

Report No.:

Test Time: 2021-04-13 14:41

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17031-3000K

Lamp Description: 2835

Current: 0.154 A

Power Factor: 0.932

Lamp Catalog: LED

Voltage: 120.0 V

Power: 17.25 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1308.1 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.1, 164.3, 164.2, 164.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.7, 112.8, 112.8, 112.8

Luminaire Efficacy Rating (LER): 75.88

Max. Intensity: 434.98 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 1308.1 lm

Efficiency: 100%

Upward Ratio: 4%

Central Intensity: 434.81 cd

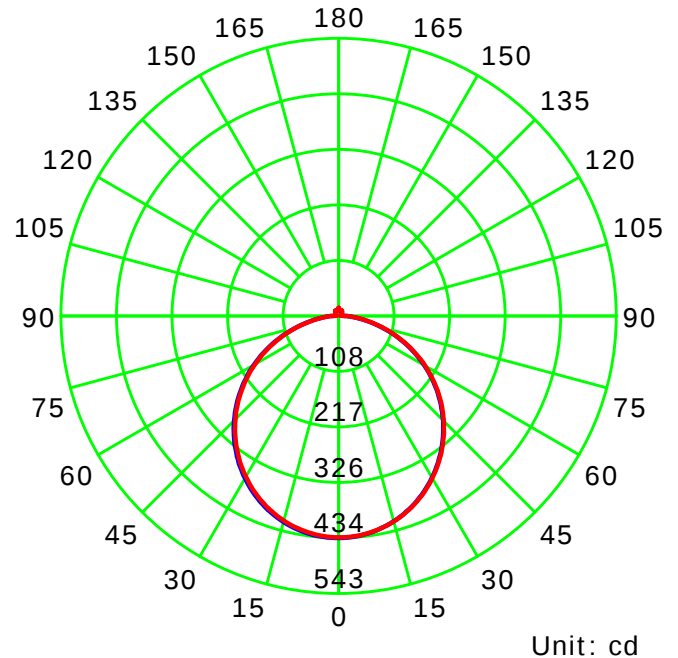
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 1.25

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:

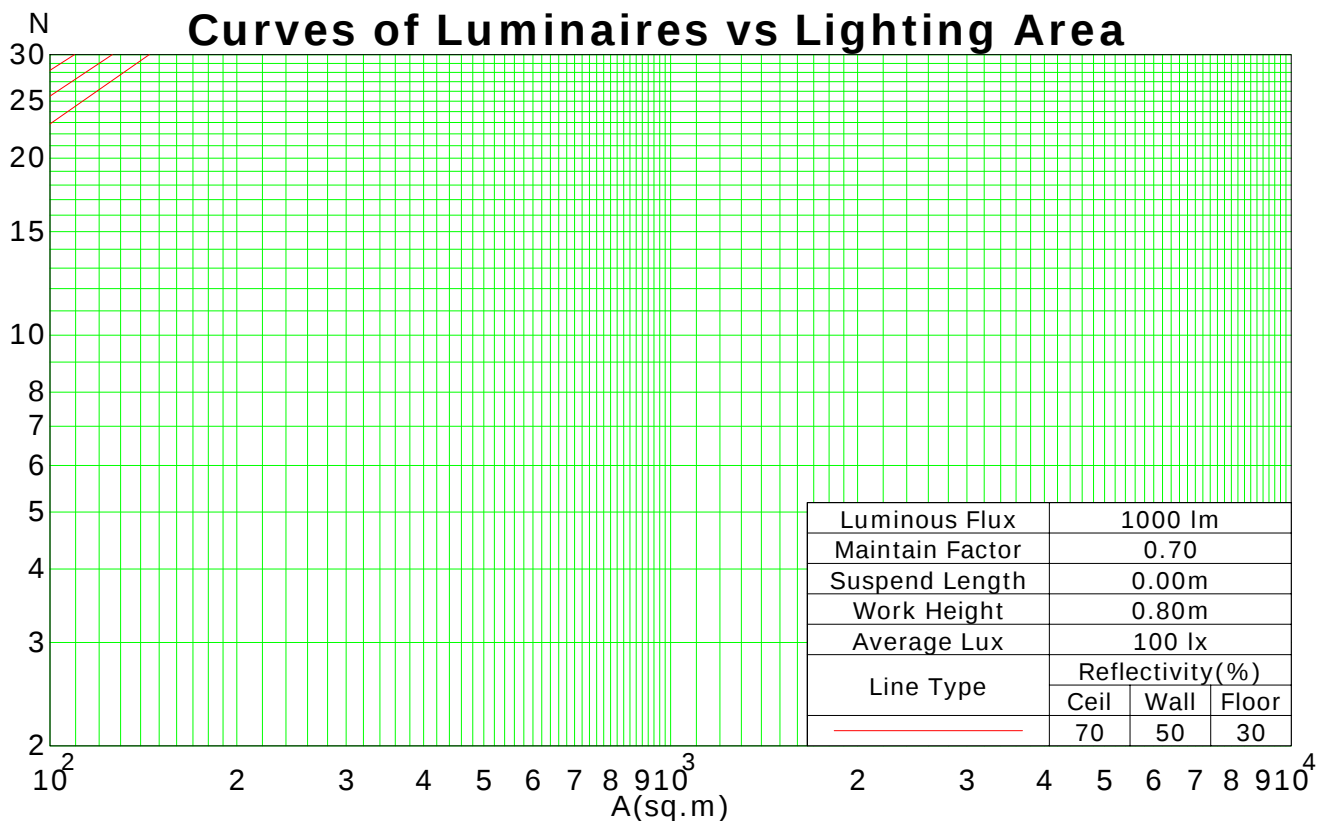
Coefficients Of Utilization - Zonal Cavity Method

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	104	104	104	99	99	99	96
1	107	103	98	94	104	100	96	92	95	92	89	90	88	85	86	84	82	80
2	98	89	82	76	95	87	81	75	83	77	73	79	74	71	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	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	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	26	51	38	31	25	37	30	25	36	29	25	35	29	25	23

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.25

Spacing Criteria (Diagonal): 1.37



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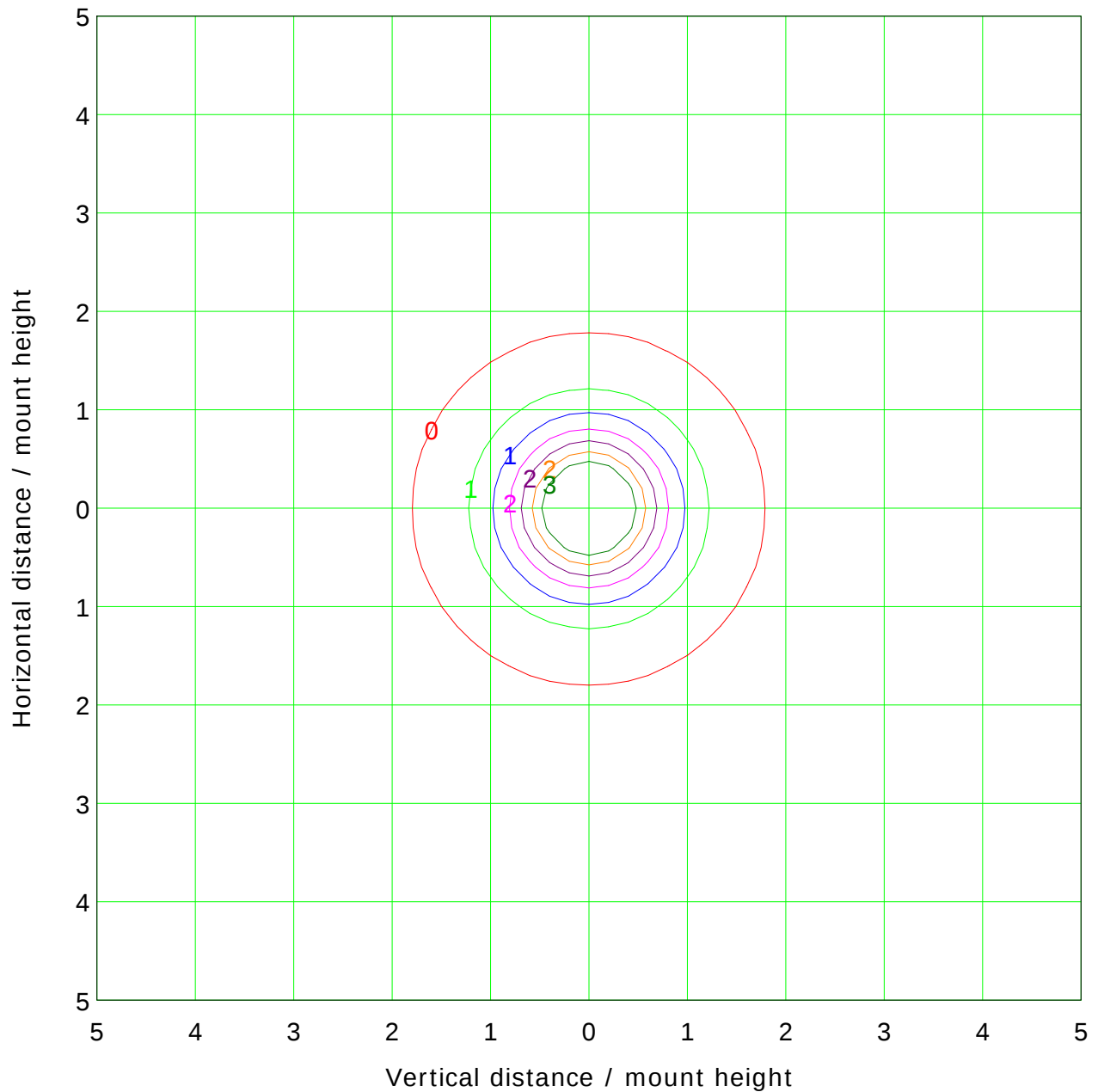
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 4.3 lx	
— (5%):	0.2 lx	— (15%):	0.7 lx
— (25%):	1.1 lx	— (35%):	1.5 lx
— (45%):	2.0 lx	— (55%):	2.4 lx
— (65%):	2.8 lx		

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Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

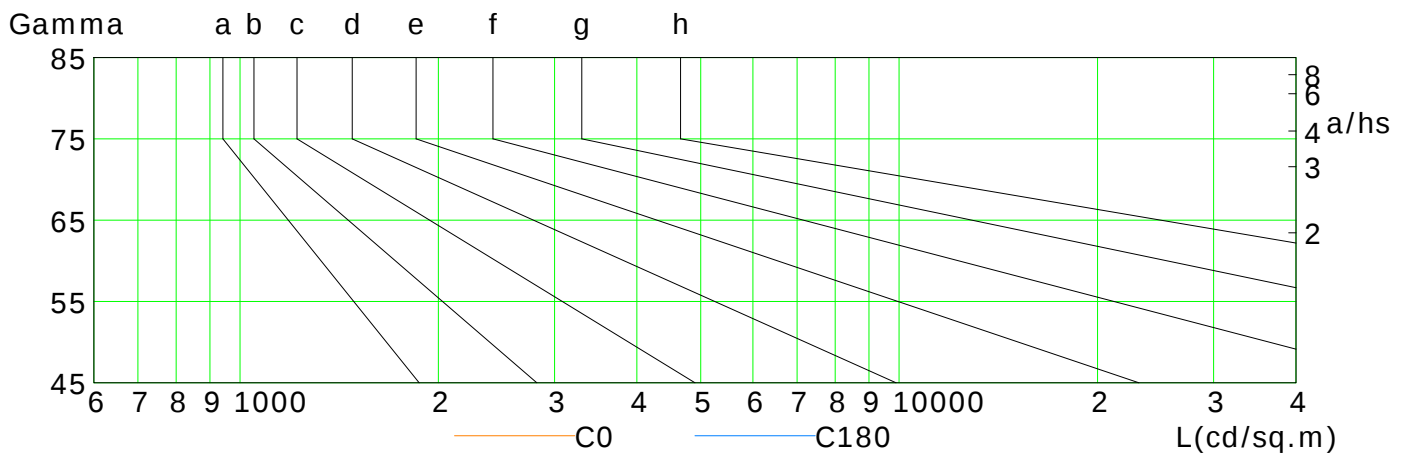
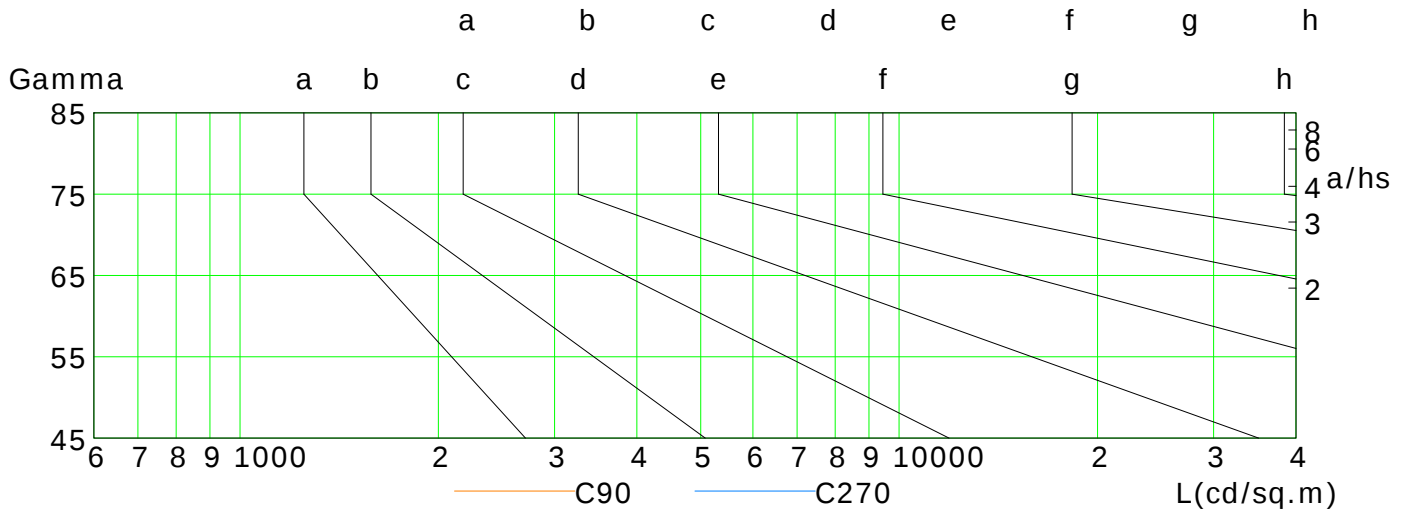
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Humidity:

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	289	259	227	194	159	124	88	56	30
C90	292	262	229	196	161	126	91	58	32
C180	290	259	226	192	156	120	85	53	28
C270	286	256	223	189	154	118	83	52	28

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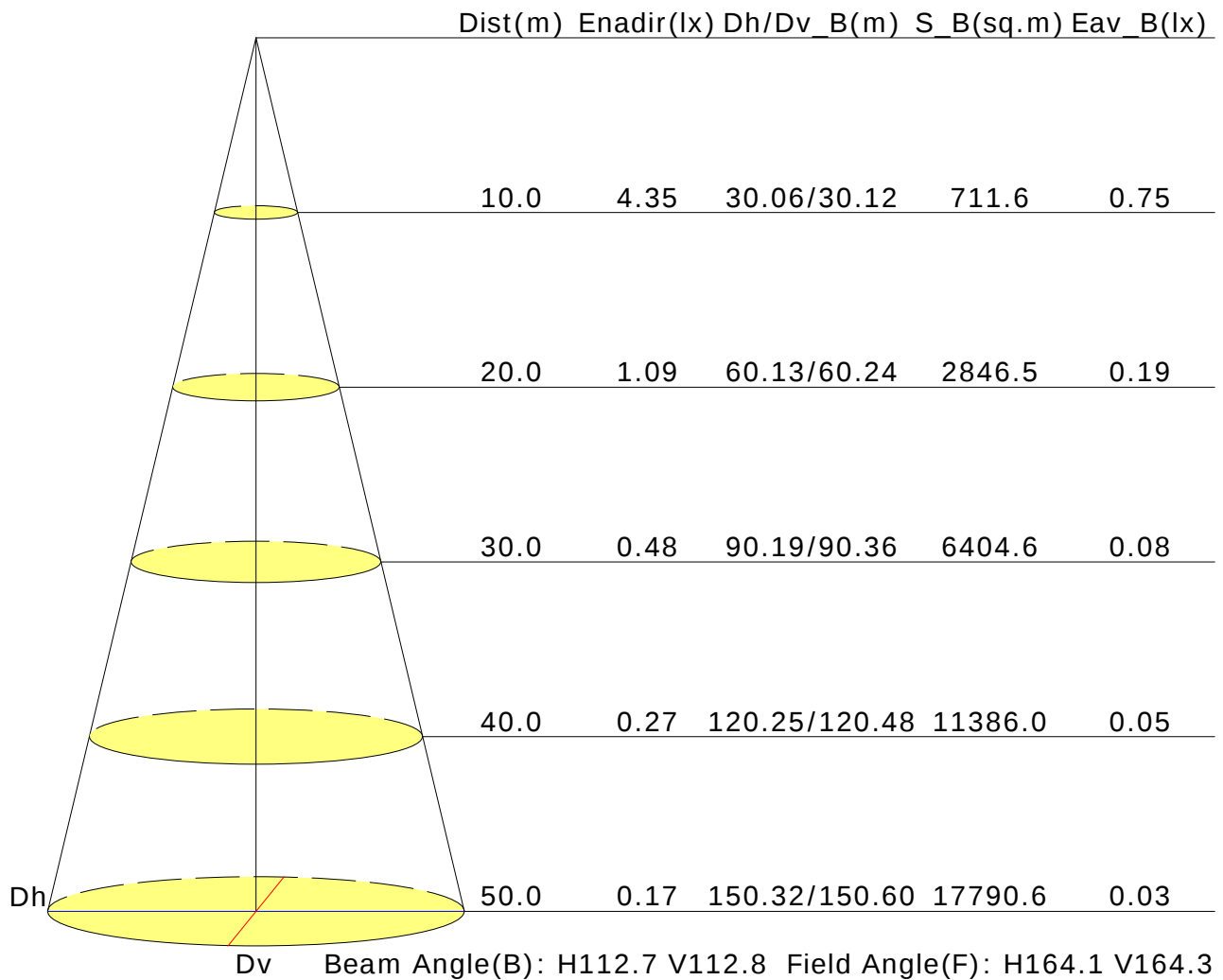
Test Device: GPM-1600L

Distance: 7.344 m

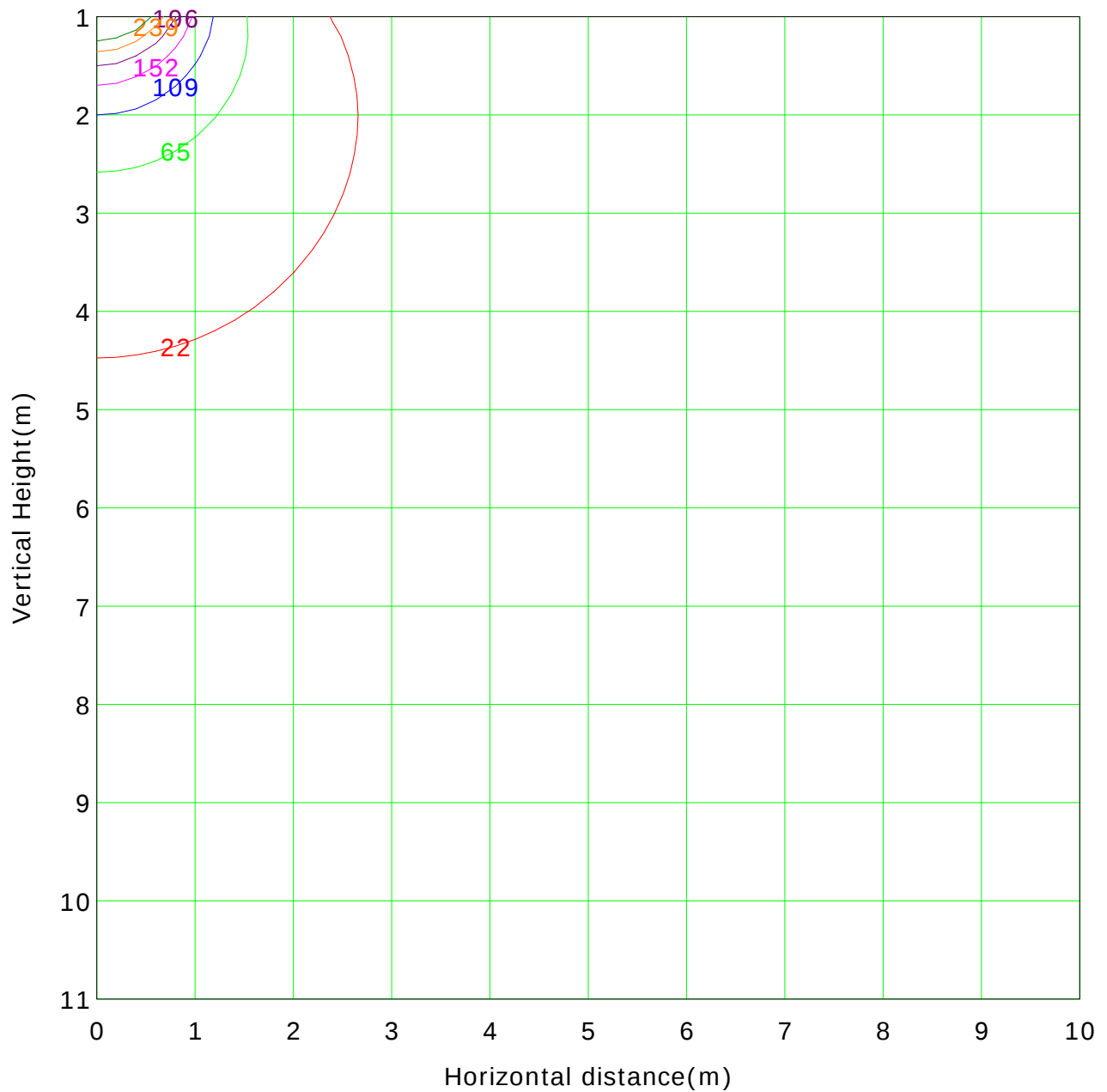
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



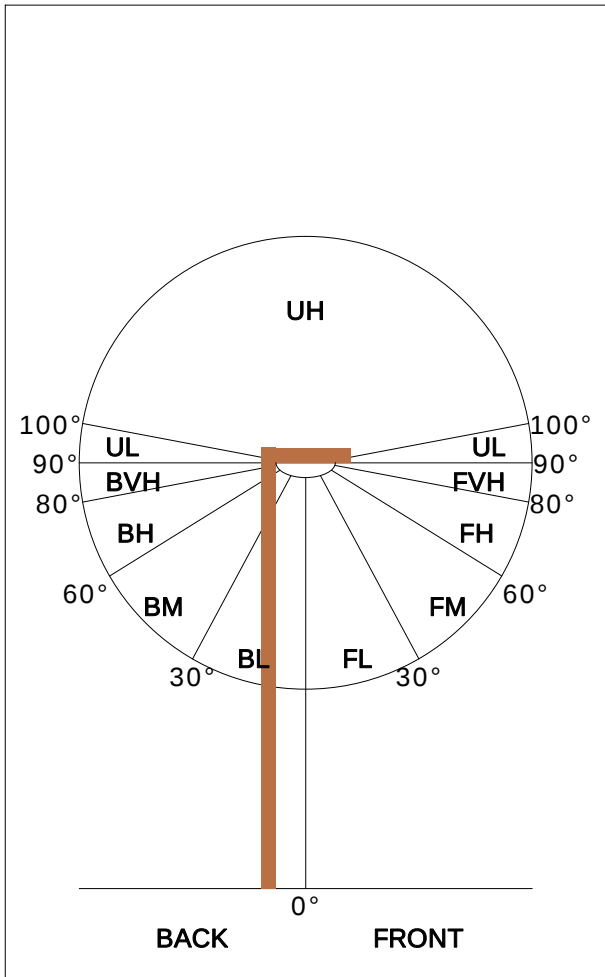
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 434.8 lx

(5%): 21.7 lx	(15%): 65.2 lx
(25%): 108.7 lx	(35%): 152.2 lx
(45%): 195.7 lx	(55%): 239.1 lx
(65%): 282.6 lx	

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 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	633	48.4
	FL (0°-30°)	168	12.9
	FM (30°-60°)	321	24.6
	FH (60°-80°)	126	9.6
	FVH (80°-90°)	18	1.3
	BACK LIGHT	625	47.8
	BL (0°-30°)	168	12.8
	BM (30°-60°)	318	24.3
	BH (60°-80°)	122	9.3
	BVH (80°-90°)	16	1.3
	UP LIGHT	50	3.8
	UL (90°-100°)	8	0.6
	UH (100°-180°)	42	3.2
	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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