

Report No.: BDQT-20160817002

Test Time: 2016-08-17 17:02

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LED Lamp for Factory and Mine

Luminaire Description: 4653-6 (UFO)

Number of Lamps: 1

Luminous Length (mm): 0 mm

Luminous Height (mm): 0 mm

Current: 0.734 A

Power Factor: 0.933

Lamp Catalog: AC 220-240V 160W 6000K

Lumens per Lamp: 14958.3 lm

Luminous Width (mm): 0 mm

Voltage: 231.4 V

Power: 158.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 14958.3 lm

Downward Ratio: 99.79%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.5, 152.4, 152.3, 152.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.6, 111.0, 110.0, 111.0

Luminaire Efficacy Rating (LER): 94.42

Max. Intensity: 5617.76 cd

S/MH(C0/C180): 1.27

Total Rated Lamp Lumens: 14958.3 lm

Efficiency: 100.00%

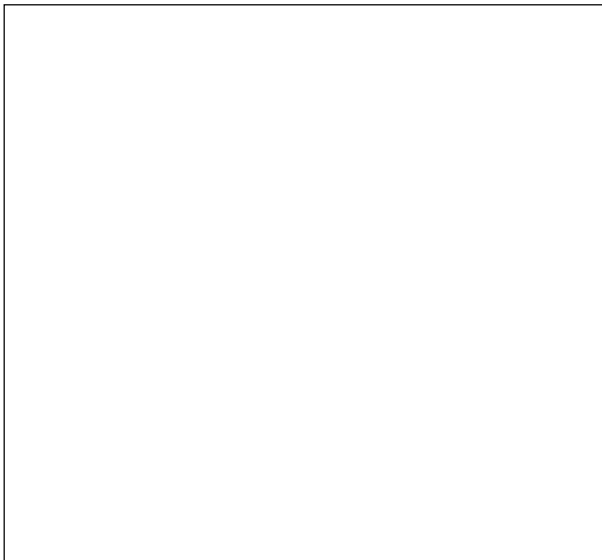
Upward Ratio: 0.21%

Central Intensity: 5617.76 cd

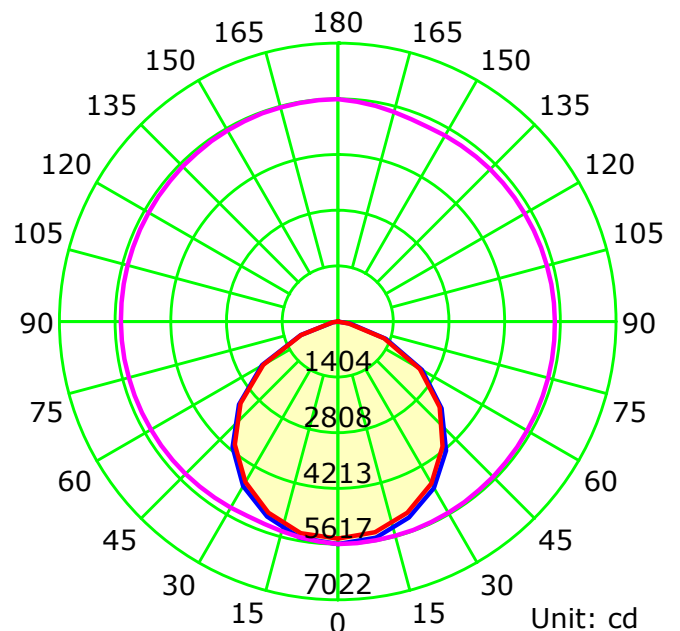
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.27

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:10.0

Test Device: GPM-1600L

Distance: 9.633 m

Humidity:

Inspector:

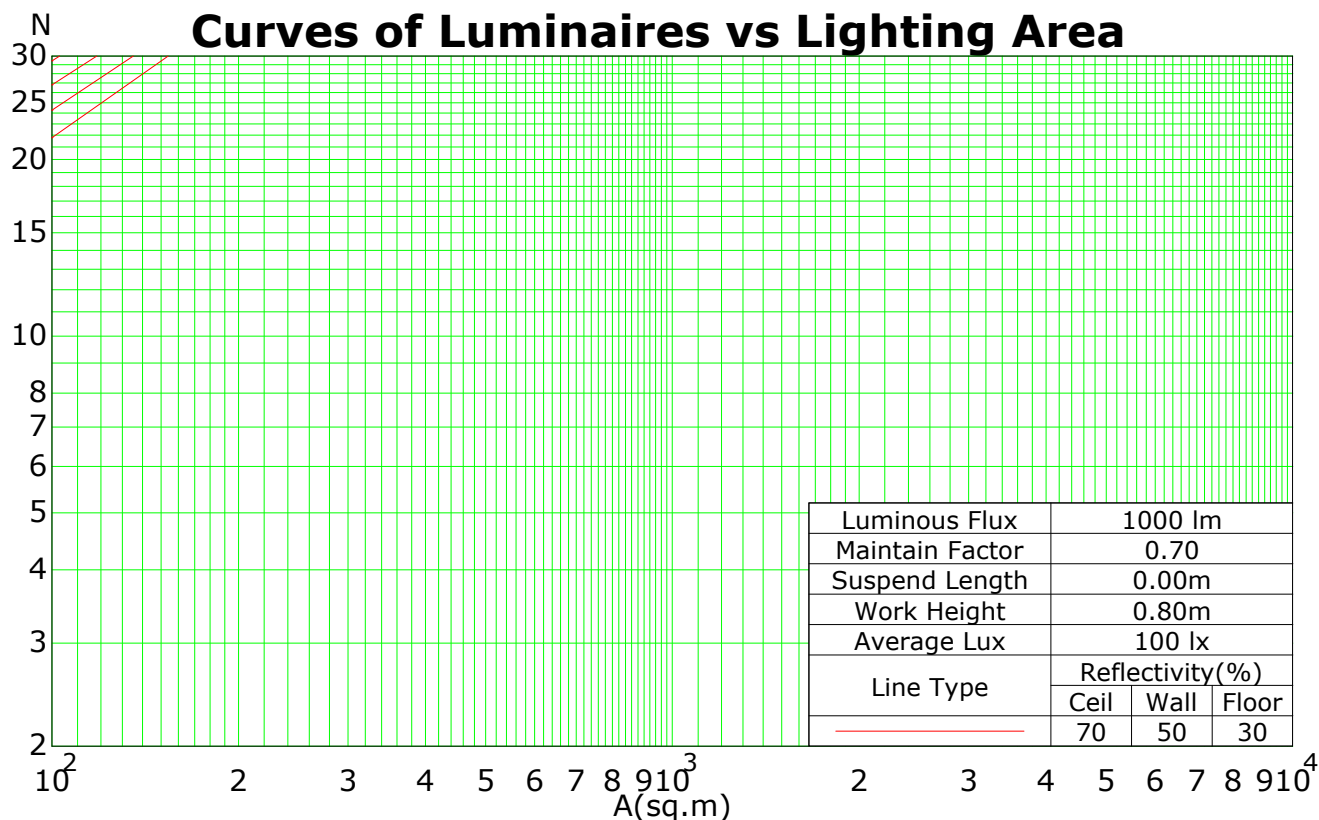
Coefficients Of Utilization - Zonal Cavity Method

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	109	105	101	97	107	103	99	96	98	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.27

Spacing Criteria (Diagonal): 1.36



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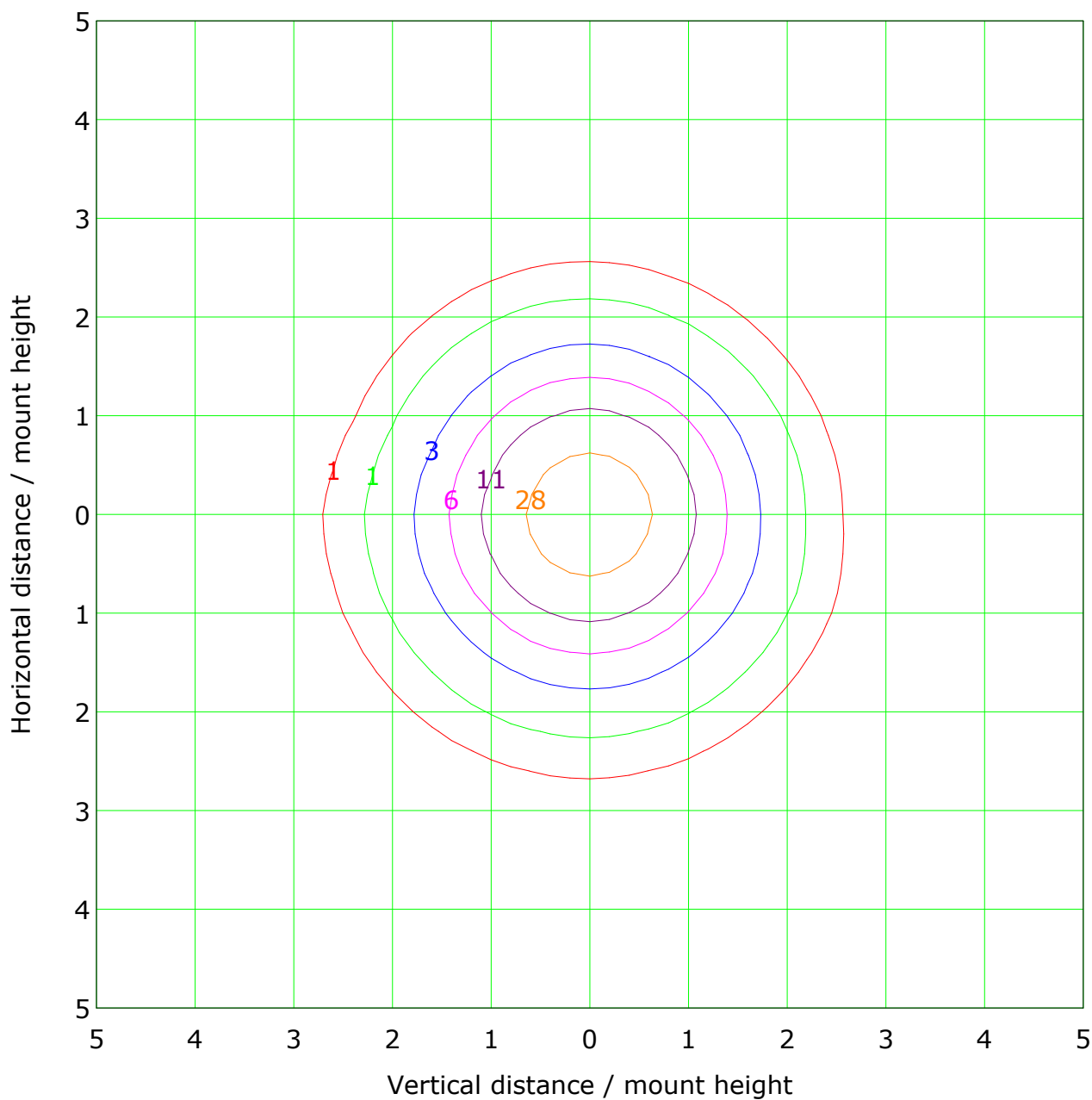
Test Device: GPM-1600L

Distance: 9.633 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 56.2 lx	
— (1%):	0.6 lx	— (2%):	1.1 lx
— (5%):	2.8 lx	— (10%):	5.6 lx
— (20%):	11.2 lx	— (50%):	28.1 lx
— (100%):	56.2 lx		

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Test Device: GPM-1600L

Distance: 9.633 m

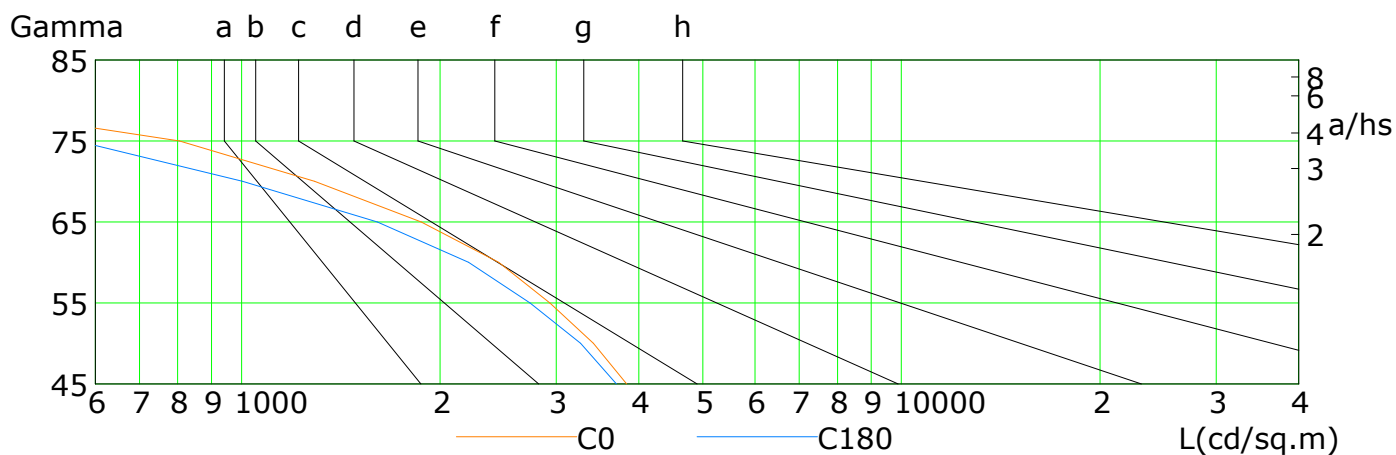
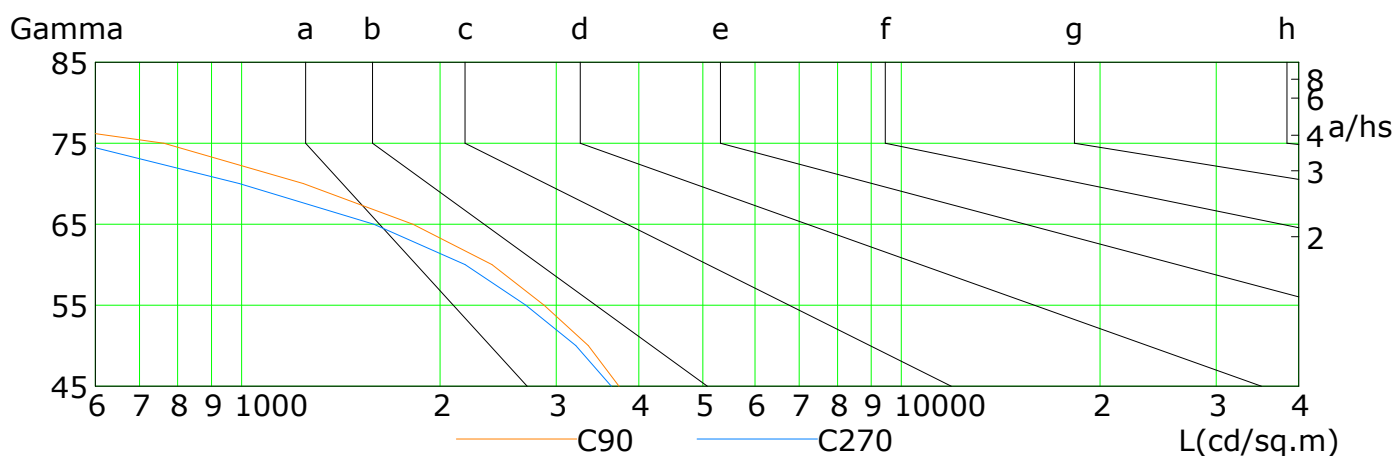
Humidity:

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	3832	3414	2934	2453	1872	1291	805	320	160
C90	3734	3354	2874	2394	1818	1241	762	284	142
C180	3701	3264	2736	2209	1606	1003	564	125	63
C270	3632	3212	2696	2180	1586	993	564	135	67

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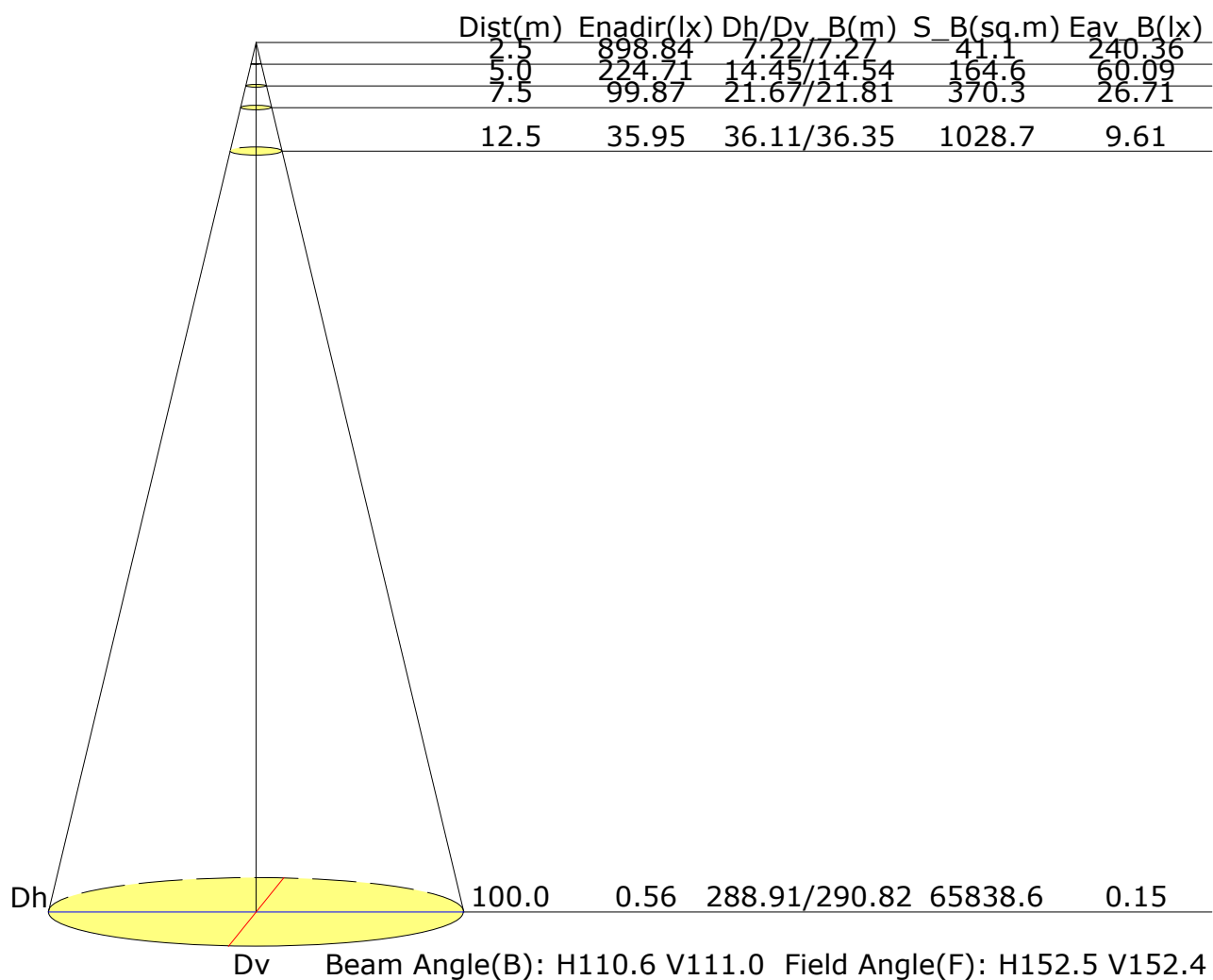
Test Device: GPM-1600L

Distance: 9.633 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

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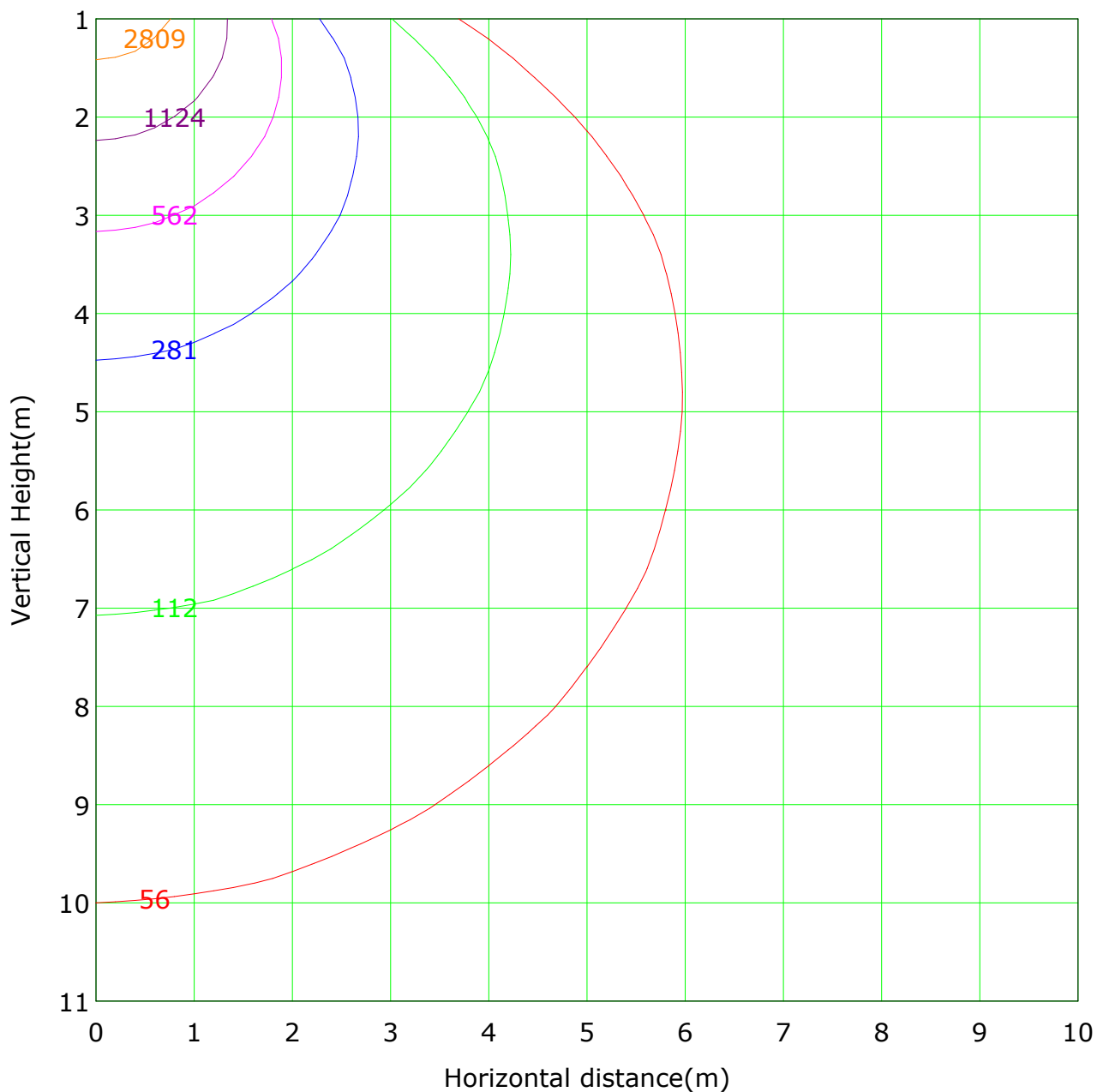
Test Device: GPM-1600L

Distance: 9.633 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5617.8 lx
 (1%): 56.2 lx (2%): 112.4 lx
 (5%): 280.9 lx (10%): 561.8 lx
 (20%): 1123.6 lx (50%): 2808.9 lx
 (100%): 5617.8 lx

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Test Device: GPM-1600L

Distance: 9.633 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	7634	51.0
	FL (0°-30°)	2156	14.4
	FM (30°-60°)	4112	27.5
	FH (60°-80°)	1289	8.6
	FVH (80°-90°)	76	0.5
	BACK LIGHT	7293	48.8
	BL (0°-30°)	2152	14.4
	BM (30°-60°)	4007	26.8
	BH (60°-80°)	1098	7.3
	BVH (80°-90°)	36	0.2
	UP LIGHT	31	0.2
	UL (90°-100°)	2	0.0
	UH (100°-180°)	29	0.2
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B3 U2 G3
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U2 G1

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