

Report No.:

Test Time: 2021-04-13 15:55

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: E18002-5000K

Lamp Description: 2835

Current: 0.210 A

Power Factor: 0.937

Lamp Catalog: LED

Voltage: 120.0 V

Power: 23.62 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1679.7 lm

Downward Ratio: 97%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.8, 165.6, 165.7, 165.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.7, 113.5, 113.6, 113.6

Luminaire Efficacy Rating (LER): 71.16

Max. Intensity: 551.85 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1679.7 lm

Efficiency: 100%

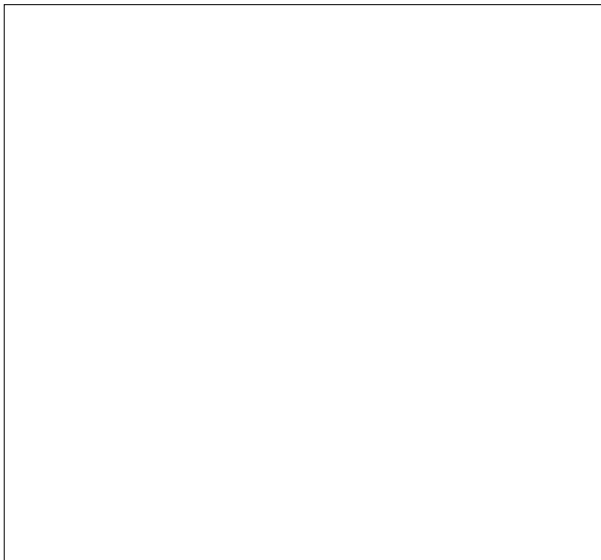
Upward Ratio: 3%

Central Intensity: 551.85 cd

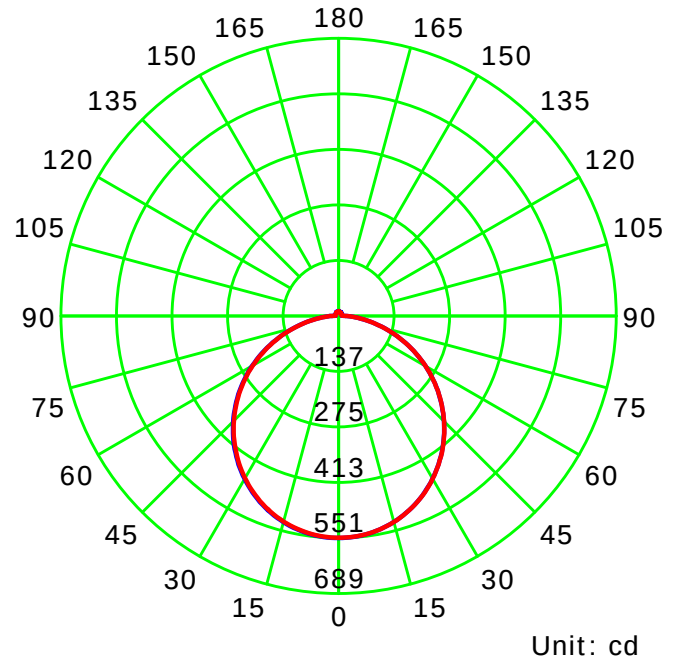
Pos of Max. Intensity: H0 V0

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:

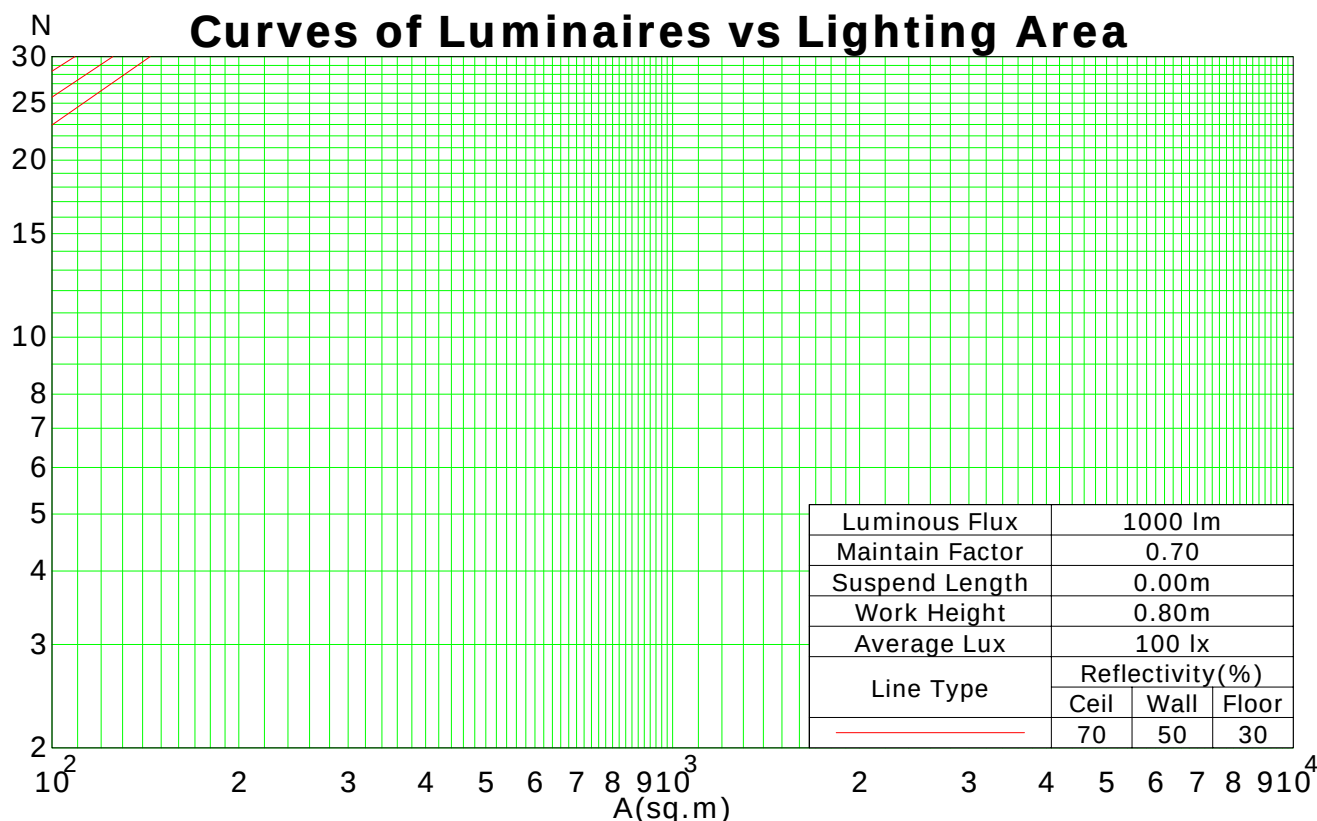
Coefficients Of Utilization - Zonal Cavity Method

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	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	92	88	90	88	85	86	84	82	80
2	97	89	82	76	94	87	80	75	83	77	73	79	74	70	75	72	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	78	67	59	53	64	57	51	62	55	50	59	54	49	47
5	75	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	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	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	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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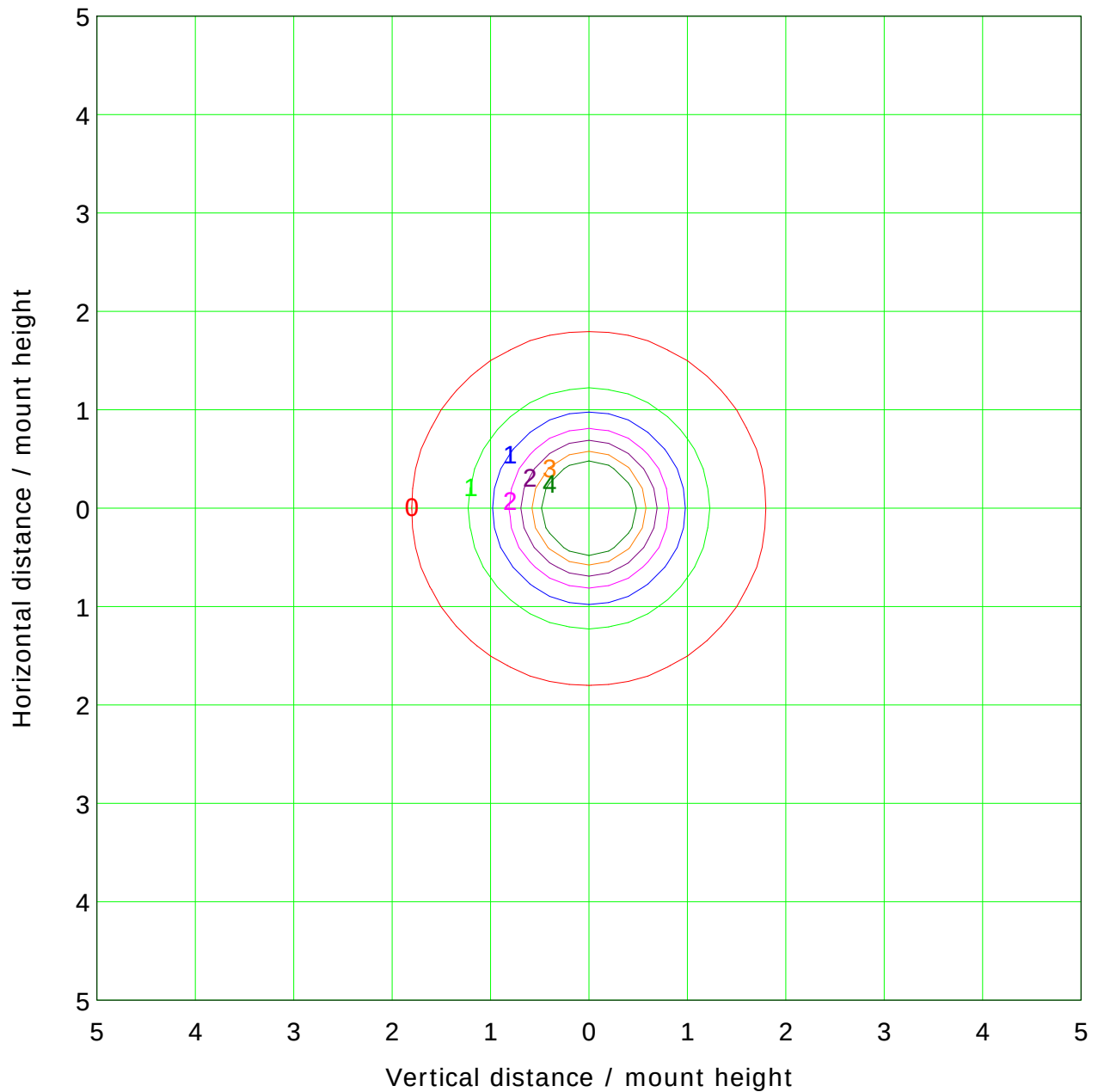
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 5.5 lx	
(5%):	0.3 lx	(15%):	0.8 lx
(25%):	1.4 lx	(35%):	1.9 lx
(45%):	2.5 lx	(55%):	3.0 lx
(65%):	3.6 lx		

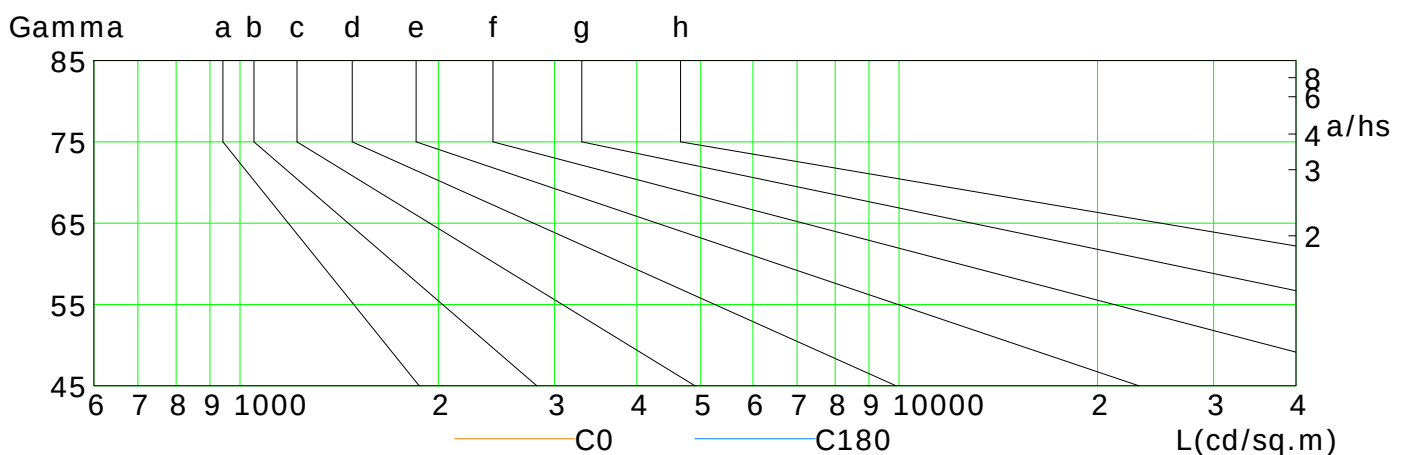
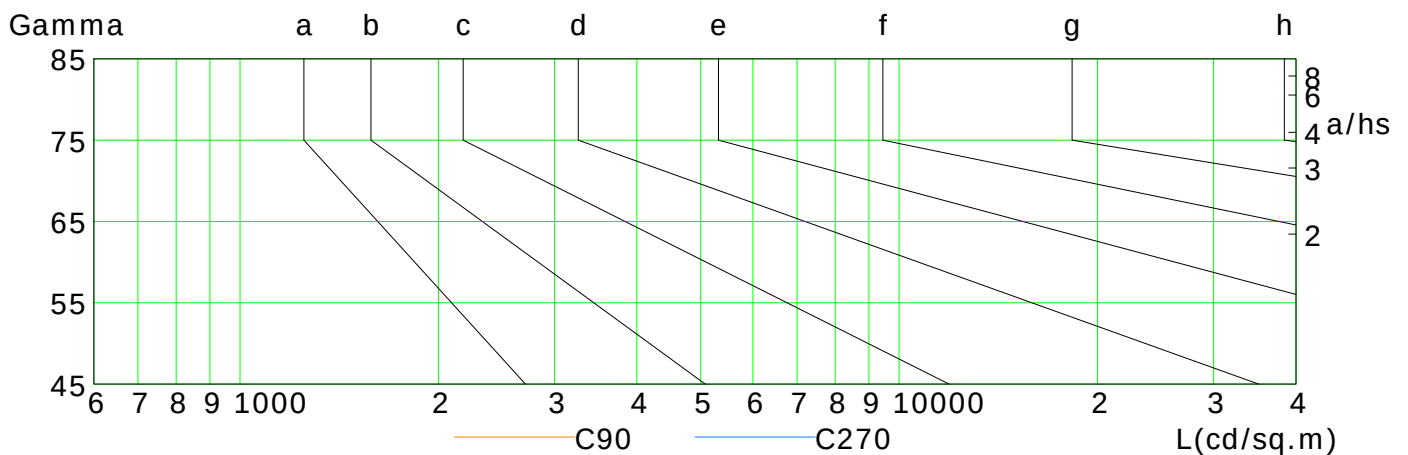
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
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 Test Device: GPM-1600L
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 Inspector:

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	371	332	292	249	206	162	118	77	43
C90	371	333	292	250	206	162	118	77	43
C180	371	332	291	248	204	159	115	74	41
C270	368	330	289	246	202	158	114	73	40

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Operator: SUSHUNHUA

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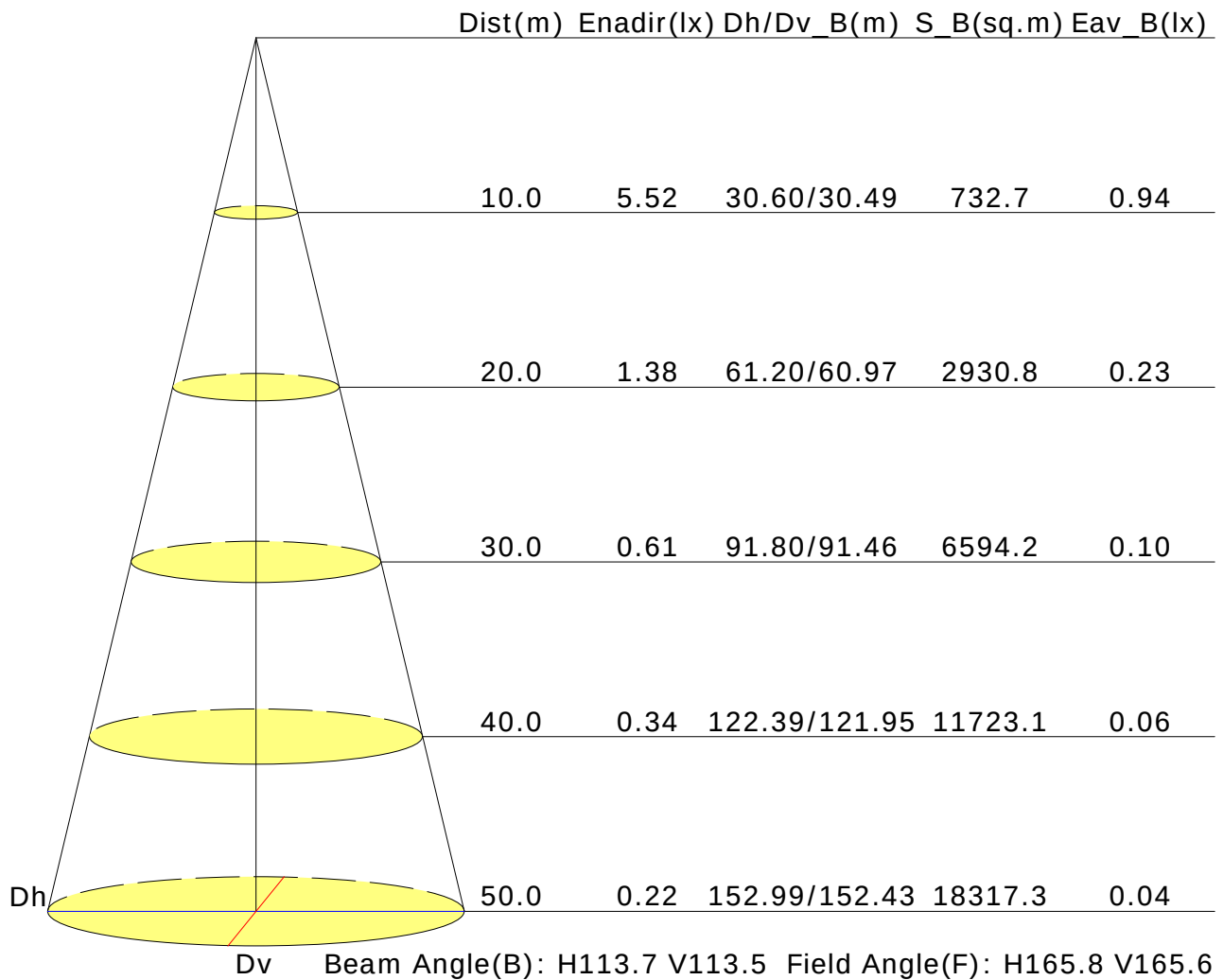
Test Device: GPM-1600L

Distance: 7.344 m

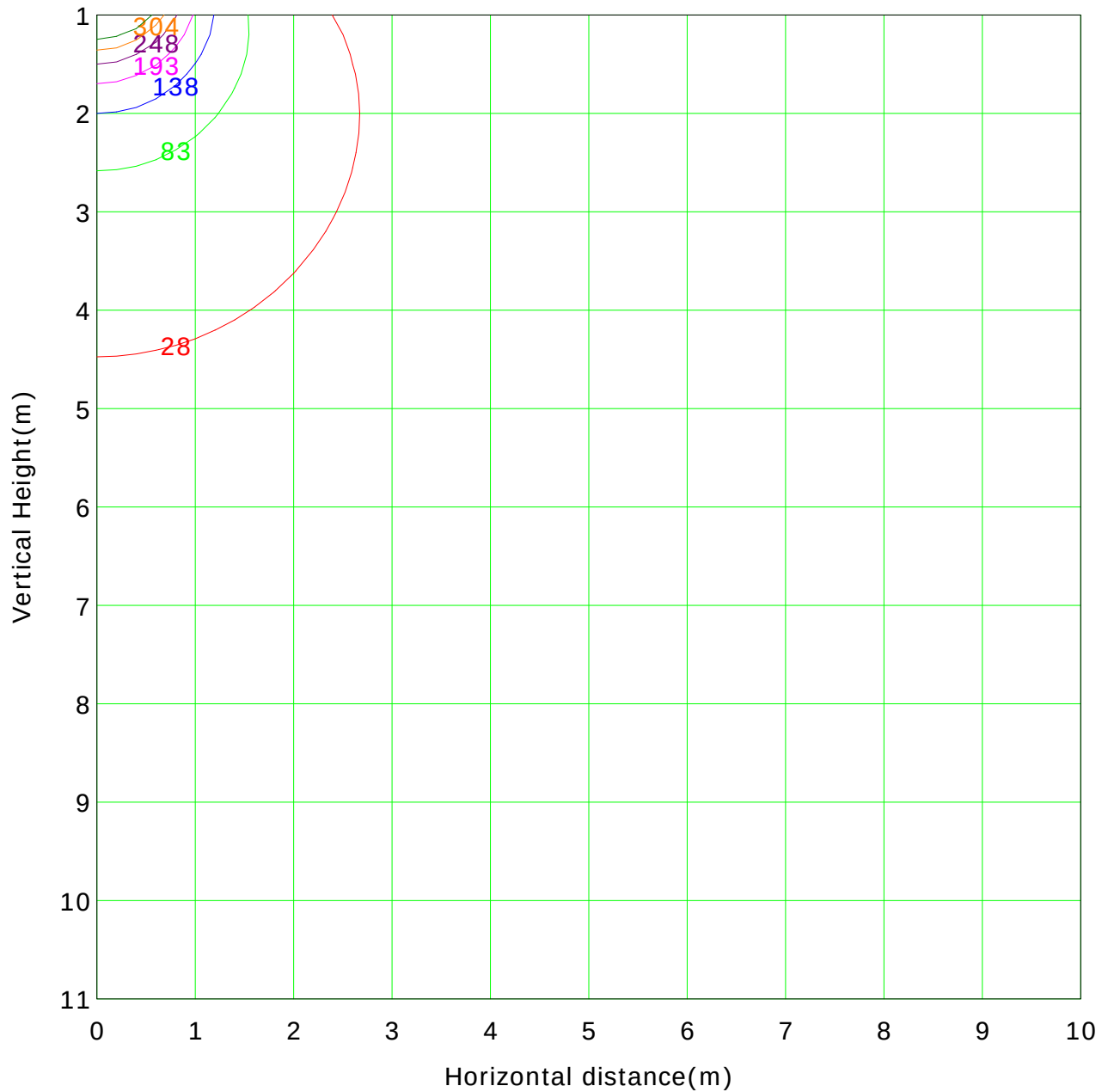
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

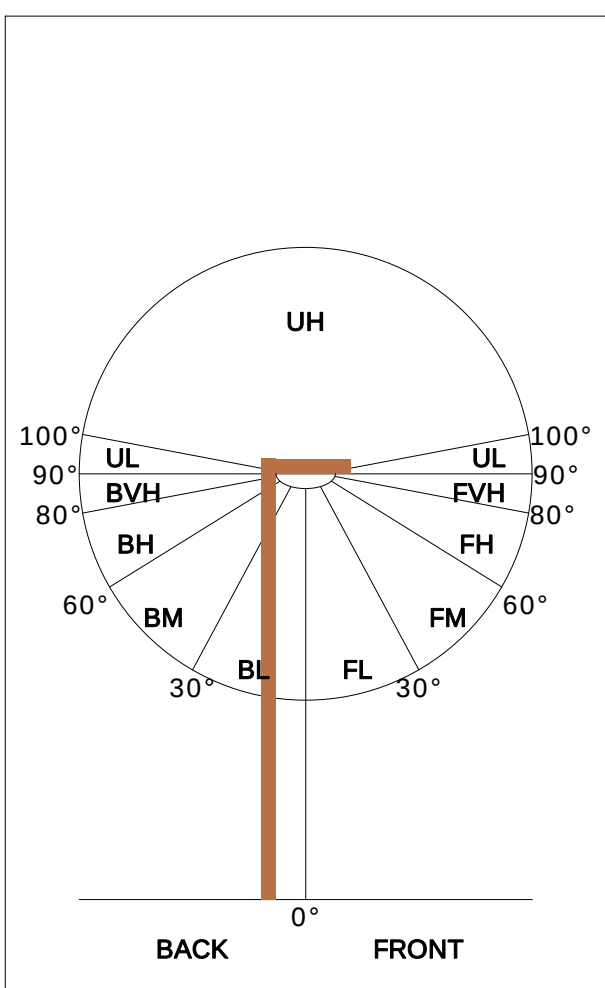


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 551.8 lx
(5%): 27.6 lx	(15%): 82.8 lx	
(25%): 138.0 lx	(35%): 193.1 lx	
(45%): 248.3 lx	(55%): 303.5 lx	
(65%): 358.7 lx		

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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	813	48.4
	FL (0°-30°)	214	12.8
	FM (30°-60°)	410	24.4
	FH (60°-80°)	164	9.8
	FVH (80°-90°)	24	1.4
	BACK LIGHT	808	48.1
	BL (0°-30°)	214	12.7
	BM (30°-60°)	409	24.3
	BH (60°-80°)	162	9.6
	BVH (80°-90°)	24	1.4
	UP LIGHT	59	3.5
	UL (90°-100°)	12	0.7
	UH (100°-180°)	47	2.8
	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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