

Report No.:

Test Time: 2021-04-14 15:23

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17016-3000K

Lamp Description: 2835

Current: 0.210 A

Power Factor: 0.937

Lamp Catalog: LED

Voltage: 120.0 V

Power: 23.61 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1838.2 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.8, 163.9, 163.9, 163.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.3, 113.3, 113.2, 113.3

Luminaire Efficacy Rating (LER): 77.91

Max. Intensity: 606.31 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1838.2 lm

Efficiency: 100%

Upward Ratio: 4%

Central Intensity: 606.31 cd

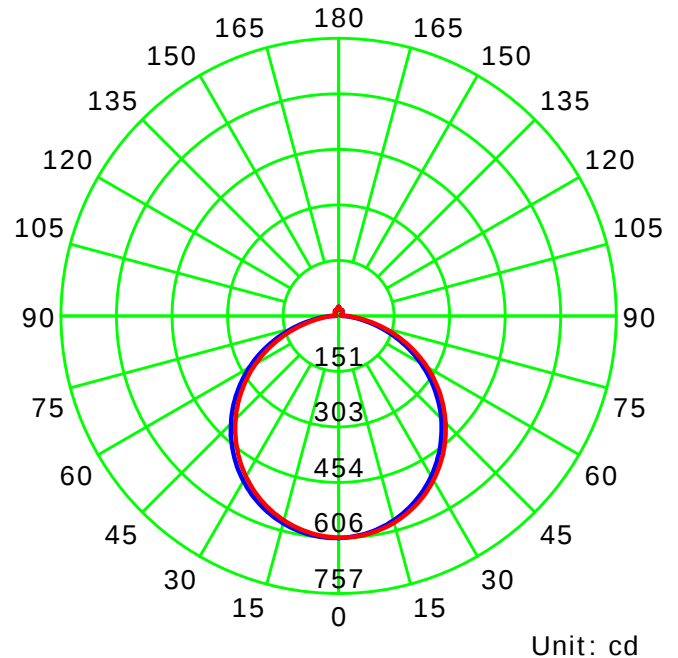
Pos of Max. Intensity: H0 V0

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:

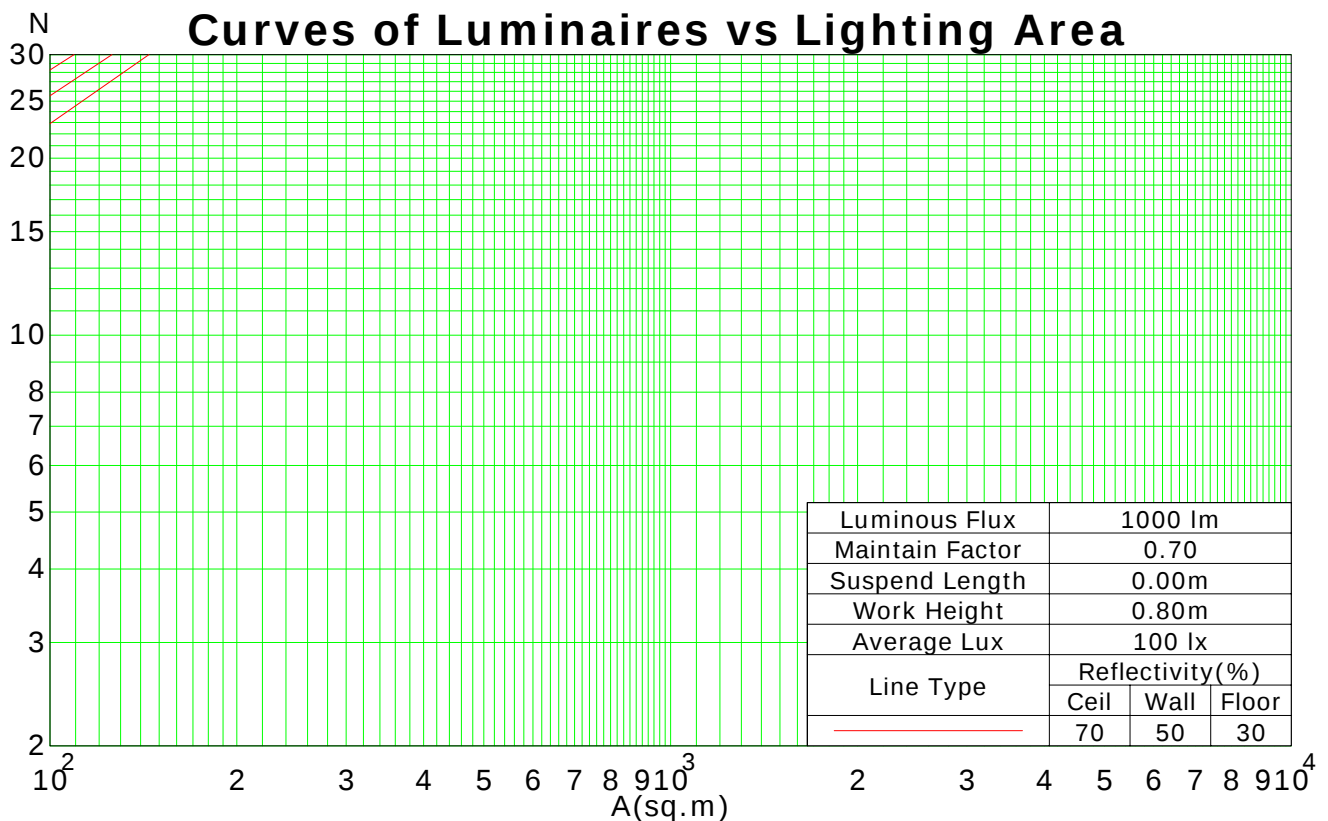
Coefficients Of Utilization - Zonal Cavity Method

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	103	103	103	98	98	98	96
1	107	103	98	94	104	100	96	92	95	92	89	90	88	85	86	84	82	79
2	98	89	82	76	94	87	80	75	83	77	73	79	74	70	75	71	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	67	59	53	64	57	52	62	55	51	59	54	49	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	40	52	45	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	26	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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Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

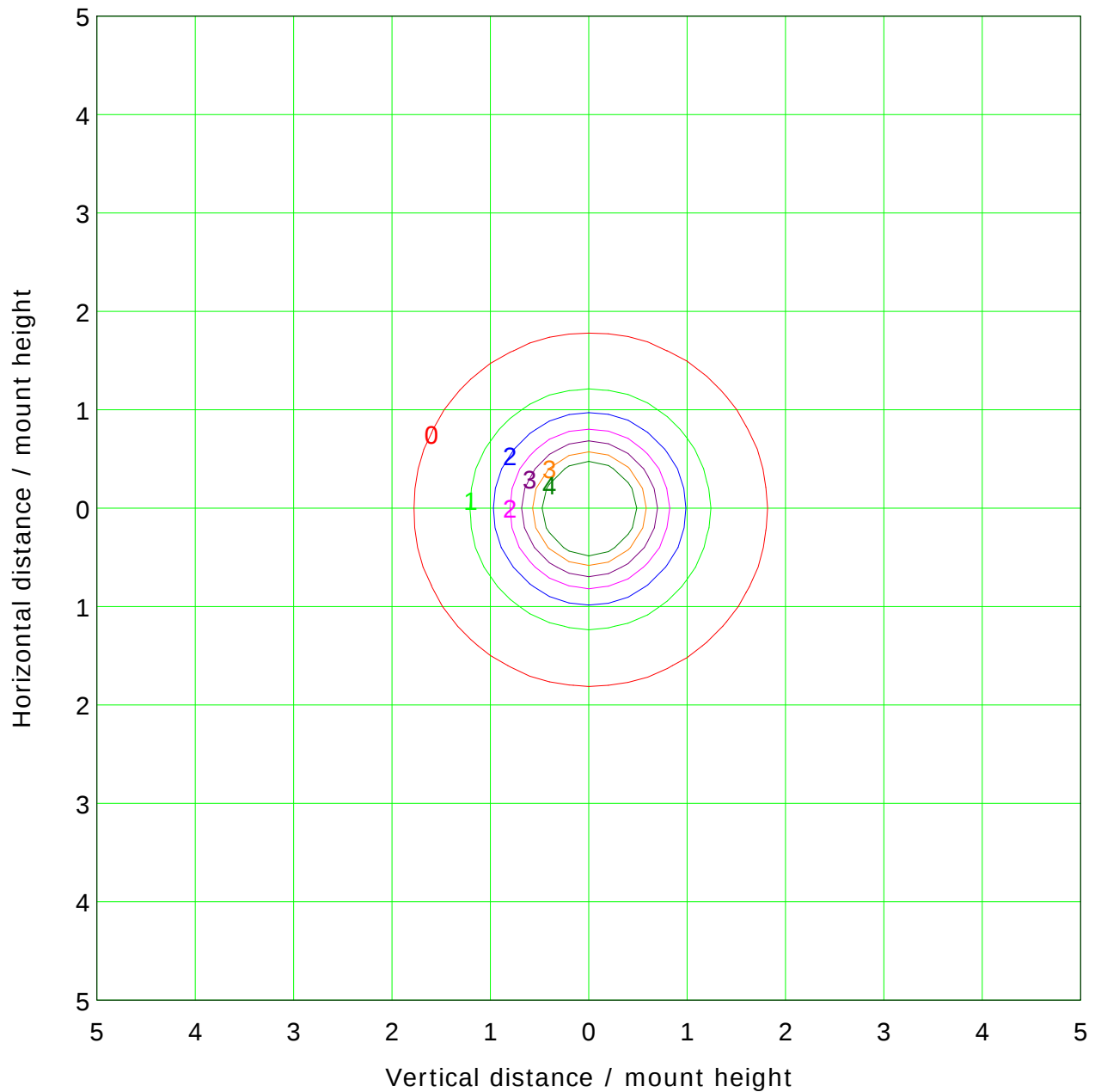
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 6.1 lx	
— (5%):	0.3 lx	— (15%):	0.9 lx
— (25%):	1.5 lx	— (35%):	2.1 lx
— (45%):	2.7 lx	— (55%):	3.3 lx
— (65%):	3.9 lx		

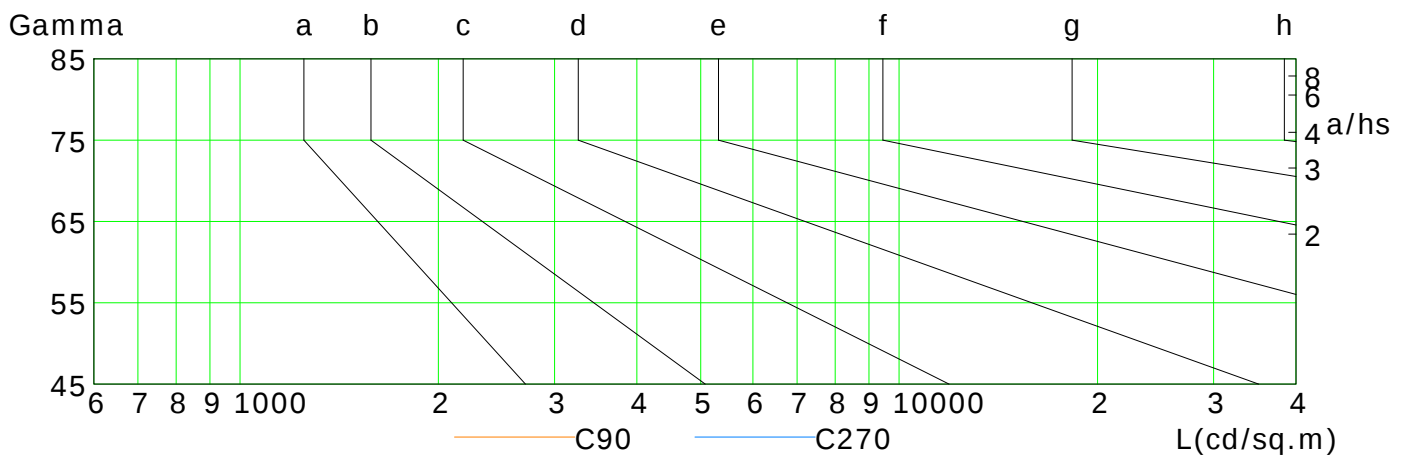
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 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: SUSHUNHUA

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 Humidity:
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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	396	353	308	260	211	160	111	68	34
C90	413	371	326	279	230	180	129	84	46
C180	416	374	329	282	232	181	131	84	45
C270	398	356	310	262	212	161	112	68	35

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Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

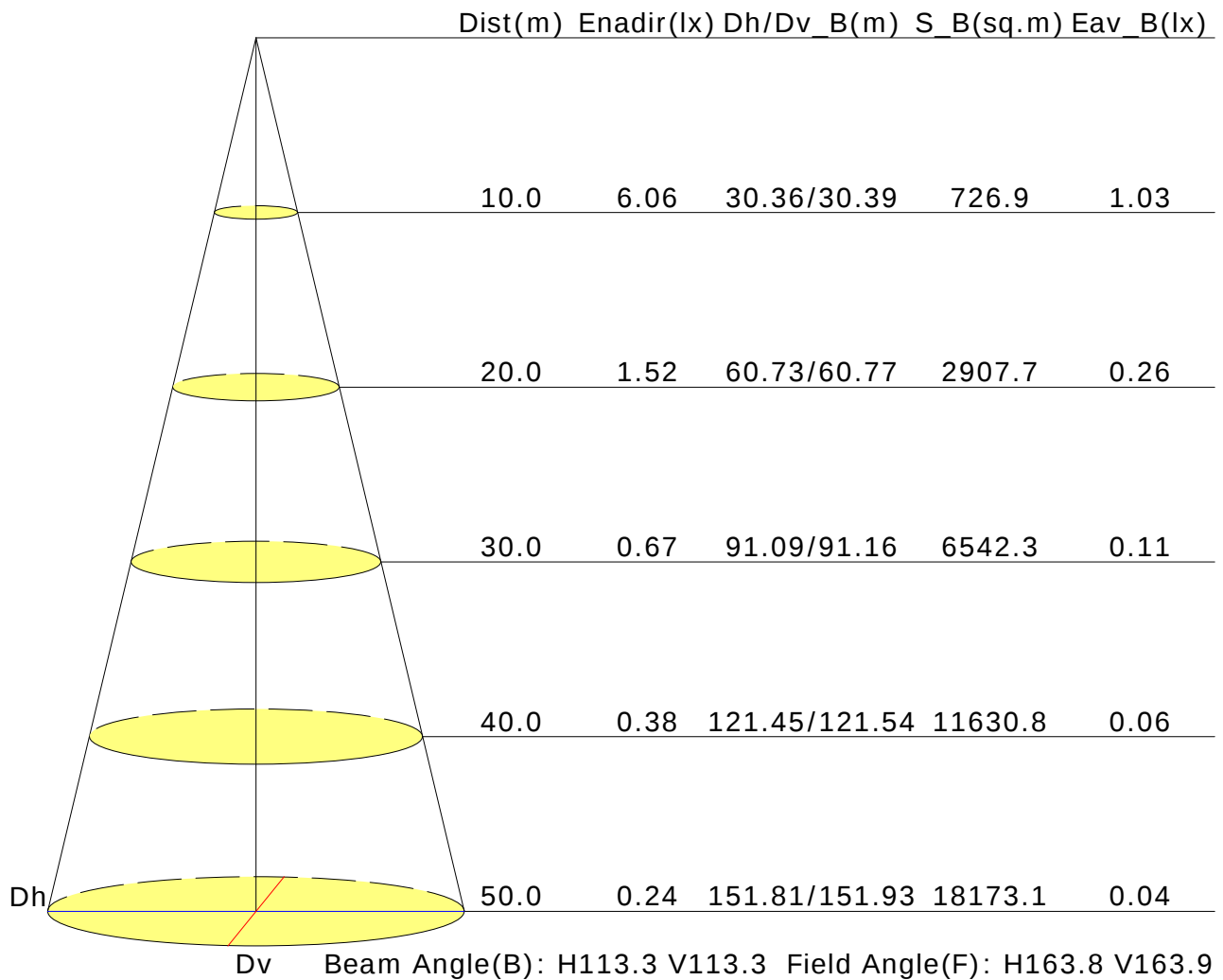
Test Device: GPM-1600L

Distance: 7.344 m

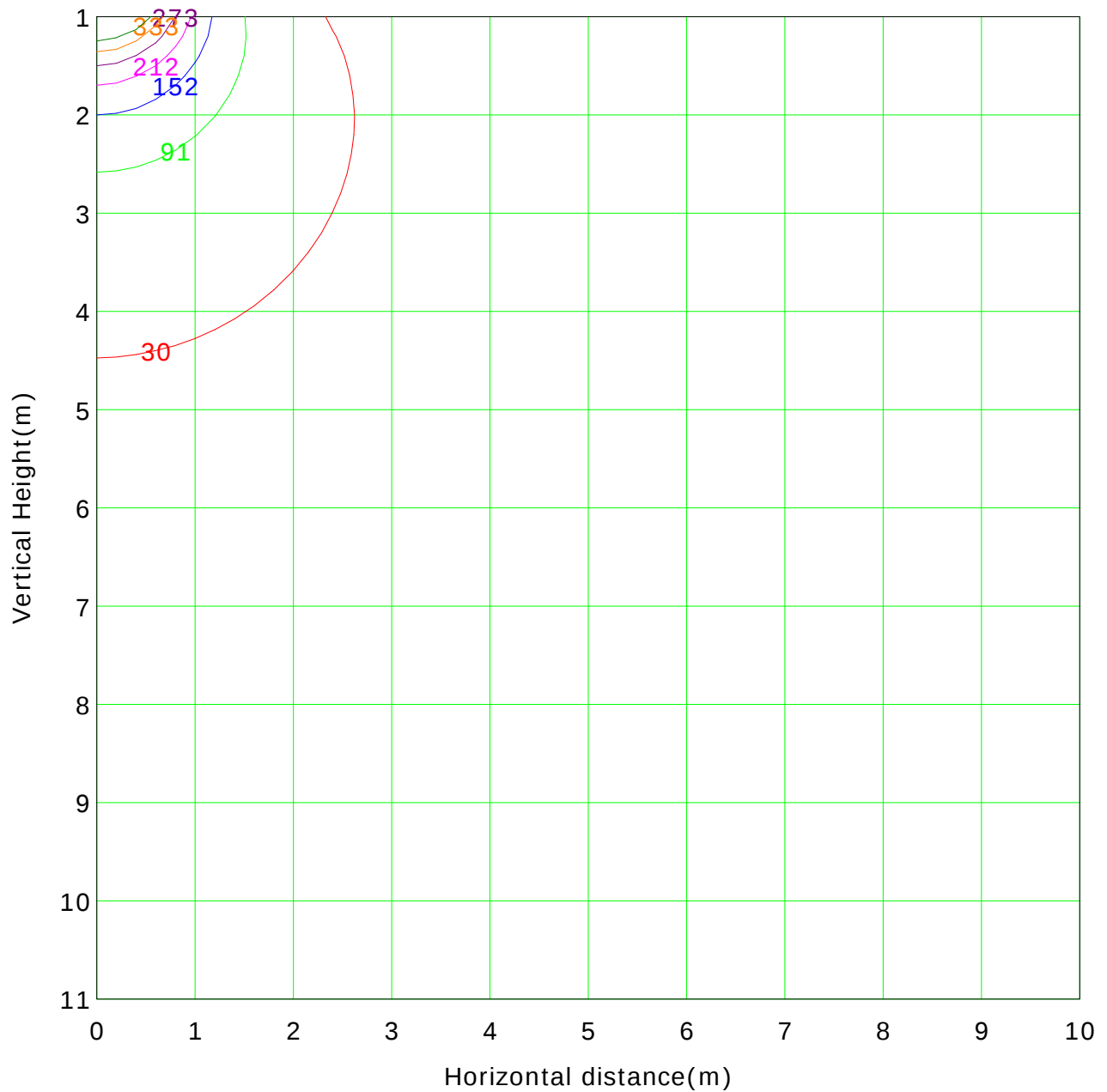
Humidity:

Inspector:

Illuminance at a Distance



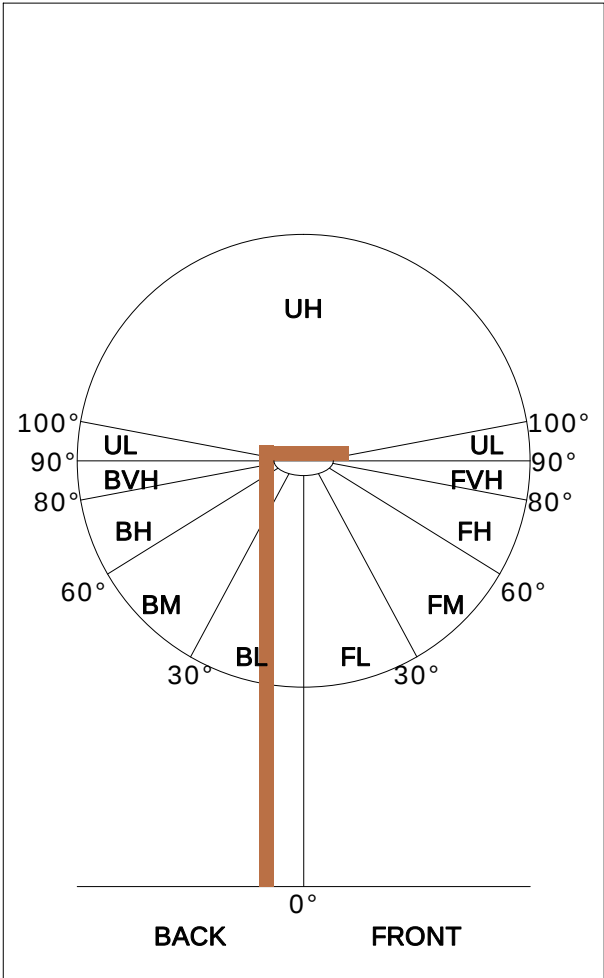
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 606.3 lx

(5%): 30.3 lx	(15%): 90.9 lx
(25%): 151.6 lx	(35%): 212.2 lx
(45%): 272.8 lx	(55%): 333.5 lx
(65%): 394.1 lx	

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	892	48.5
	FL (0°-30°)	236	12.8
	FM (30°-60°)	453	24.6
	FH (60°-80°)	178	9.7
	FVH (80°-90°)	25	1.3
	BACK LIGHT	870	47.3
	BL (0°-30°)	234	12.7
	BM (30°-60°)	445	24.2
	BH (60°-80°)	169	9.2
	BVH (80°-90°)	22	1.2
	UP LIGHT	77	4.2
	UL (90°-100°)	11	0.6
	UH (100°-180°)	66	3.6
	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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