

Report No.:

Test Time: 2021-04-20 15:52

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A30331

Lamp Description: 2835

Current: 0.166 A

Power Factor: 0.924

Lamp Catalog: LED

Voltage: 119.9 V

Power: 18.34 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1406.9 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.0, 163.2, 163.1, 163.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.7, 112.1, 111.9, 111.9

Luminaire Efficacy Rating (LER): 76.76

Max. Intensity: 493.58 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 1406.9 lm

Efficiency: 100%

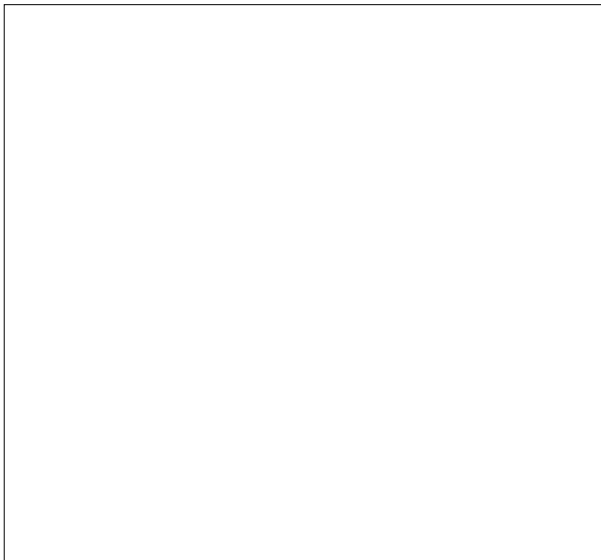
Upward Ratio: 0%

Central Intensity: 492.31 cd

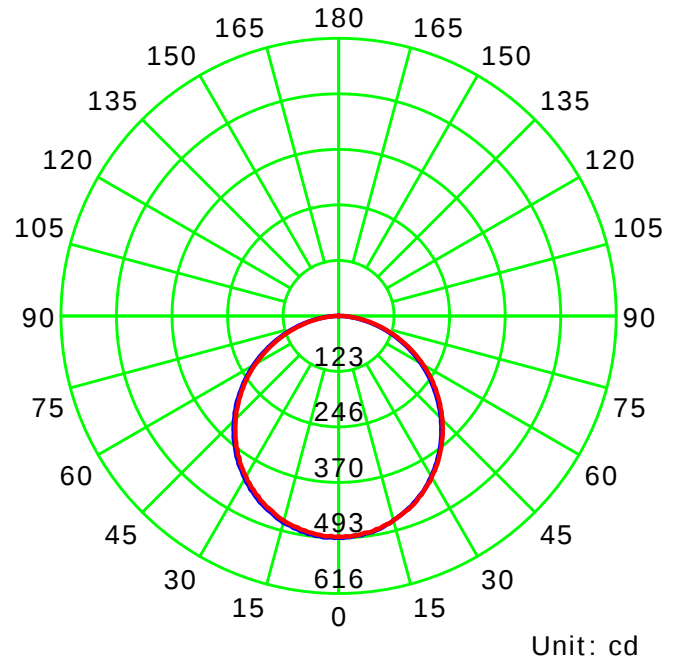
Pos of Max. Intensity: H180 V1

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:

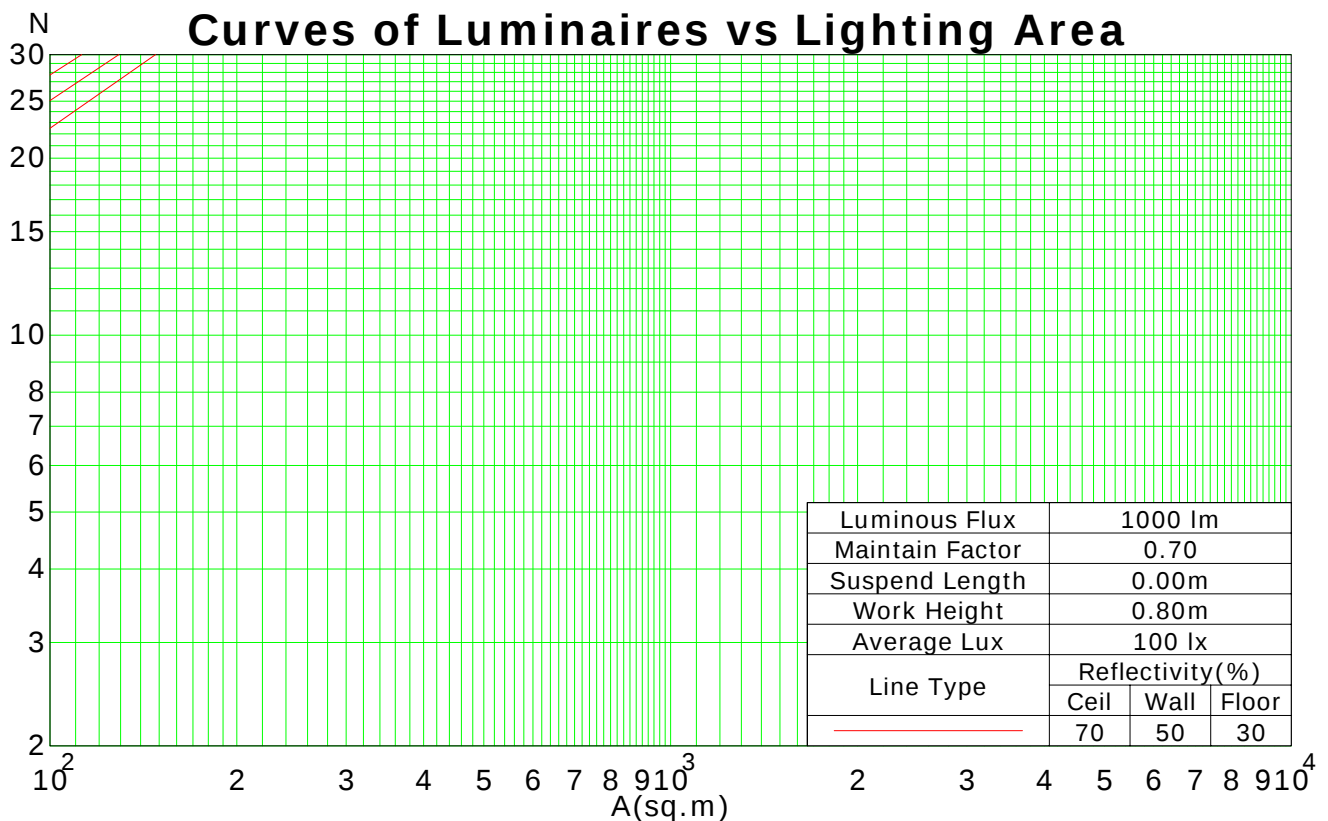
Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.25

Spacing Criteria (Diagonal): 1.37



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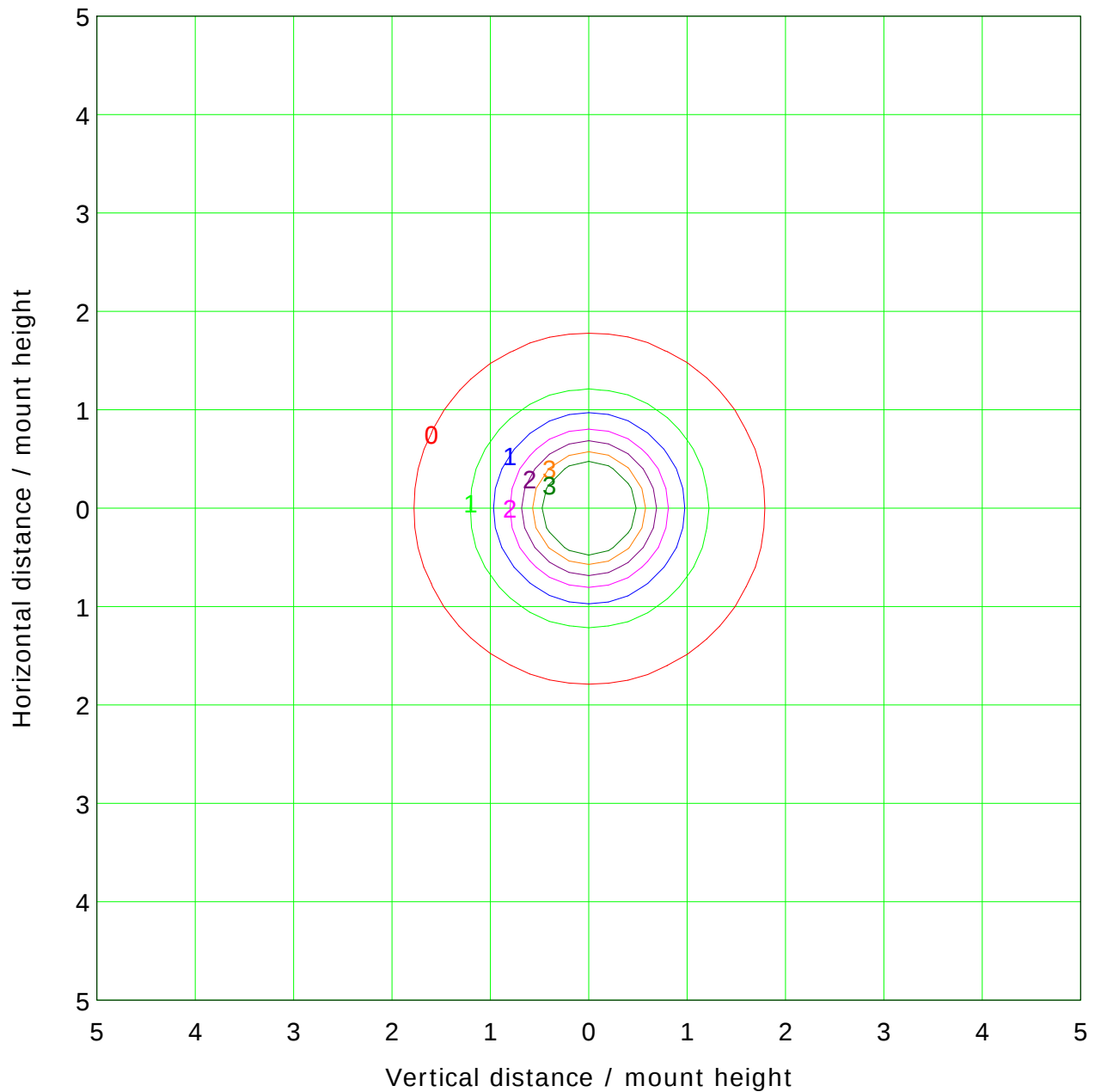
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 4.9 lx	
— (5%):	0.2 lx	— (15%):	0.7 lx
— (25%):	1.2 lx	— (35%):	1.7 lx
— (45%):	2.2 lx	— (55%):	2.7 lx
— (65%):	3.2 lx		

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Test Device: GPM-1600L

Distance: 7.344 m

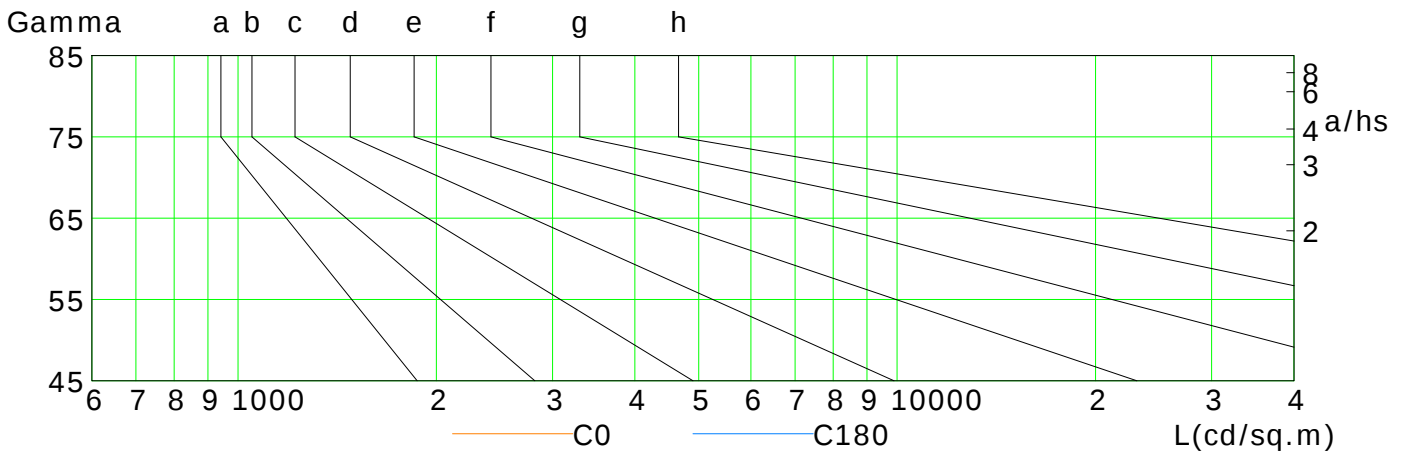
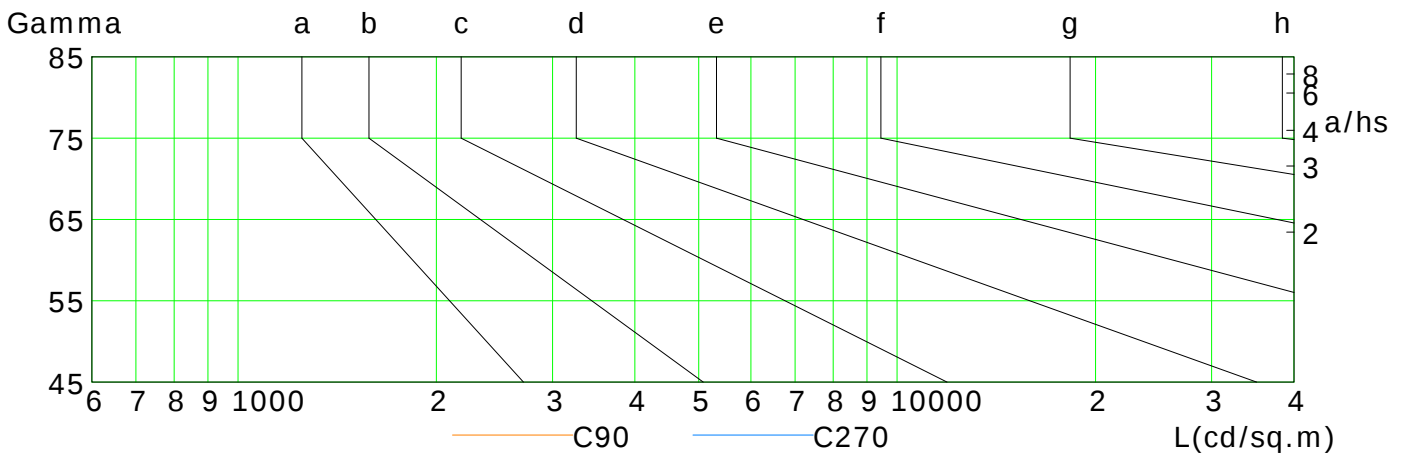
Humidity:

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	322	286	250	211	172	133	94	58	24
C90	326	291	256	217	178	139	100	63	29
C180	329	295	258	219	178	138	100	62	28
C270	324	289	251	213	173	133	94	58	24

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Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

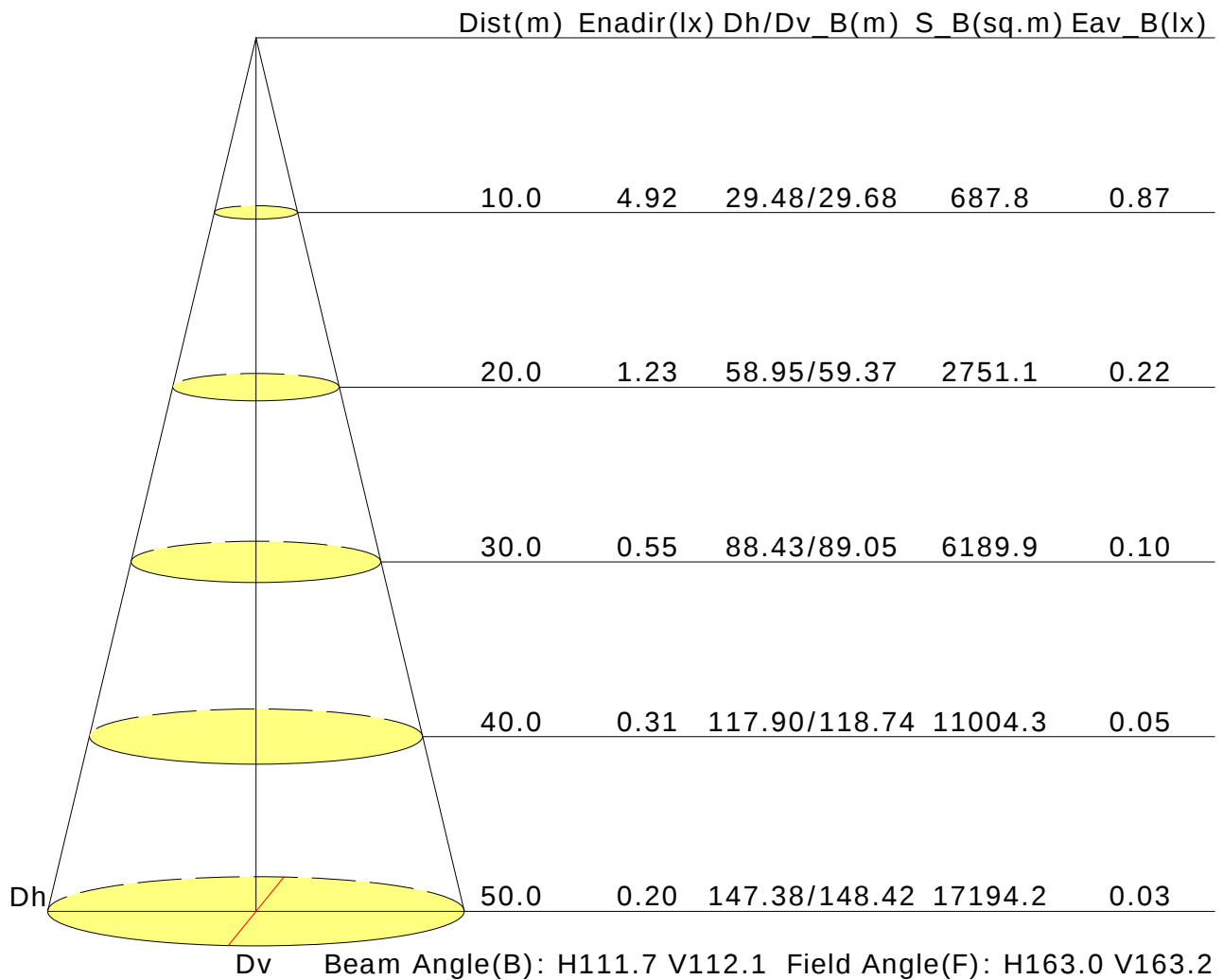
Test Device: GPM-1600L

Distance: 7.344 m

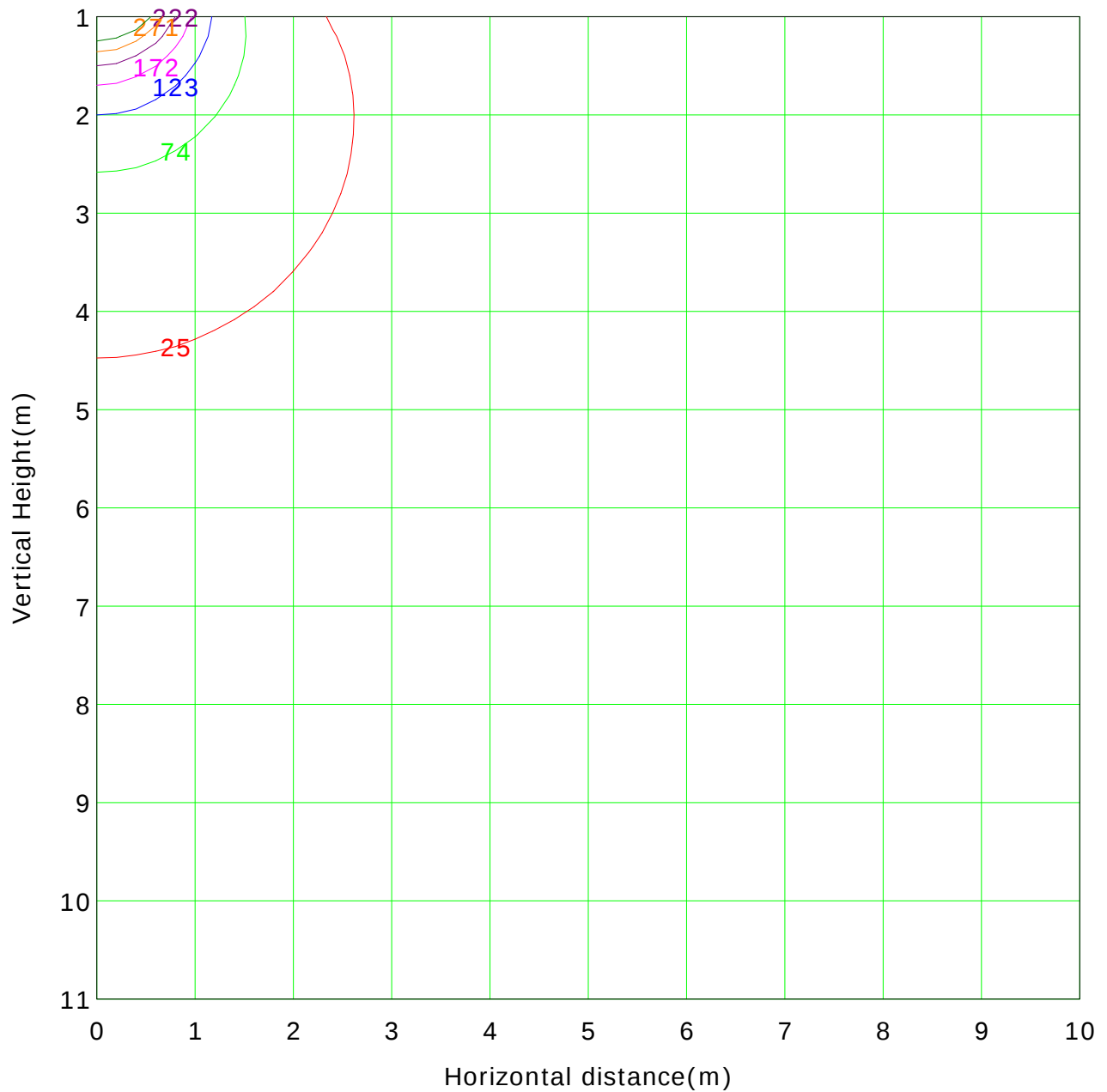
Humidity:

Inspector:

Illuminance at a Distance



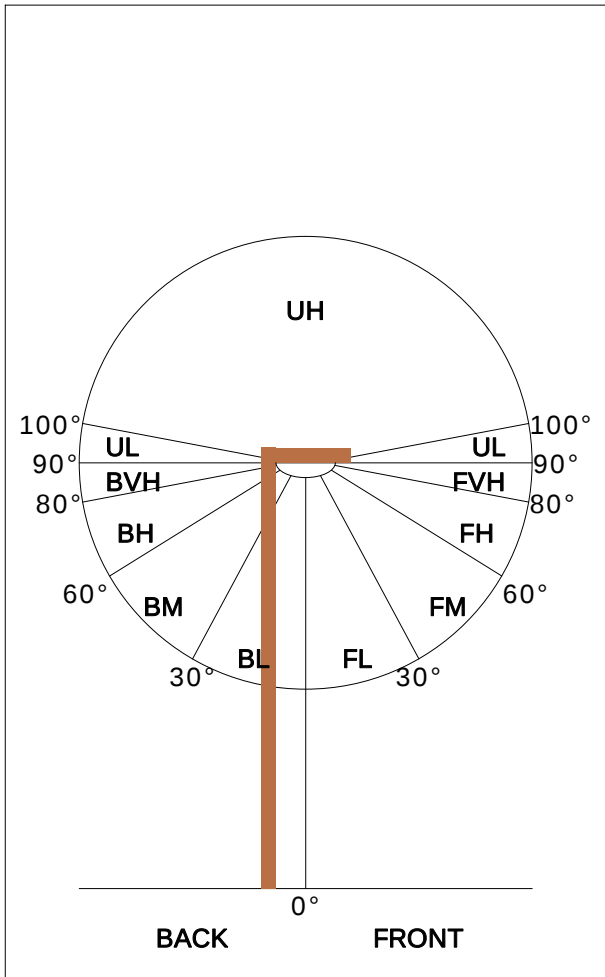
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 492.3 lx

(5%): 24.6 lx	(15%): 73.8 lx
(25%): 123.1 lx	(35%): 172.3 lx
(45%): 221.5 lx	(55%): 270.8 lx
(65%): 320.0 lx	

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	706	50.2
	FL (0°-30°)	191	13.5
	FM (30°-60°)	360	25.6
	FH (60°-80°)	140	9.9
	FVH (80°-90°)	15	1.1
	BACK LIGHT	700	49.8
	BL (0°-30°)	190	13.5
	BM (30°-60°)	359	25.5
	BH (60°-80°)	137	9.7
	BVH (80°-90°)	14	1.0
	UP LIGHT	1	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	1	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G1

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