

Report No.:

Test Time: 2021-04-12 16:36

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17015-5000K

Lamp Description: 2835

Current: 0.157 A

Power Factor: 0.932

Lamp Catalog: LED

Voltage: 120.0 V

Power: 17.62 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1409.9 lm

Downward Ratio: 95%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.2, 164.5, 164.4, 164.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 112.4, 112.6, 112.5, 112.5

Luminaire Efficacy Rating (LER): 80.07

Max. Intensity: 464.65 cd

S/MH(C0/C180): 1.25

Total Rated Lamp Lumens: 1409.9 lm

Efficiency: 100%

Upward Ratio: 5%

Central Intensity: 464.55 cd

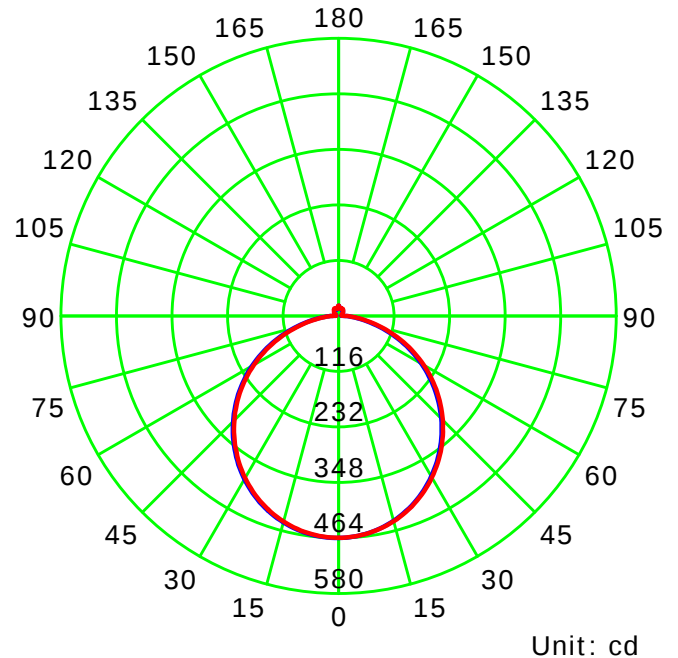
Pos of Max. Intensity: H180 V1

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:

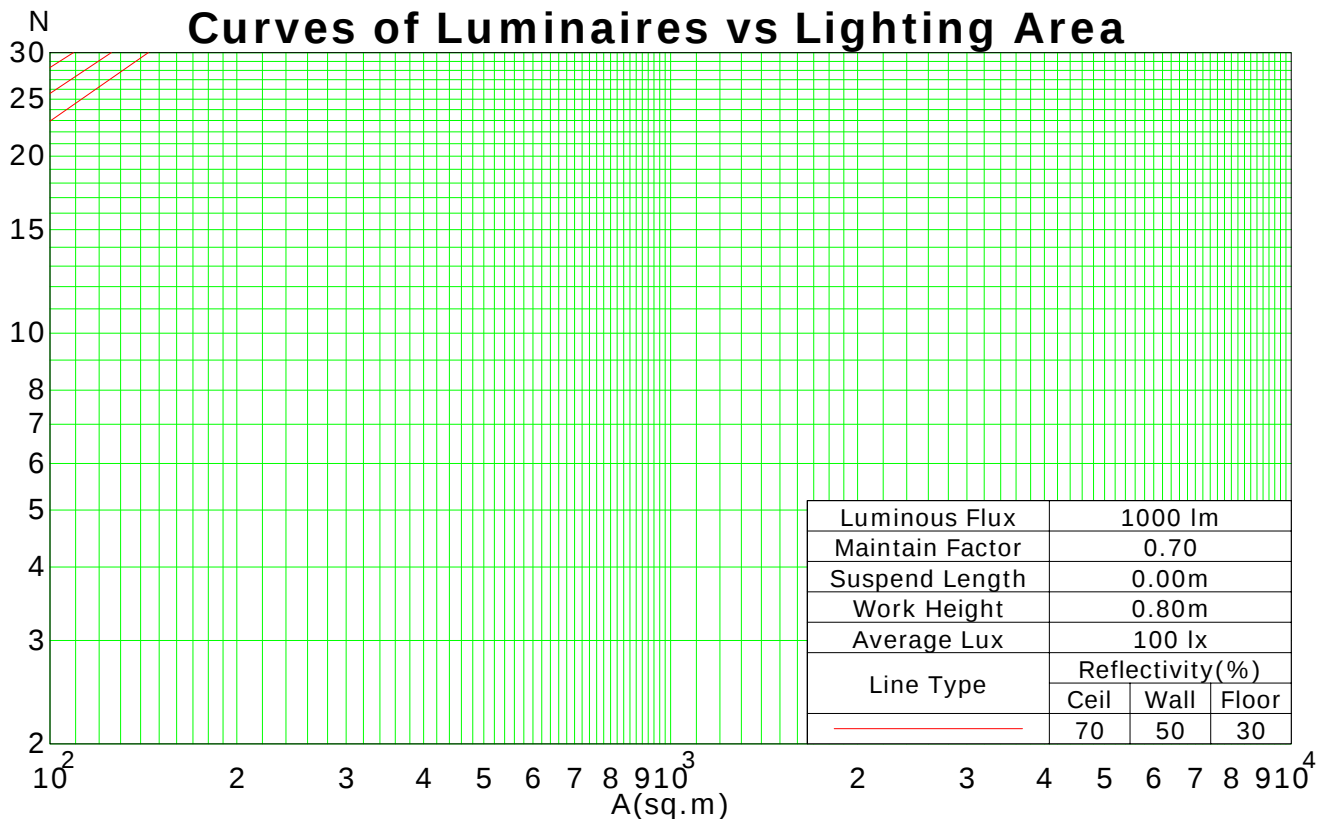
Coefficients Of Utilization - Zonal Cavity Method

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

Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

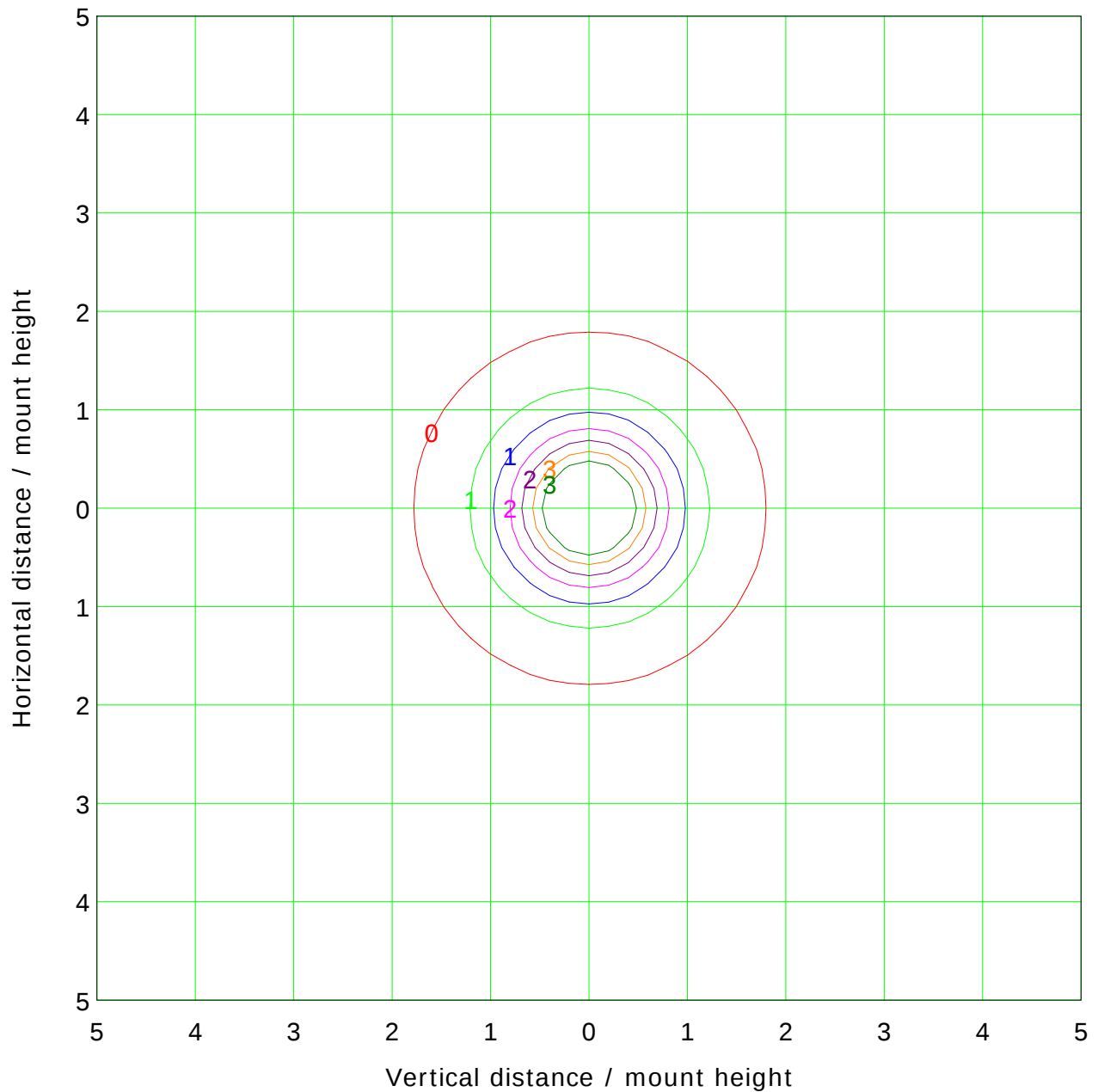
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 4.6 lx	
— (5%):	0.2 lx	— (15%):	0.7 lx
— (25%):	1.2 lx	— (35%):	1.6 lx
— (45%):	2.1 lx	— (55%):	2.6 lx
— (65%):	3.0 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

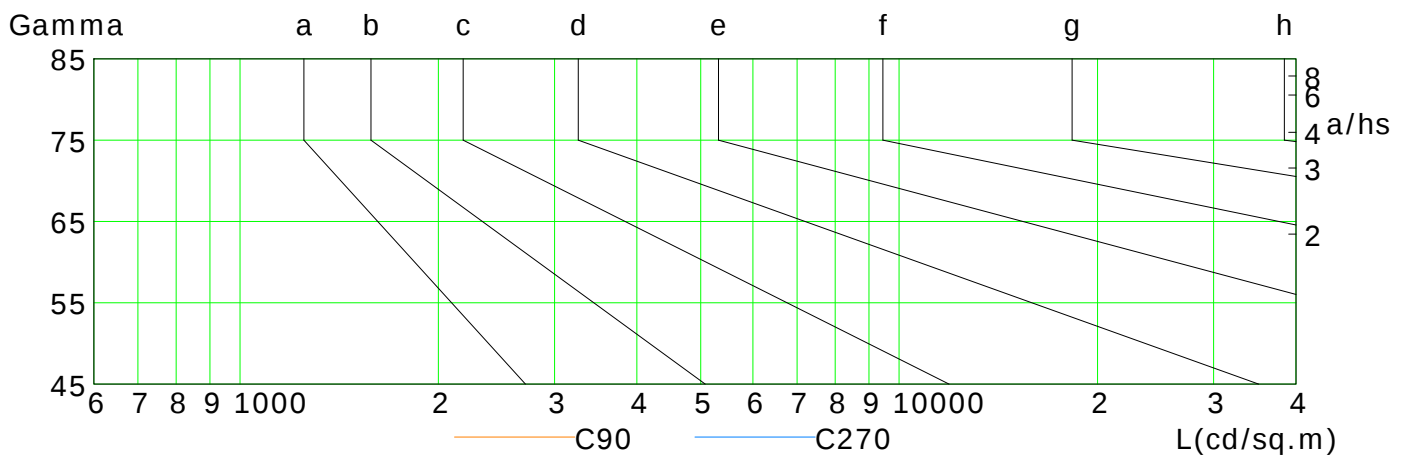
Humidity:

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	304	271	236	200	163	125	88	56	30
C90	308	276	242	206	169	131	94	61	34
C180	312	281	246	210	172	134	96	61	34
C270	309	276	242	205	167	128	91	57	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

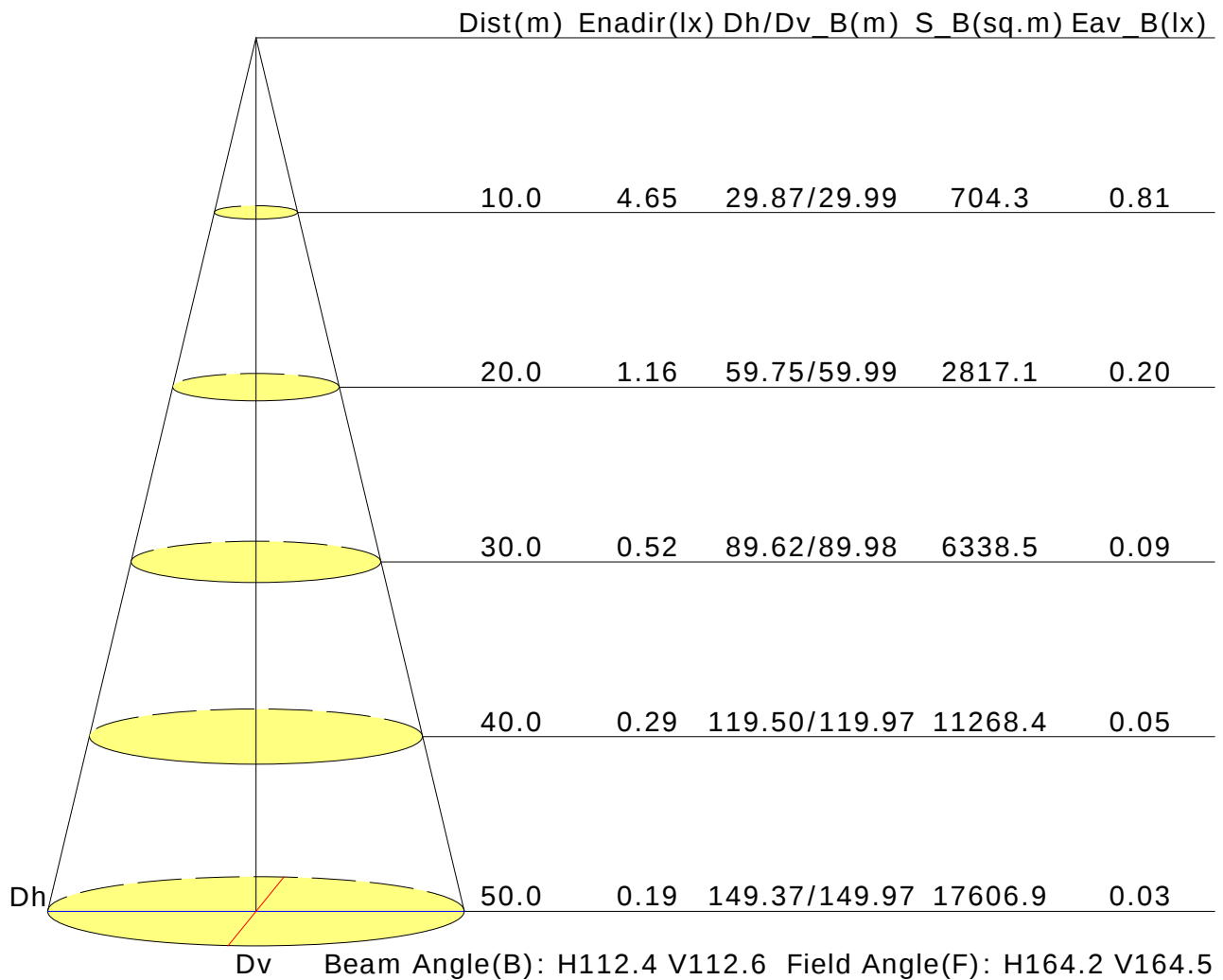
Test Device: GPM-1600L

Distance: 7.344 m

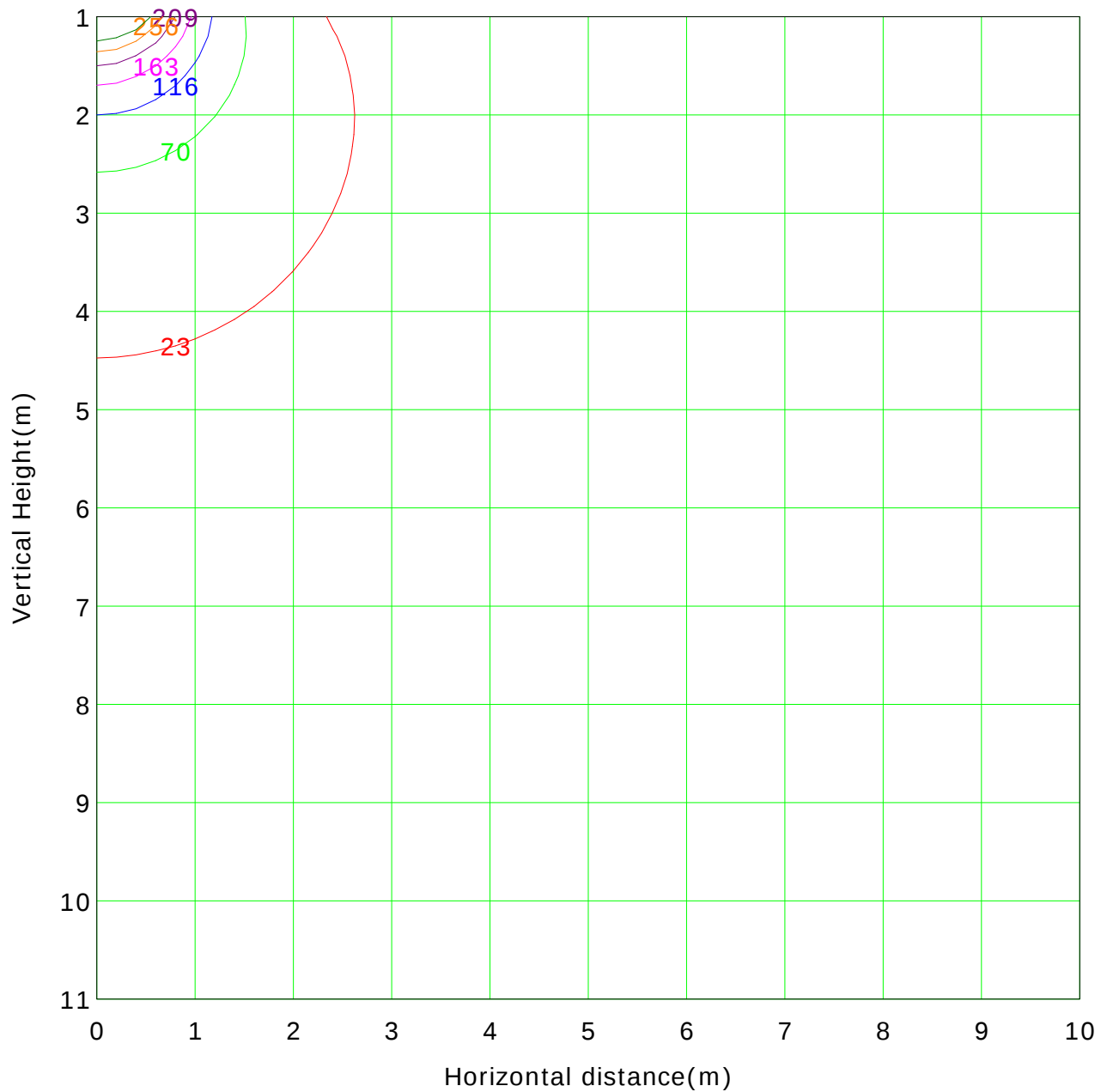
Humidity:

Inspector:

Illuminance at a Distance



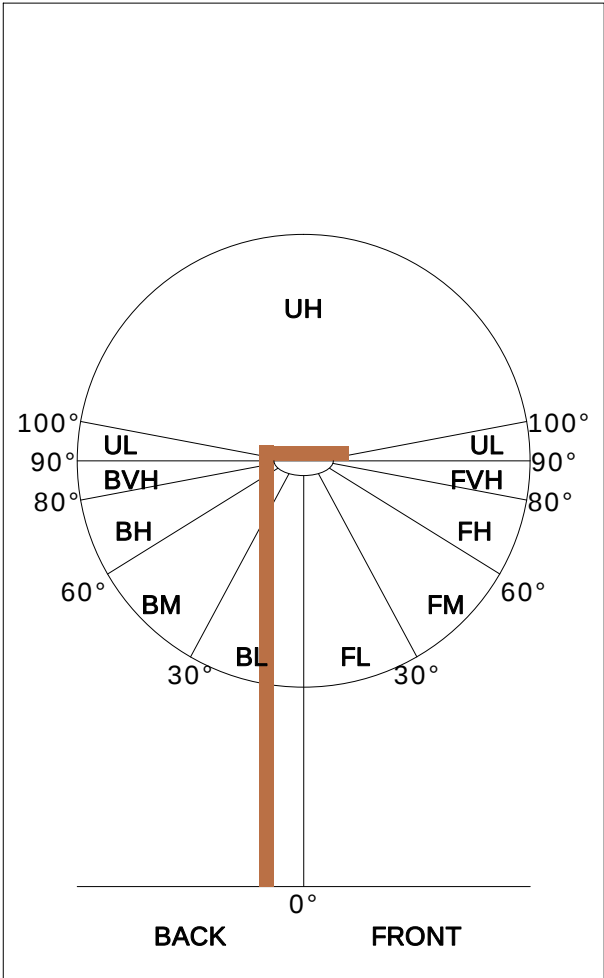
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 464.5 lx

(5%): 23.2 lx	(15%): 69.7 lx
(25%): 116.1 lx	(35%): 162.6 lx
(45%): 209.0 lx	(55%): 255.5 lx
(65%): 302.0 lx	

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	672	47.7
	FL (0°-30°)	180	12.8
	FM (30°-60°)	341	24.2
	FH (60°-80°)	133	9.4
	FVH (80°-90°)	19	1.3
	BACK LIGHT	671	47.6
	BL (0°-30°)	180	12.8
	BM (30°-60°)	341	24.2
	BH (60°-80°)	131	9.3
	BVH (80°-90°)	18	1.3
	UP LIGHT	67	4.8
	UL (90°-100°)	9	0.6
	UH (100°-180°)	58	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

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: