

Report No.:

Test Time: 2021-04-15 13:55

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17003-4000K

Lamp Description: 2835

Current: 0.238 A

Power Factor: 0.966

Lamp Catalog: LED

Voltage: 119.7 V

Power: 27.57 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2317.7 lm

Downward Ratio: 90%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 173.3, 173.6, 173.5, 173.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.3, 118.1, 118.1, 118.2

Luminaire Efficacy Rating (LER): 84.11

Max. Intensity: 670.29 cd

S/MH(C0/C180): 1.28

Total Rated Lamp Lumens: 2317.7 lm

Efficiency: 100%

Upward Ratio: 10%

Central Intensity: 667.93 cd

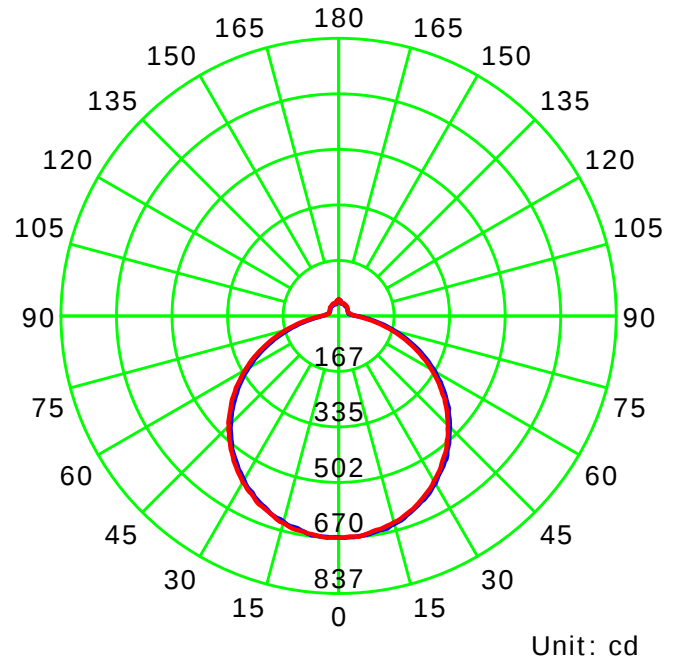
Pos of Max. Intensity: H270 V3

S/MH(C90/C270): 1.28

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:

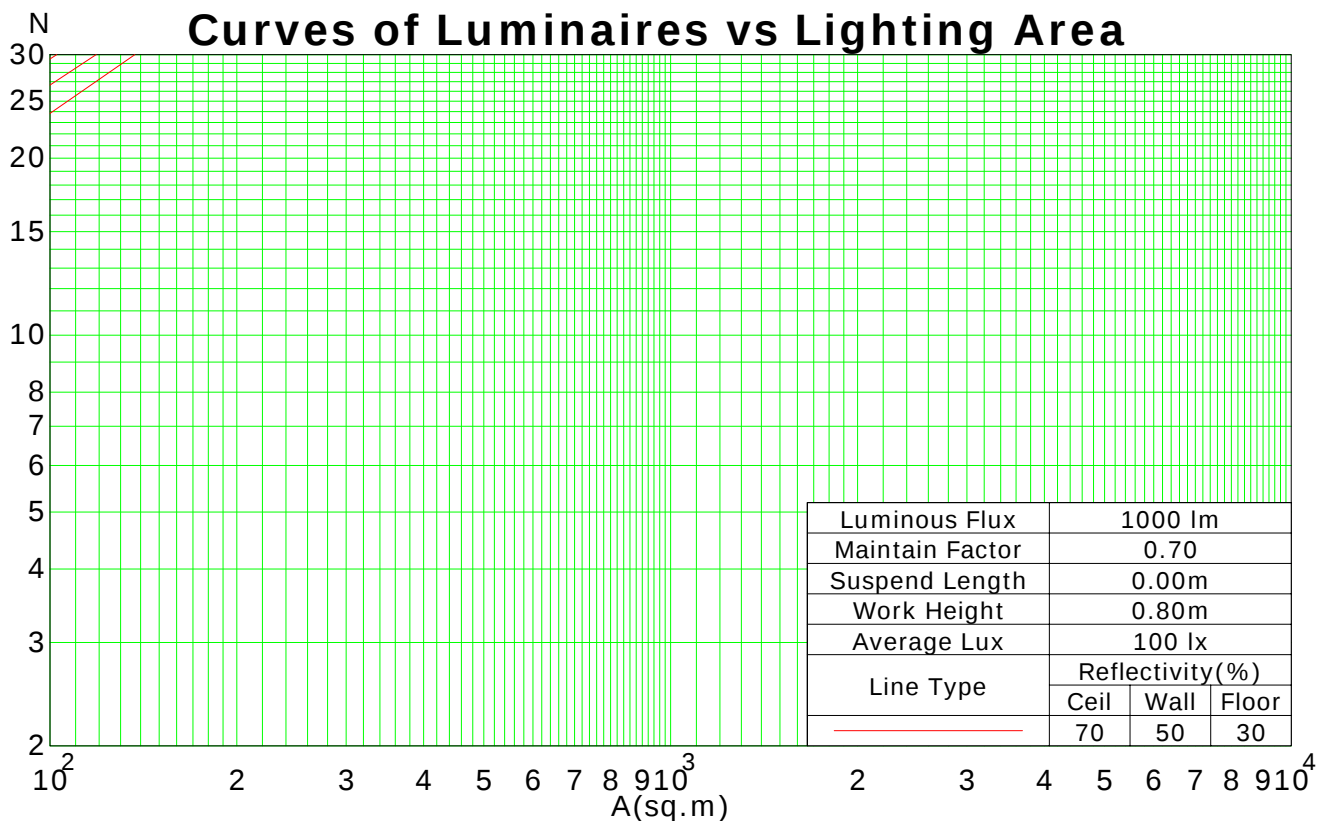
Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	105	100	96	91	102	97	93	89	91	88	84	85	83	80	80	78	76	73
2	95	87	80	74	92	84	78	72	79	73	69	74	70	66	70	66	63	60
3	87	76	67	61	83	74	66	59	69	63	57	65	60	55	61	57	53	50
4	79	67	58	51	76	65	57	50	61	54	48	58	52	47	54	49	45	43
5	73	60	50	44	70	58	49	43	55	47	42	52	45	40	49	43	39	37
6	67	54	44	38	64	52	44	37	49	42	36	47	40	35	44	39	34	32
7	62	48	40	33	60	47	39	33	45	37	32	42	36	31	40	35	30	28
8	58	44	35	30	56	43	35	29	41	34	28	39	32	28	37	31	27	25
9	54	40	32	27	52	39	32	26	38	30	26	36	29	25	34	28	24	22
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	20

Spacing Criteria (0-180): 1.28

Spacing Criteria (90-270): 1.28

Spacing Criteria (Diagonal): 1.41



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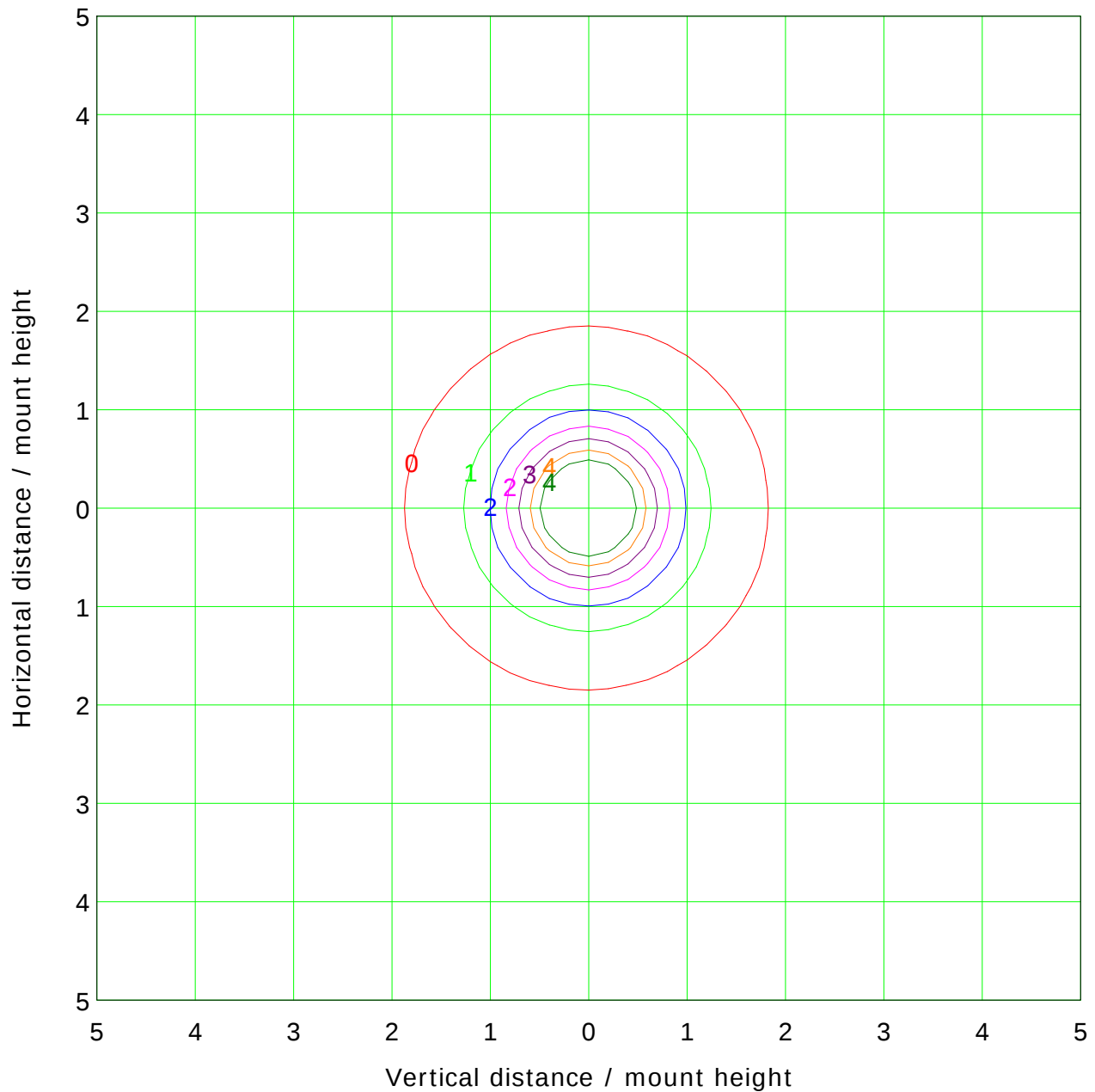
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 6.7 lx	
— (5%):	0.3 lx	— (15%):	1.0 lx
— (25%):	1.7 lx	— (35%):	2.3 lx
— (45%):	3.0 lx	— (55%):	3.7 lx
— (65%):	4.4 lx		

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Test Device: GPM-1600L

Distance: 7.344 m

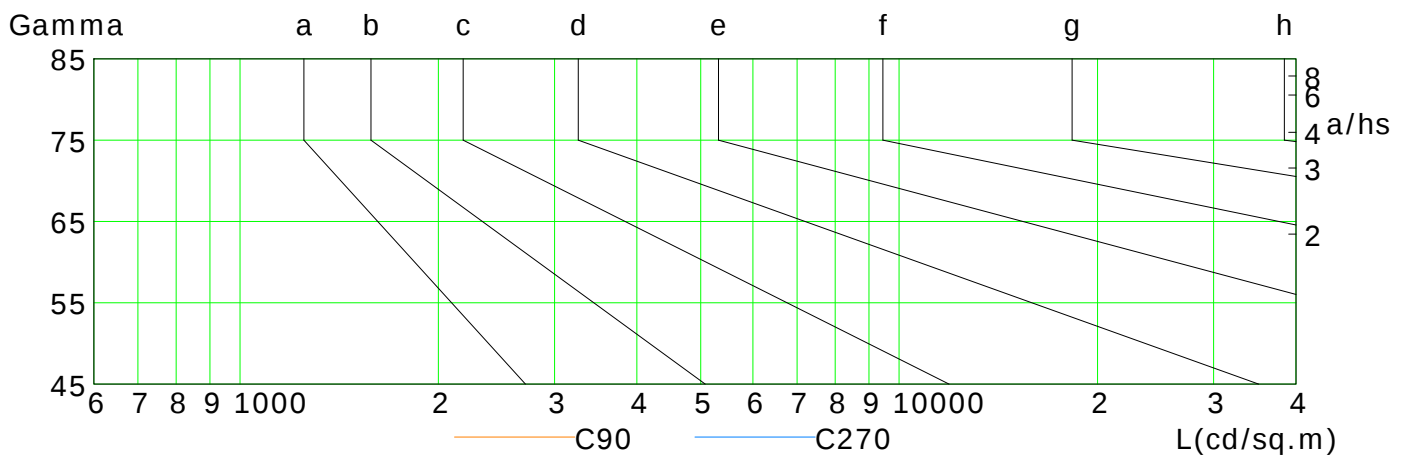
Humidity:

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	475	435	386	336	282	229	176	126	84
C90	467	422	374	323	271	217	165	117	78
C180	460	415	367	314	260	207	153	106	71
C270	469	425	379	326	273	218	165	117	77

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Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

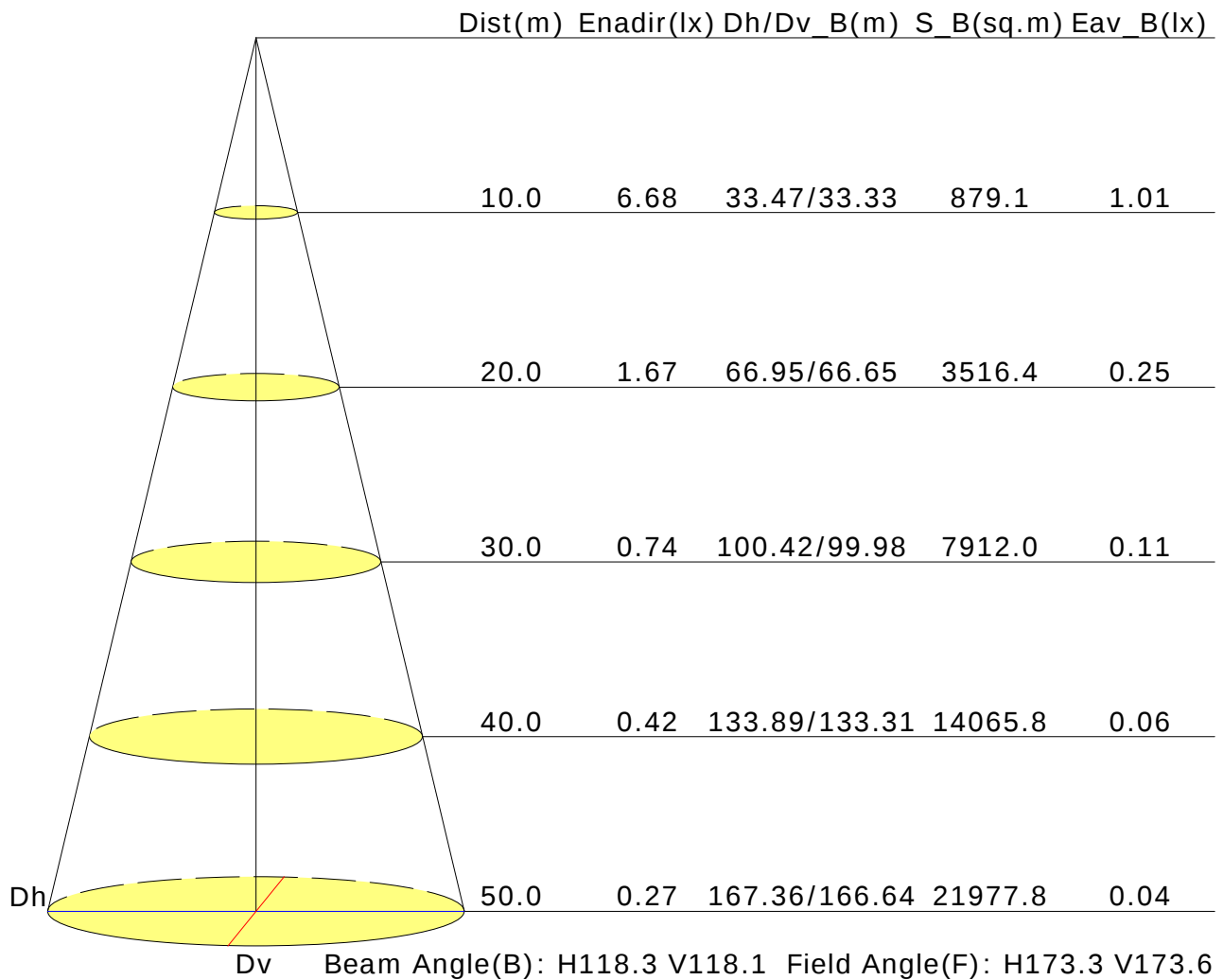
Test Device: GPM-1600L

Distance: 7.344 m

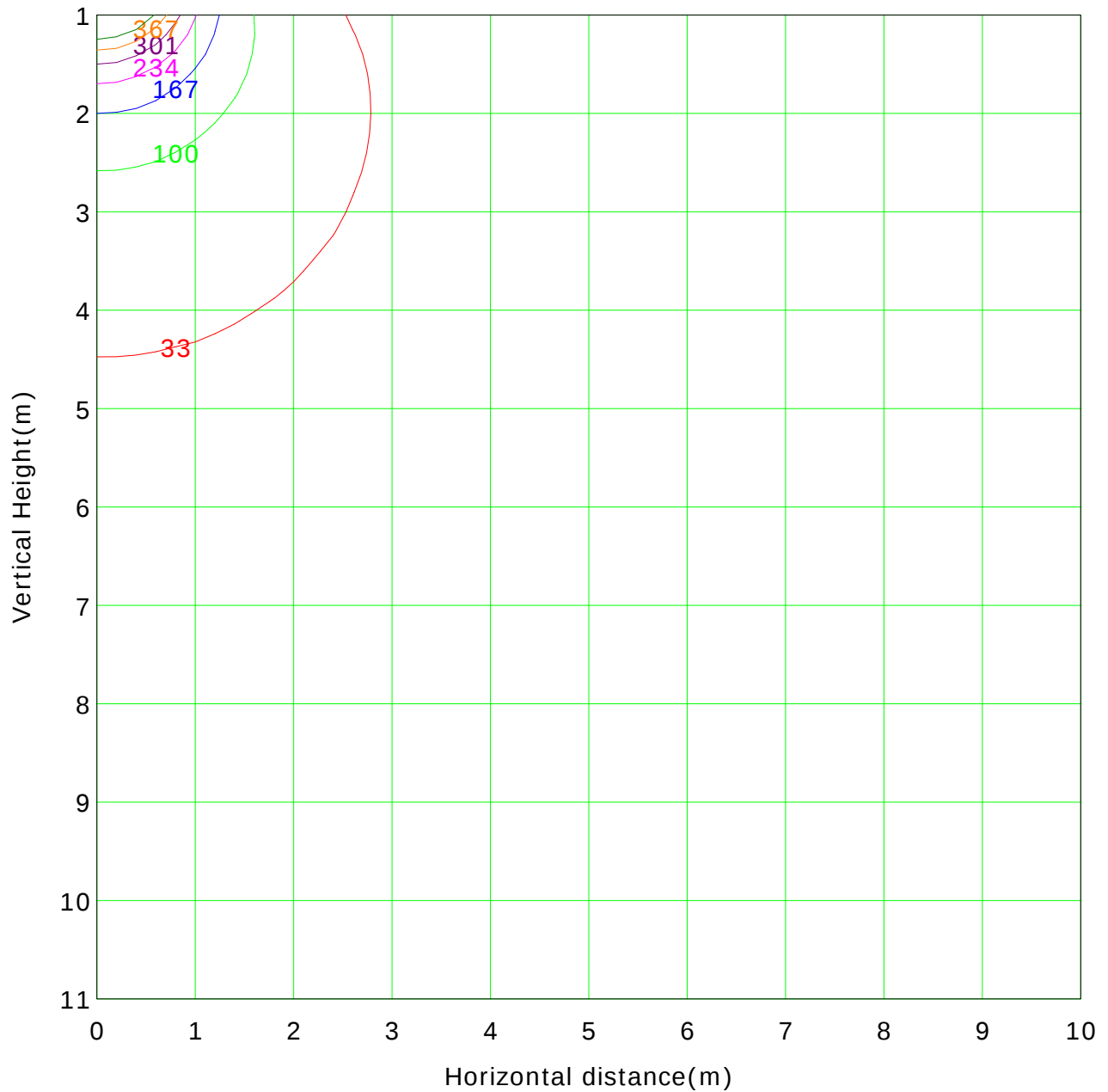
Humidity:

Inspector:

Illuminance at a Distance



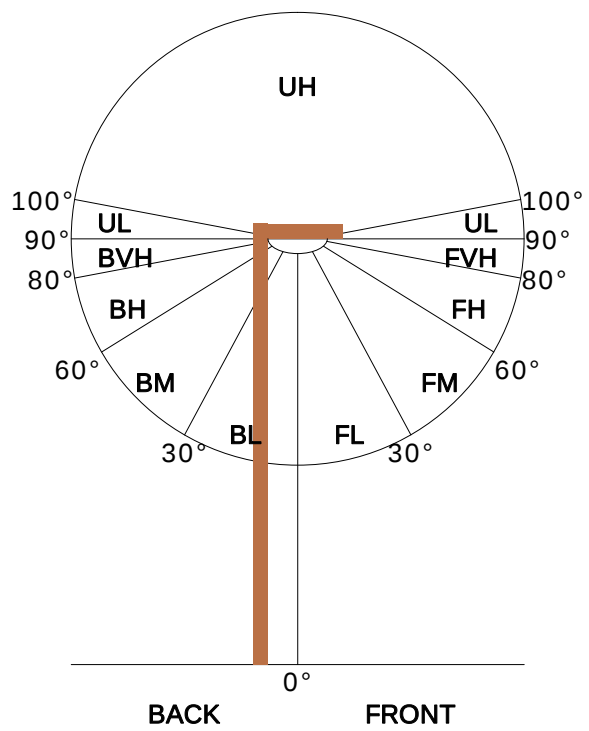
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 667.9 lx

(5%): 33.4 lx	(15%): 100.2 lx
(25%): 167.0 lx	(35%): 233.8 lx
(45%): 300.6 lx	(55%): 367.4 lx
(65%): 434.2 lx	

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1046	45.1
	FL (0°-30°)	262	11.3
	FM (30°-60°)	518	22.4
	FH (60°-80°)	222	9.6
	FVH (80°-90°)	44	1.9
	BACK LIGHT	1048	45.2
	BL (0°-30°)	263	11.3
	BM (30°-60°)	520	22.4
	BH (60°-80°)	222	9.6
	BVH (80°-90°)	43	1.9
	UP LIGHT	224	9.7
	UL (90°-100°)	46	2.0
	UH (100°-180°)	178	7.7
	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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