

Report No.:

Test Time: 2021-04-13 16:58

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17002-5000K

Lamp Description: 2835

Current: 0.209 A

Power Factor: 0.936

Lamp Catalog: LED

Voltage: 120.0 V

Power: 23.48 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1775.6 lm

Downward Ratio: 91%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 171.9, 172.3, 172.2, 172.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 118.0, 118.2, 118.1, 118.1

Luminaire Efficacy Rating (LER): 75.67

Max. Intensity: 519.49 cd

S/MH(C0/C180): 1.28

Total Rated Lamp Lumens: 1775.6 lm

Efficiency: 100%

Upward Ratio: 9%

Central Intensity: 519.27 cd

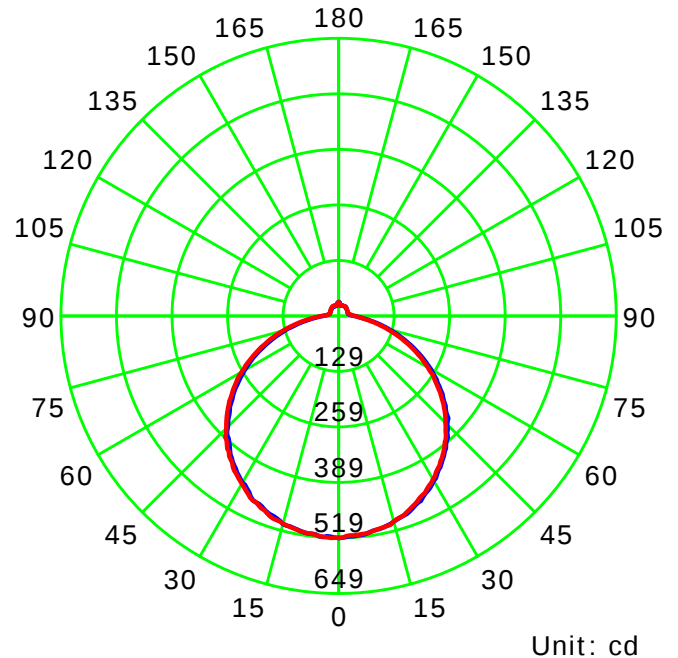
Pos of Max. Intensity: H270 V2

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:

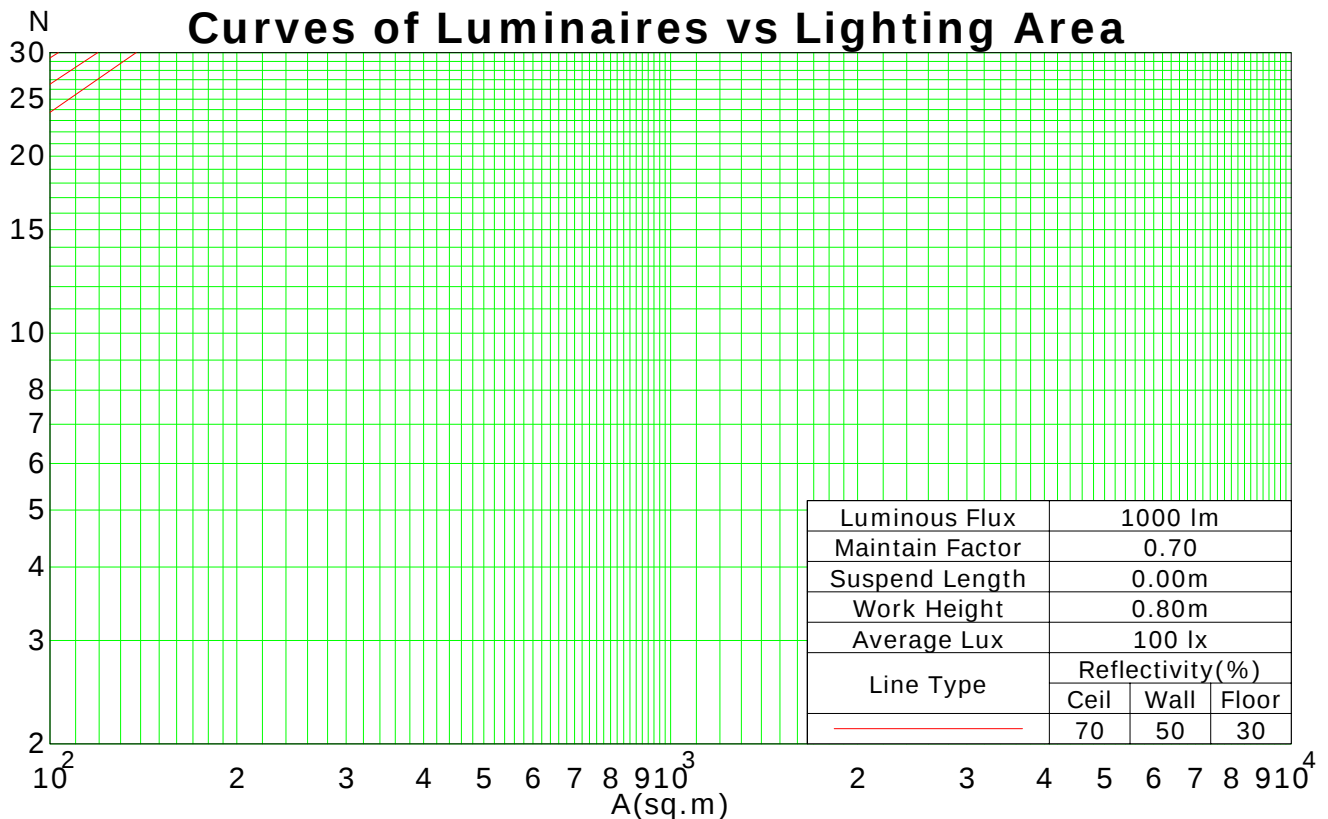
Coefficients Of Utilization - Zonal Cavity Method

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	100	100	100	94	94	94	91
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	79	77	74
2	96	87	80	74	92	84	78	72	79	74	69	75	70	66	70	67	64	61
3	87	76	68	61	84	74	66	60	70	63	58	66	60	55	62	57	53	51
4	79	67	58	51	76	65	57	50	62	54	49	58	52	47	55	50	46	43
5	73	60	51	44	70	58	50	43	55	48	42	52	46	41	49	44	39	37
6	67	54	45	38	65	52	44	38	50	42	37	47	40	36	45	39	35	32
7	62	49	40	33	60	47	39	33	45	38	32	43	36	31	41	35	31	28
8	58	44	36	30	56	43	35	29	41	34	29	39	33	28	37	32	27	25
9	54	40	32	27	52	40	32	26	38	31	26	36	30	25	34	29	25	23
10	51	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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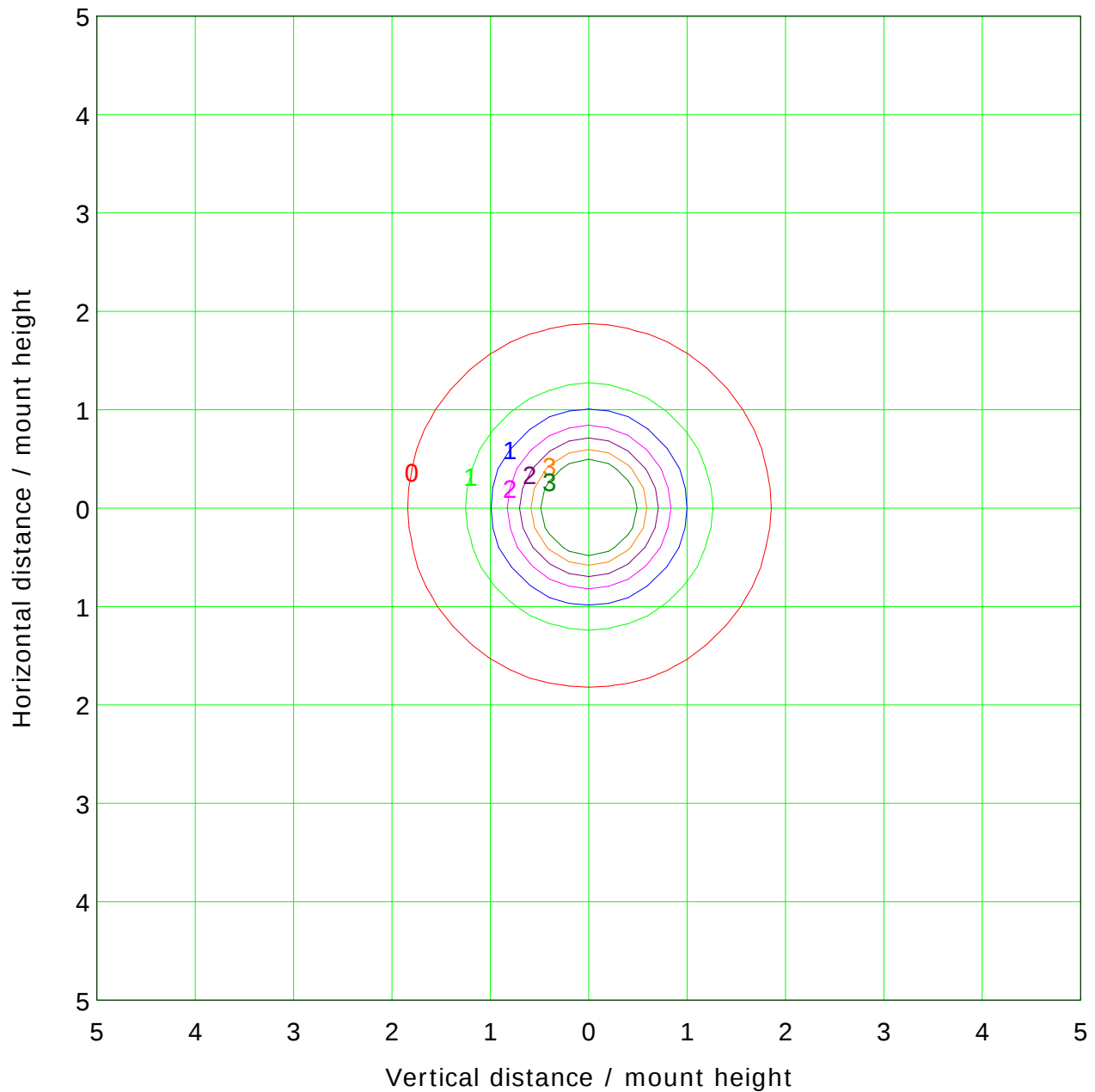
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 5.2 lx	
— (5%):	0.3 lx	— (15%):	0.8 lx
— (25%):	1.3 lx	— (35%):	1.8 lx
— (45%):	2.3 lx	— (55%):	2.9 lx
— (65%):	3.4 lx		

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Test Device: GPM-1600L

Distance: 7.344 m

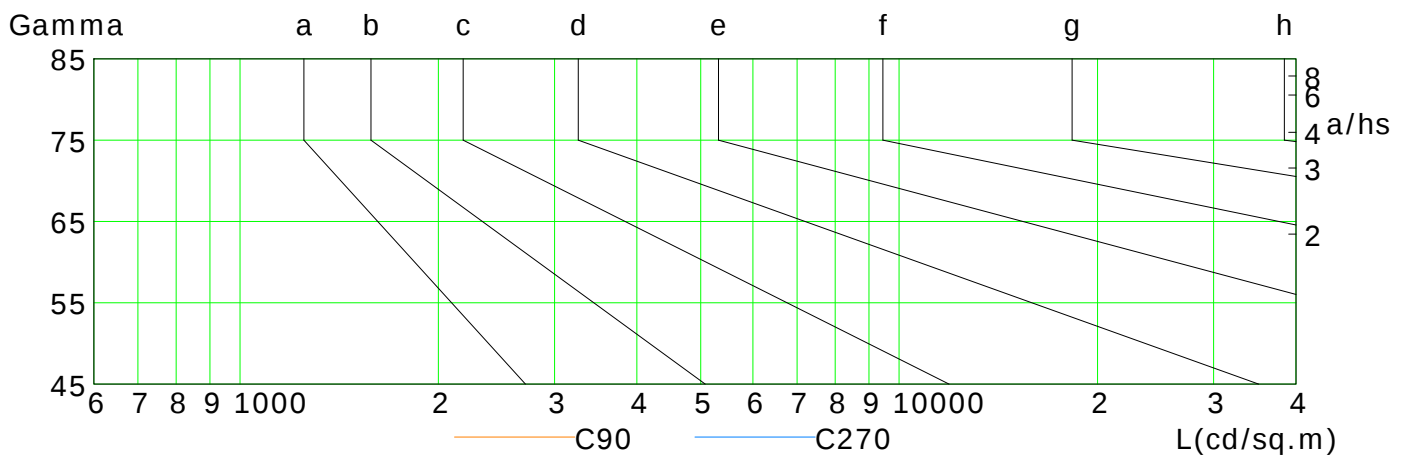
Humidity:

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	359	327	288	249	206	165	124	86	55
C90	354	320	280	241	200	158	117	81	53
C180	366	332	295	255	212	170	128	90	57
C270	372	338	302	262	220	178	136	96	62

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Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

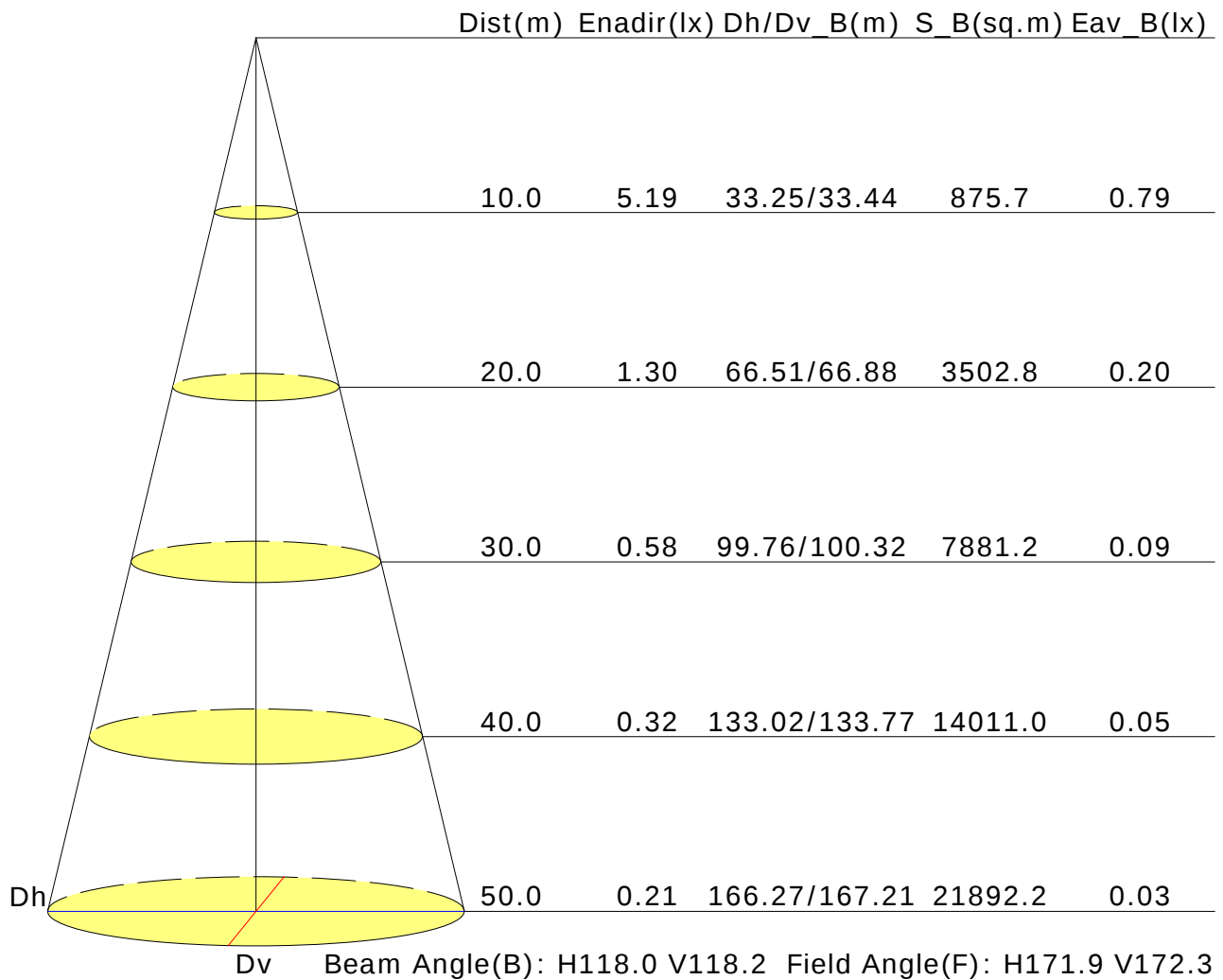
Test Device: GPM-1600L

Distance: 7.344 m

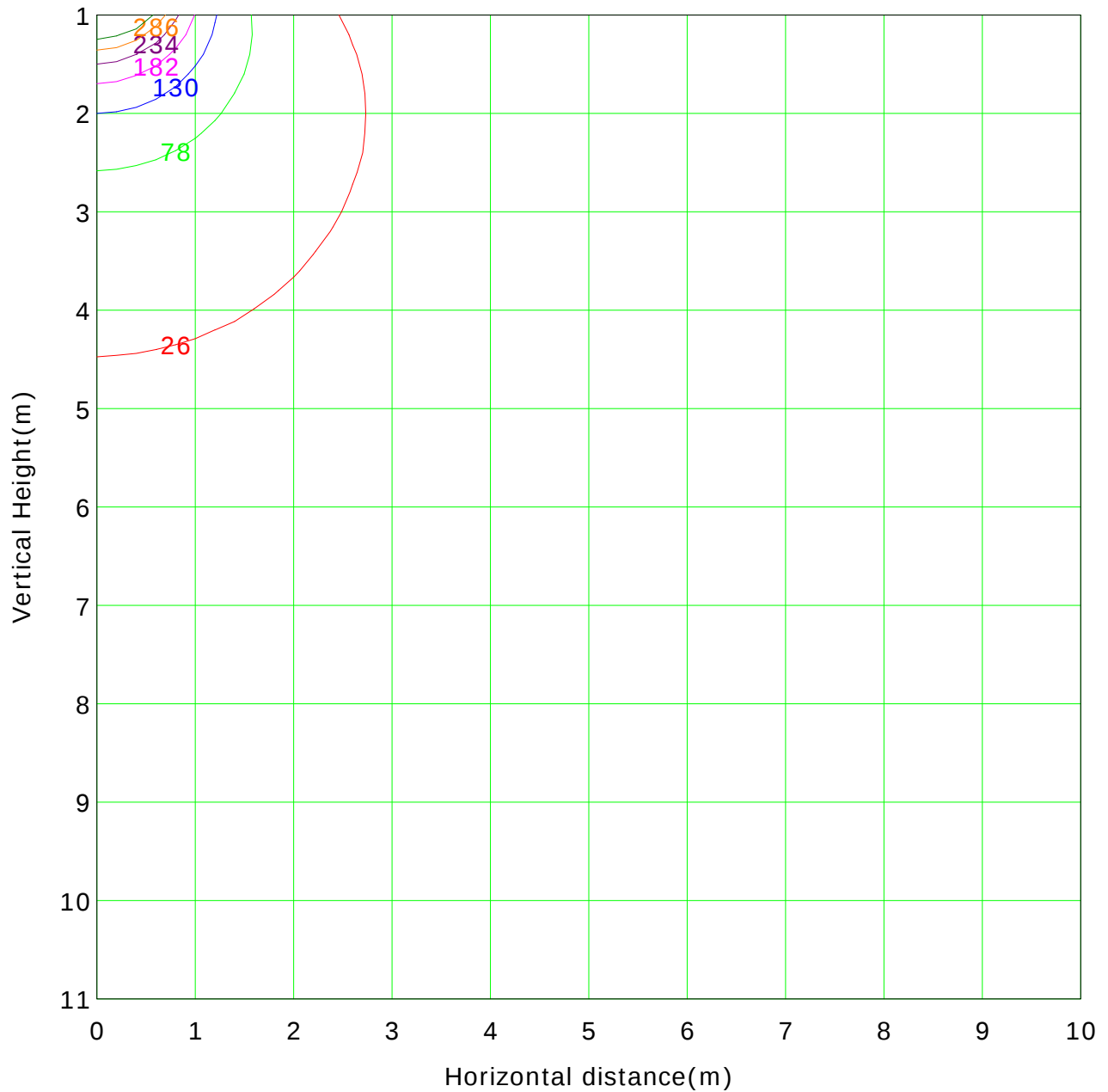
Humidity:

Inspector:

Illuminance at a Distance



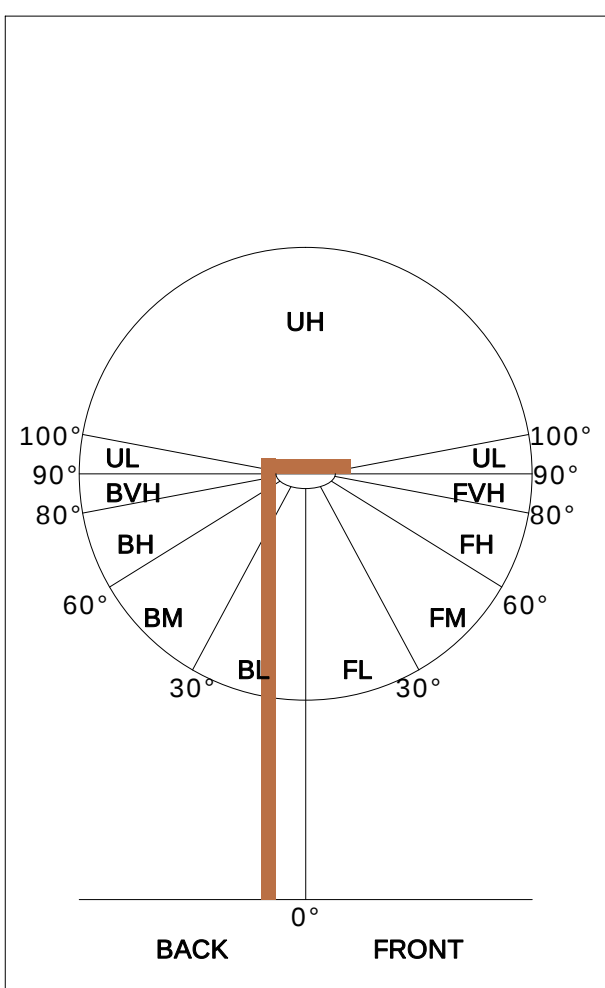
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 519.3 lx

(5%): 26.0 lx	(15%): 77.9 lx
(25%): 129.8 lx	(35%): 181.7 lx
(45%): 233.7 lx	(55%): 285.6 lx
(65%): 337.5 lx	

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	797	44.9
	FL (0°-30°)	202	11.4
	FM (30°-60°)	398	22.4
	FH (60°-80°)	166	9.3
	FVH (80°-90°)	31	1.7
	BACK LIGHT	822	46.3
	BL (0°-30°)	204	11.5
	BM (30°-60°)	408	23.0
	BH (60°-80°)	176	9.9
	BVH (80°-90°)	34	1.9
	UP LIGHT	157	8.9
	UL (90°-100°)	32	1.8
	UH (100°-180°)	125	7.1
	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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