

Report No.:

Test Time: 2021-04-14 15:05

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17016-5000K

Lamp Description: 2835

Current: 0.202 A

Power Factor: 0.952

Lamp Catalog: LED

Voltage: 119.9 V

Power: 23.10 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1957.3 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.7, 163.7, 163.7, 163.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.4, 113.2, 113.3, 113.3

Luminaire Efficacy Rating (LER): 84.78

Max. Intensity: 645.1 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 1957.3 lm

Efficiency: 100%

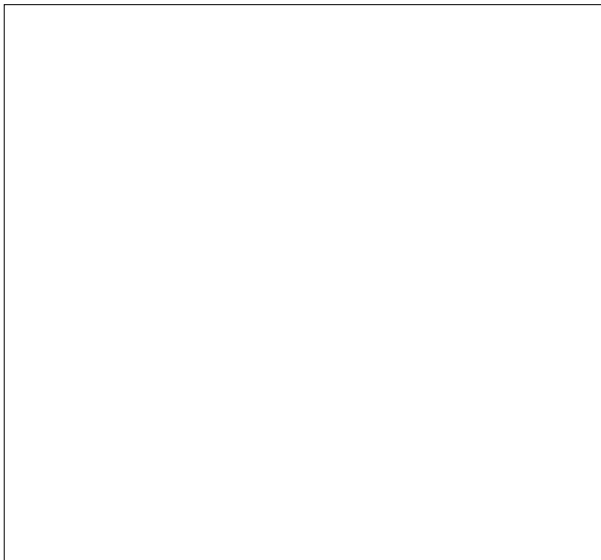
Upward Ratio: 4%

Central Intensity: 645.09 cd

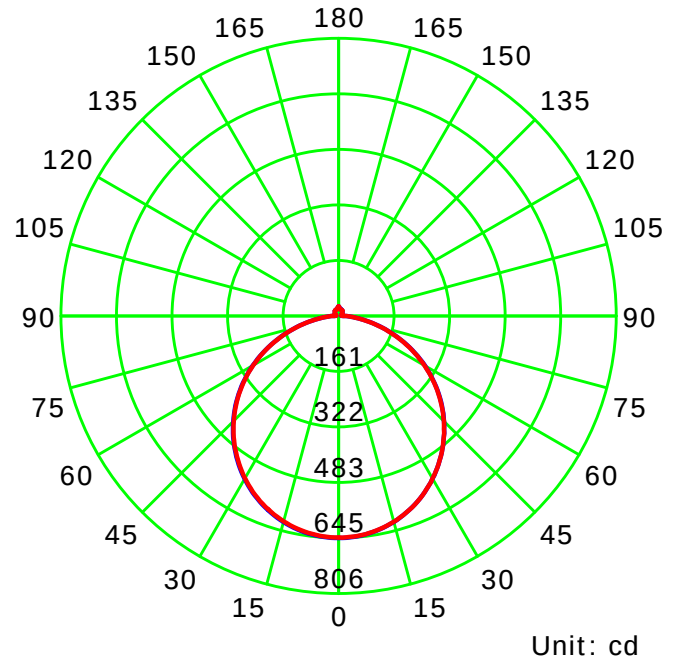
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.26

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:

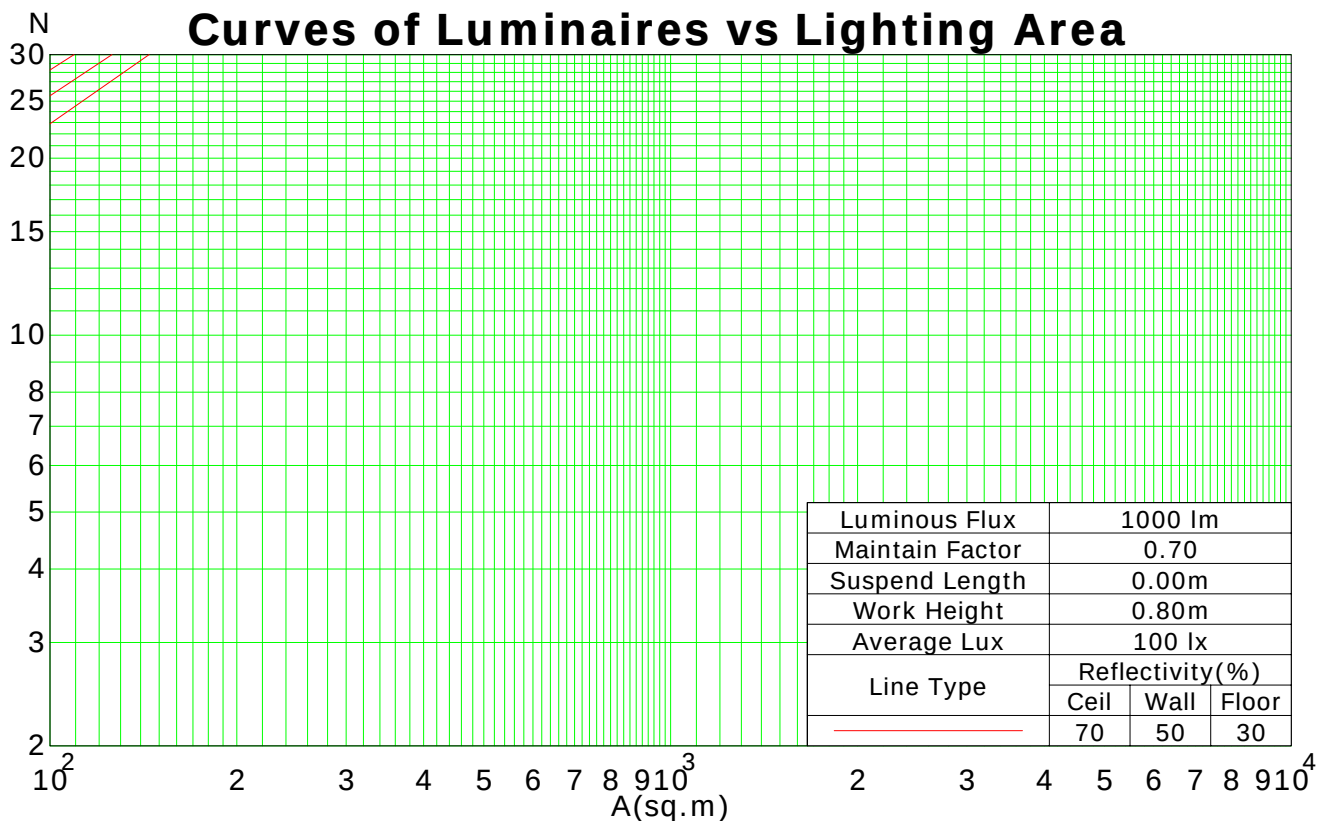
Coefficients Of Utilization - Zonal Cavity Method

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	109	109	109	103	103	103	98	98	98	96
1	107	103	98	94	104	100	96	92	95	92	89	90	88	85	86	84	82	79
2	98	89	82	76	94	87	81	75	83	77	73	79	74	70	75	71	68	66
3	89	78	70	63	86	76	69	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	68	59	53	64	57	52	62	55	51	59	54	49	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	43	38	48	42	38	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	58	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	26	50	38	30	25	37	30	25	36	29	25	34	29	24	23

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.26

Spacing Criteria (Diagonal): 1.38



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Temperature:

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Gamma Plane (°):0.0-180.0:1.0

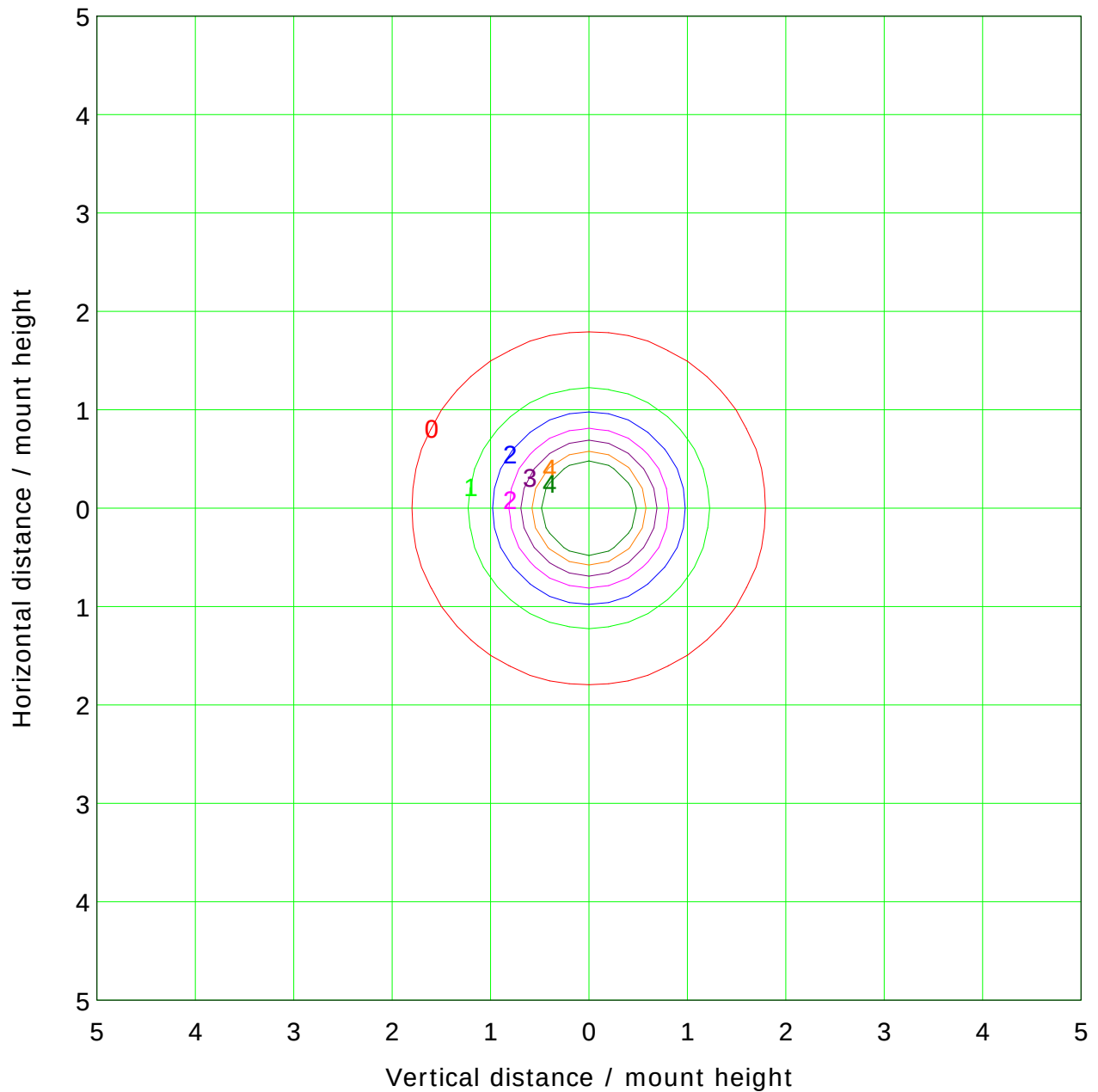
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 6.5 lx	
— (5%):	0.3 lx	— (15%):	1.0 lx
— (25%):	1.6 lx	— (35%):	2.3 lx
— (45%):	2.9 lx	— (55%):	3.5 lx
— (65%):	4.2 lx		

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Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

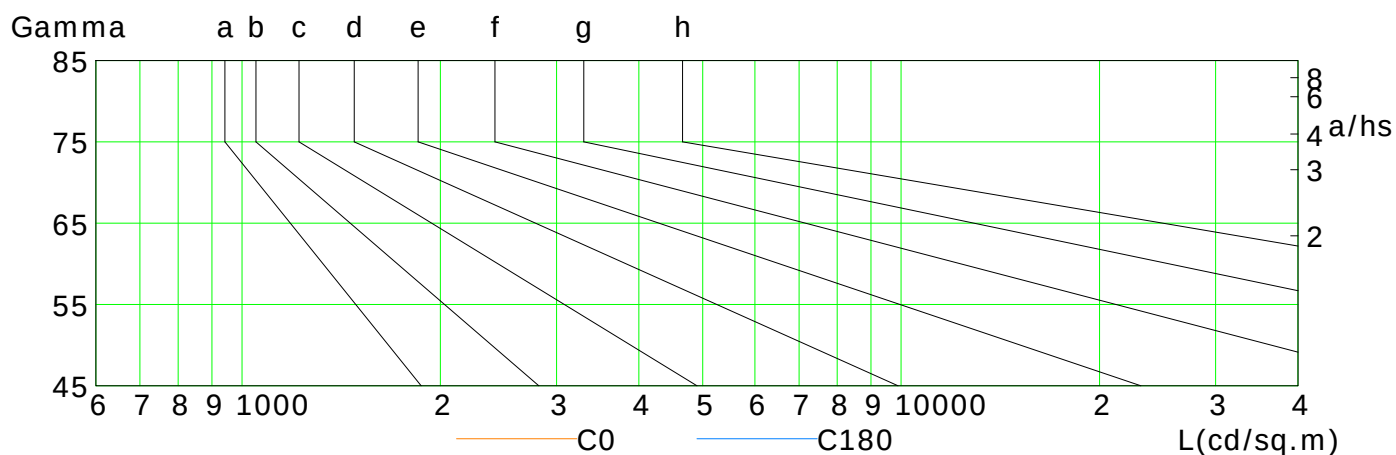
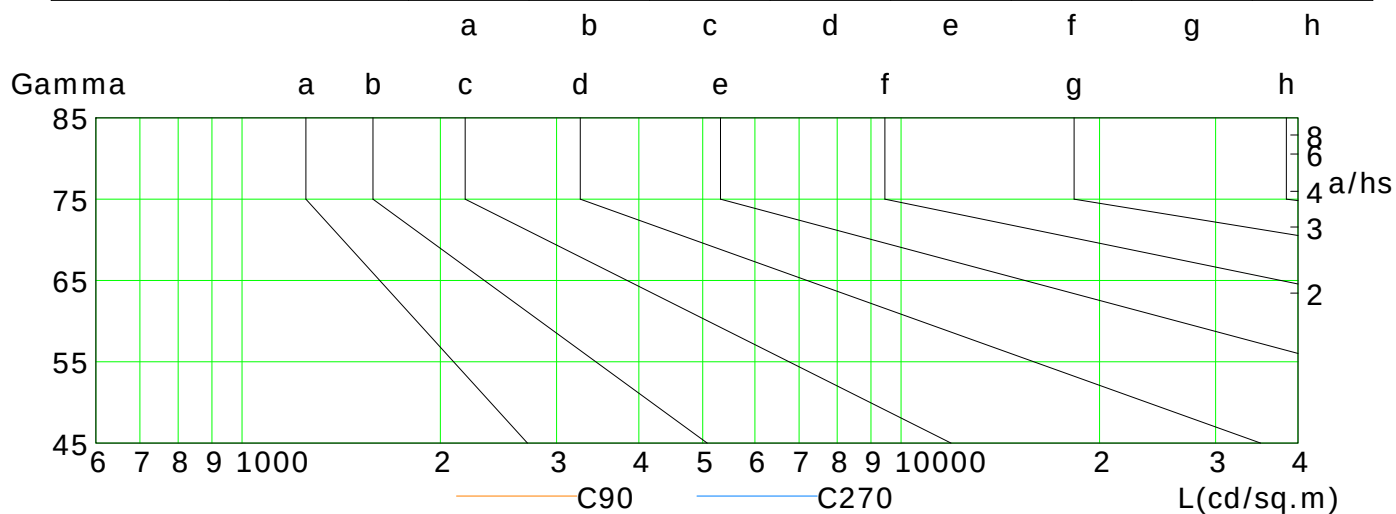
Distance: 7.344 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	433	388	340	290	237	184	131	82	42
C90	433	387	339	288	235	182	129	81	43
C180	433	388	339	288	235	180	127	78	40
C270	431	386	338	287	233	179	126	78	41

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Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

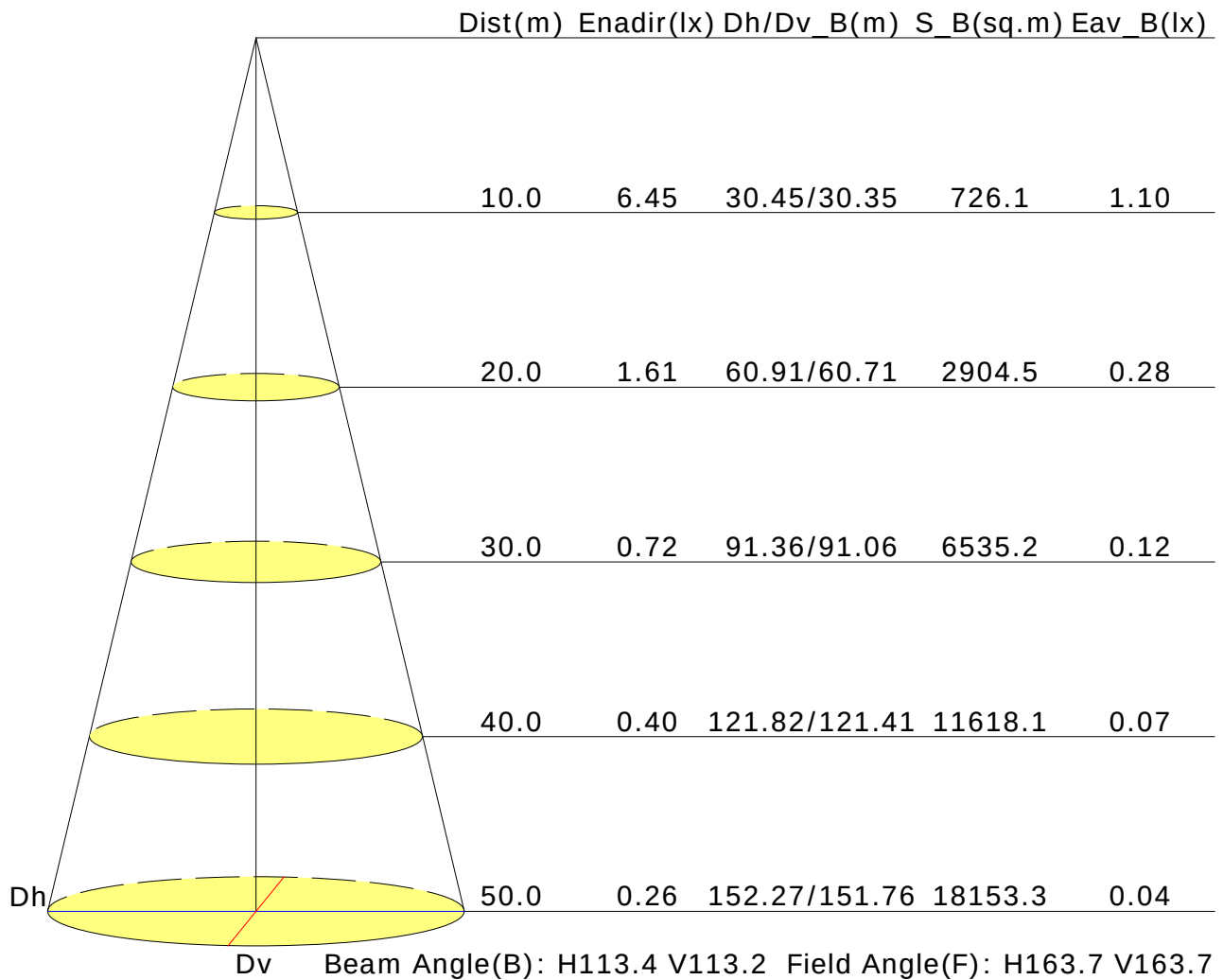
Test Device: GPM-1600L

Distance: 7.344 m

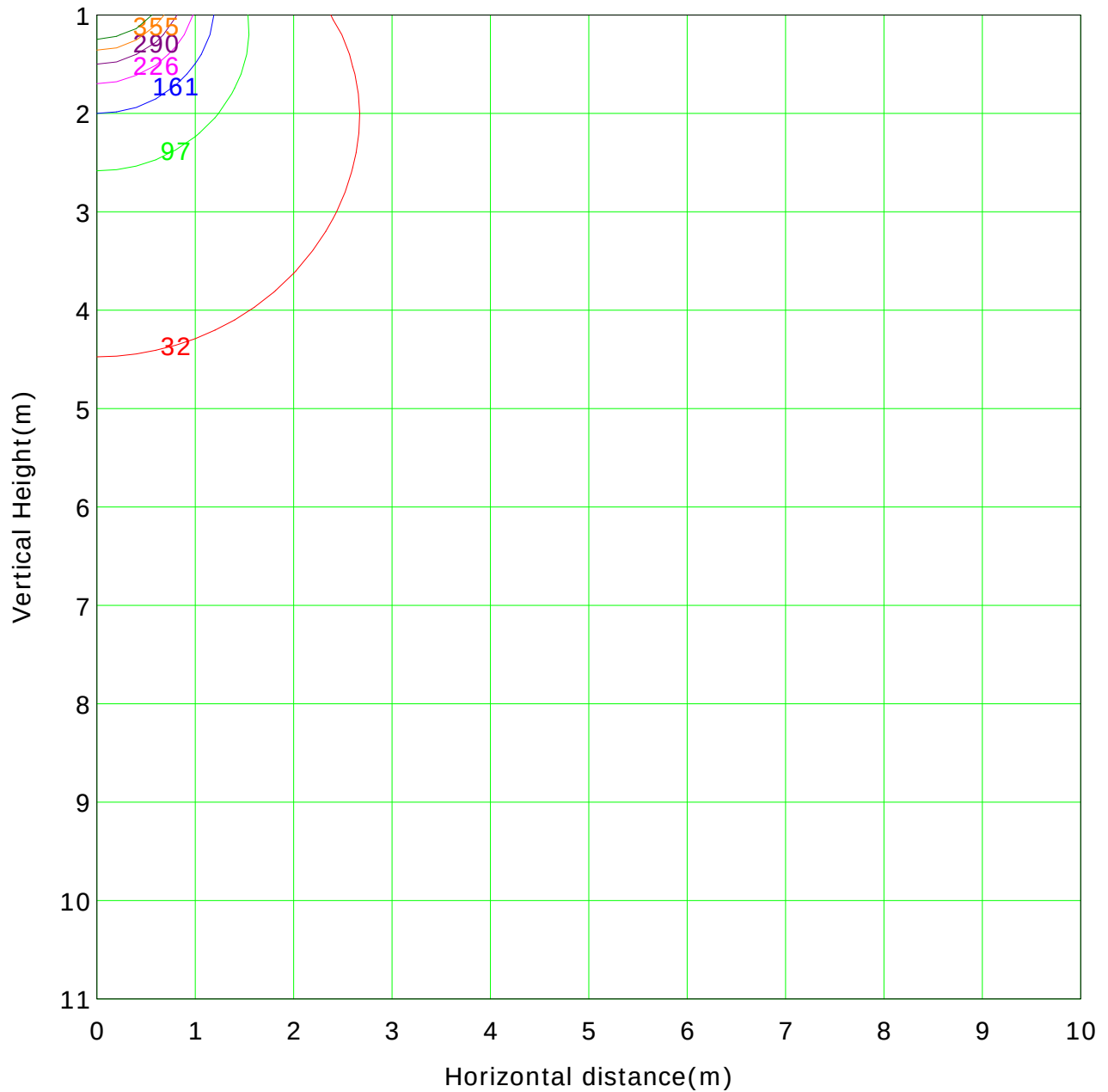
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



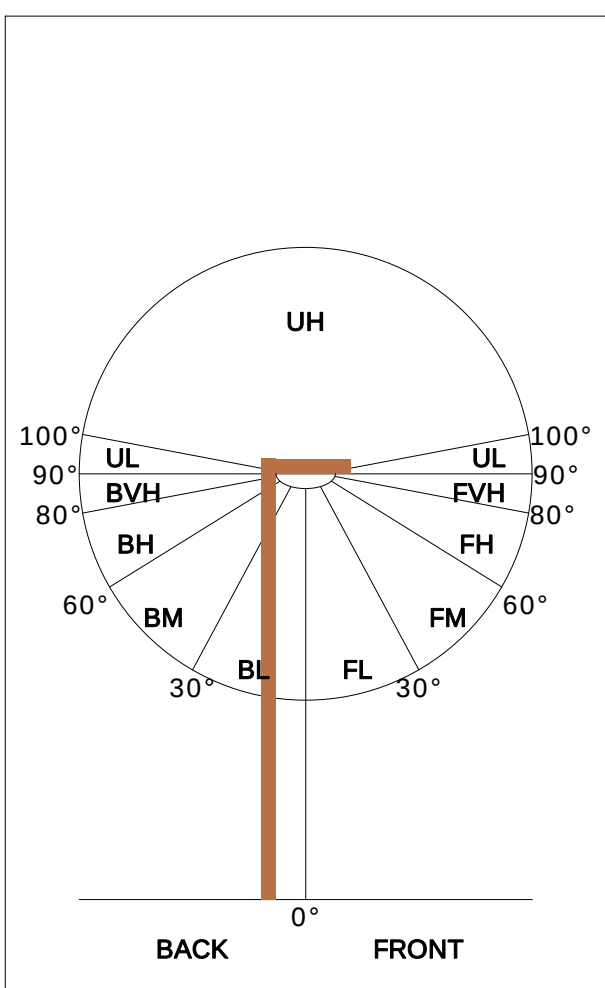
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 645.1 lx

(5%): 32.3 lx	(15%): 96.8 lx
(25%): 161.3 lx	(35%): 225.8 lx
(45%): 290.3 lx	(55%): 354.8 lx
(65%): 419.3 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	938	47.9
	FL (0°-30°)	250	12.8
	FM (30°-60°)	479	24.4
	FH (60°-80°)	185	9.4
	FVH (80°-90°)	24	1.2
	BACK LIGHT	935	47.8
	BL (0°-30°)	250	12.8
	BM (30°-60°)	478	24.4
	BH (60°-80°)	184	9.4
	BVH (80°-90°)	24	1.2
	UP LIGHT	84	4.3
	UL (90°-100°)	11	0.5
	UH (100°-180°)	73	3.7
	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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