

Report No.:

Test Time: 2021-04-13 16:39

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17002-3000K

Lamp Description: 2835

Current: 0.210 A

Power Factor: 0.937

Lamp Catalog: LED

Voltage: 120.0 V

Power: 23.63 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1680.4 lm

Downward Ratio: 91%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 172.1, 171.9, 172.3, 172.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.9, 117.6, 117.9, 117.9

Luminaire Efficacy Rating (LER): 71.16

Max. Intensity: 495.28 cd

S/MH(C0/C180): 1.28

Total Rated Lamp Lumens: 1680.4 lm

Efficiency: 100%

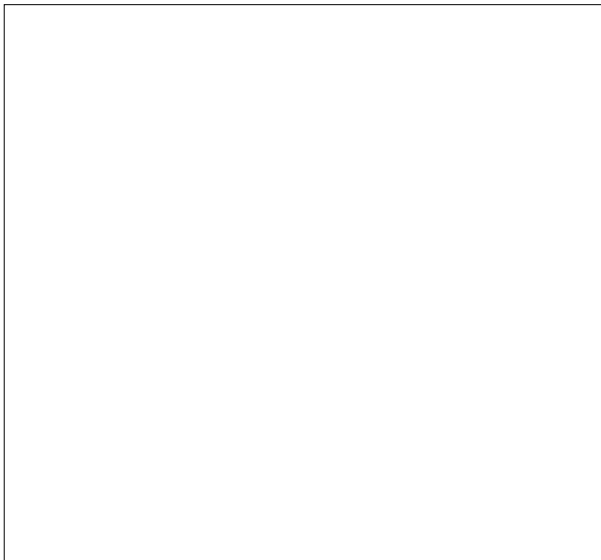
Upward Ratio: 9%

Central Intensity: 490.8 cd

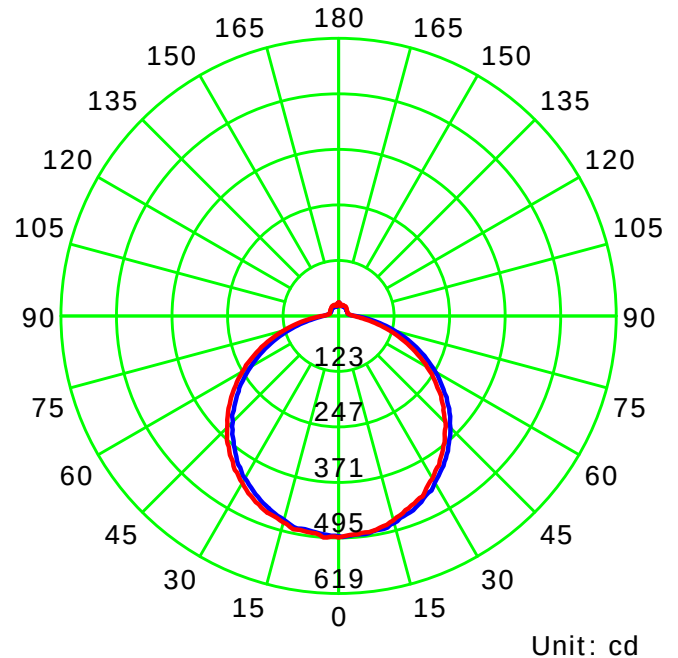
Pos of Max. Intensity: H270 V4

S/MH(C90/C270): 1.27

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:

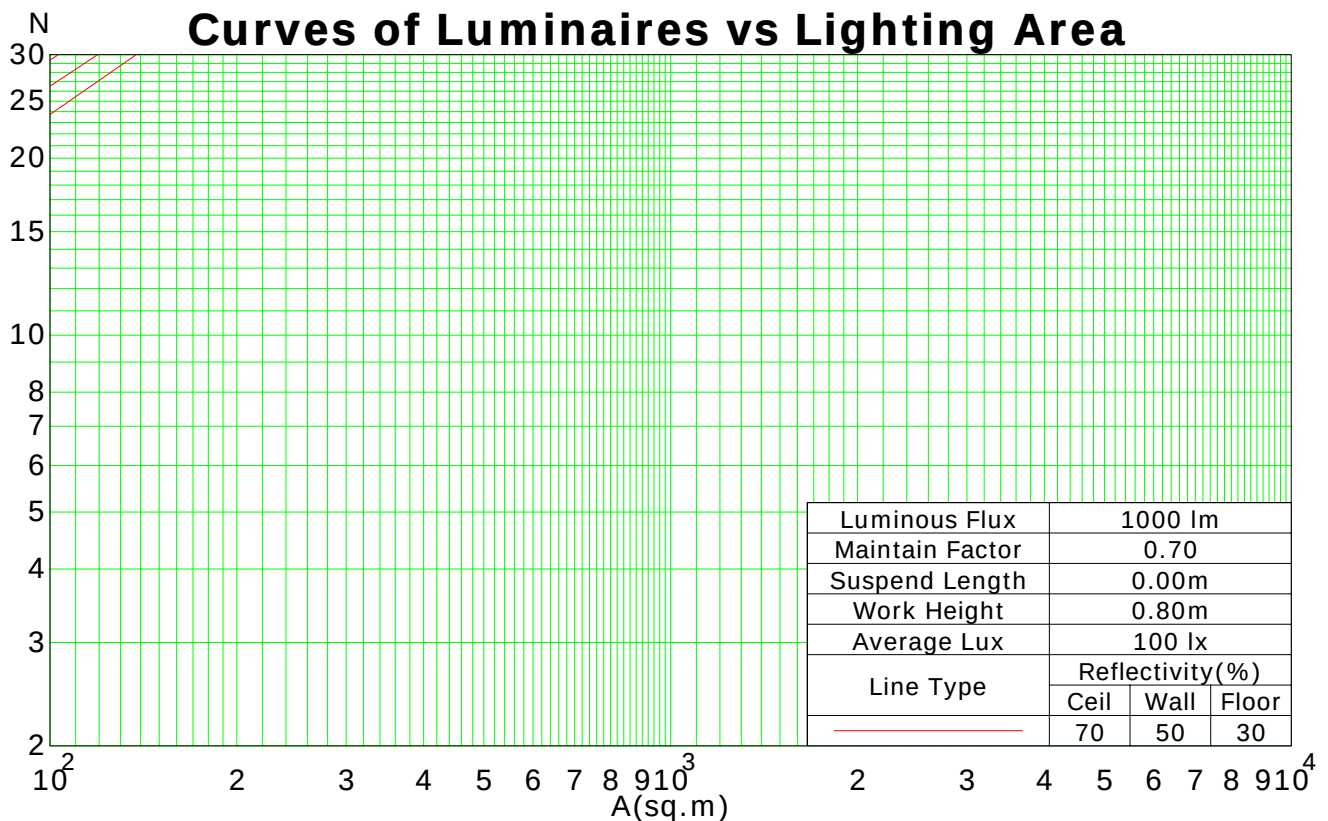
Coefficients Of Utilization - Zonal Cavity Method

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	100	100	100	94	94	94	91
1	106	101	96	92	102	97	93	89	92	88	85	86	83	81	81	79	77	74
2	96	87	80	74	92	84	78	72	79	74	69	75	70	66	70	67	64	61
3	87	76	68	61	84	74	66	60	70	63	58	66	60	55	62	57	53	51
4	79	67	58	51	76	65	57	50	62	54	49	58	52	47	55	50	46	43
5	73	60	51	44	70	58	50	43	55	48	42	52	46	41	49	44	39	37
6	67	54	45	38	65	52	44	38	50	42	37	47	41	36	45	39	35	32
7	62	49	40	33	60	47	39	33	45	38	32	43	36	31	41	35	31	28
8	58	44	36	30	56	43	35	29	41	34	29	39	33	28	37	32	27	25
9	54	41	32	27	52	40	32	26	38	31	26	36	30	25	34	29	25	23
10	51	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): 1.27

Spacing Criteria (Diagonal): 1.41



C Plane (°):0.0-360.0: 90.0

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Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

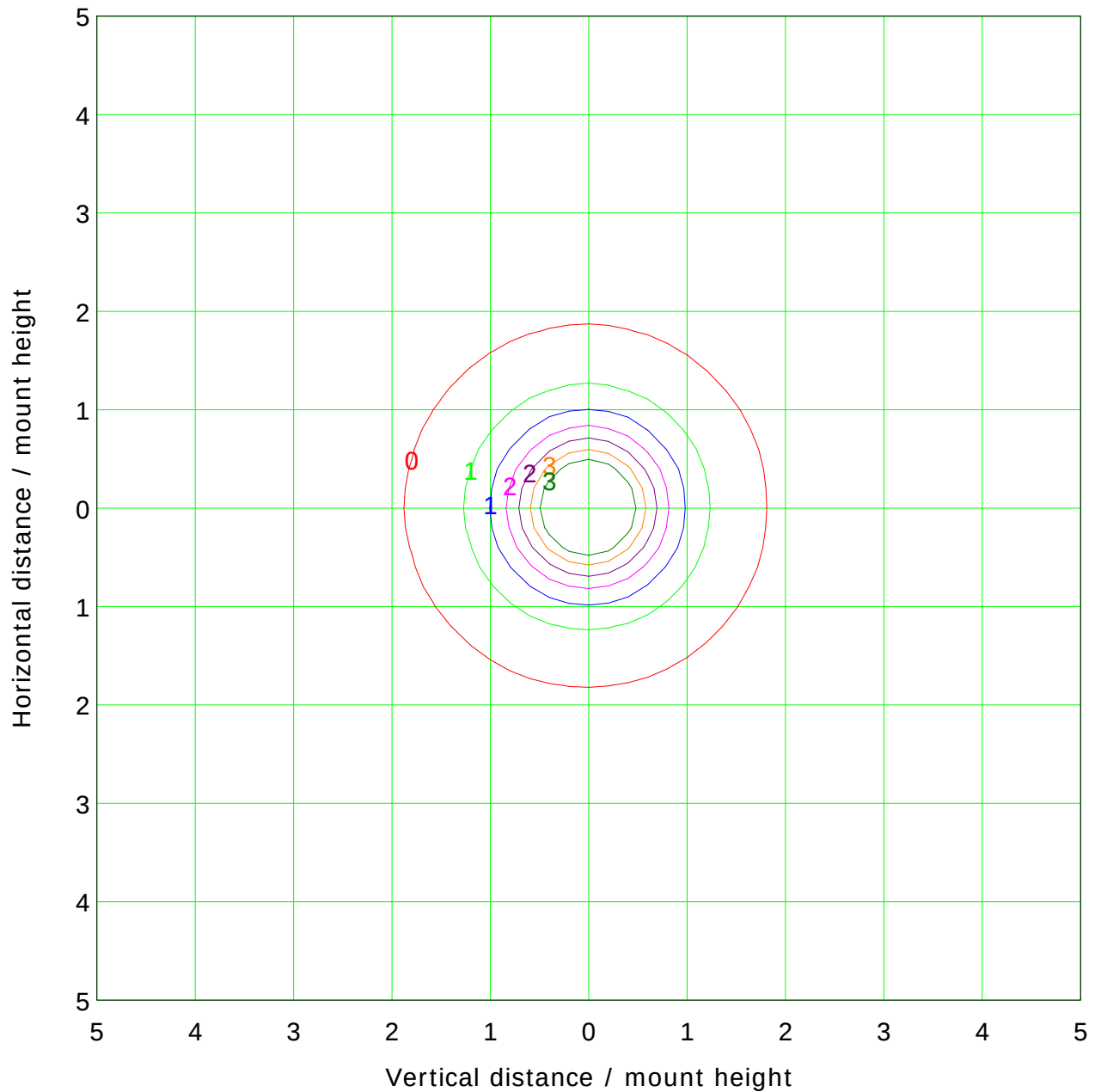
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 4.9 lx	
(5%):	0.2 lx	(15%):	0.7 lx
(25%):	1.2 lx	(35%):	1.7 lx
(45%):	2.2 lx	(55%):	2.7 lx
(65%):	3.2 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

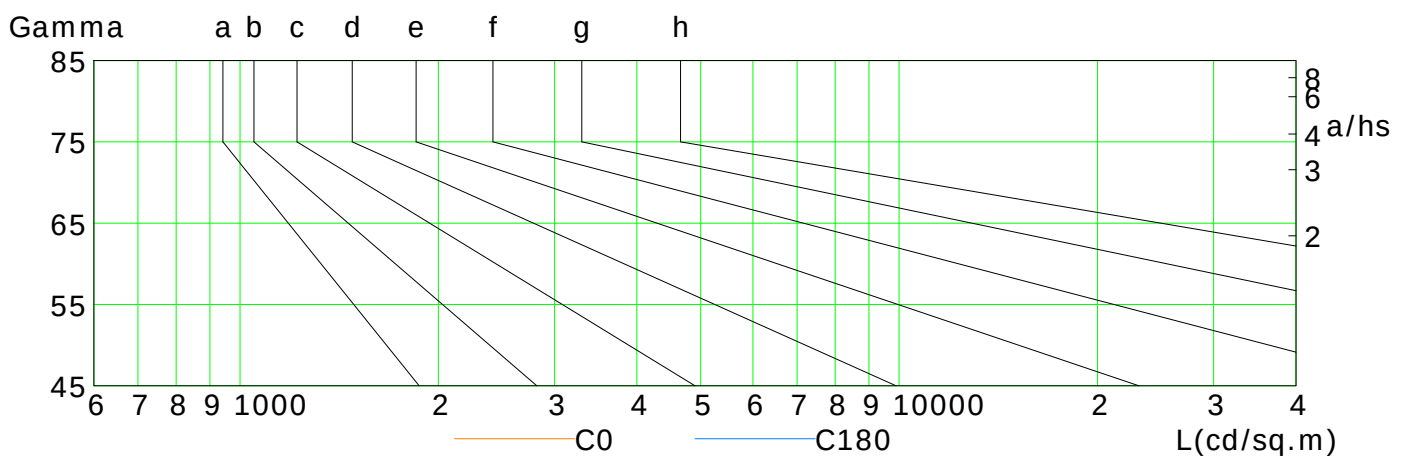
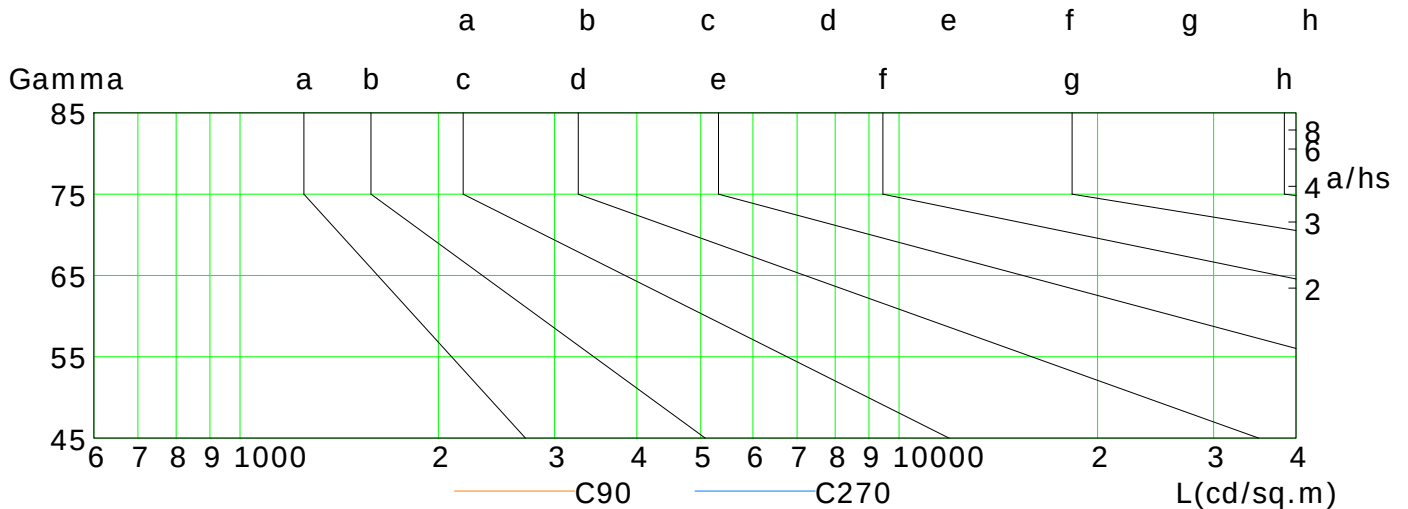
Distance: 7.344 m

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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	352	322	286	249	211	171	131	94	61
C90	337	302	266	228	189	149	111	76	49
C180	334	301	267	227	187	147	108	74	49
C270	352	321	285	248	209	169	128	91	59

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

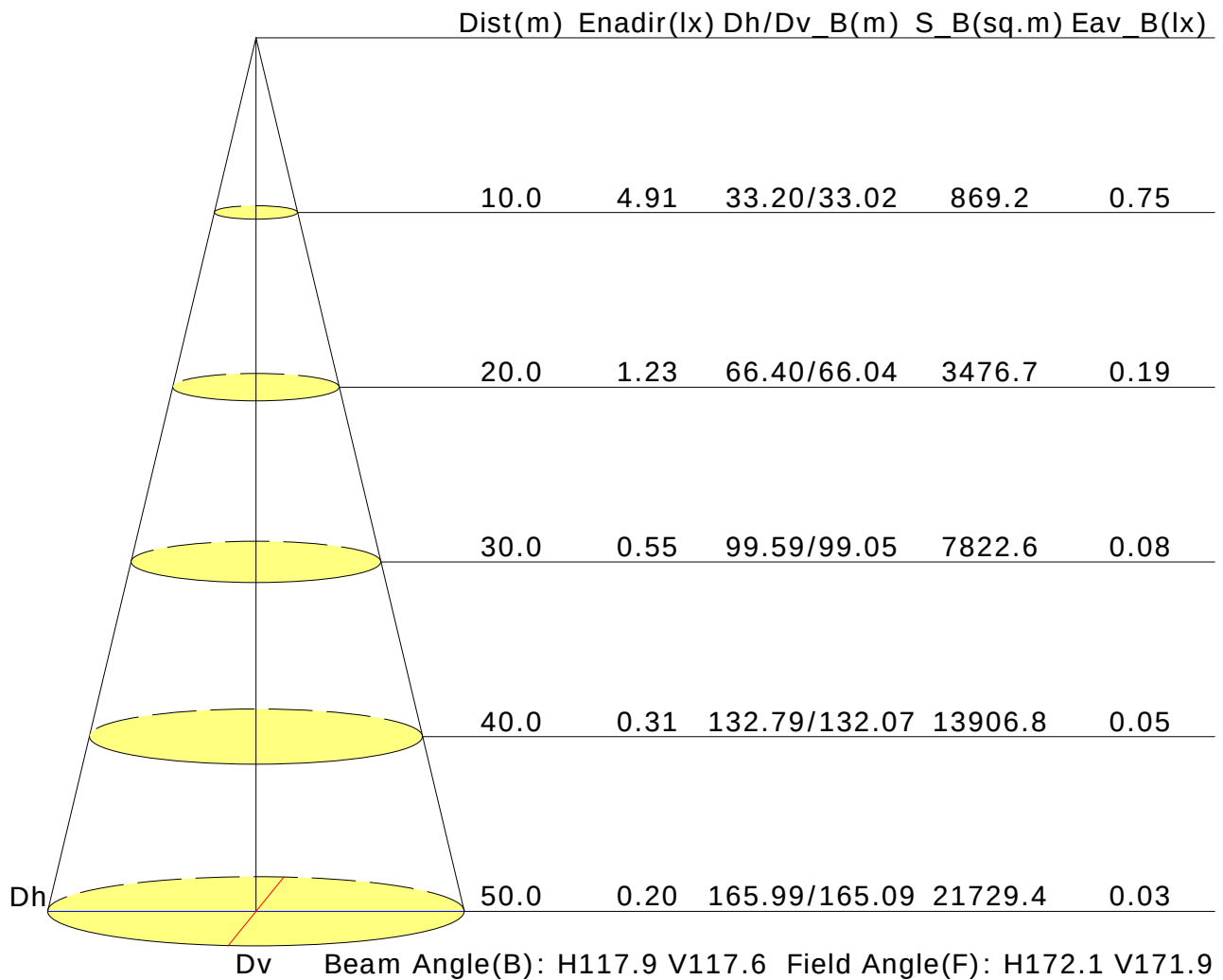
Test Device: GPM-1600L

Distance: 7.344 m

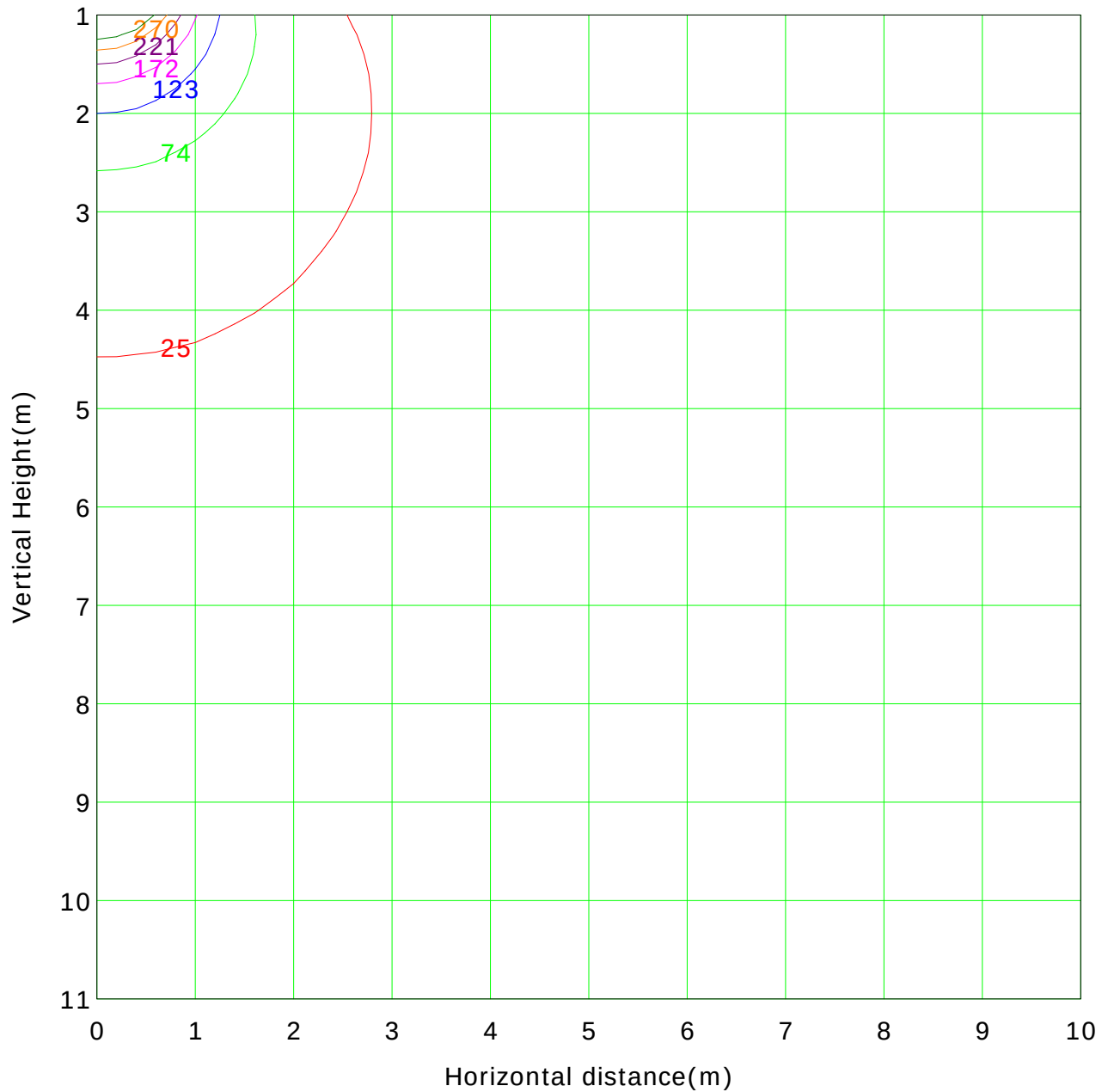
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 490.8 lx

(5%): 24.5 lx

(15%): 73.6 lx

(25%): 122.7 lx

(35%): 171.8 lx

(45%): 220.9 lx

(55%): 269.9 lx

(65%): 319.0 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

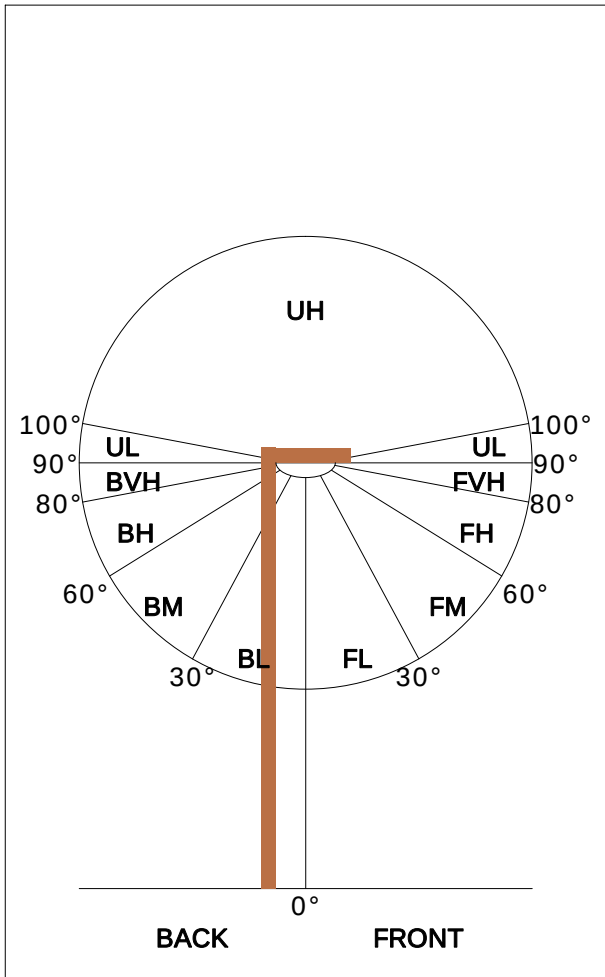
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	755	44.9
	FL (0°-30°)	192	11.4
	FM (30°-60°)	376	22.4
	FH (60°-80°)	157	9.3
	FVH (80°-90°)	30	1.8
	BACK LIGHT	778	46.3
	BL (0°-30°)	194	11.5
	BM (30°-60°)	386	23.0
	BH (60°-80°)	166	9.9
	BVH (80°-90°)	32	1.9
	UP LIGHT	147	8.8
	UL (90°-100°)	30	1.8
	UH (100°-180°)	117	7.0
	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

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