

Report No.:

Test Time: 2021-04-13 15:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17021-3000K

Lamp Description: 2835

Current: 0.155 A

Power Factor: 0.937

Lamp Catalog: LED

Voltage: 120.0 V

Power: 17.39 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1361 lm

Downward Ratio: 95%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.6, 164.6, 164.6, 164.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.5, 112.1, 112.3, 112.3

Luminaire Efficacy Rating (LER): 78.31

Max. Intensity: 449.98 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 1361.0 lm

Efficiency: 100%

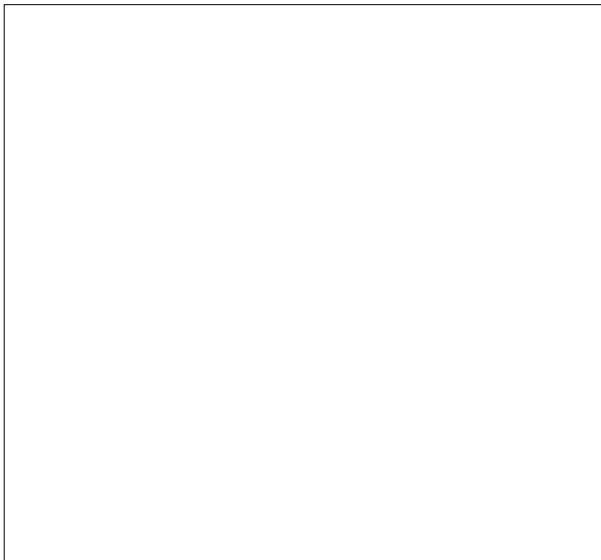
Upward Ratio: 5%

Central Intensity: 449.97 cd

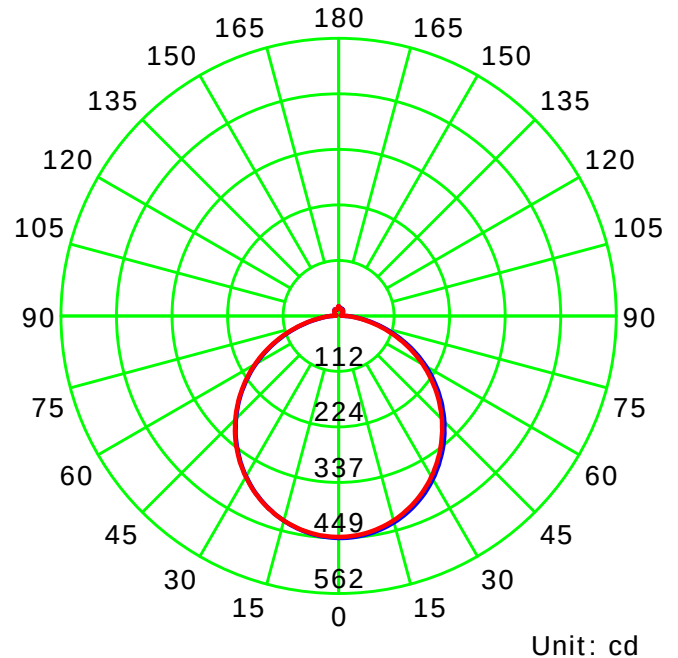
Pos of Max. Intensity: H0 V0

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:

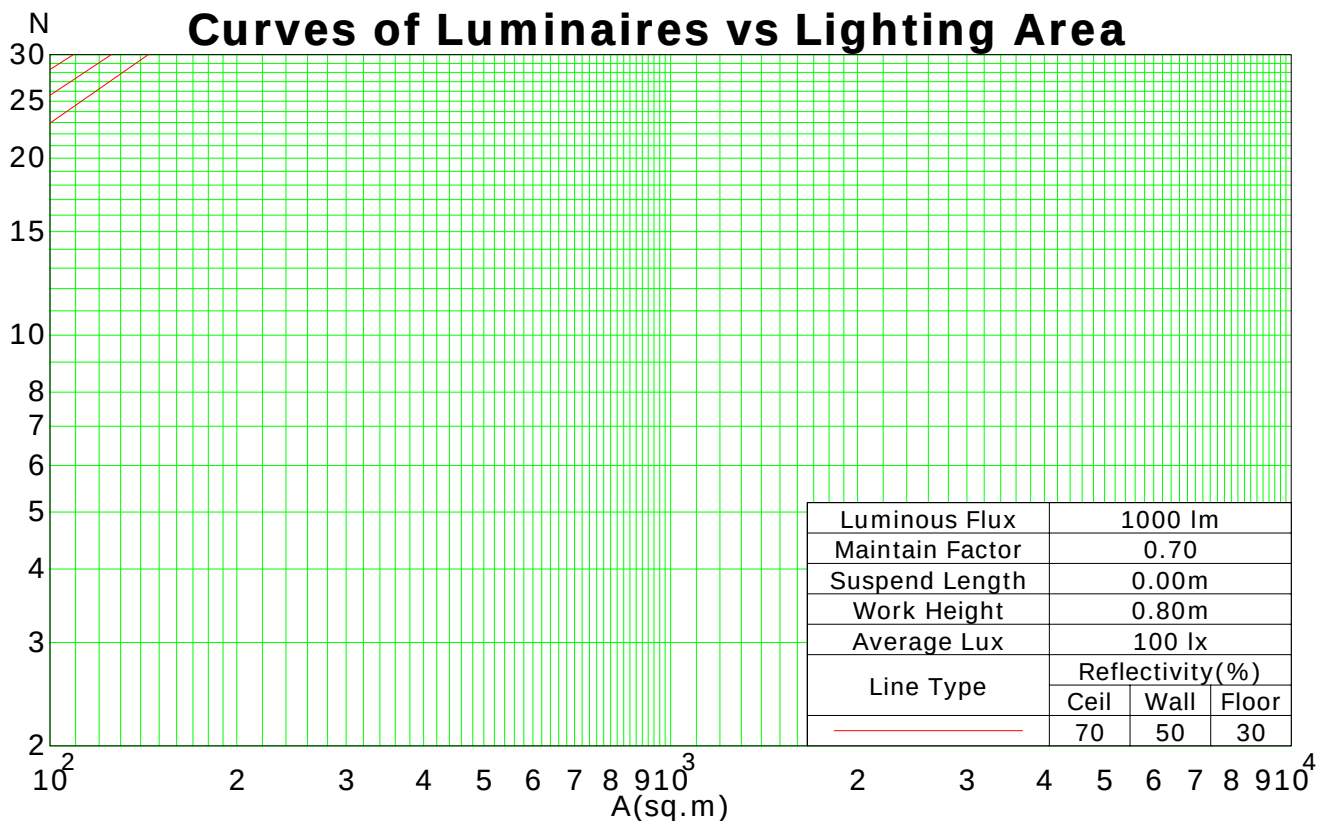
Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	78	74	70	75	71	68	65
3	89	78	70	63	86	76	68	62	72	66	61	69	63	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	59	53	49	47
5	75	62	53	46	72	60	52	45	58	50	44	55	49	44	53	47	43	40
6	69	55	46	40	67	54	46	40	52	44	39	50	43	38	48	42	37	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	57	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	35	29	25	34	29	24	23

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.25

Spacing Criteria (Diagonal): 1.37



C Plane (°):0.0-360.0: 90.0

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Temperature:

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Gamma Plane (°):0.0-180.0:1.0

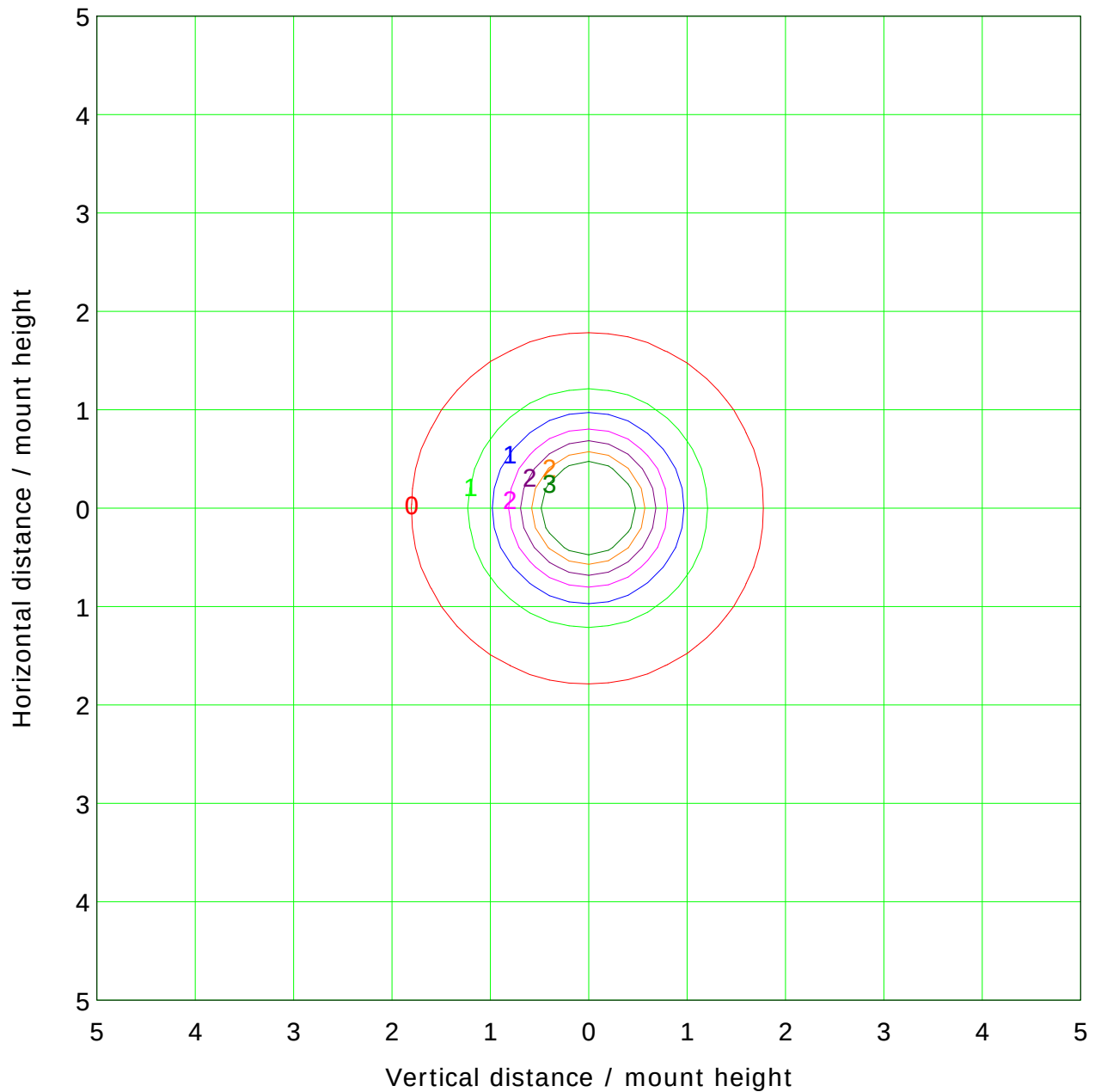
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 4.5 lx	
(5%):	0.2 lx	(15%):	0.7 lx
(25%):	1.1 lx	(35%):	1.6 lx
(45%):	2.0 lx	(55%):	2.5 lx
(65%):	2.9 lx		

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

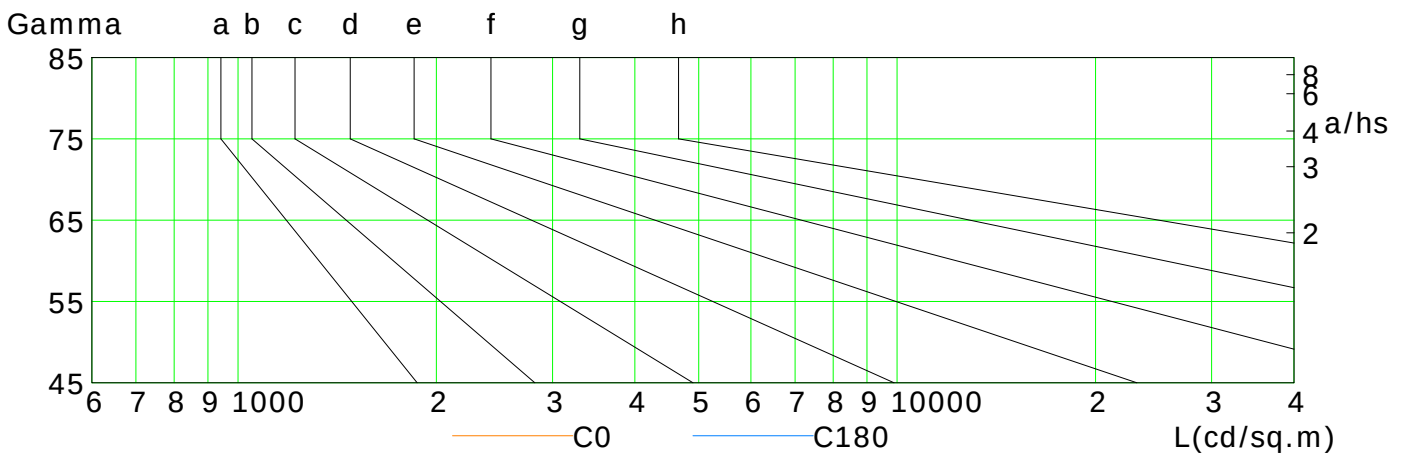
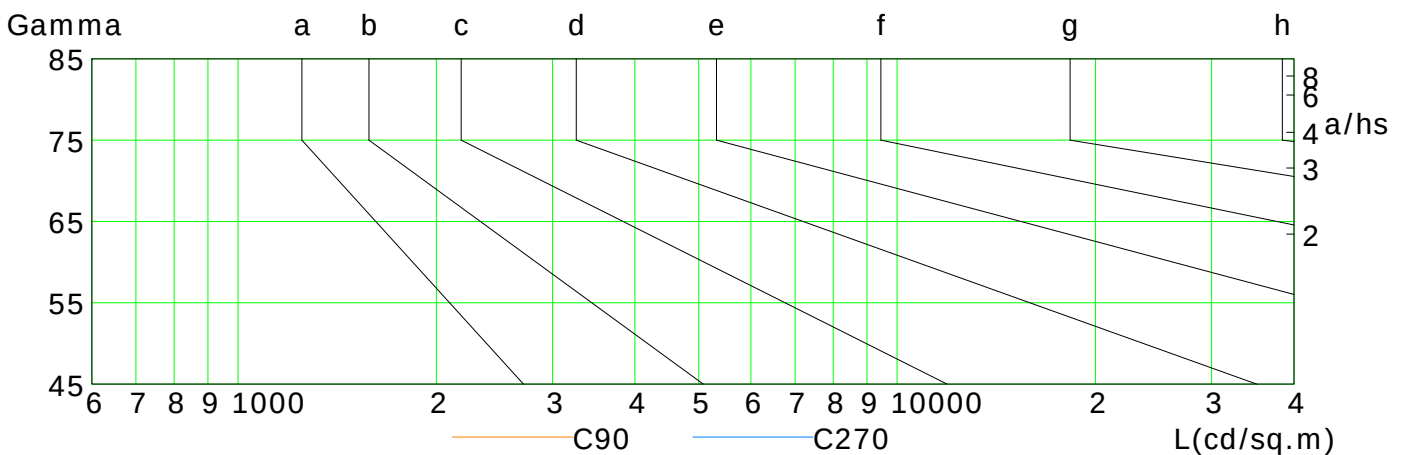
Humidity:

Inspector:

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	303	272	239	204	168	132	96	63	36
C90	296	265	231	197	162	125	90	58	33
C180	294	263	229	194	157	120	85	53	29
C270	296	265	231	196	160	123	88	56	31

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

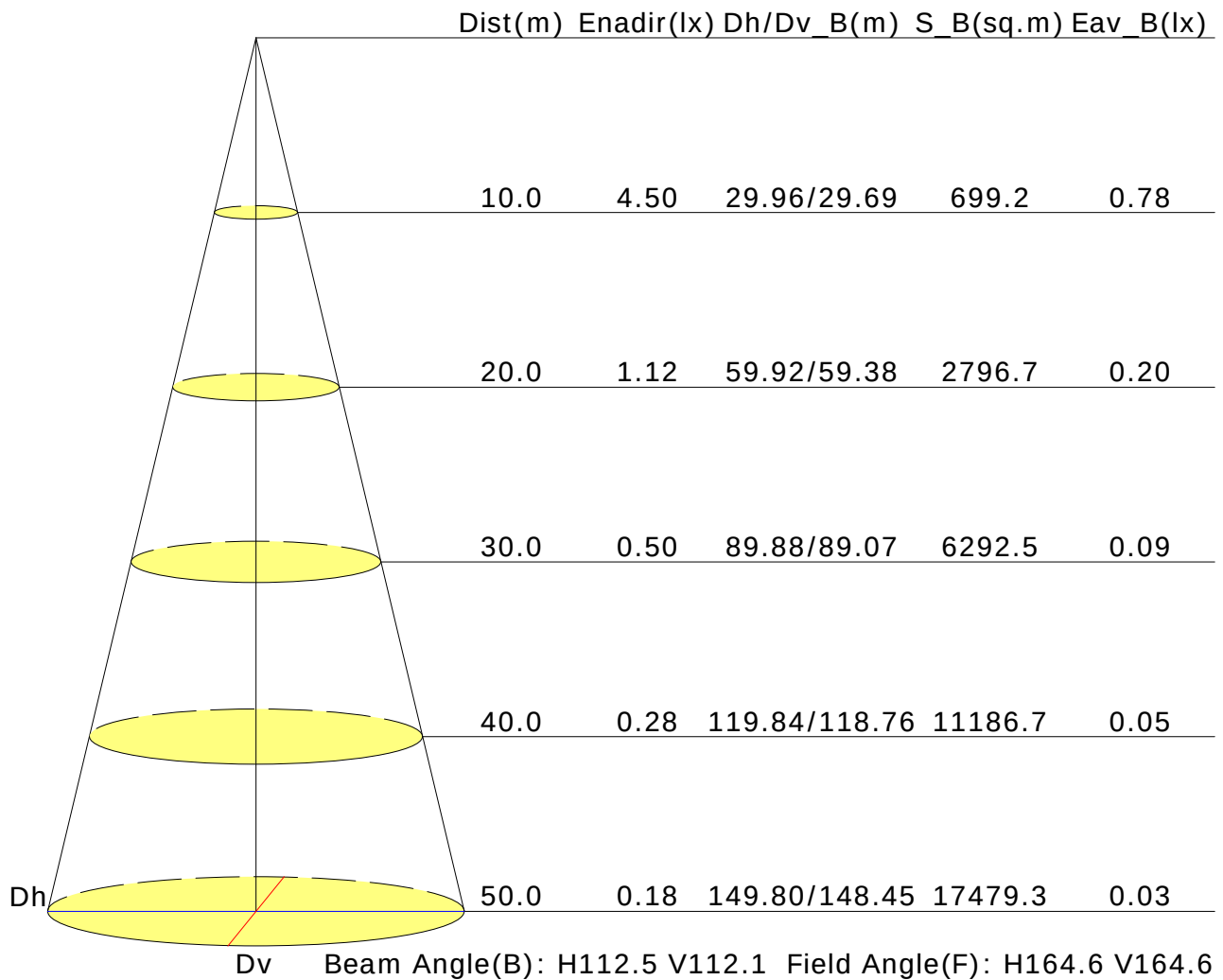
Test Device: GPM-1600L

Distance: 7.344 m

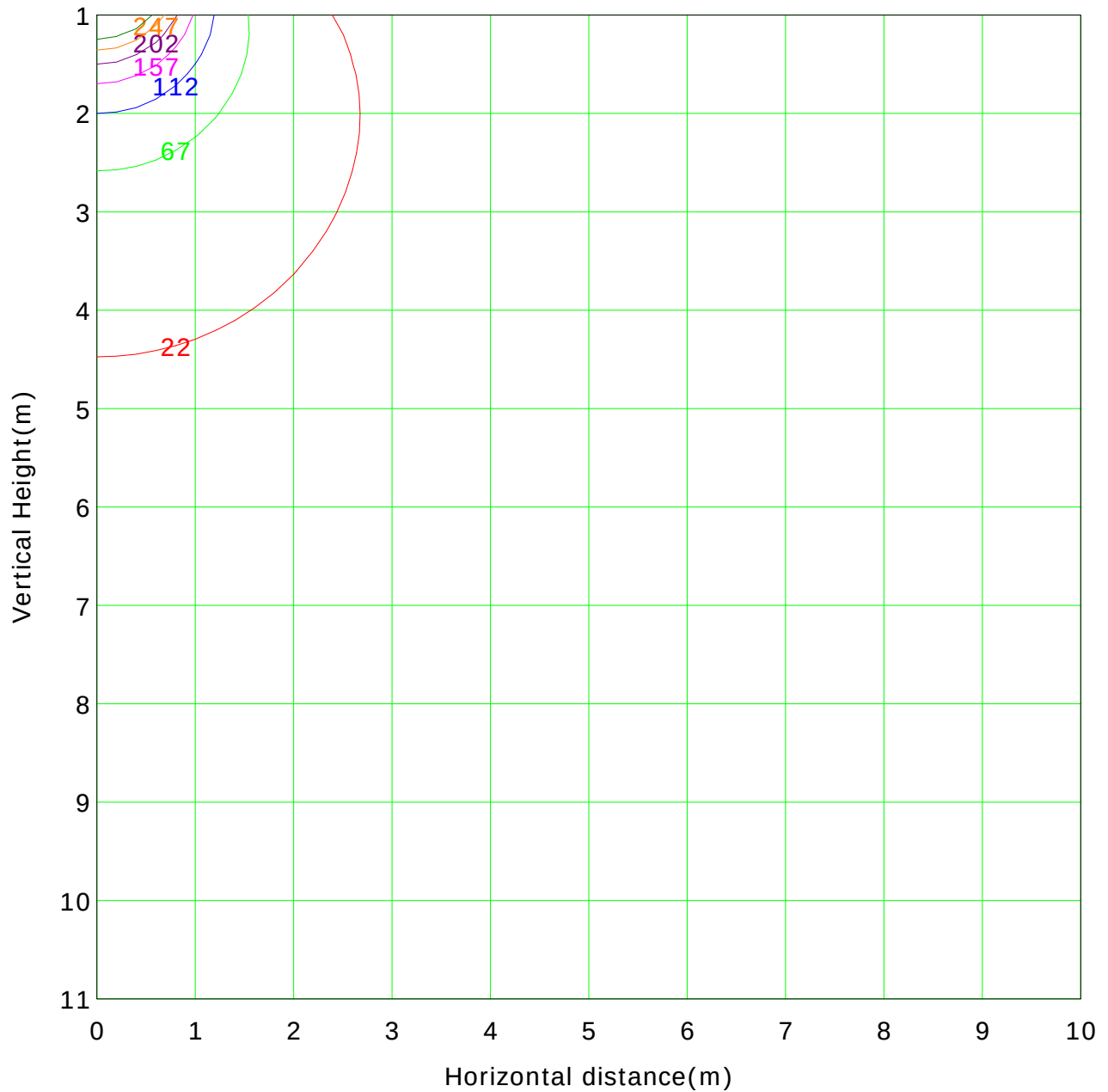
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



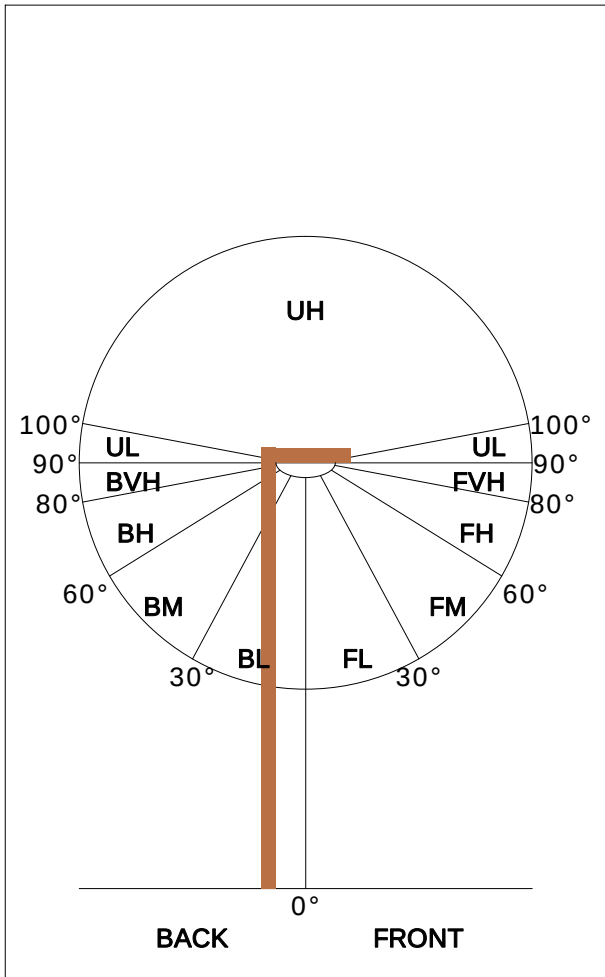
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 450.0 lx

(5%): 22.5 lx	(15%): 67.5 lx
(25%): 112.5 lx	(35%): 157.5 lx
(45%): 202.5 lx	(55%): 247.5 lx
(65%): 292.5 lx	

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	649	47.7
	FL (0°-30°)	174	12.8
	FM (30°-60°)	329	24.2
	FH (60°-80°)	128	9.4
	FVH (80°-90°)	19	1.4
	BACK LIGHT	648	47.6
	BL (0°-30°)	174	12.8
	BM (30°-60°)	329	24.2
	BH (60°-80°)	127	9.3
	BVH (80°-90°)	18	1.3
	UP LIGHT	64	4.7
	UL (90°-100°)	10	0.7
	UH (100°-180°)	54	4.0
	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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