

Report No.:

Test Time: 2021-04-15 15:11

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: E18013-5000K

Lamp Description: 2835

Current: 0.249 A

Power Factor: 0.949

Lamp Catalog: LED

Voltage: 120.0 V

Power: 28.32 W

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 2324.7 lm

Downward Ratio: 88%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 185.1, 186.3, 185.6, 186.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 120.3, 120.6, 120.4, 120.4

Luminaire Efficacy Rating (LER): 82.14

Max. Intensity: 632.84 cd

S/MH(C0/C180): 1.31

Total Rated Lamp Lumens: 2324.7 lm

Efficiency: 100%

Upward Ratio: 12%

Central Intensity: 628.19 cd

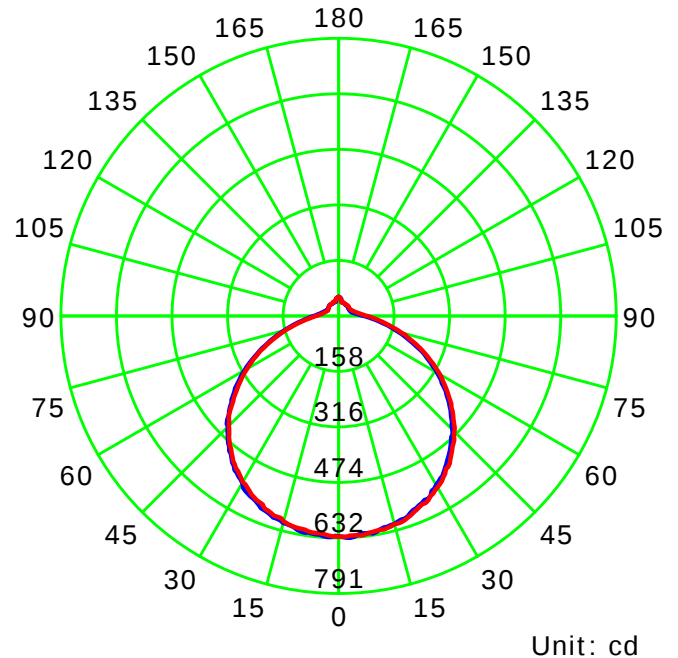
Pos of Max. Intensity: H0 V3

S/MH(C90/C270): 1.31

Picture Of Luminaire



Luminous Intensity Distribution Curve



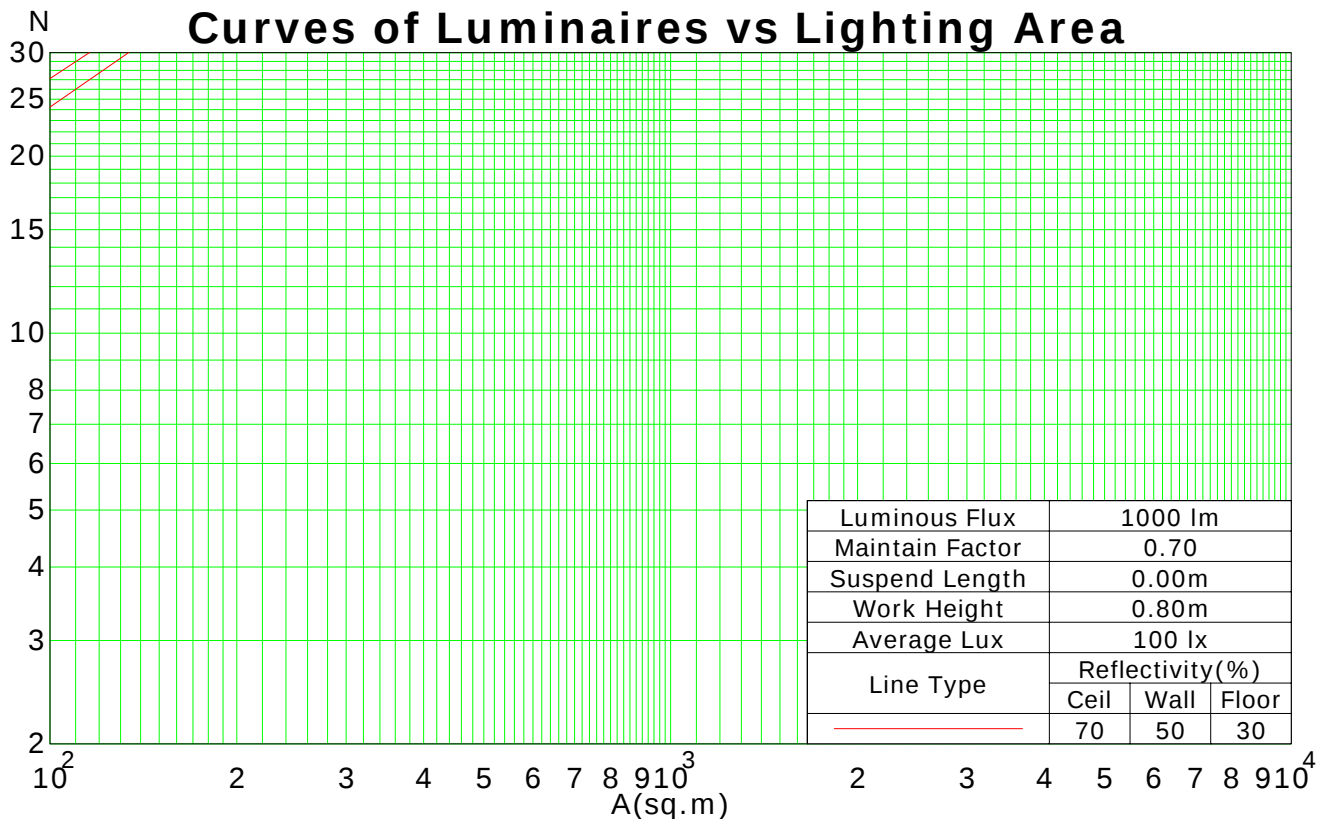
Coefficients Of Utilization - Zonal Cavity Method

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	78	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	53	46	40	50	44	39	47	42	37	35
6	66	53	44	37	64	51	43	36	48	41	35	45	39	34	43	37	33	30
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	31	27	36	30	26	24
9	53	40	31	26	51	39	31	25	37	30	25	35	28	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

Spacing Criteria (0-180): 1.31

Spacing Criteria (90-270): 1.31

Spacing Criteria (Diagonal): 1.43



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

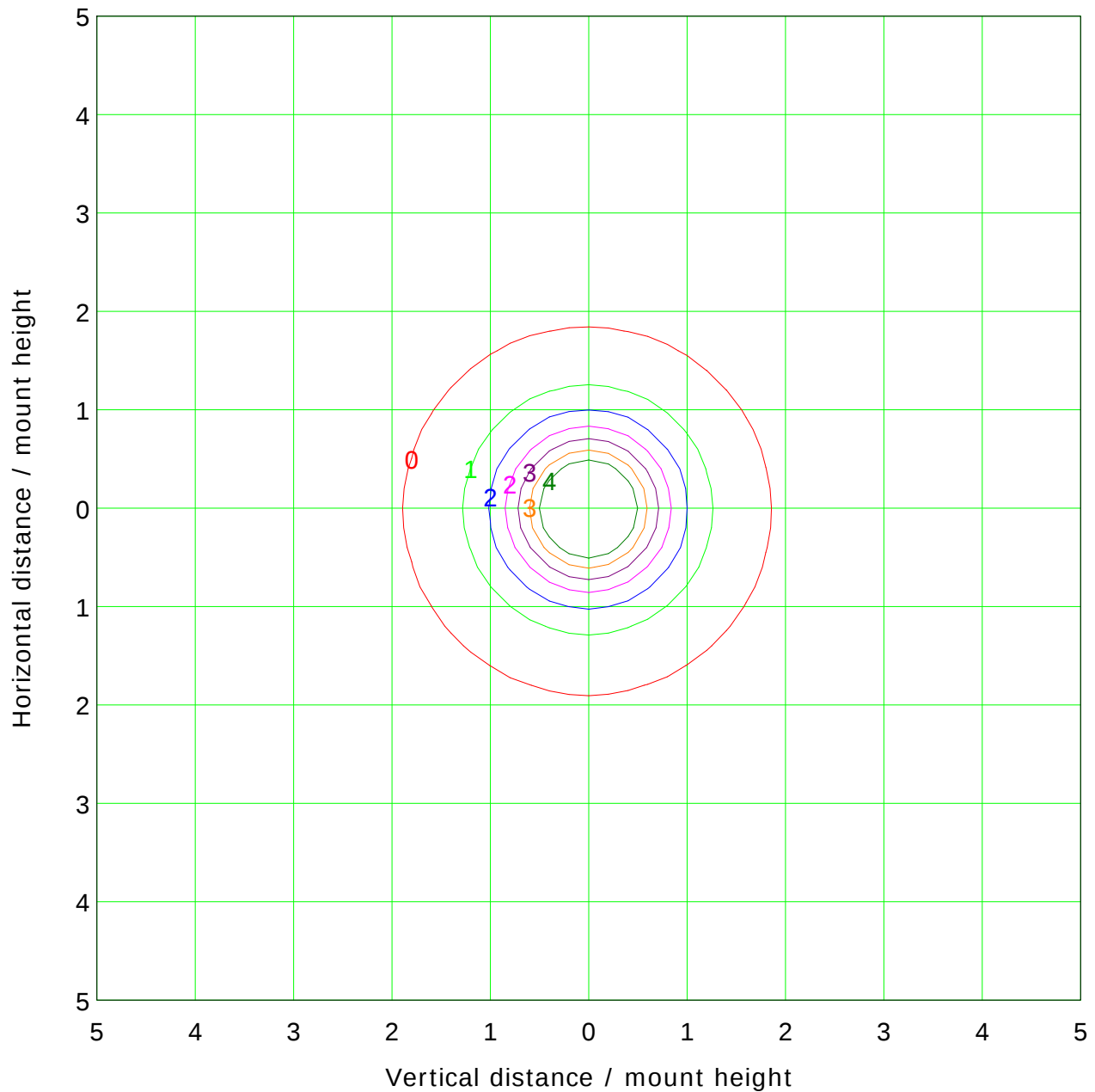
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 6.3 lx	
— (5%):	0.3 lx	— (15%):	0.9 lx
— (25%):	1.6 lx	— (35%):	2.2 lx
— (45%):	2.8 lx	— (55%):	3.5 lx
— (65%):	4.1 lx		

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Test Device: GPM-1600L

Distance: 7.344 m

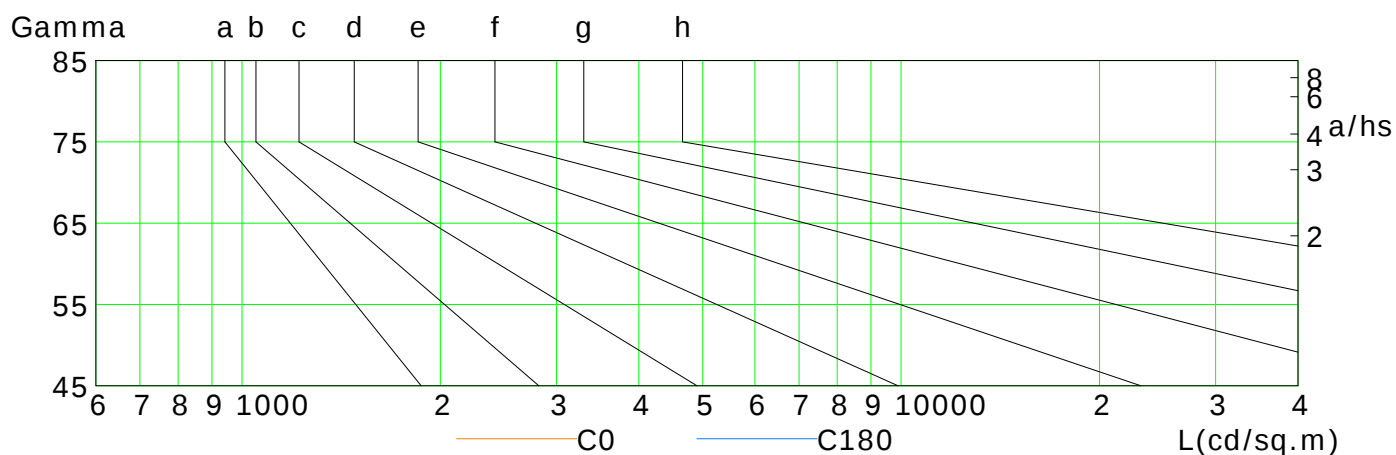
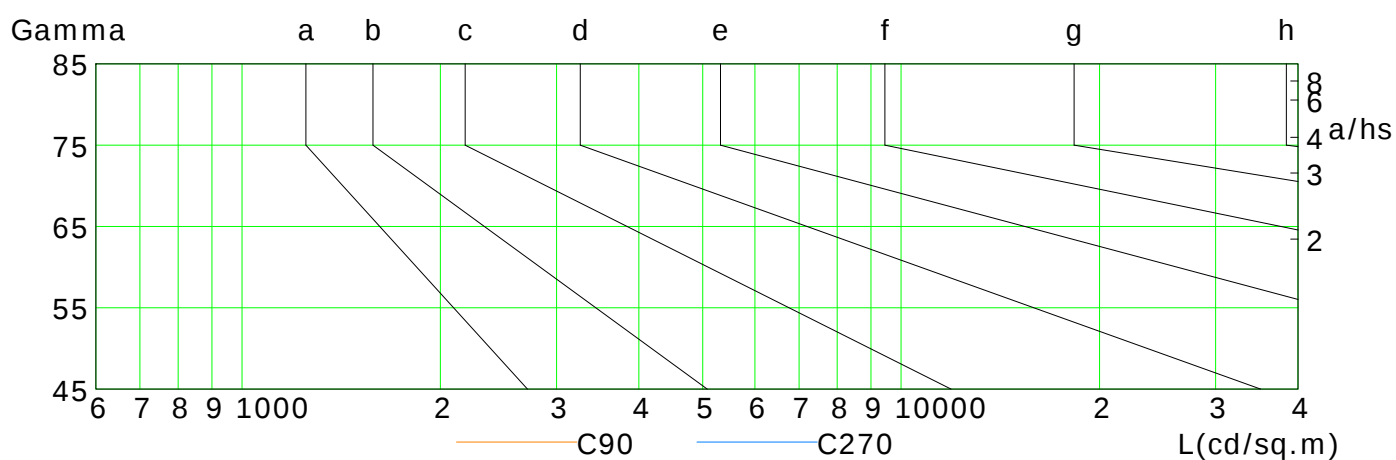
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	458	416	372	325	275	225	177	134	98
C90	467	424	379	333	283	234	185	143	108
C180	446	404	360	309	257	208	161	122	91
C270	443	398	350	301	252	203	156	115	85

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Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

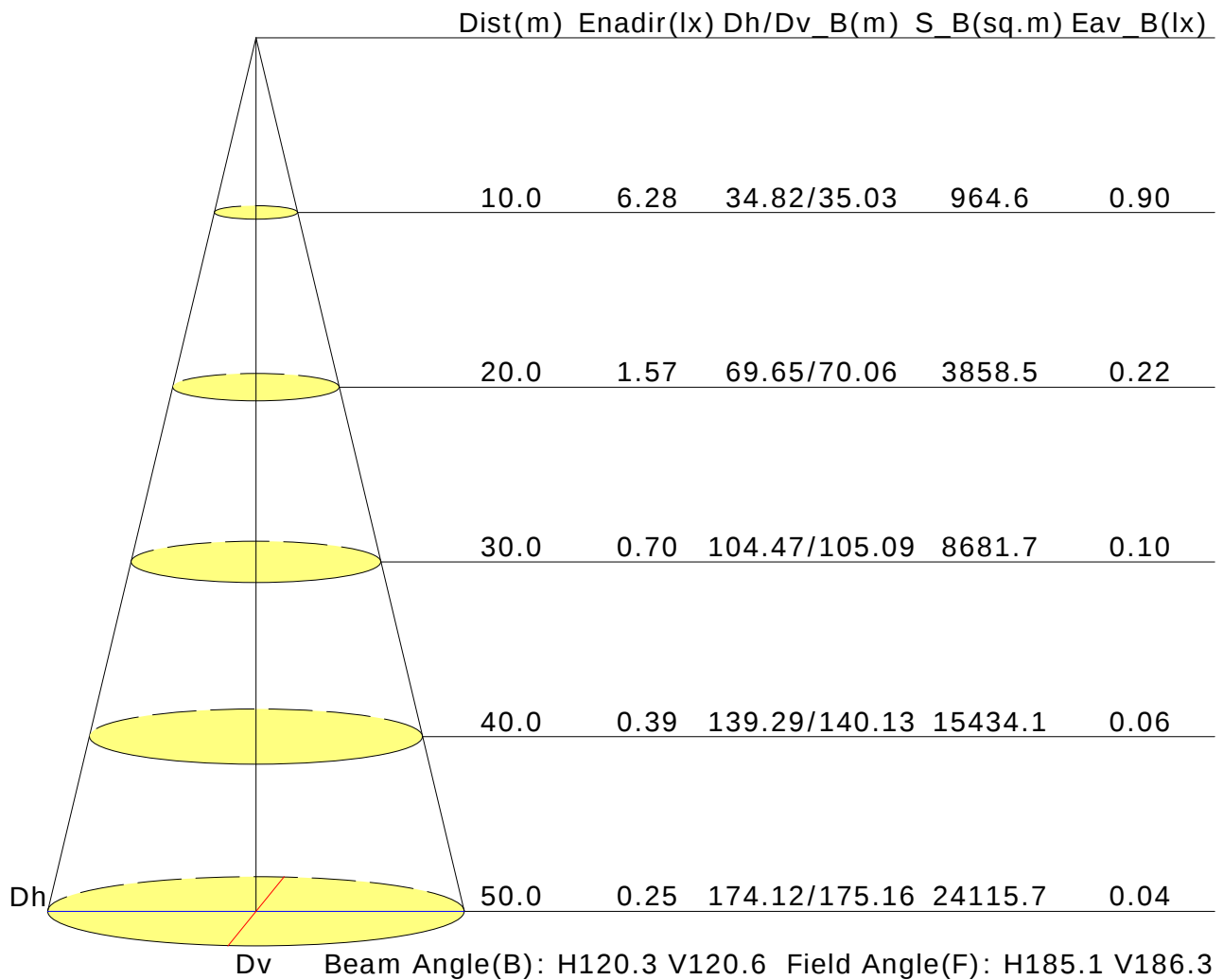
Test Device: GPM-1600L

Distance: 7.344 m

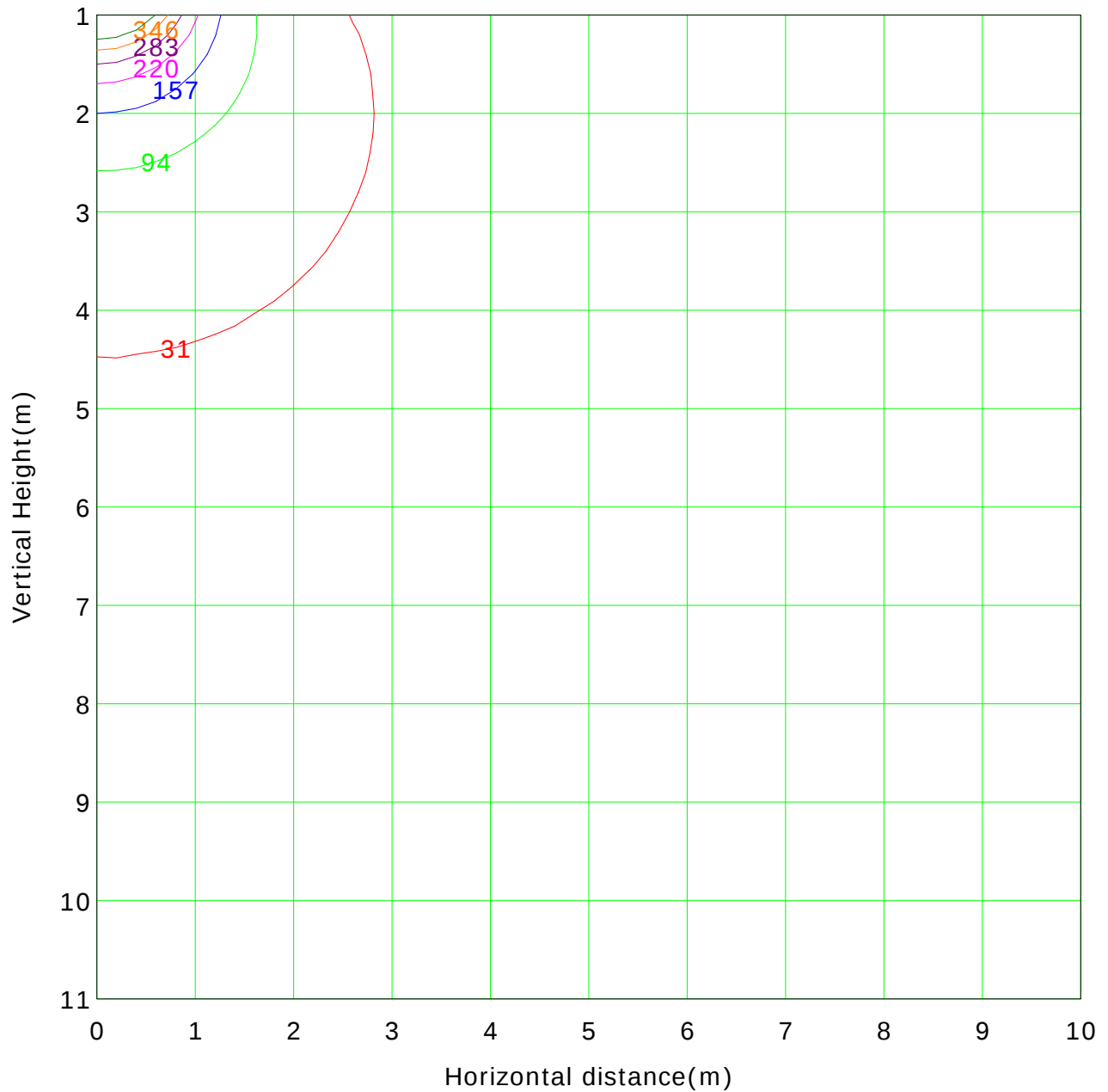
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 628.2 lx

(5%): 31.4 lx	(15%): 94.2 lx
(25%): 157.0 lx	(35%): 219.9 lx
(45%): 282.7 lx	(55%): 345.5 lx
(65%): 408.3 lx	

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Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

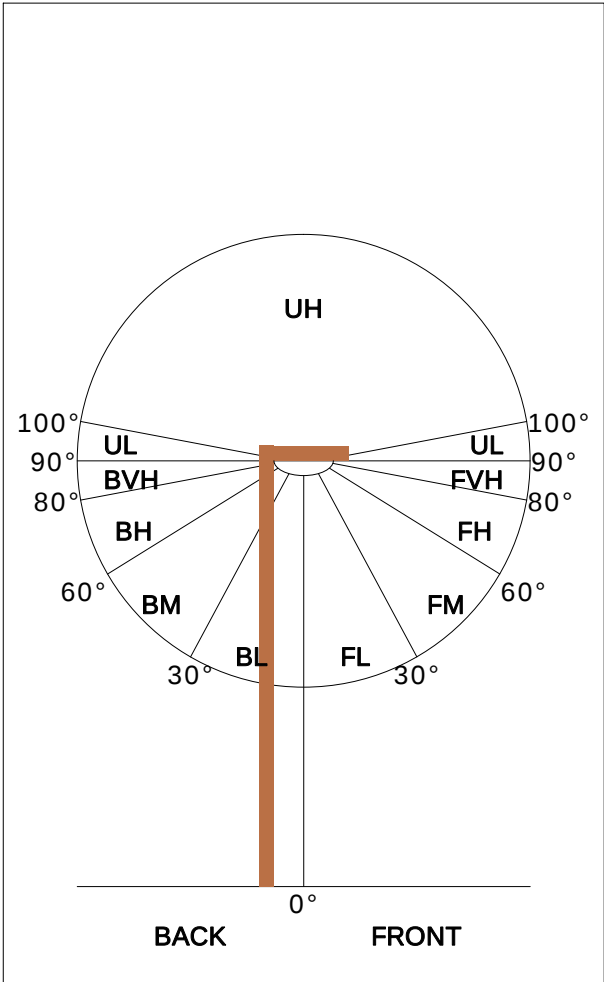
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1047	45.0
	FL (0°-30°)	251	10.8
	FM (30°-60°)	509	21.9
	FH (60°-80°)	230	9.9
	FVH (80°-90°)	56	2.4
	BACK LIGHT	1008	43.3
	BL (0°-30°)	248	10.7
	BM (30°-60°)	495	21.3
	BH (60°-80°)	214	9.2
	BVH (80°-90°)	50	2.1
	UP LIGHT	270	11.6
	UL (90°-100°)	64	2.8
	UH (100°-180°)	206	8.9
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U3 G1

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