

Report No.:

Test Time: 2021-04-15 16:17

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17039-5000K

Lamp Description: 2835

Current: 0.239 A

Power Factor: 0.964

Lamp Catalog: LED

Voltage: 120.0 V

Power: 27.65 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2175.9 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.2, 164.6, 164.5, 164.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.1, 113.6, 113.4, 113.4

Luminaire Efficacy Rating (LER): 78.74

Max. Intensity: 716.95 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 2175.9 lm

Efficiency: 100%

Upward Ratio: 4%

Central Intensity: 716.6 cd

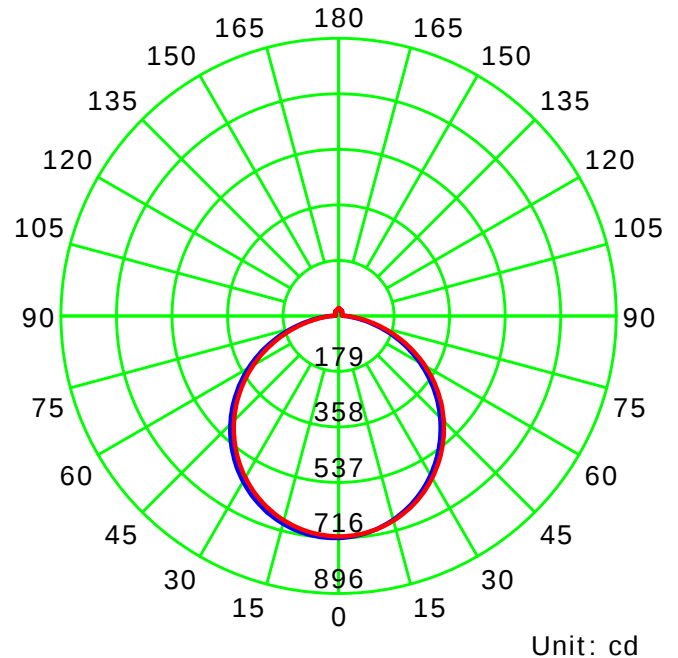
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

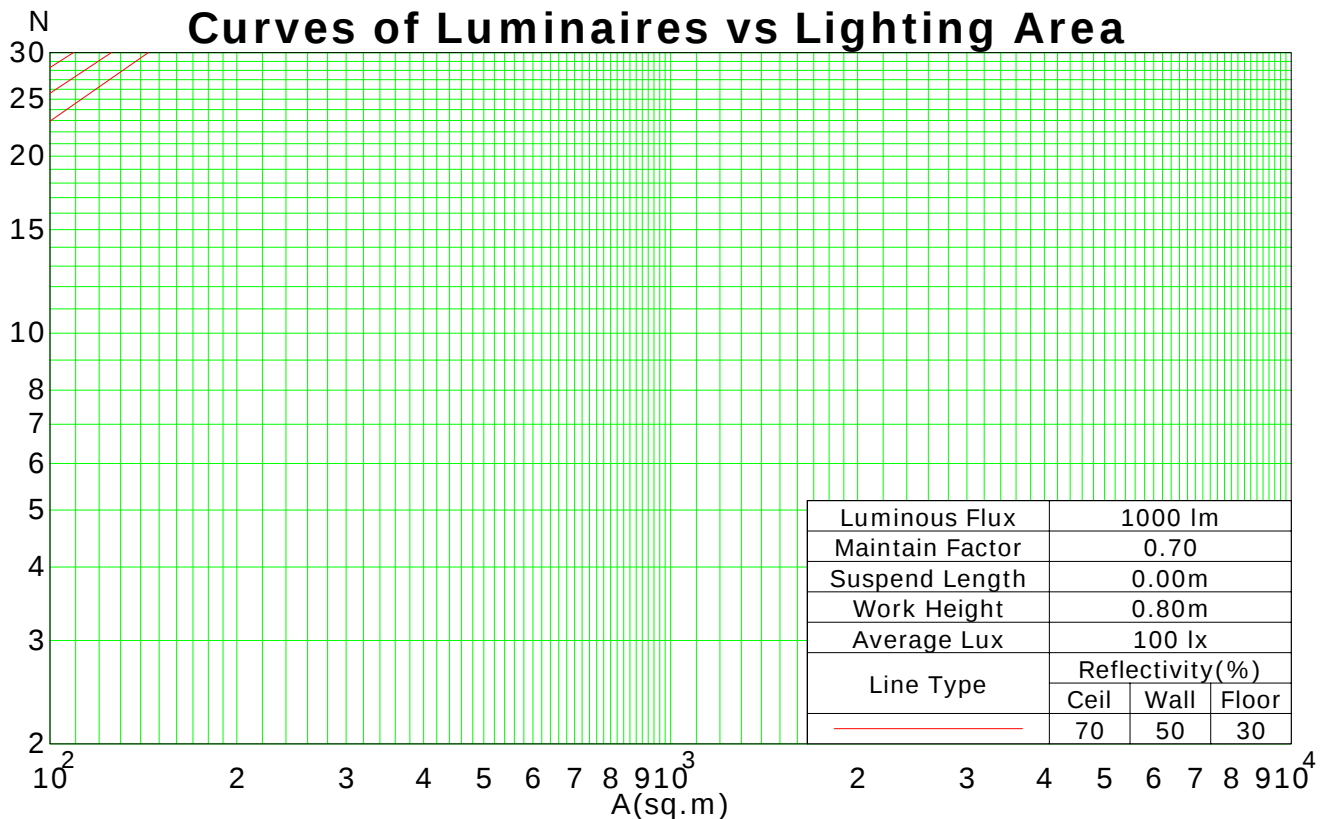
Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	98	94	104	100	96	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	82	77	73	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	72	66	61	69	64	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	52	61	55	50	59	54	49	47
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	40
6	69	55	46	40	67	54	46	40	52	44	39	50	43	38	48	42	38	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	35	29	25	34	29	24	23

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.38



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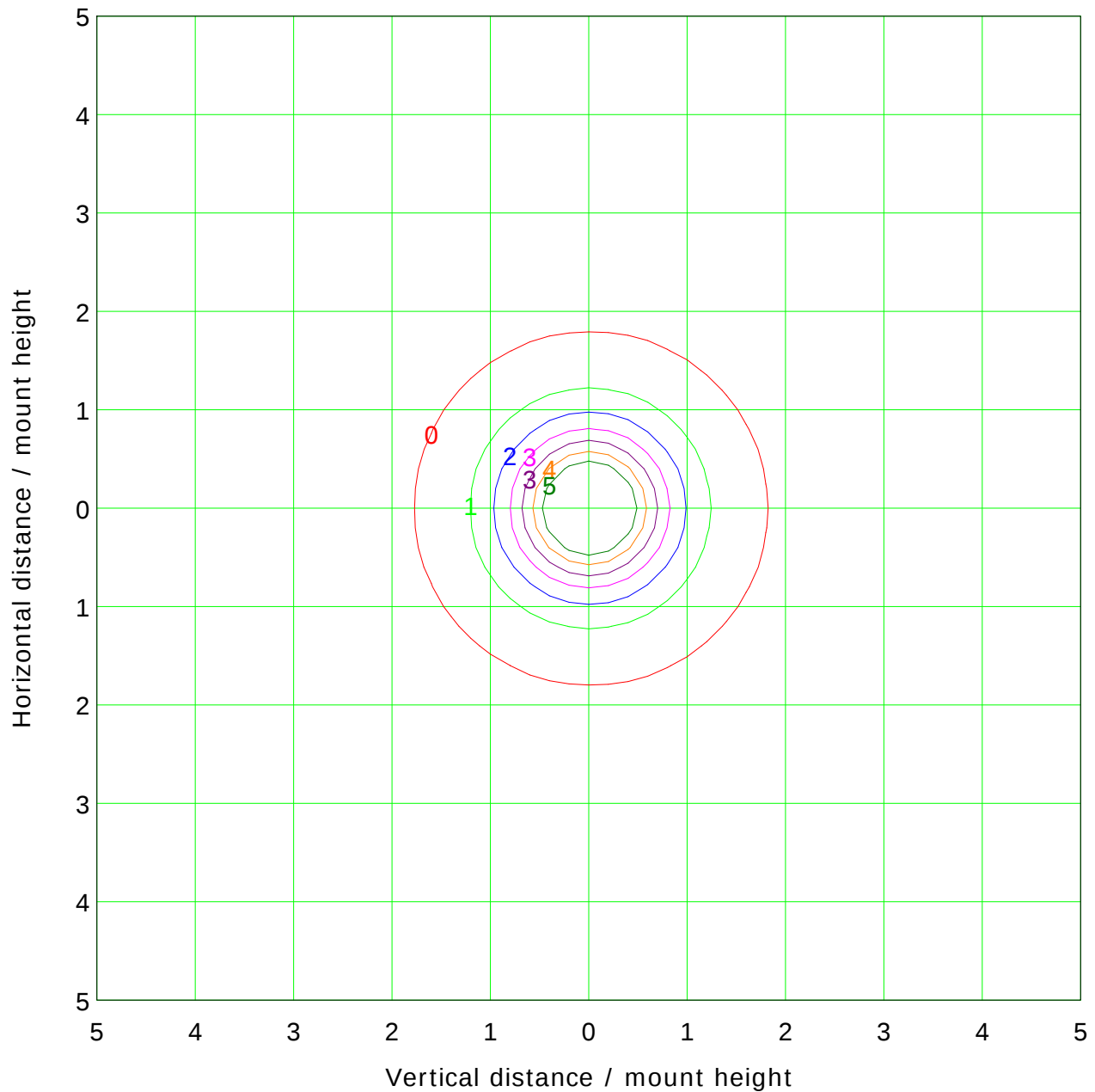
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 7.2 lx

(5%): 0.4 lx	(15%): 1.1 lx
(25%): 1.8 lx	(35%): 2.5 lx
(45%): 3.2 lx	(55%): 3.9 lx
(65%): 4.7 lx	

C Plane (°):0.0-360.0: 90.0

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Temperature:

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Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

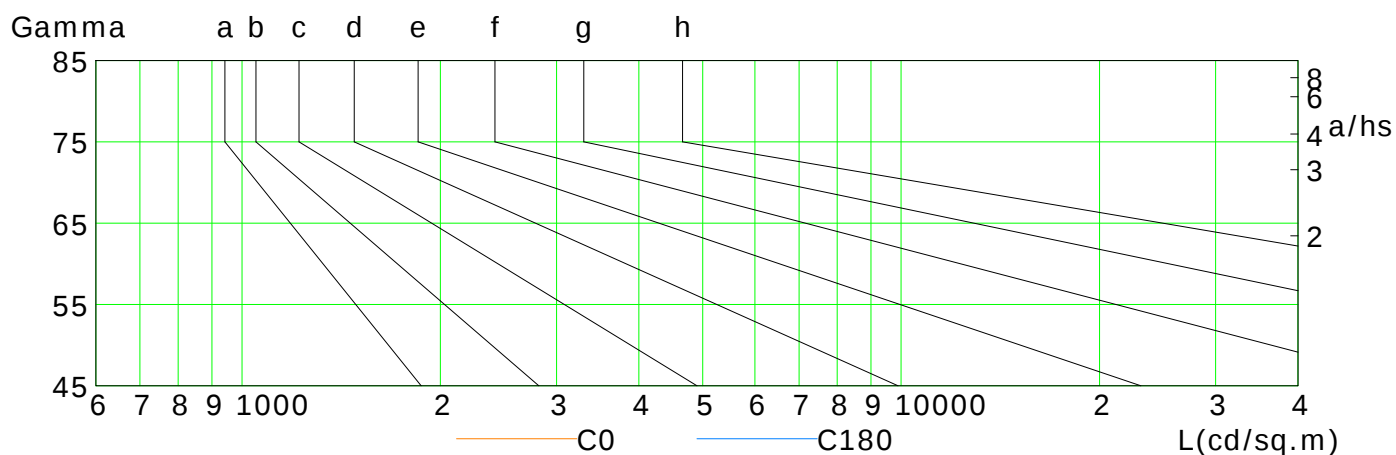
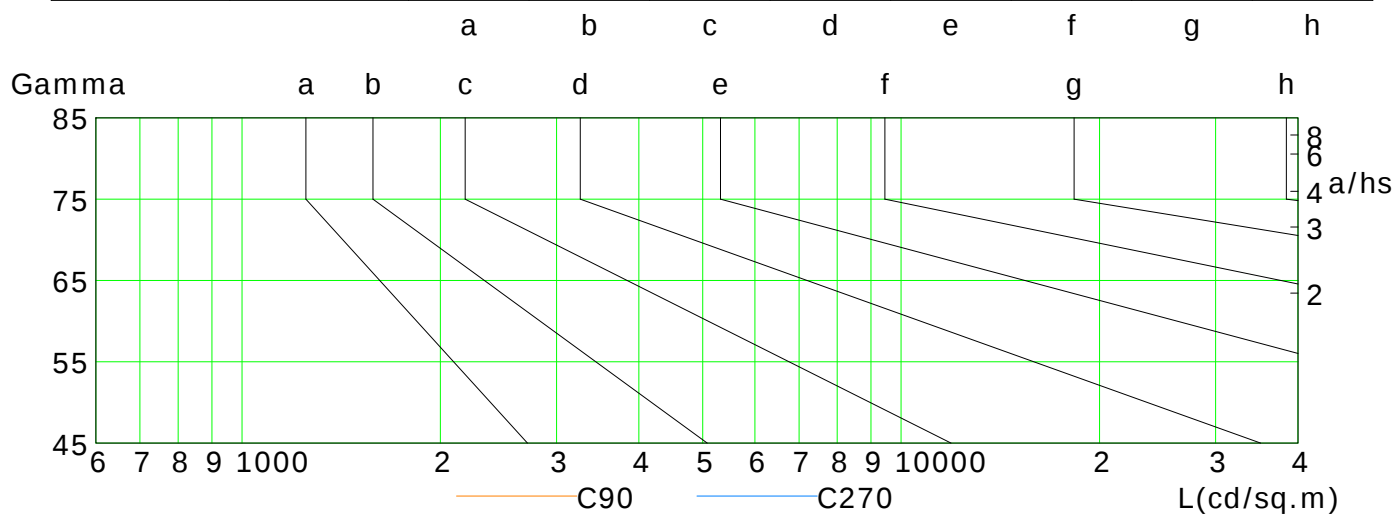
Distance: 7.344 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	464	413	360	304	246	189	133	81	43
C90	480	431	378	322	265	206	148	95	52
C180	494	445	392	336	277	216	157	101	55
C270	477	428	374	318	260	201	143	89	48

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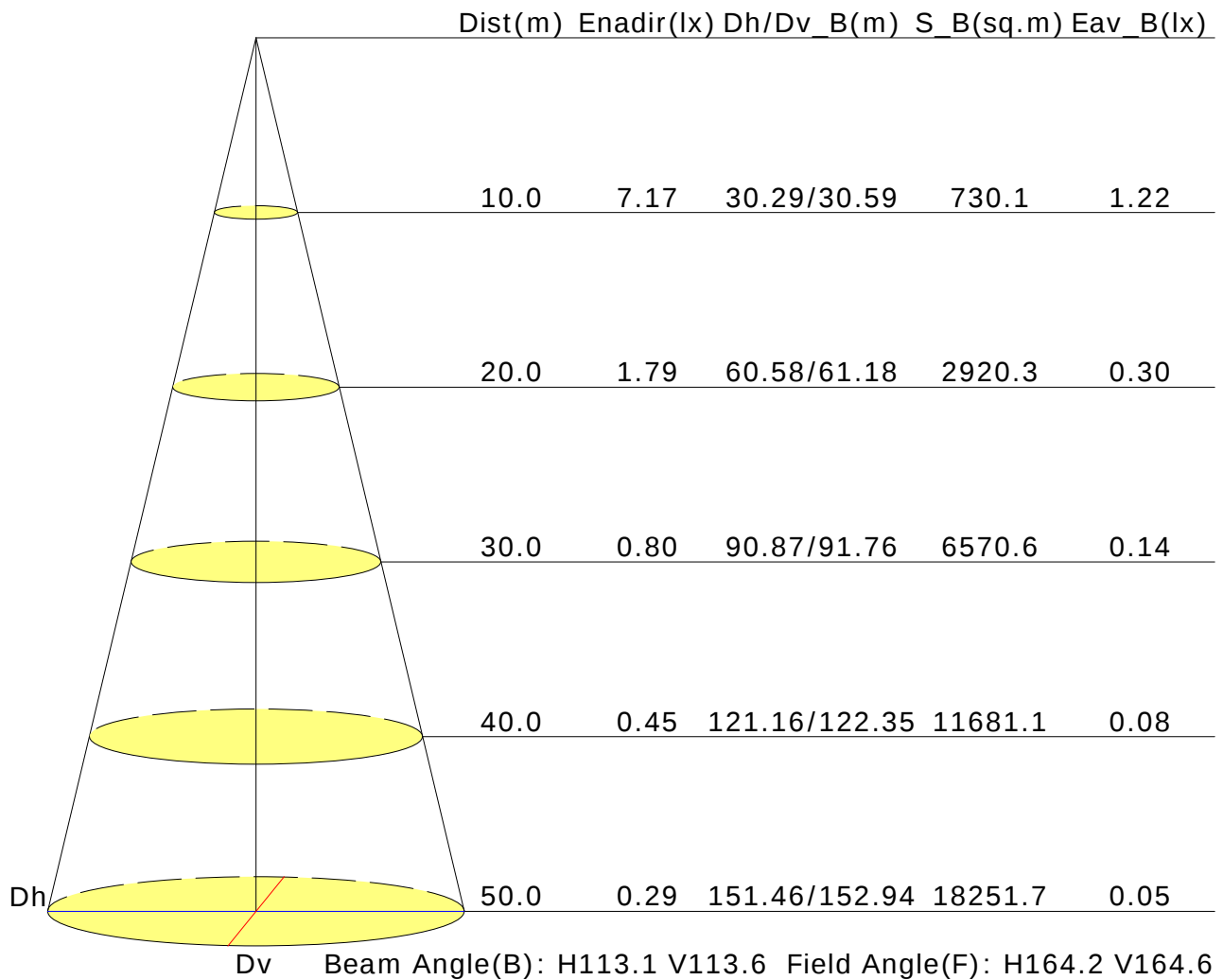
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0

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Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

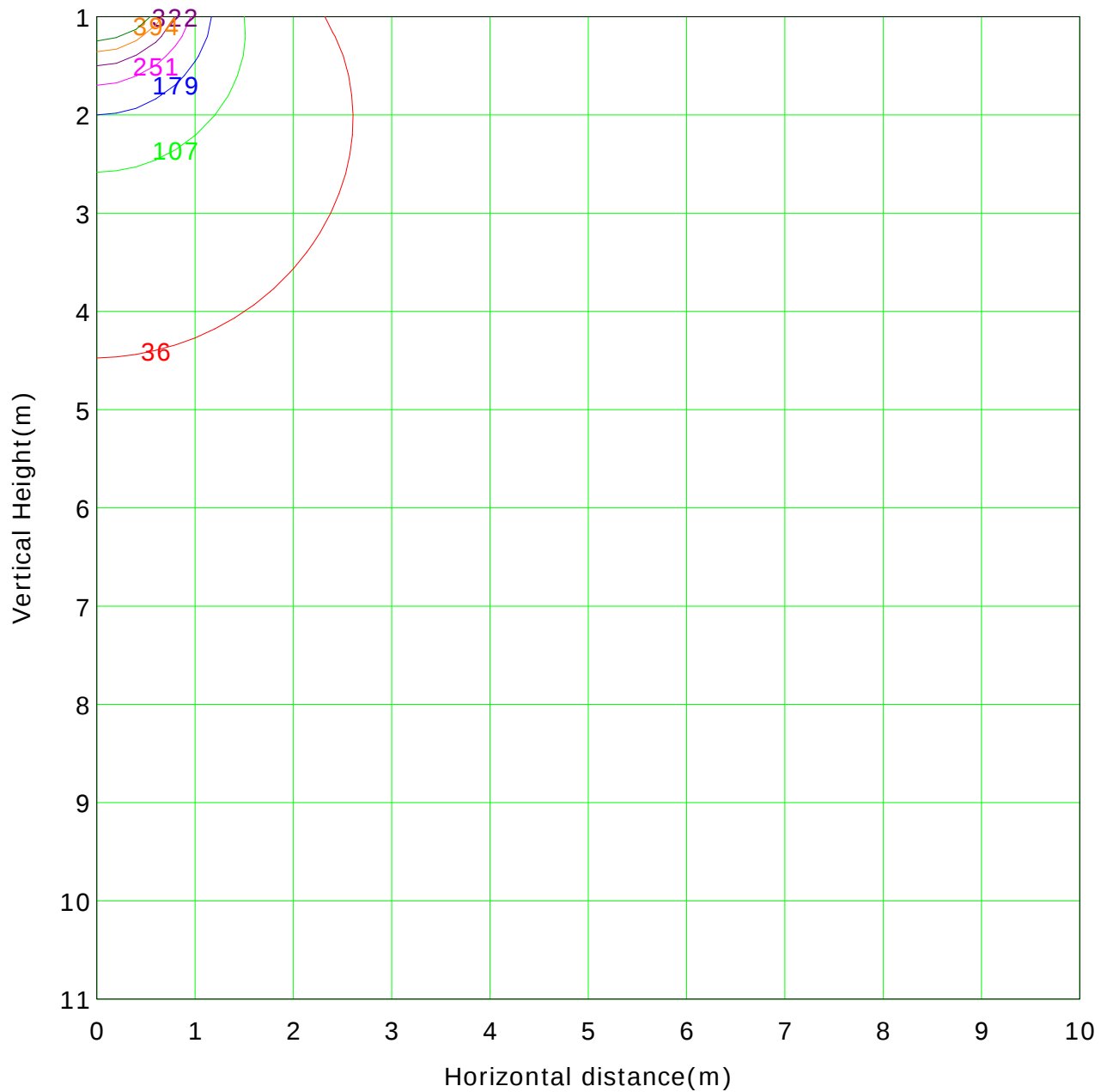
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

Vertical IsoLux Plot

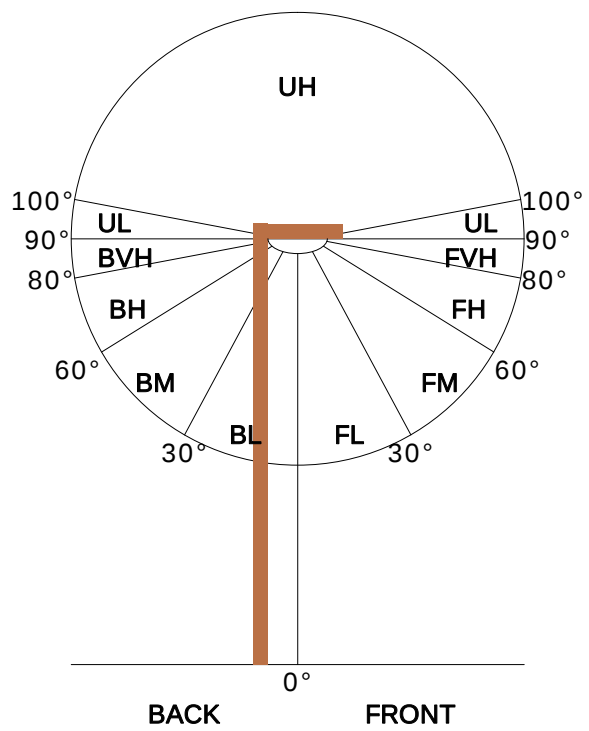


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 716.6 lx
(5%): 35.8 lx	(15%): 107.5 lx	
(25%): 179.1 lx	(35%): 250.8 lx	
(45%): 322.5 lx	(55%): 394.1 lx	
(65%): 465.8 lx		

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Test Lab:
Test Type: TYPE C
Temperature:
Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1600L
Distance: 7.344 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1045	48.0
	FL (0°-30°)	277	12.8
	FM (30°-60°)	531	24.4
	FH (60°-80°)	208	9.5
	FVH (80°-90°)	29	1.3
	BACK LIGHT	1039	47.8
	BL (0°-30°)	277	12.7
	BM (30°-60°)	529	24.3
	BH (60°-80°)	205	9.4
	BVH (80°-90°)	28	1.3
	UP LIGHT	92	4.2
	UL (90°-100°)	16	0.7
	UH (100°-180°)	76	3.5
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

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