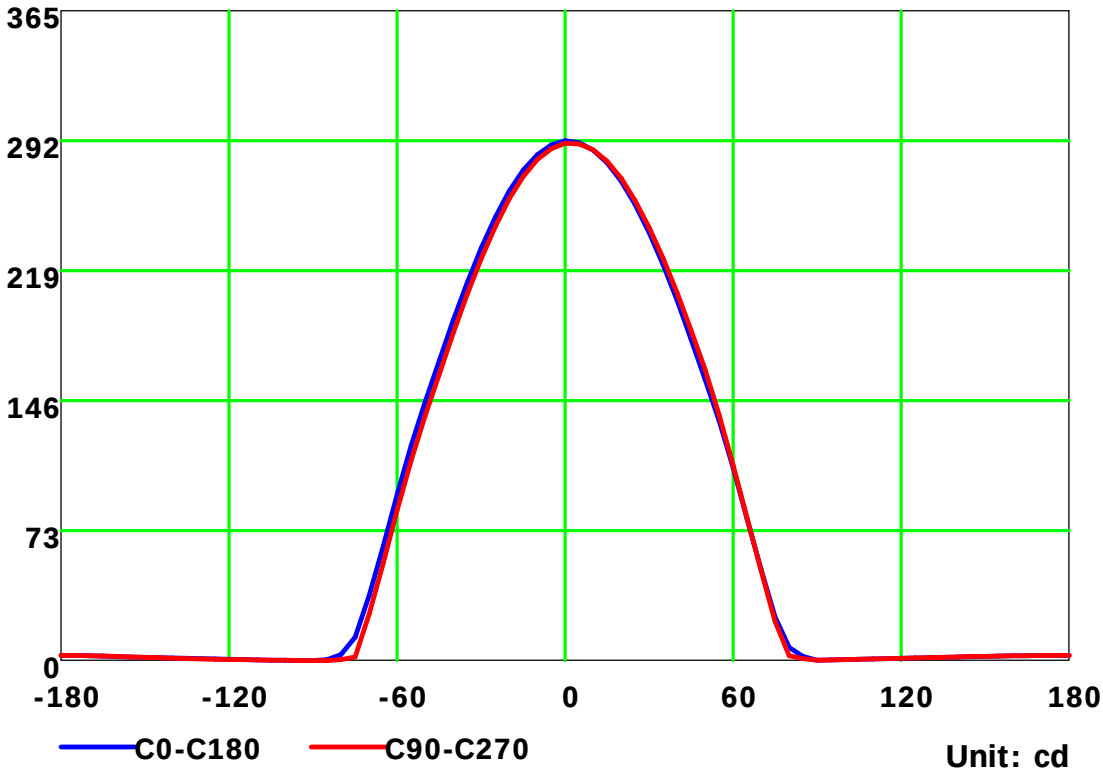
Average Diffuse Angle(50%): 102.3°

C0-C180 C90-C270 G0

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25℃
Operator:
Gamma Plane (°):0.0-180.0:5.0
Test Device: GPM-1600L
Distance: 6.361 m
Humidity: 56%
Inspector:

Luminous Intensity Distribution Curve





C Plane (°):0.0-360.0: 22.5
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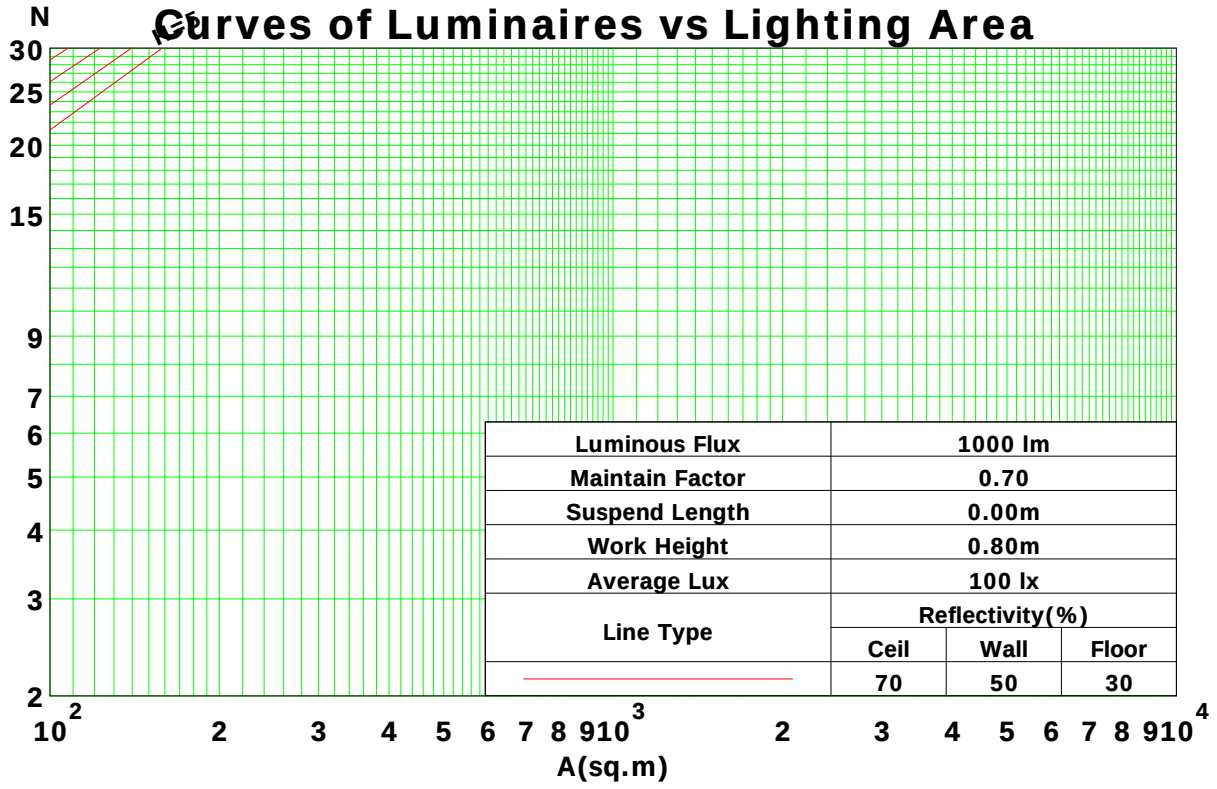
Coefficients Of Utilization - Zonal Cavity Method

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
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	110	106	102	99	107	103	100	97	99	96	94	95	93	91	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	72	68	64	62
4	85	74	65	59	82	72	64	59	70	63	58	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	41	36	31	30
10	55	42	34	29	54	42	34	29	40	34	29	39	33	29	39	33	29	27

Spacing Criteria (0-180): 1.20
Spacing Criteria (90-270): 1.20
Spacing Criteria (Diagonal): 1.30

Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 22.5
Test Lab:
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Gamma Plane (°):0.0-180.0:5.0
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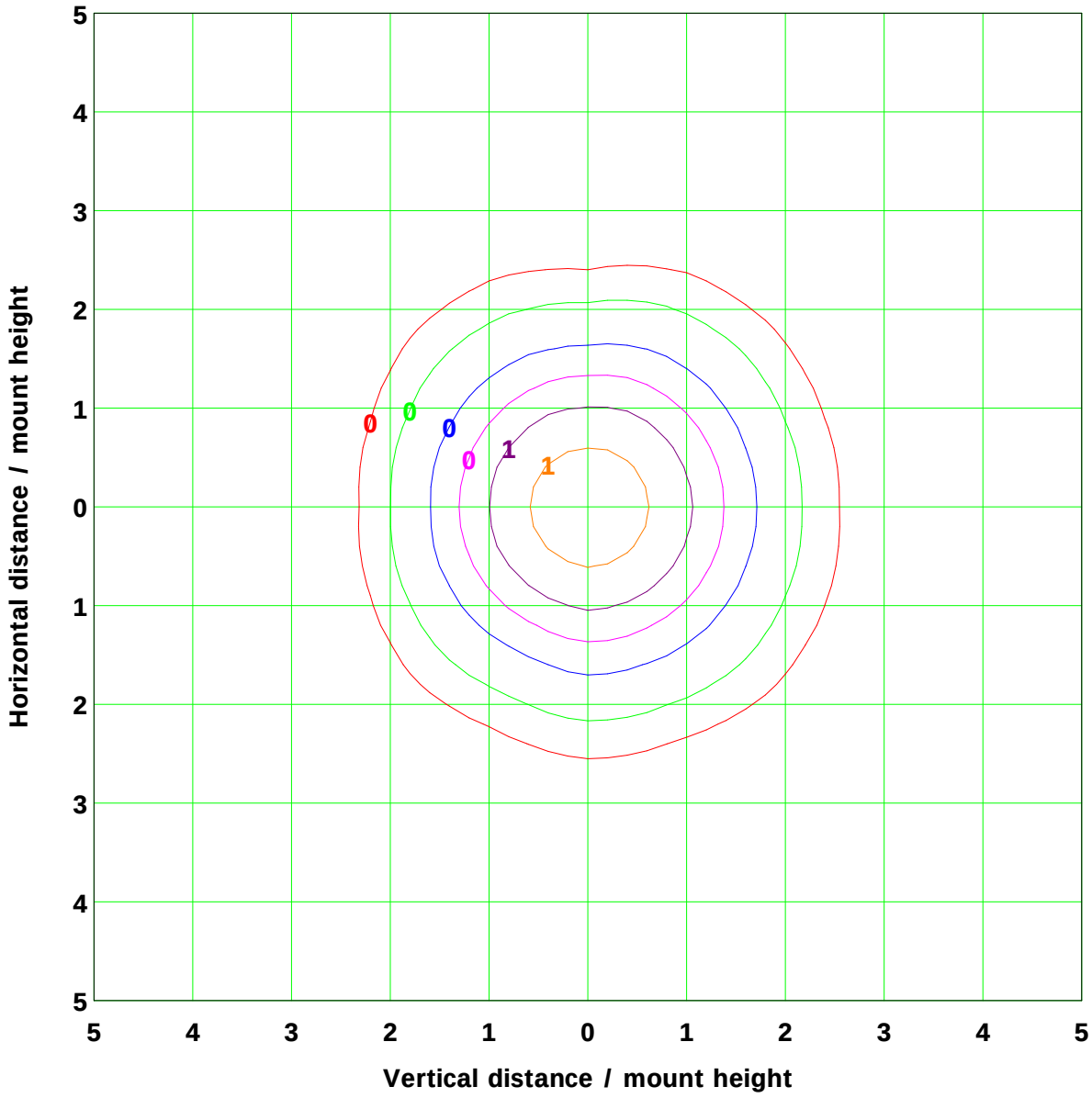
Distance: 6.361 m
Humidity: 56%
Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 2.9 lx

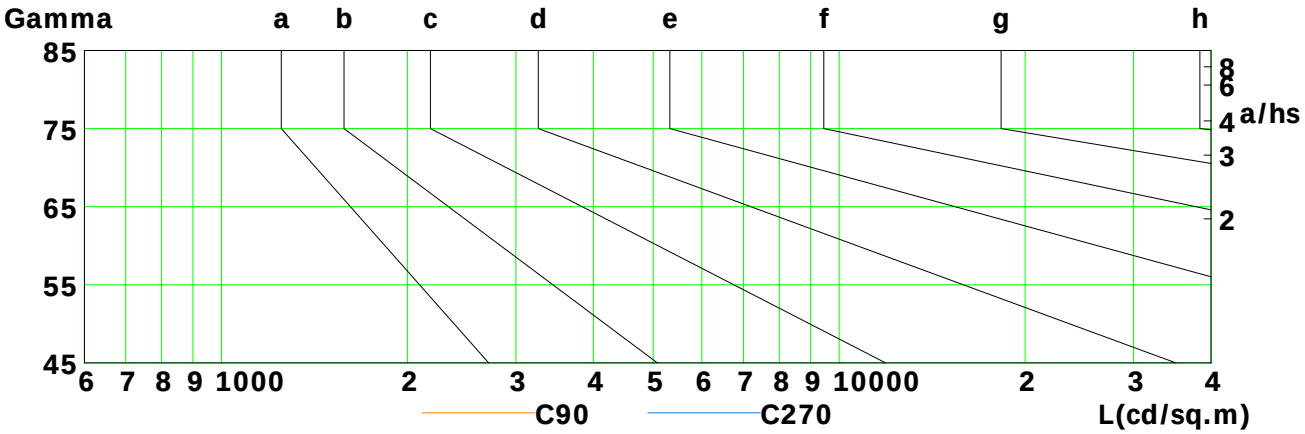
(1%): 0.0 lx	(2%): 0.1 lx
(5%): 0.1 lx	(10%): 0.3 lx
(20%): 0.6 lx	(50%): 1.5 lx
(100%): 2.9 lx	

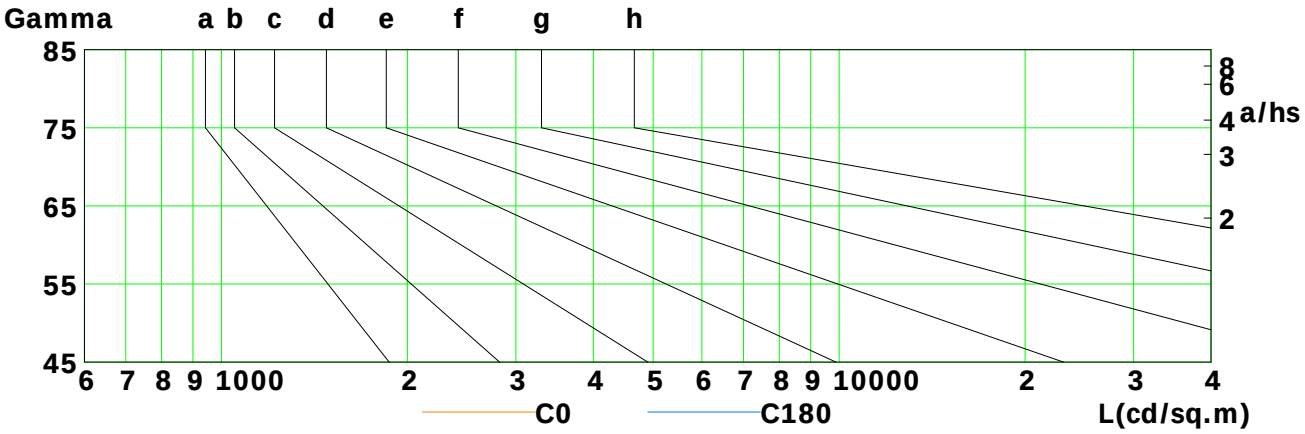
C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25℃
Operator:

Gamma Plane (°):0.0-180.0:5.0
Test Device: GPM-1600L
Distance: 6.361 m
Humidity: 56%
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



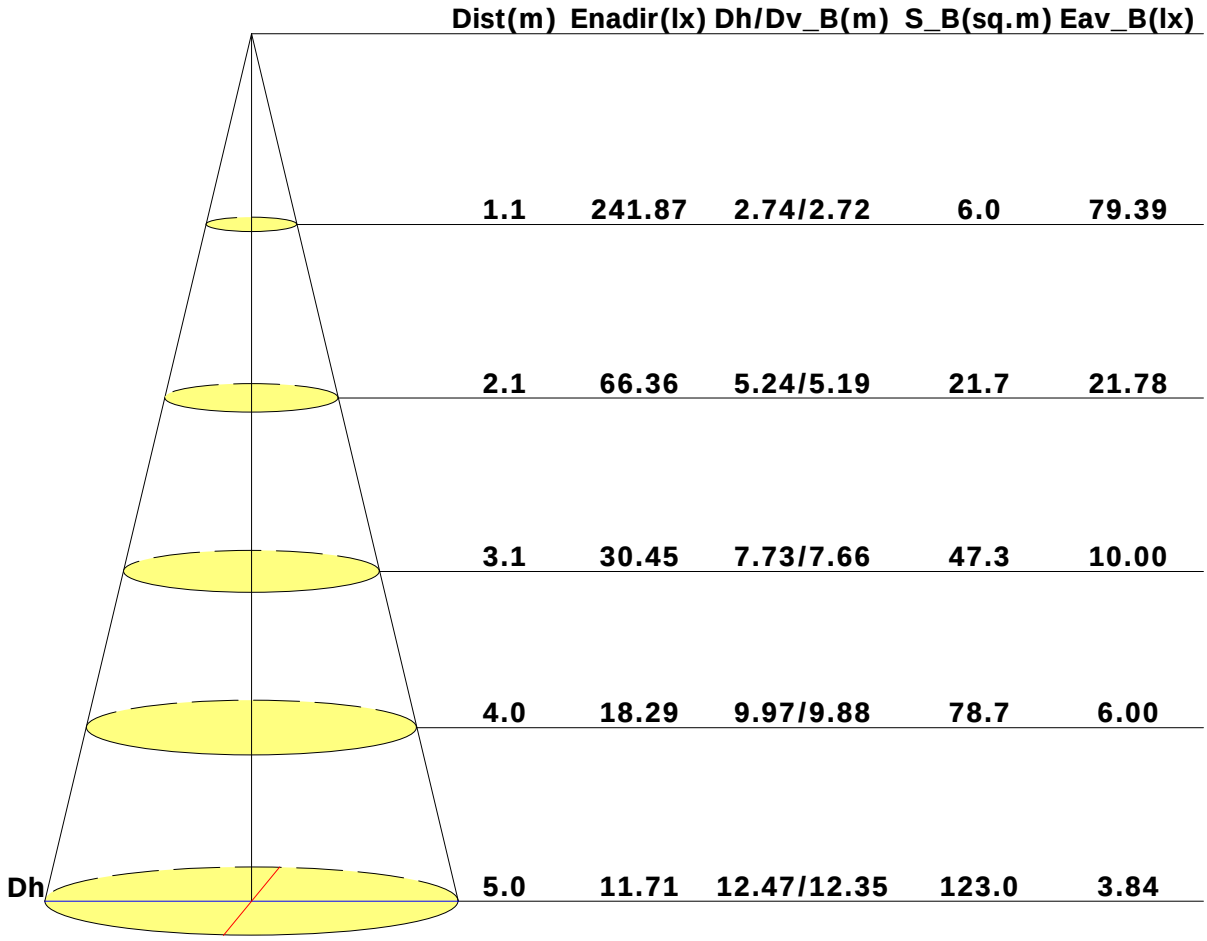


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	181	158	135	109	80	52	25	8	2
C90	186	164	139	110	81	51	22	3	1
C180	169	146	121	94	65	37	13	4	1
C270	161	138	113	85	55	26	2	1	0

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25℃
Operator:

Gamma Plane (°):0.0-180.0:5.0
Test Device: GPM-1600L
Distance: 6.361 m
Humidity: 56%
Inspector:

Illuminance at a Distance



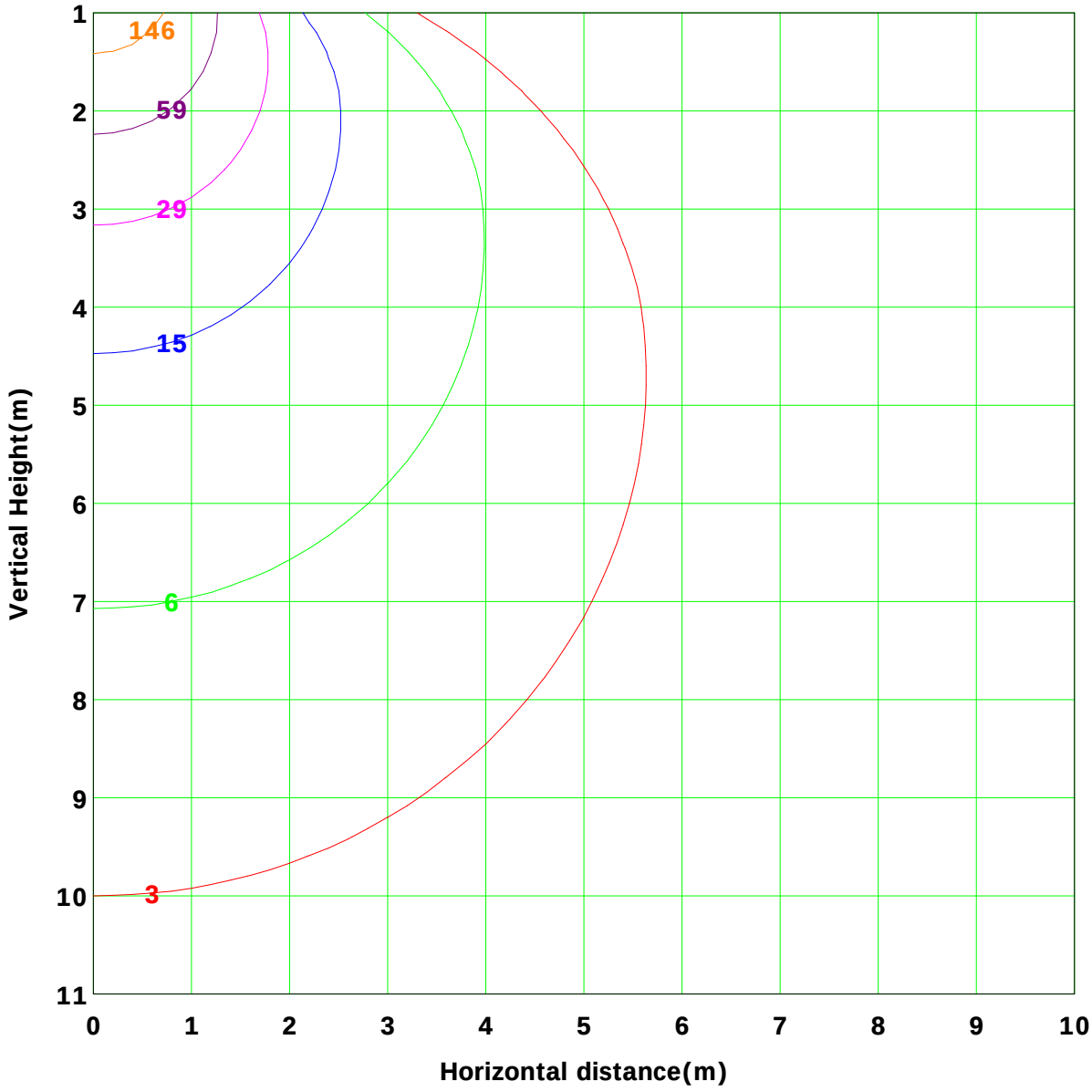
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.1	241.87	2.74/2.72	6.0	79.39
2.1	66.36	5.24/5.19	21.7	21.78
3.1	30.45	7.73/7.66	47.3	10.00
4.0	18.29	9.97/9.88	78.7	6.00
5.0	11.71	12.47/12.35	123.0	3.84

Beam Angle(B): H102.5 V102.0 Field Angle(F): H145.7 V143.3

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25℃
Operator:

Gamma Plane (°):0.0-180.0:5.0
Test Device: GPM-1600L
Distance: 6.361 m
Humidity: 56%
Inspector:

Vertical IsoLux Plot



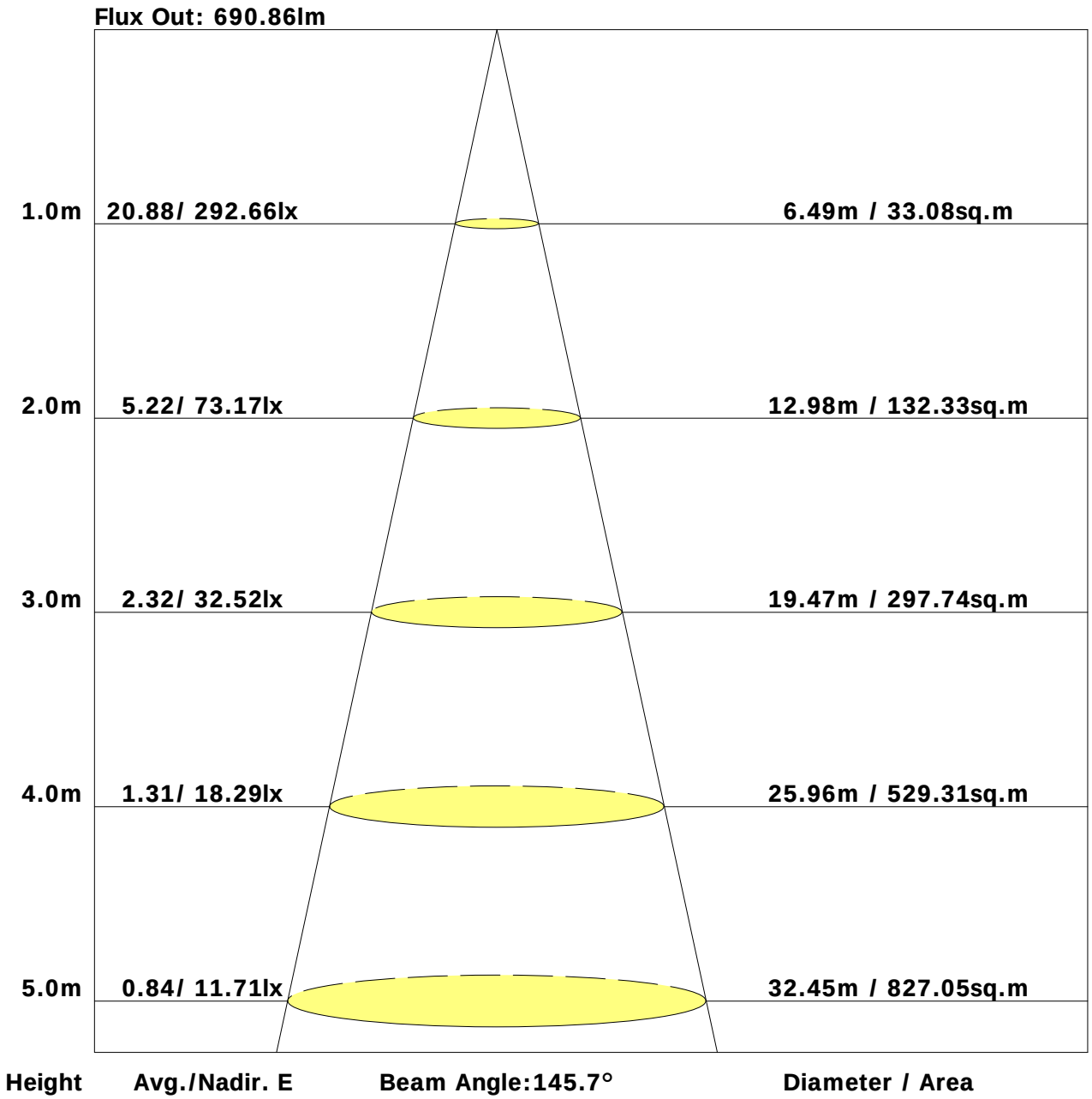
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 292.7 lx

(1%): 2.9 lx
(2%): 5.9 lx
(5%): 14.6 lx
(10%): 29.3 lx
(20%): 58.5 lx
(50%): 146.3 lx
(100%): 292.7 lx

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25℃
Operator:

Gamma Plane (°):0.0-180.0:5.0
Test Device: GPM-1600L
Distance: 6.361 m
Humidity: 56%
Inspector:

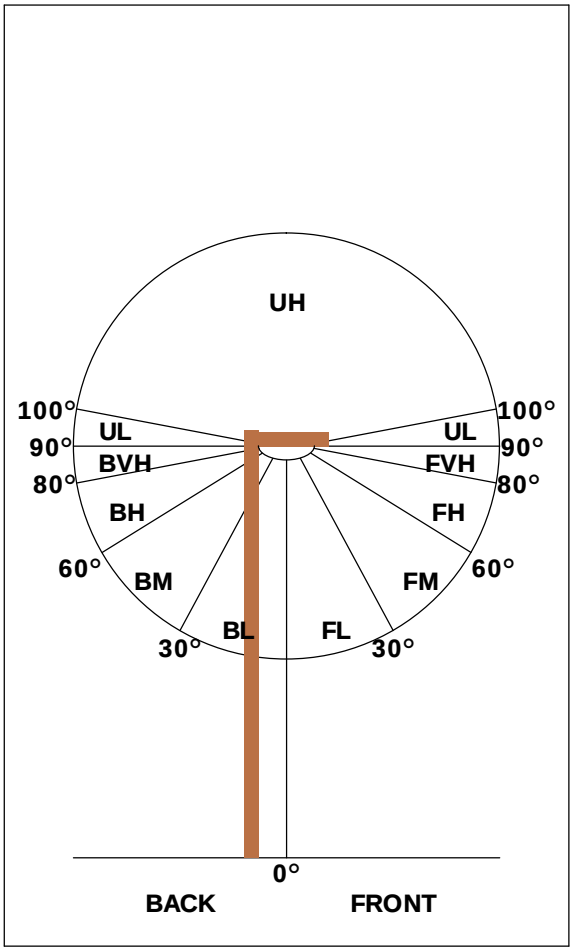
The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25℃
Operator:

Gamma Plane (°):0.0-180.0:5.0
Test Device: GPM-1600L
Distance: 6.361 m
Humidity: 56%
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	355	49.7
FL (0°-30°)	111	15.5
FM (30°-60°)	192	26.9
FH (60°-80°)	50	7.0
FVH (80°-90°)	2	0.2
BACK LIGHT	353	49.3
BL (0°-30°)	111	15.5
BM (30°-60°)	192	26.8
BH (60°-80°)	49	6.8
BVH (80°-90°)	1	0.2
UP LIGHT	7	1.0
UL (90°-100°)	0	0.0
UH (100°-180°)	7	1.0
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G0

C Plane (°):0.0-360.0: 22.5
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Humidity: 56%
Inspector:

Tel:
Fax:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-5.0	290.7	7.0	7.0	0.97	0.97
5.0-10.0	287.5	20.6	27.5	2.88	3.85
10.0-15.0	281.2	33.4	60.9	4.67	8.52
15.0-20.0	271.7	44.8	105.7	6.26	14.78
20.0-25.0	259.2	54.4	160.0	7.60	22.38
25.0-30.0	243.9	61.7	221.8	8.64	31.02
30.0-35.0	226.2	66.6	288.4	9.32	40.34
35.0-40.0	206.5	68.9	357.3	9.64	49.98
40.0-45.0	185.1	68.6	425.9	9.59	59.57
45.0-50.0	162.8	65.8	491.6	9.20	68.77
50.0-55.0	139.6	60.7	552.3	8.49	77.26
55.0-60.0	114.9	53.1	605.5	7.43	84.69
60.0-65.0	88.2	42.9	648.3	6.00	90.69
65.0-70.0	60.6	30.7	679.0	4.29	94.98
70.0-75.0	34.2	17.9	696.9	2.50	97.48
75.0-80.0	14.3	7.7	704.6	1.07	98.55
80.0-85.0	4.4	2.4	707.0	0.33	98.89
85.0-90.0	1.0	0.6	707.5	0.08	98.96
90.0-95.0	0.3	0.2	707.7	0.02	98.99
95.0-100.0	0.4	0.2	707.9	0.03	99.01
100.0-105.0	0.5	0.3	708.1	0.04	99.05
105.0-110.0	0.6	0.3	708.4	0.04	99.09
110.0-115.0	0.8	0.4	708.8	0.05	99.15
115.0-120.0	0.9	0.5	709.3	0.06	99.21
120.0-125.0	1.1	0.5	709.8	0.07	99.28
125.0-130.0	1.3	0.6	710.4	0.08	99.36
130.0-135.0	1.5	0.6	711.0	0.08	99.45
135.0-140.0	1.7	0.6	711.6	0.09	99.53
140.0-145.0	1.9	0.6	712.2	0.09	99.62
145.0-150.0	2.1	0.6	712.8	0.09	99.70
150.0-155.0	2.3	0.6	713.4	0.08	99.79
155.0-160.0	2.4	0.5	713.9	0.07	99.86
160.0-165.0	2.6	0.4	714.3	0.06	99.92
165.0-170.0	2.7	0.3	714.6	0.05	99.96
170.0-175.0	2.9	0.2	714.8	0.03	99.99
175.0-180.0	2.9	0.1	714.9	0.01	100.00

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25℃
Operator:

Gamma Plane (°):0.0-180.0:5.0
Test Device: GPM-1600L
Distance: 6.361 m
Humidity: 56%
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G0.0	292.7	291.9	291.5	291.4	291.2	291.3	291.2	291.0	292.7	291.9
G5.0	291.7	290.9	290.8	291.0	291.0	290.8	290.6	290.4	290.4	289.8
G10.0	287.6	286.7	287.0	287.4	287.6	287.1	286.9	286.6	284.9	284.5
G15.0	280.4	279.5	280.0	280.8	281.2	280.5	280.1	279.6	276.2	275.8
G20.0	270.0	269.0	270.0	271.1	271.6	270.6	270.1	269.6	264.4	264.1
G25.0	257.0	255.9	257.3	258.6	259.3	258.0	257.4	256.9	249.8	249.5
G30.0	241.1	240.1	241.8	243.4	244.1	242.6	242.0	241.4	232.4	232.2
G35.0	222.9	222.1	224.0	225.8	226.7	225.1	224.3	223.6	212.8	212.8
G40.0	202.7	201.9	204.1	206.2	207.2	205.4	204.5	203.7	191.6	191.4
G45.0	181.2	180.5	182.9	185.1	186.2	184.4	183.5	182.6	168.9	169.0
G50.0	158.5	157.9	160.5	162.9	164.1	162.2	161.3	160.4	145.9	146.0
G55.0	135.3	134.9	137.7	139.0	138.6	138.5	138.6	137.6	121.3	122.7
G60.0	108.5	108.8	114.5	112.3	110.1	111.4	115.9	112.5	93.5	97.9
G65.0	80.2	79.8	88.8	84.7	80.6	82.3	88.3	83.5	64.7	71.9
G70.0	51.6	49.4	59.9	57.5	51.0	53.2	57.5	53.6	36.9	47.0
G75.0	24.6	19.2	32.5	32.3	22.1	26.1	29.0	25.0	13.2	25.4
G80.0	7.5	0.8	12.7	14.7	2.8	6.3	9.3	3.2	3.6	11.6
G85.0	2.4	0.5	4.9	6.3	1.2	2.7	3.9	1.4	0.6	2.5
G90.0	0.3	0.4	0.3	0.4	0.3	0.4	0.5	0.4	0.1	0.2
G95.0	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.2	0.2
G100.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.2	0.2
G105.0	0.7	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.3	0.3
G110.0	0.9	0.9	0.9	0.9	0.9	1.0	0.9	1.0	0.5	0.4
G115.0	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.2	0.6	0.6
G120.0	1.3	1.3	1.3	1.3	1.3	1.4	1.3	1.4	0.8	0.7
G125.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.9	0.9
G130.0	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.7	1.1	1.0
G135.0	1.9	2.0	1.9	1.9	2.0	2.0	2.0	2.0	1.3	1.2
G140.0	2.1	2.2	2.1	2.1	2.2	2.1	2.2	2.2	1.5	1.4
G145.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.7	1.6
G150.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9
G155.0	2.6	2.6	2.6	2.6	2.7	2.6	2.6	2.6	2.1	2.1
G160.0	2.8	2.7	2.7	2.8	2.8	2.7	2.7	2.8	2.3	2.3
G165.0	2.9	2.8	2.8	2.9	2.8	2.8	2.8	2.8	2.5	2.5
G170.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.7	2.7
G175.0	3.0	2.9	2.9	2.9	3.0	2.9	2.9	2.9	3.0	2.9
G180.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.0	2.9

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25℃
Operator:

Gamma Plane (°):0.0-180.0:5.0
Test Device: GPM-1600L
Distance: 6.361 m
Humidity: 56%
Inspector:

Tel:
Fax:

Candlepower Table (Continue 1)

Unit: cd

G\C	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G0.0	291.5	291.4	291.2	291.3	291.2	291.0	292.7			
G5.0	289.1	288.5	288.3	288.5	288.6	288.6	291.7			
G10.0	283.4	282.6	282.1	282.6	282.8	282.8	287.6			
G15.0	274.4	273.3	272.6	273.3	273.7	273.8	280.4			
G20.0	262.4	260.9	260.0	261.0	261.4	261.8	270.0			
G25.0	247.5	245.5	244.4	245.6	246.3	246.8	257.0			
G30.0	230.0	227.8	226.4	227.8	228.4	229.2	241.1			
G35.0	210.1	207.7	206.2	207.6	208.4	209.3	222.9			
G40.0	188.6	185.8	184.2	185.9	186.7	187.7	202.7			
G45.0	166.0	163.2	161.3	163.0	164.0	165.0	181.2			
G50.0	142.9	140.0	138.1	139.8	140.8	141.8	158.5			
G55.0	119.5	116.3	112.7	115.9	117.2	118.0	135.3			
G60.0	96.7	89.5	84.6	89.2	94.2	92.8	108.5			
G65.0	72.1	60.8	55.1	61.5	69.9	66.5	80.2			
G70.0	46.6	33.5	26.4	35.5	45.8	42.1	51.6			
G75.0	24.5	10.1	2.1	13.7	25.2	22.1	24.6			
G80.0	10.9	3.0	0.6	5.1	10.6	9.3	7.5			
G85.0	1.2	0.2	0.1	0.2	0.2	0.2	2.4			
G90.0	0.1	0.2	0.1	0.2	0.1	0.1	0.3			
G95.0	0.1	0.2	0.1	0.1	0.1	0.1	0.4			
G100.0	0.2	0.2	0.2	0.2	0.2	0.2	0.6			
G105.0	0.3	0.3	0.3	0.3	0.3	0.3	0.7			
G110.0	0.4	0.4	0.4	0.4	0.4	0.4	0.9			
G115.0	0.6	0.6	0.6	0.5	0.5	0.6	1.1			
G120.0	0.7	0.7	0.7	0.7	0.7	0.7	1.3			
G125.0	0.8	0.9	0.9	0.8	0.8	0.9	1.5			
G130.0	1.1	1.0	1.1	1.0	1.0	1.0	1.8			
G135.0	1.2	1.2	1.3	1.2	1.2	1.2	1.9			
G140.0	1.4	1.4	1.4	1.4	1.4	1.4	2.1			
G145.0	1.6	1.6	1.7	1.6	1.6	1.6	2.3			
G150.0	1.8	1.9	1.9	1.8	1.8	1.8	2.5			
G155.0	2.0	2.1	2.1	2.0	2.0	2.0	2.6			
G160.0	2.3	2.3	2.3	2.3	2.2	2.3	2.8			
G165.0	2.5	2.5	2.6	2.5	2.4	2.5	2.9			
G170.0	2.7	2.7	2.8	2.7	2.6	2.6	2.9			
G175.0	2.8	2.9	2.9	2.8	2.8	2.8	3.0			
G180.0	2.9	2.9	3.0	2.9	2.9	2.9	3.0			

C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature: 25℃
Operator:

Gamma Plane (°):0.0-180.0:5.0
Test Device: GPM-1600L
Distance: 6.361 m
Humidity: 56%
Inspector: