

Report No.:

Test Time: 2021-04-13 16:09

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: E18002-4000K

Lamp Description: 2835

Current: 0.200 A

Power Factor: 0.933

Lamp Catalog: LED

Voltage: 119.9 V

Power: 22.40 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1749.9 lm

Downward Ratio: 96%

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

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.6, 113.4, 113.5, 113.5

Luminaire Efficacy Rating (LER): 78.17

Max. Intensity: 575.18 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1749.9 lm

Efficiency: 100%

Upward Ratio: 4%

Central Intensity: 575.18 cd

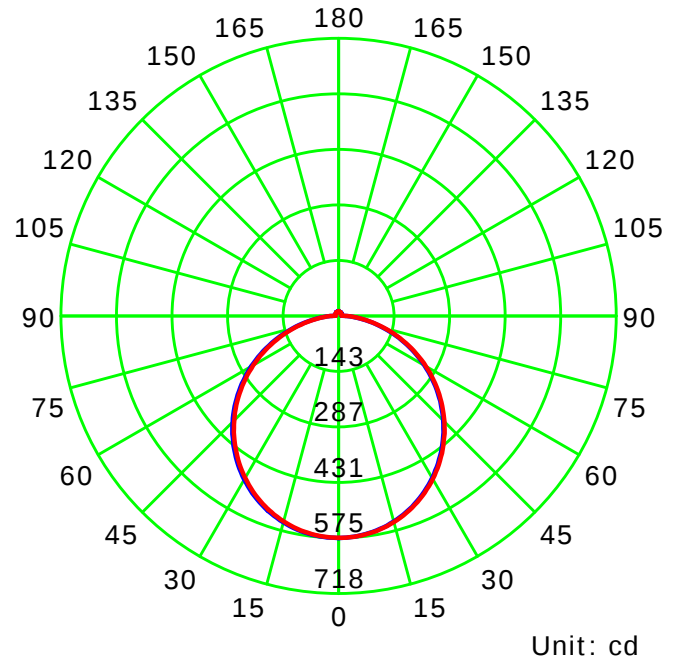
Pos of Max. Intensity: H0 V0

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:

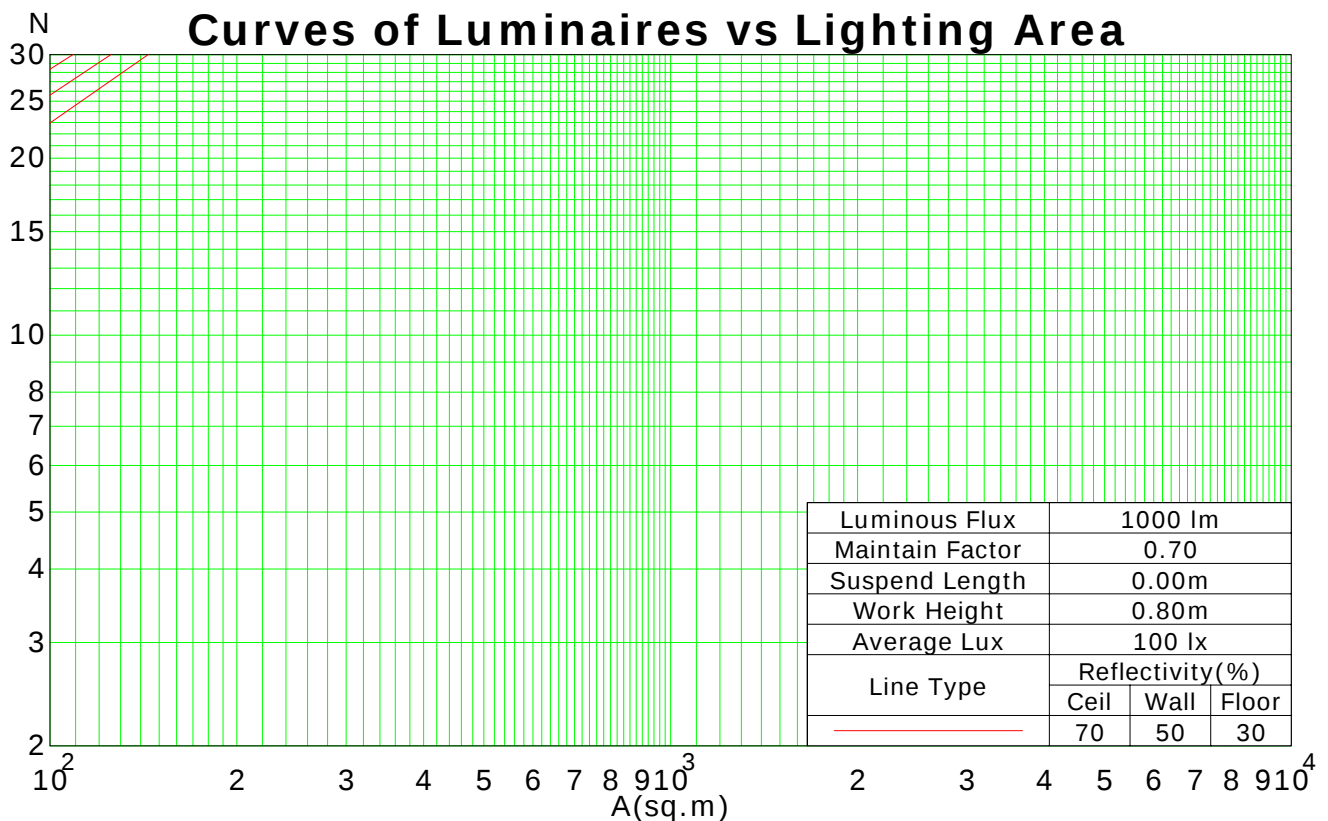
Coefficients Of Utilization - Zonal Cavity Method

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	96
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	28	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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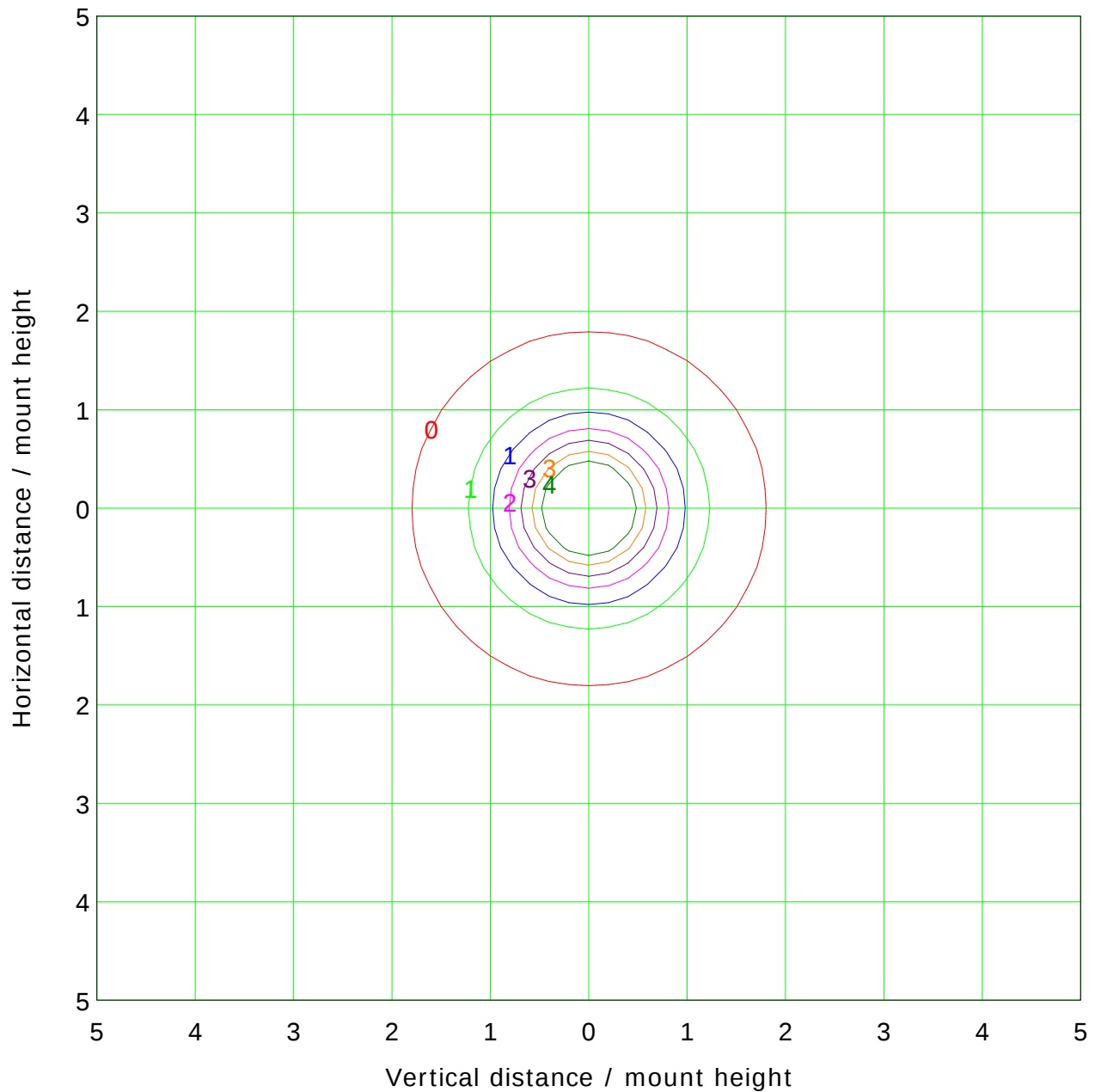
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 5.8 lx	
— (5%):	0.3 lx	— (15%):	0.9 lx
— (25%):	1.4 lx	— (35%):	2.0 lx
— (45%):	2.6 lx	— (55%):	3.2 lx
— (65%):	3.7 lx		

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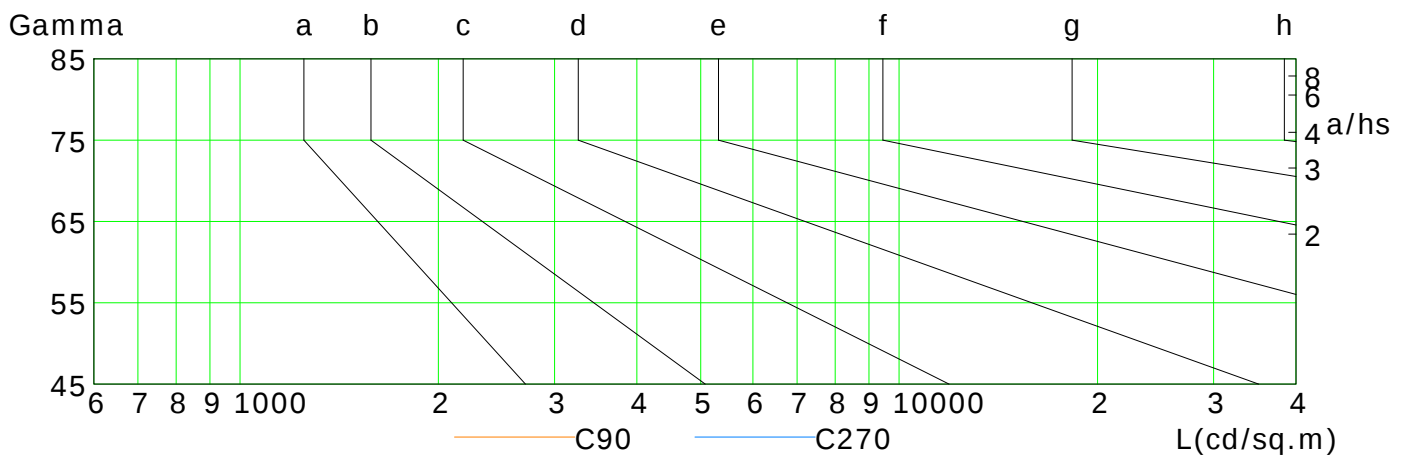
Humidity:

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

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	383	344	301	257	212	166	120	78	43
C90	387	348	305	261	216	170	124	81	45
C180	388	349	306	262	215	169	122	80	44
C270	382	343	300	256	209	163	118	75	41

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Temperature:

Operator: SUSHUNHUA

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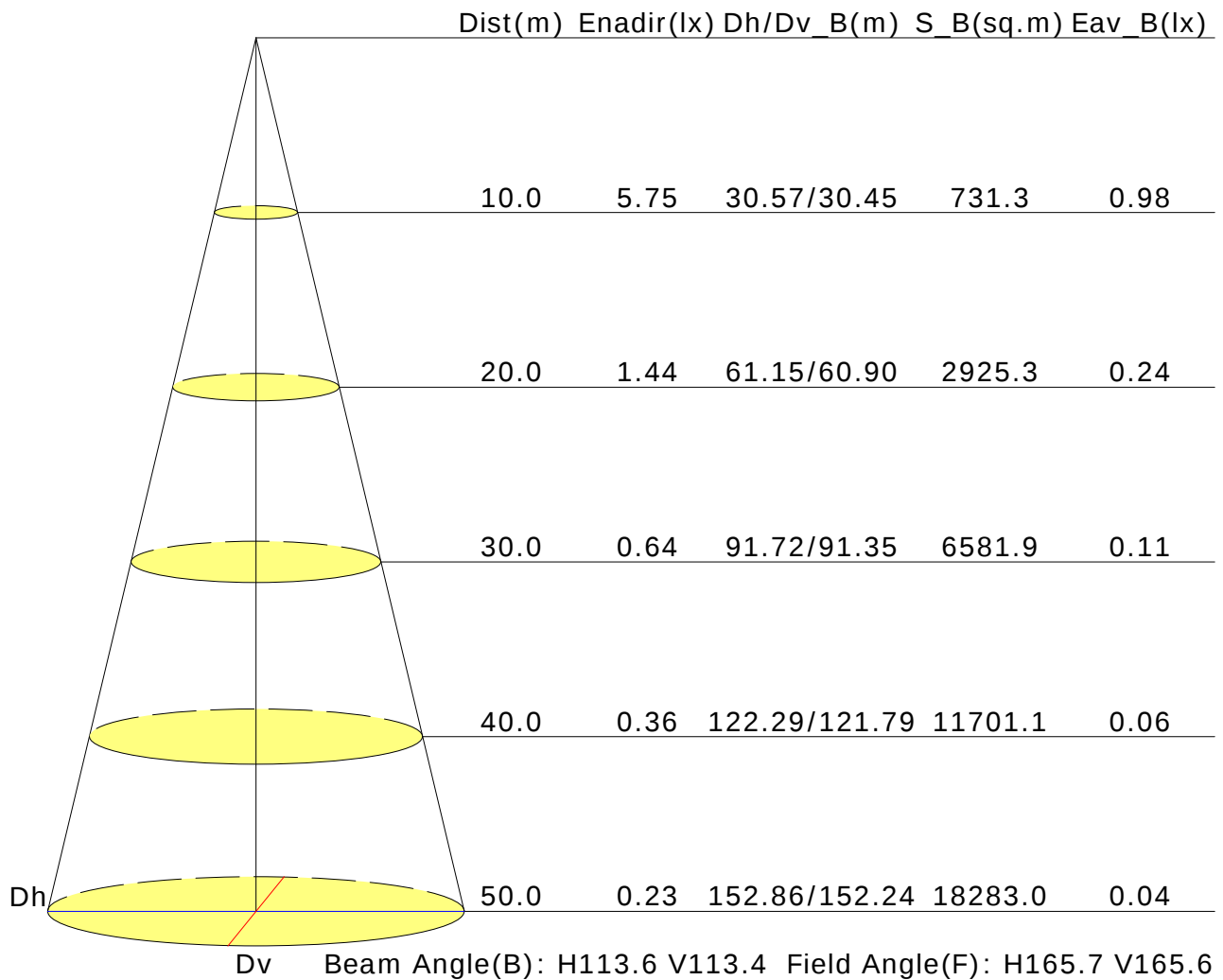
Test Device: GPM-1600L

Distance: 7.344 m

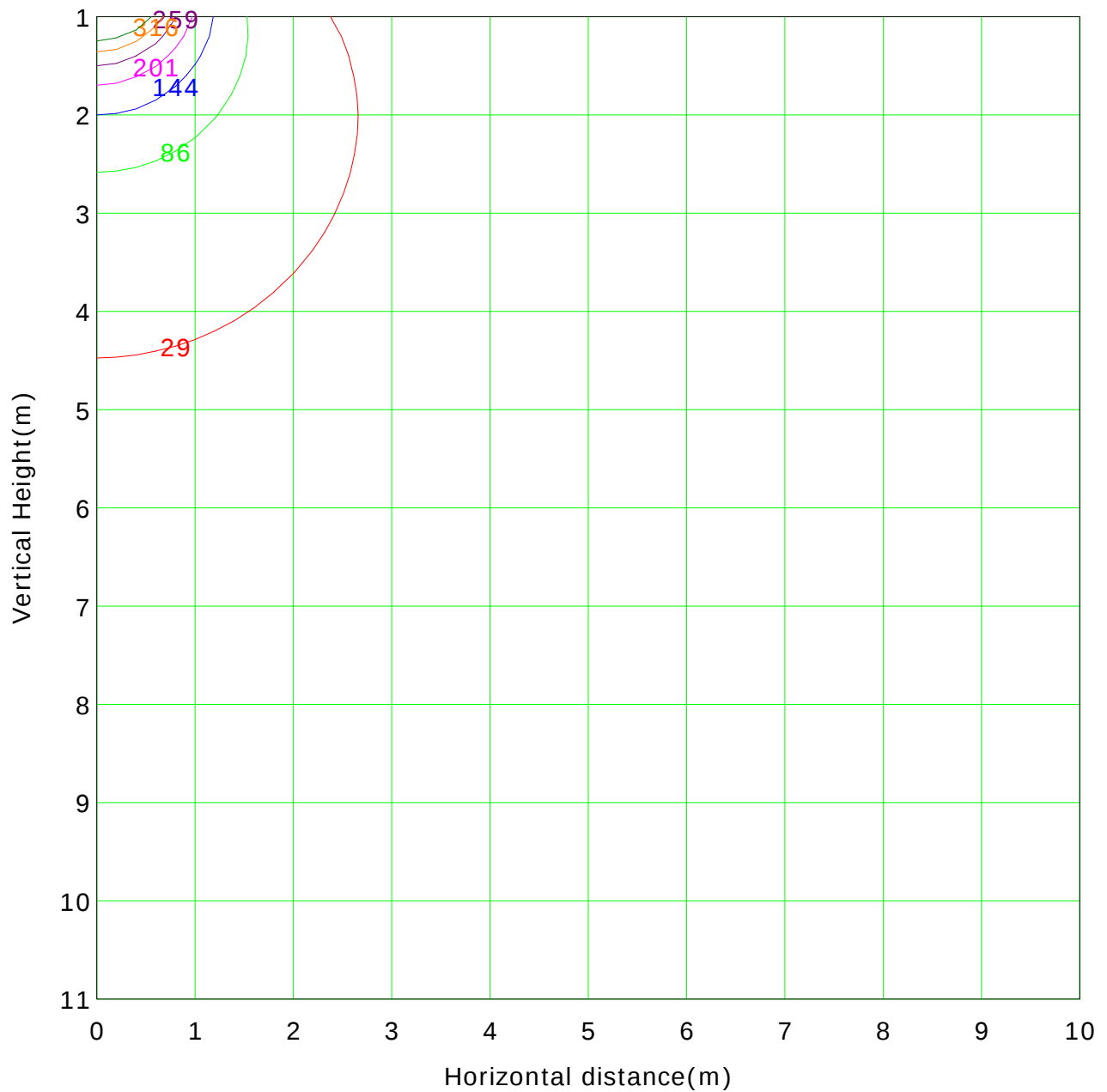
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



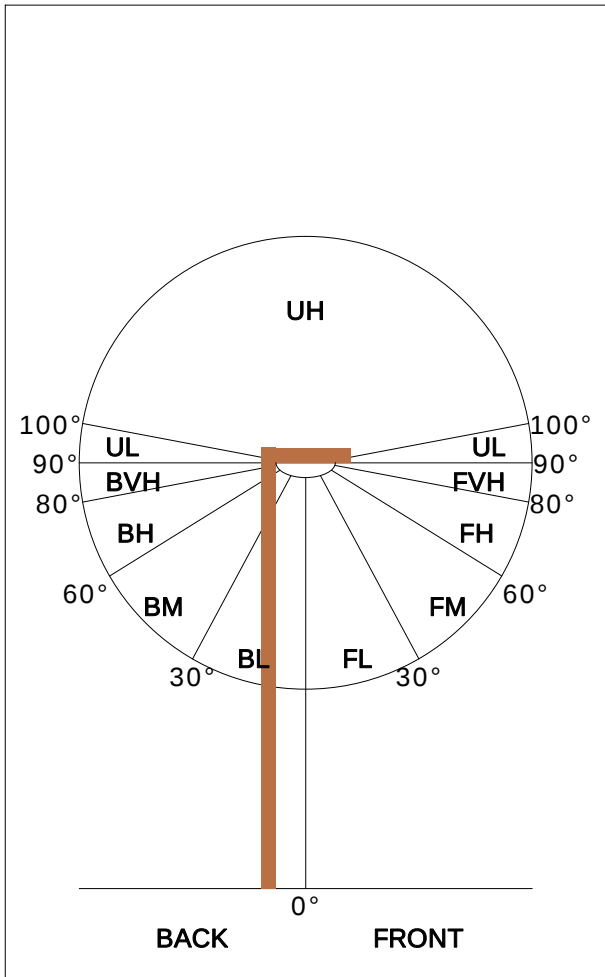
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 575.2 lx

(5%): 28.8 lx	(15%): 86.3 lx
(25%): 143.8 lx	(35%): 201.3 lx
(45%): 258.8 lx	(55%): 316.3 lx
(65%): 373.9 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	848	48.5
	FL (0°-30°)	224	12.8
	FM (30°-60°)	428	24.5
	FH (60°-80°)	171	9.8
	FVH (80°-90°)	26	1.5
	BACK LIGHT	840	48.0
	BL (0°-30°)	223	12.7
	BM (30°-60°)	425	24.3
	BH (60°-80°)	168	9.6
	BVH (80°-90°)	24	1.4
	UP LIGHT	61	3.5
	UL (90°-100°)	13	0.7
	UH (100°-180°)	49	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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