

Report No.:

Test Time: 2021-04-15 15:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17027-3000K

Lamp Description: 2835

Current: 0.245 A

Power Factor: 0.961

Lamp Catalog: LED

Voltage: 120.0 V

Power: 28.24 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2196.2 lm

Downward Ratio: 95%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.4, 164.5, 164.5, 164.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.3, 113.3, 113.4, 113.3

Luminaire Efficacy Rating (LER): 77.82

Max. Intensity: 718.17 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 2196.2 lm

Efficiency: 100%

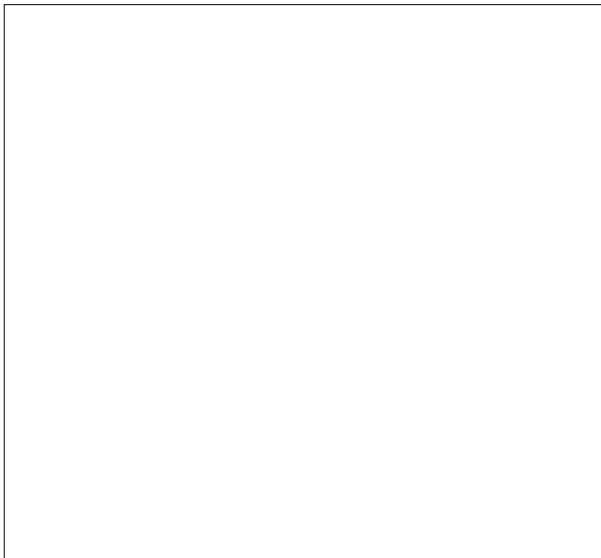
Upward Ratio: 5%

Central Intensity: 717.79 cd

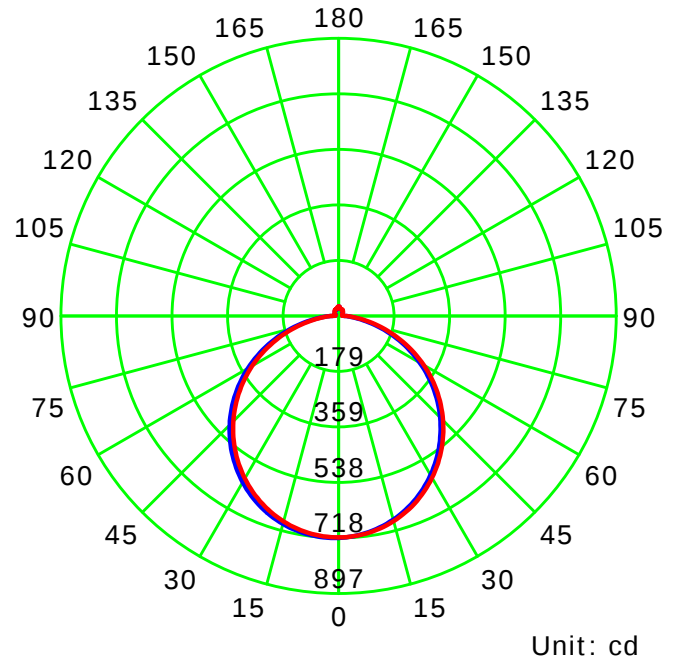
Pos of Max. Intensity: H180 V2

S/MH(C90/C270): 1.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



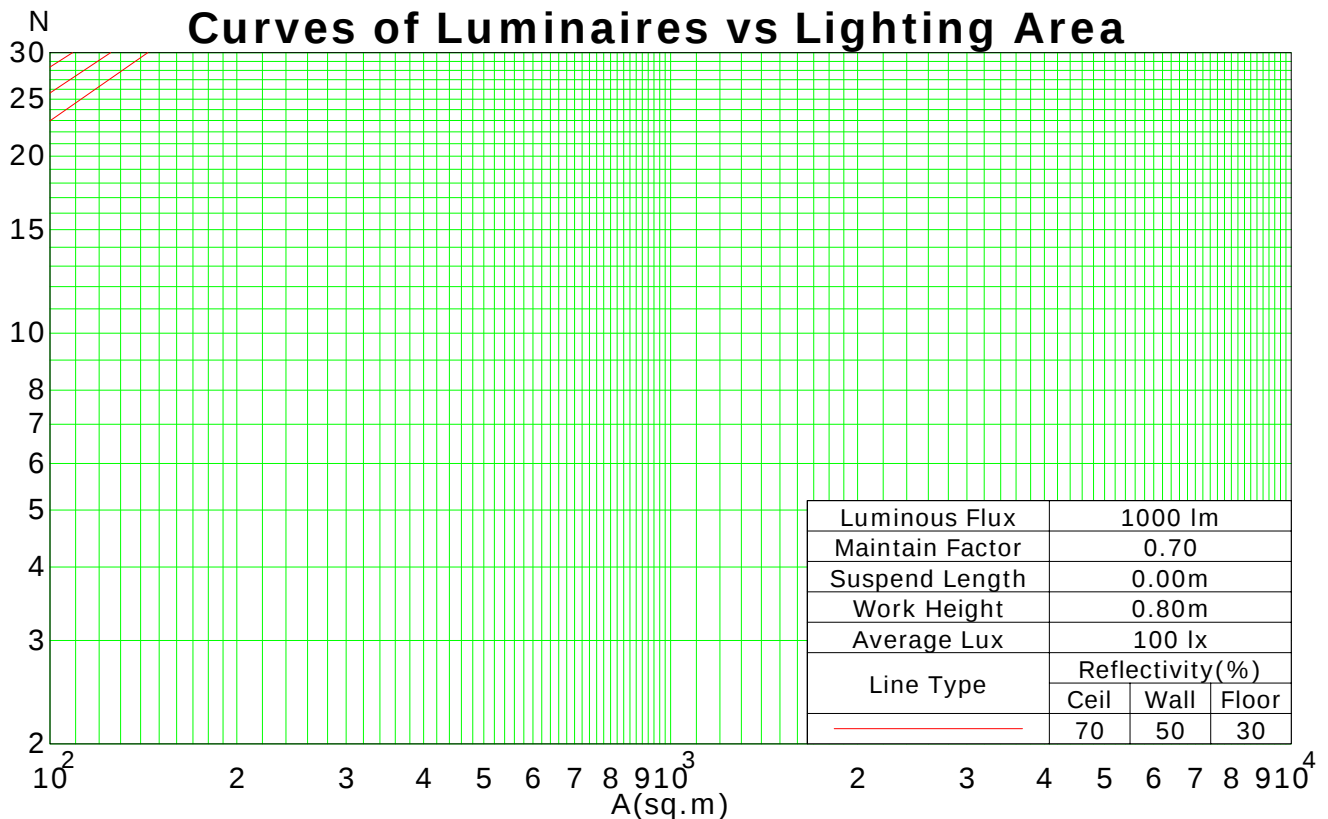
Coefficients Of Utilization - Zonal Cavity Method

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	60	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	74	61	52	46	72	60	52	45	57	50	44	55	48	43	53	47	43	40
6	69	55	46	40	66	54	46	39	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	43	38	33	31
8	59	46	37	31	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	35	29	25	34	28	24	22

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.38



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

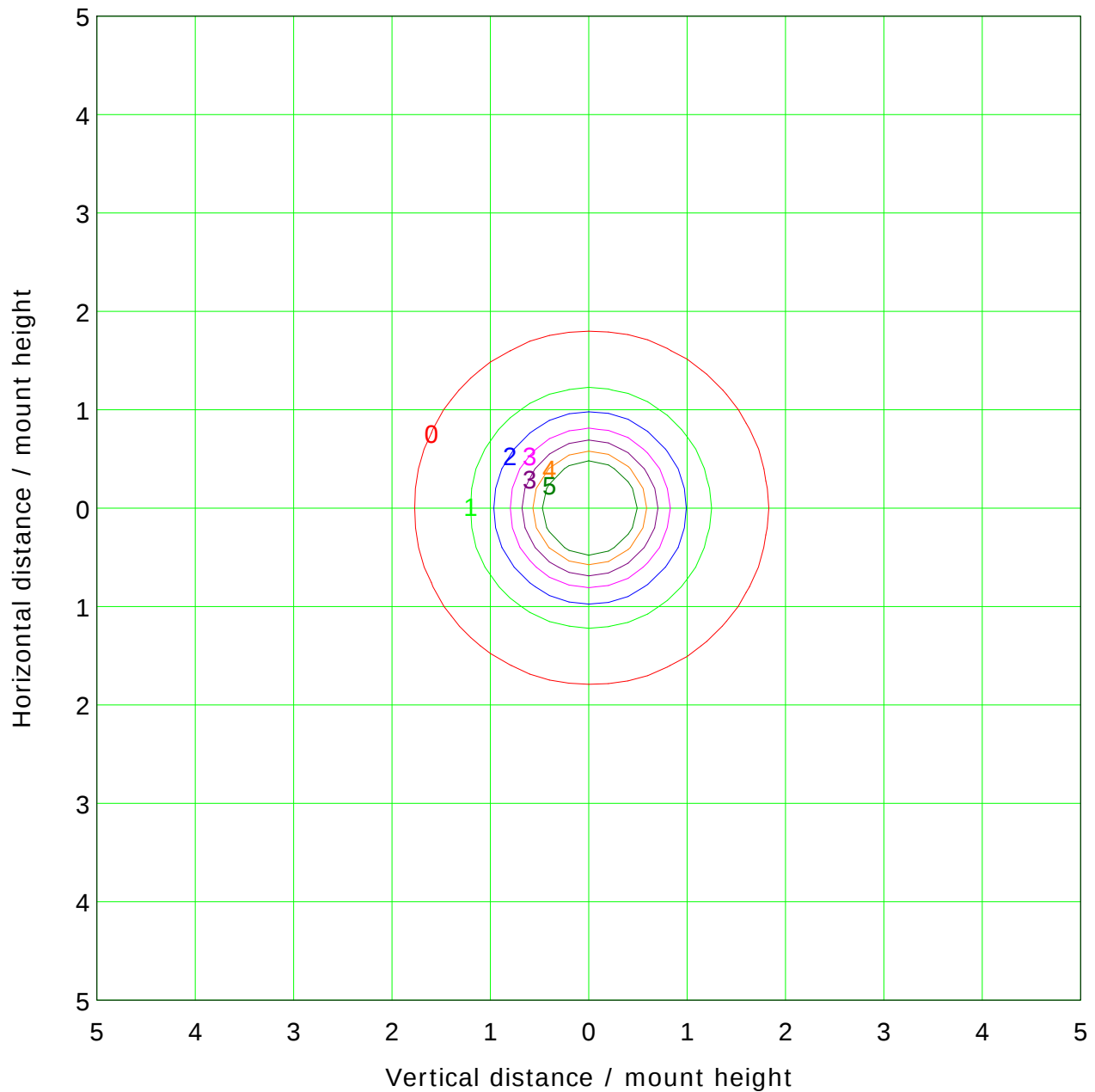
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 7.2 lx	
— (5%):	0.4 lx	— (15%):	1.1 lx
— (25%):	1.8 lx	— (35%):	2.5 lx
— (45%):	3.2 lx	— (55%):	3.9 lx
— (65%):	4.7 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

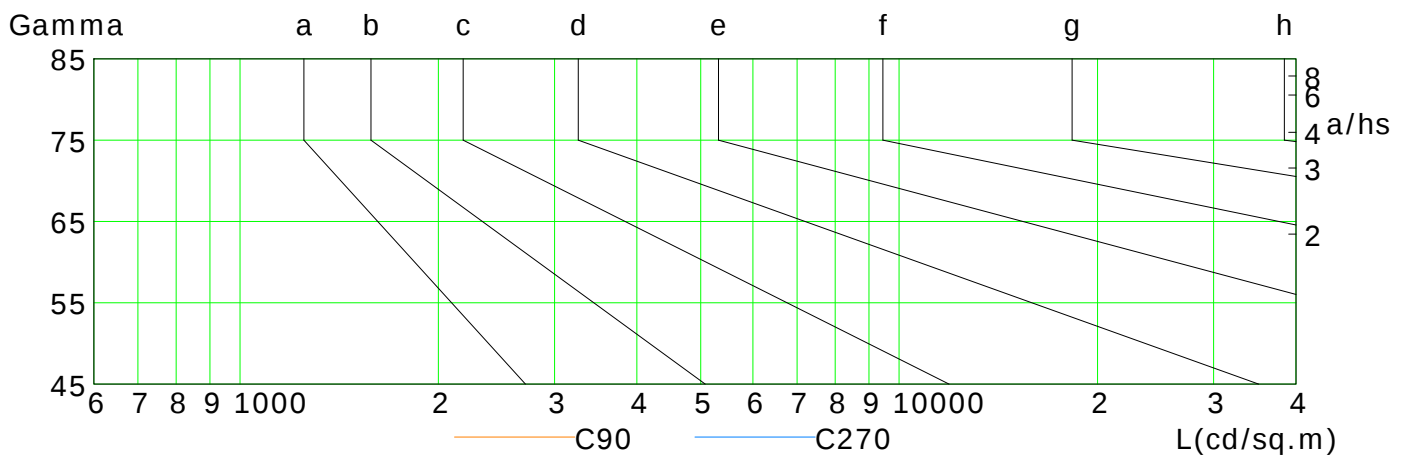
Humidity:

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	465	414	359	303	246	187	131	81	42
C90	478	428	374	318	260	202	144	91	49
C180	498	449	396	339	280	220	160	104	57
C270	482	432	379	323	264	205	146	93	50

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

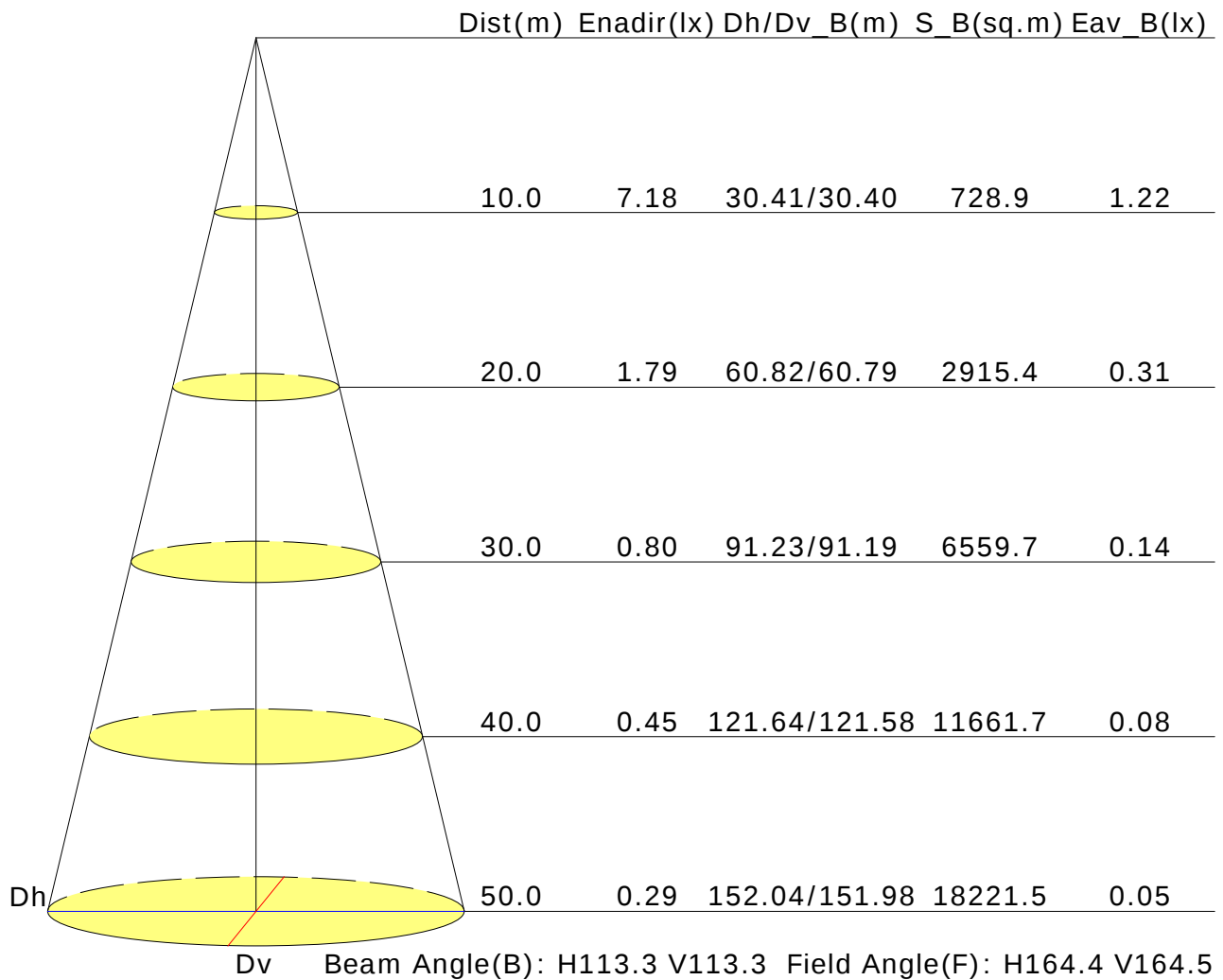
Test Device: GPM-1600L

Distance: 7.344 m

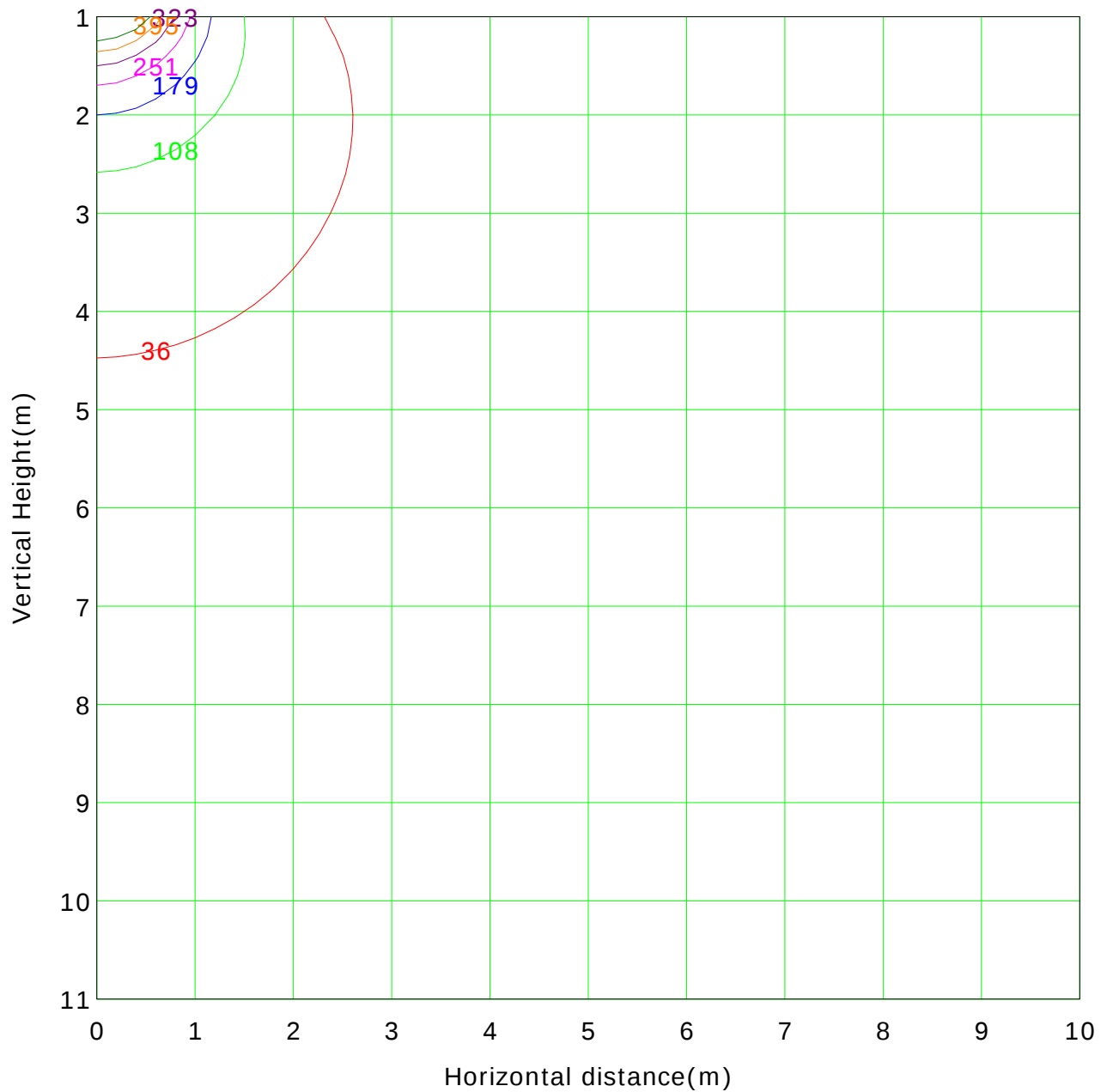
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



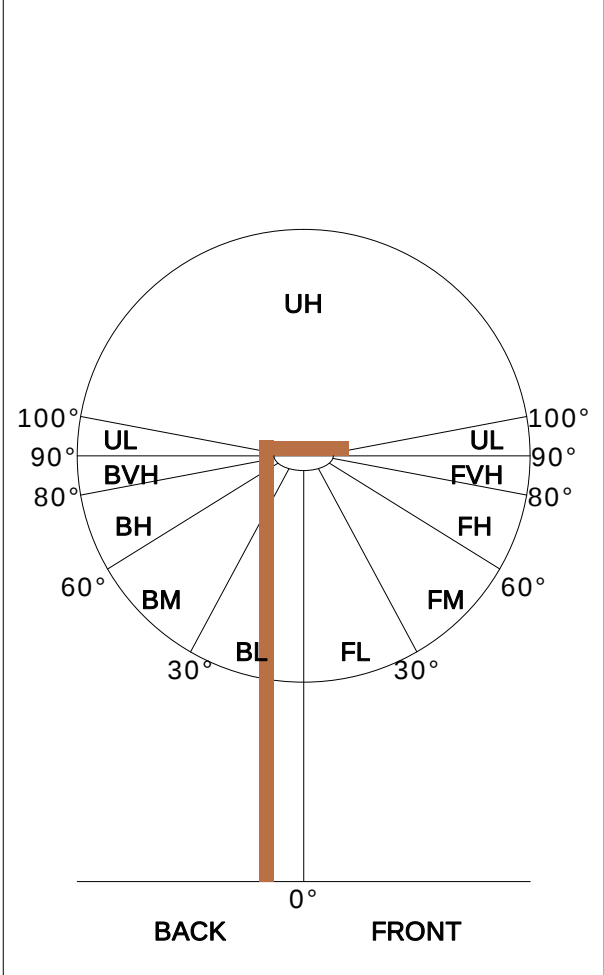
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 717.8 lx

— (5%): 35.9 lx	— (15%): 107.7 lx
— (25%): 179.4 lx	— (35%): 251.2 lx
— (45%): 323.0 lx	— (55%): 394.8 lx
— (65%): 466.6 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	1043	47.5
	FL (0°-30°)	278	12.7
	FM (30°-60°)	530	24.2
	FH (60°-80°)	206	9.4
	FVH (80°-90°)	29	1.3
	BACK LIGHT	1048	47.7
	BL (0°-30°)	279	12.7
	BM (30°-60°)	533	24.3
	BH (60°-80°)	208	9.5
	BVH (80°-90°)	29	1.3
	UP LIGHT	105	4.8
	UL (90°-100°)	16	0.7
	UH (100°-180°)	89	4.1
	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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Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector: