

Report No.:

Test Time: 2021-04-15 14:32

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17003-5000K

Lamp Description: 2835

Current: 0.248 A

Power Factor: 0.949

Lamp Catalog: LED

Voltage: 119.9 V

Power: 28.23 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2152.6 lm

Downward Ratio: 90%

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

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.9, 117.8, 117.9, 118.1

Luminaire Efficacy Rating (LER): 76.30

Max. Intensity: 622.66 cd

S/MH(C0/C180): 1.28

Total Rated Lamp Lumens: 2152.6 lm

Efficiency: 100%

Upward Ratio: 10%

Central Intensity: 619.14 cd

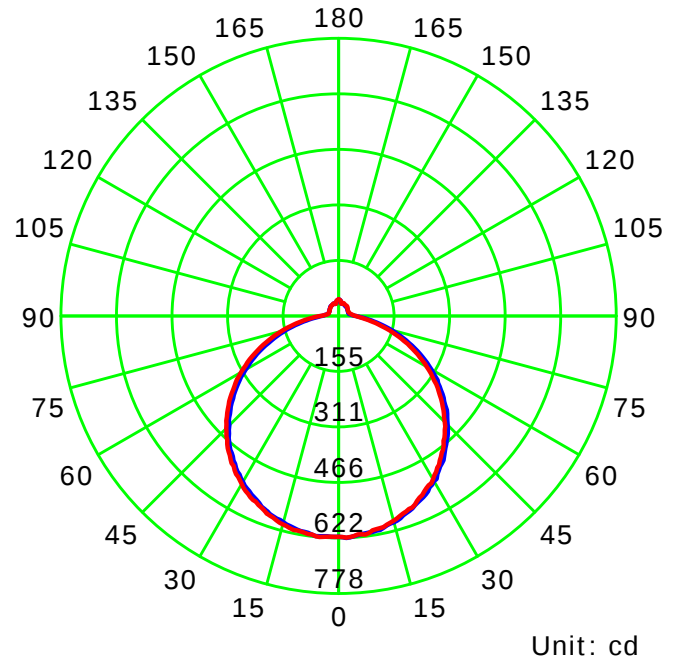
Pos of Max. Intensity: H0 V2

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:

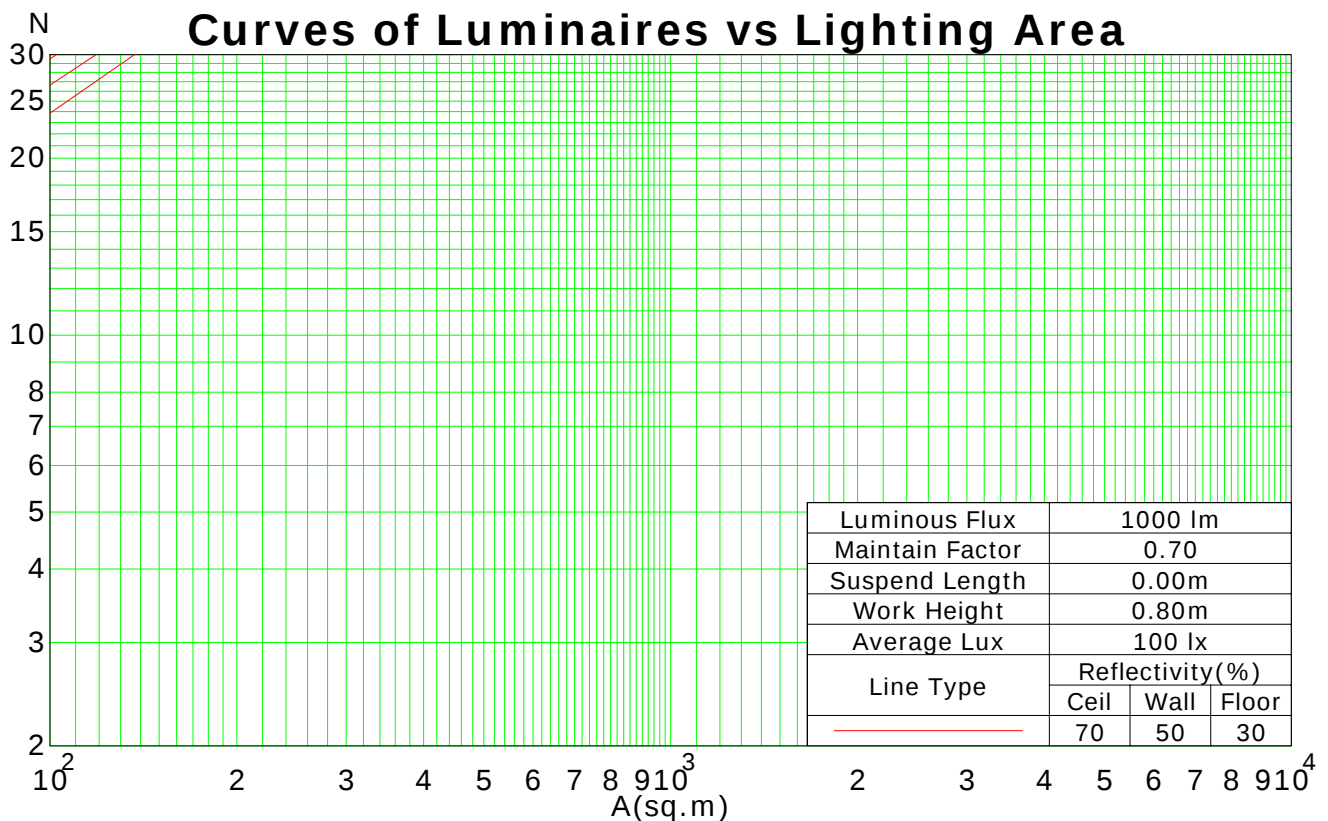
Coefficients Of Utilization - Zonal Cavity Method

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	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	77	72	79	73	69	74	70	66	70	66	63	60
3	87	76	67	61	83	73	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	42
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	26	52	39	32	26	37	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



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

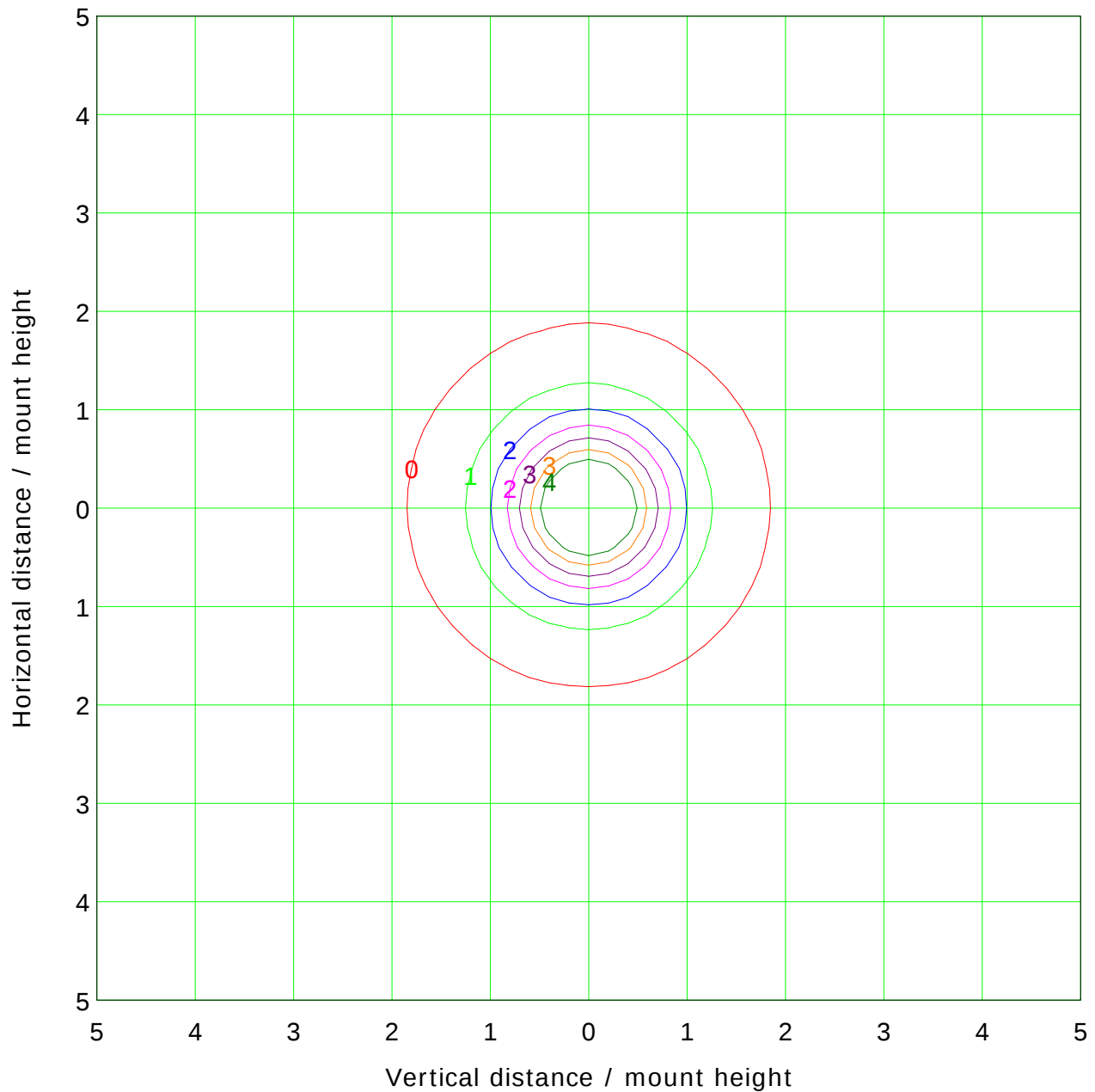
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 6.2 lx	
— (5%):	0.3 lx	— (15%):	0.9 lx
— (25%):	1.6 lx	— (35%):	2.2 lx
— (45%):	2.8 lx	— (55%):	3.4 lx
— (65%):	4.0 lx		

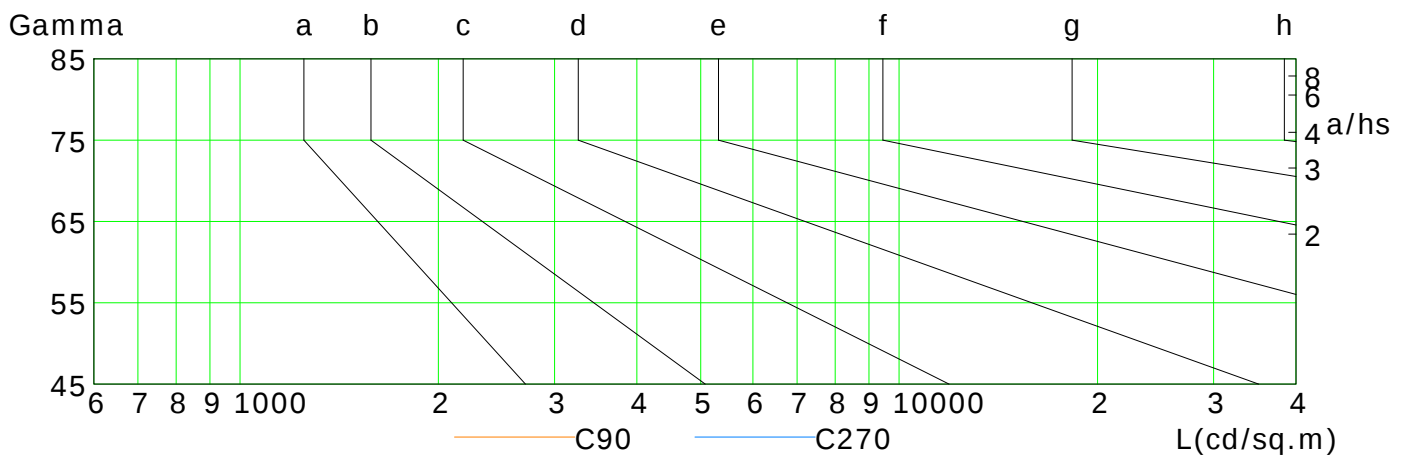
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: SUSHUNHUA

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	432	390	346	300	251	202	154	108	72
C90	421	379	334	285	236	187	140	97	65
C180	434	395	350	302	253	201	152	107	70
C270	446	406	361	316	268	216	167	120	80

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

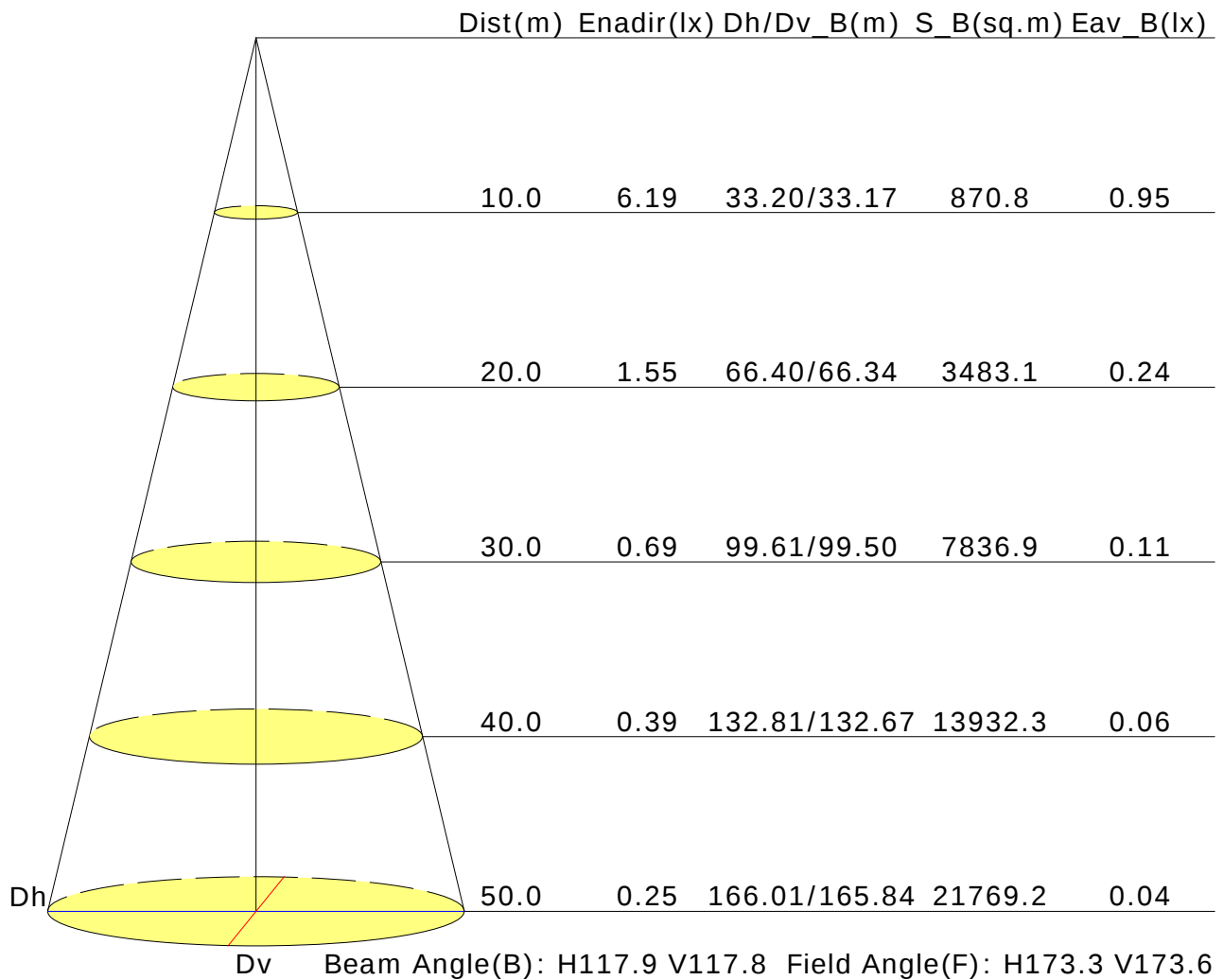
Test Device: GPM-1600L

Distance: 7.344 m

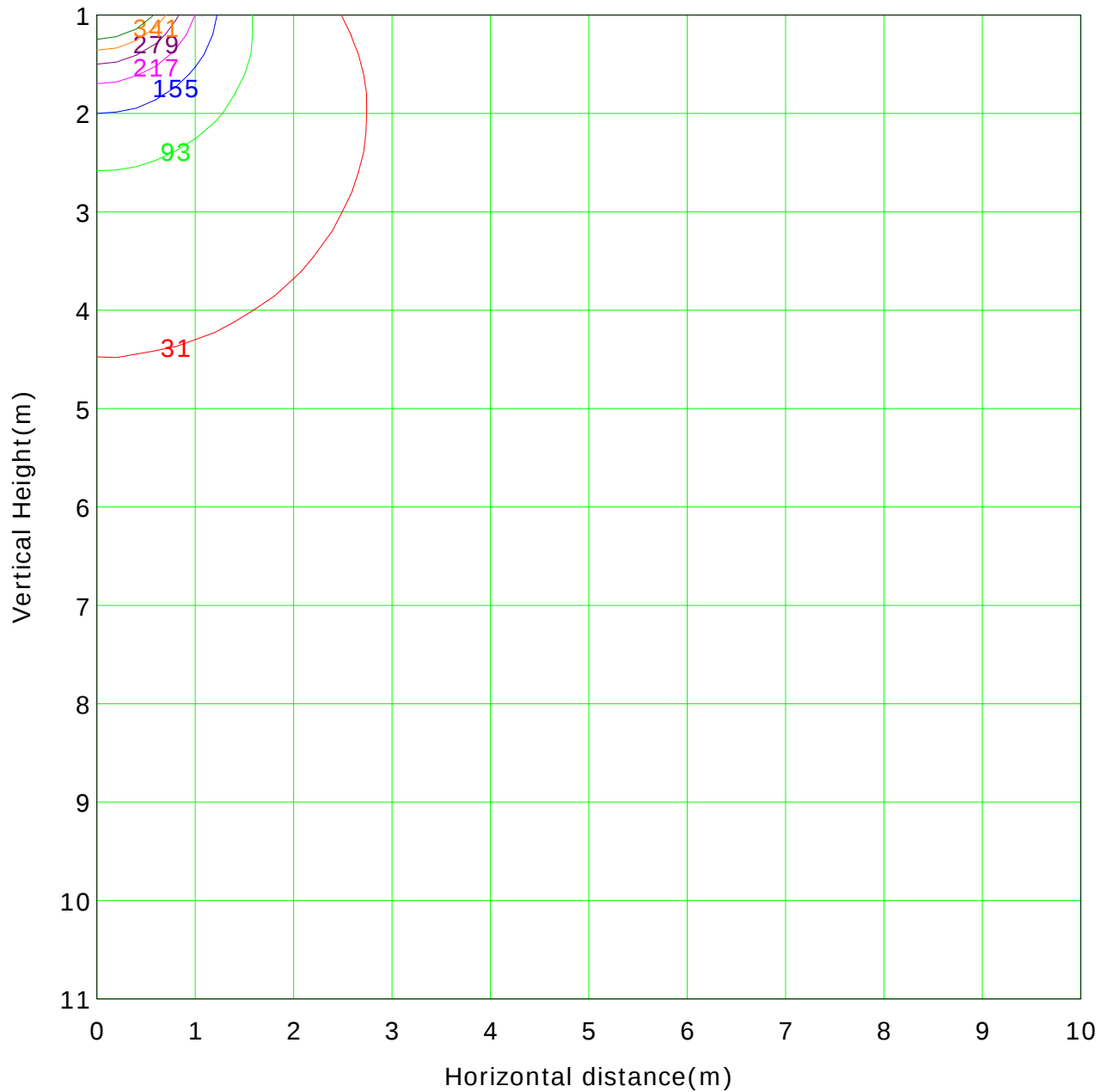
Humidity:

Inspector:

Illuminance at a Distance



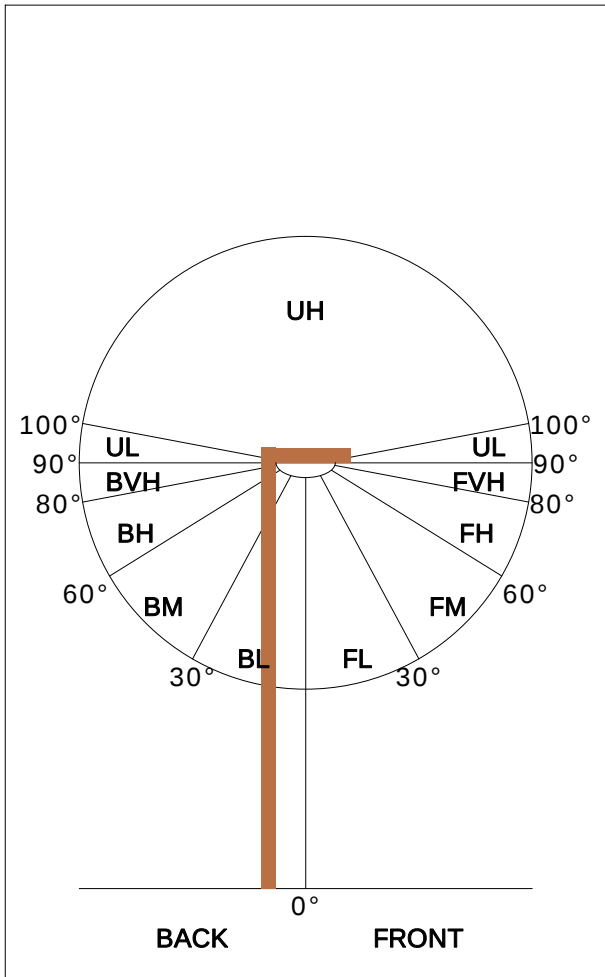
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 619.1 lx

(5%): 31.0 lx	(15%): 92.9 lx
(25%): 154.8 lx	(35%): 216.7 lx
(45%): 278.6 lx	(55%): 340.5 lx
(65%): 402.4 lx	

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	953	44.3
	FL (0°-30°)	242	11.2
	FM (30°-60°)	474	22.0
	FH (60°-80°)	198	9.2
	FVH (80°-90°)	39	1.8
	BACK LIGHT	988	45.9
	BL (0°-30°)	245	11.4
	BM (30°-60°)	488	22.7
	BH (60°-80°)	213	9.9
	BVH (80°-90°)	43	2.0
	UP LIGHT	211	9.8
	UL (90°-100°)	42	2.0
	UH (100°-180°)	169	7.9
	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

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: