

Report No.:

Test Time: 2021-04-15 16:04

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17037-3000K

Lamp Description: 2835

Current: 0.243 A

Power Factor: 0.943

Lamp Catalog: LED

Voltage: 120.0 V

Power: 27.47 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2139.8 lm

Downward Ratio: 96%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.2, 163.9, 164.1, 164.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.6, 113.0, 113.3, 113.3

Luminaire Efficacy Rating (LER): 77.95

Max. Intensity: 704.97 cd

S/MH(C0/C180): 1.26

Total Rated Lamp Lumens: 2139.8 lm

Efficiency: 100%

Upward Ratio: 4%

Central Intensity: 704.97 cd

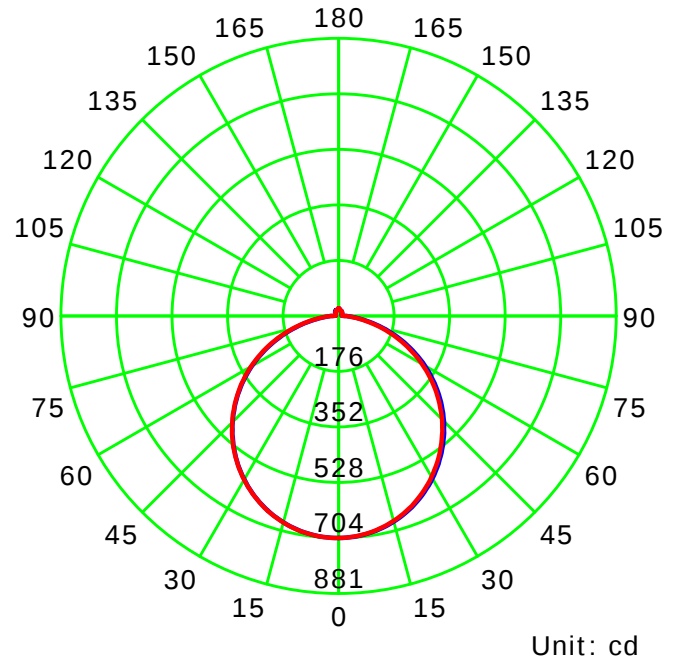
Pos of Max. Intensity: H0 V0

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:

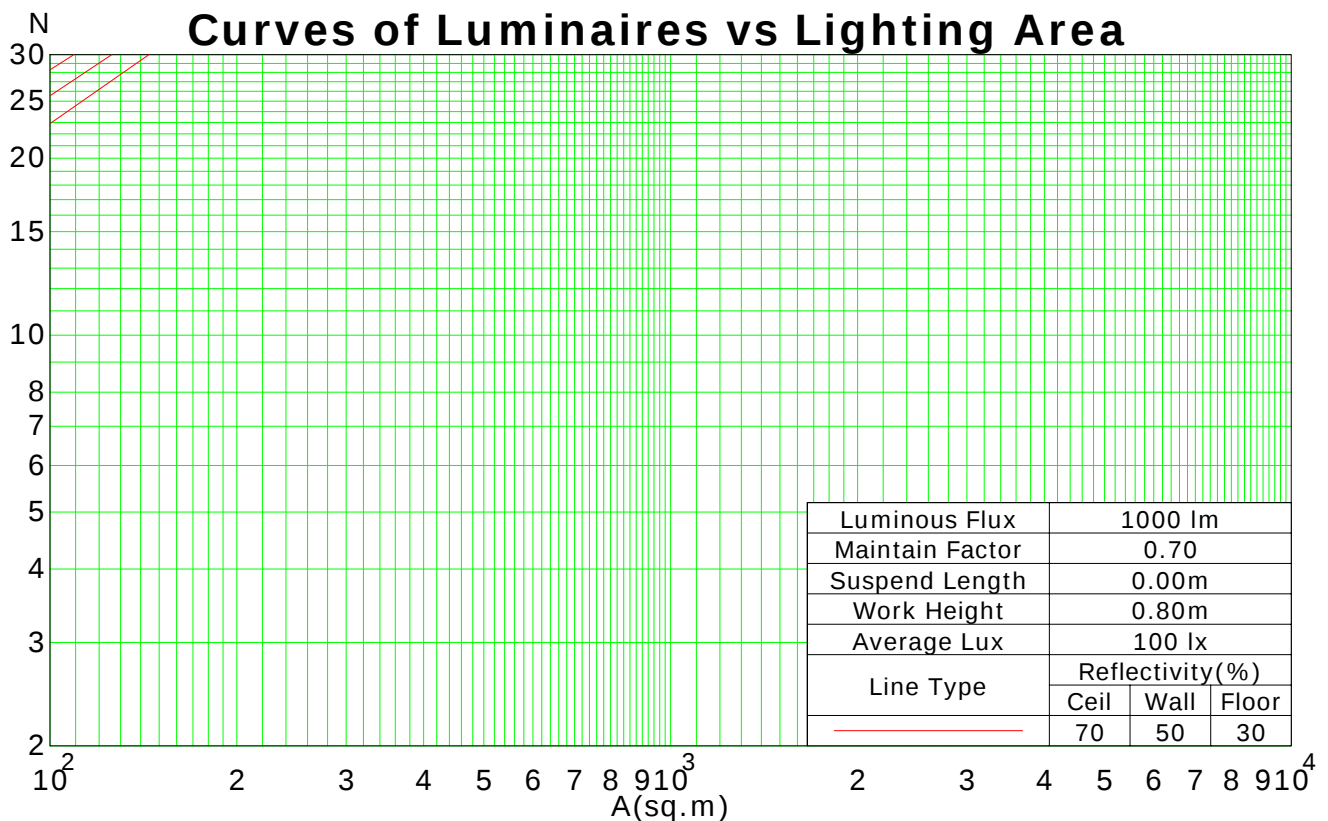
Coefficients Of Utilization - Zonal Cavity Method

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	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	80	75	83	77	73	79	74	70	75	72	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	67	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	46	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	25	50	38	30	25	37	30	25	36	29	25	34	29	24	23

Spacing Criteria (0-180): 1.26

Spacing Criteria (90-270): 1.25

Spacing Criteria (Diagonal): 1.38



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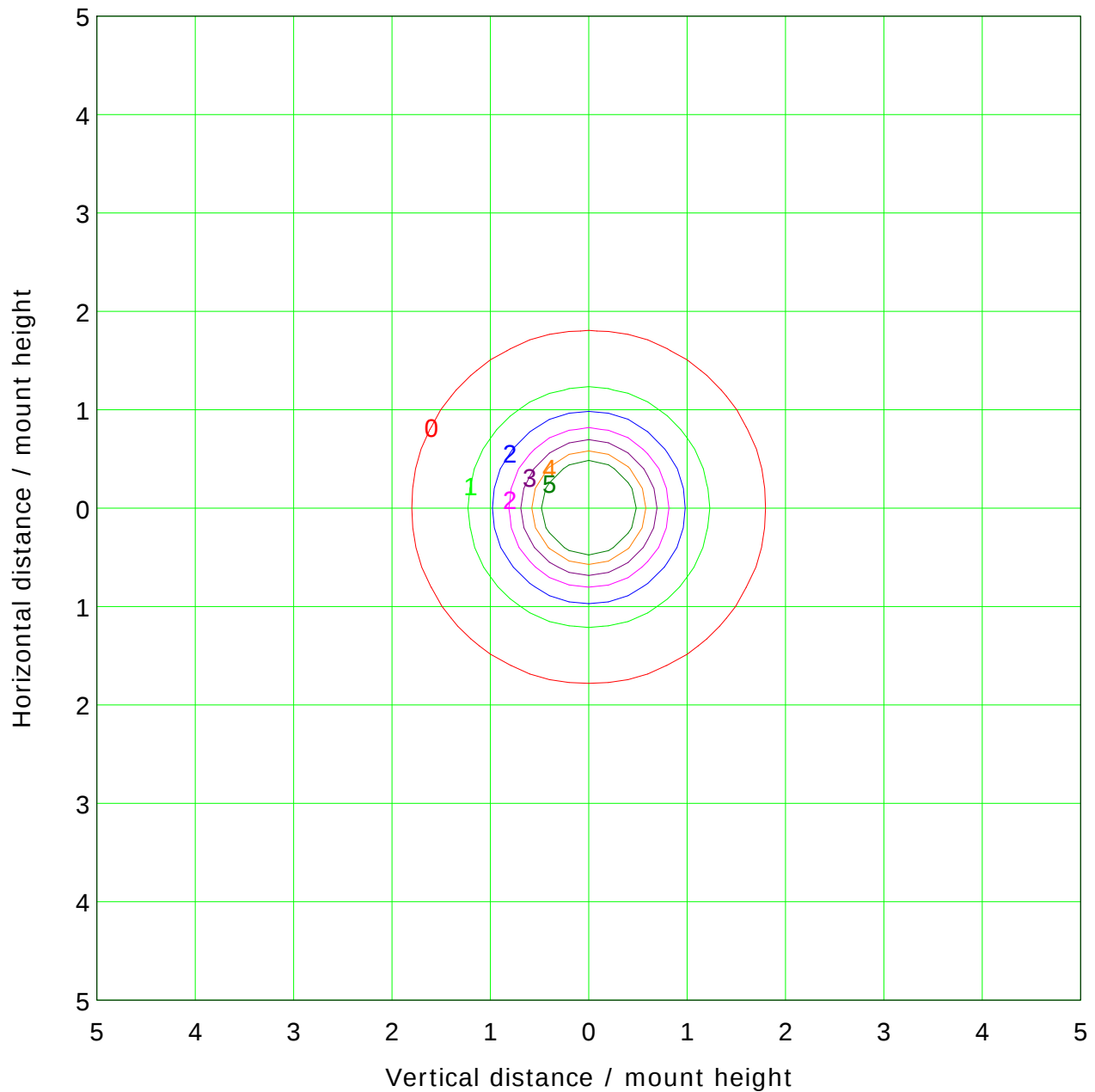
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 7.0 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%):	4.6 lx		

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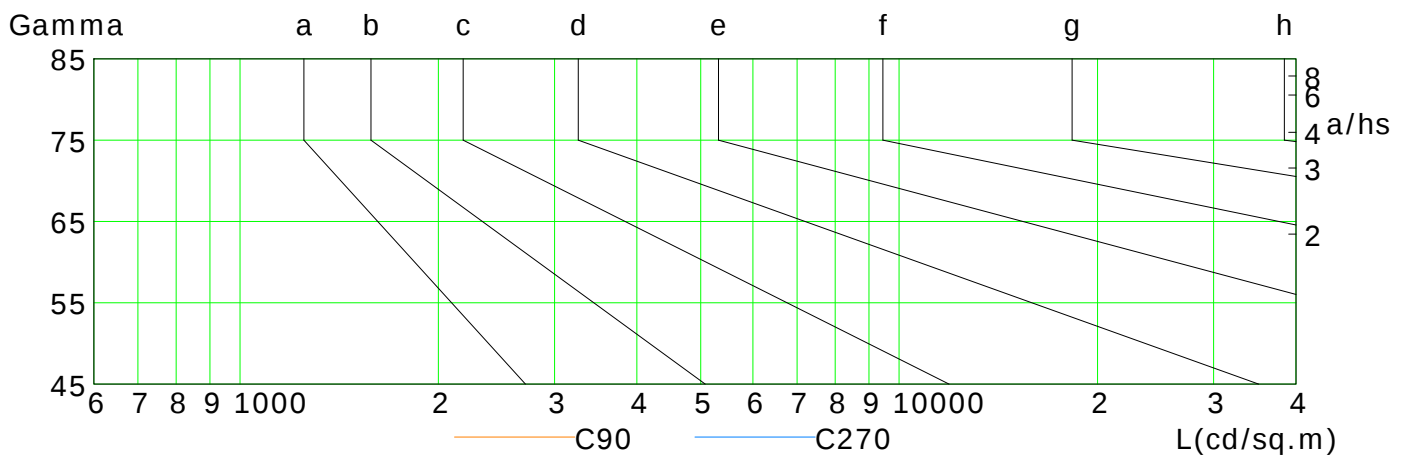
Humidity:

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	473	424	371	316	259	201	144	91	49
C90	464	414	361	306	249	191	135	83	44
C180	476	427	374	318	259	199	141	88	46
C270	478	429	377	322	264	205	147	94	49

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Test Lab:

Test Type: TYPE C

Temperature:

Operator: SUSHUNHUA

Gamma Plane (°):0.0-180.0:1.0

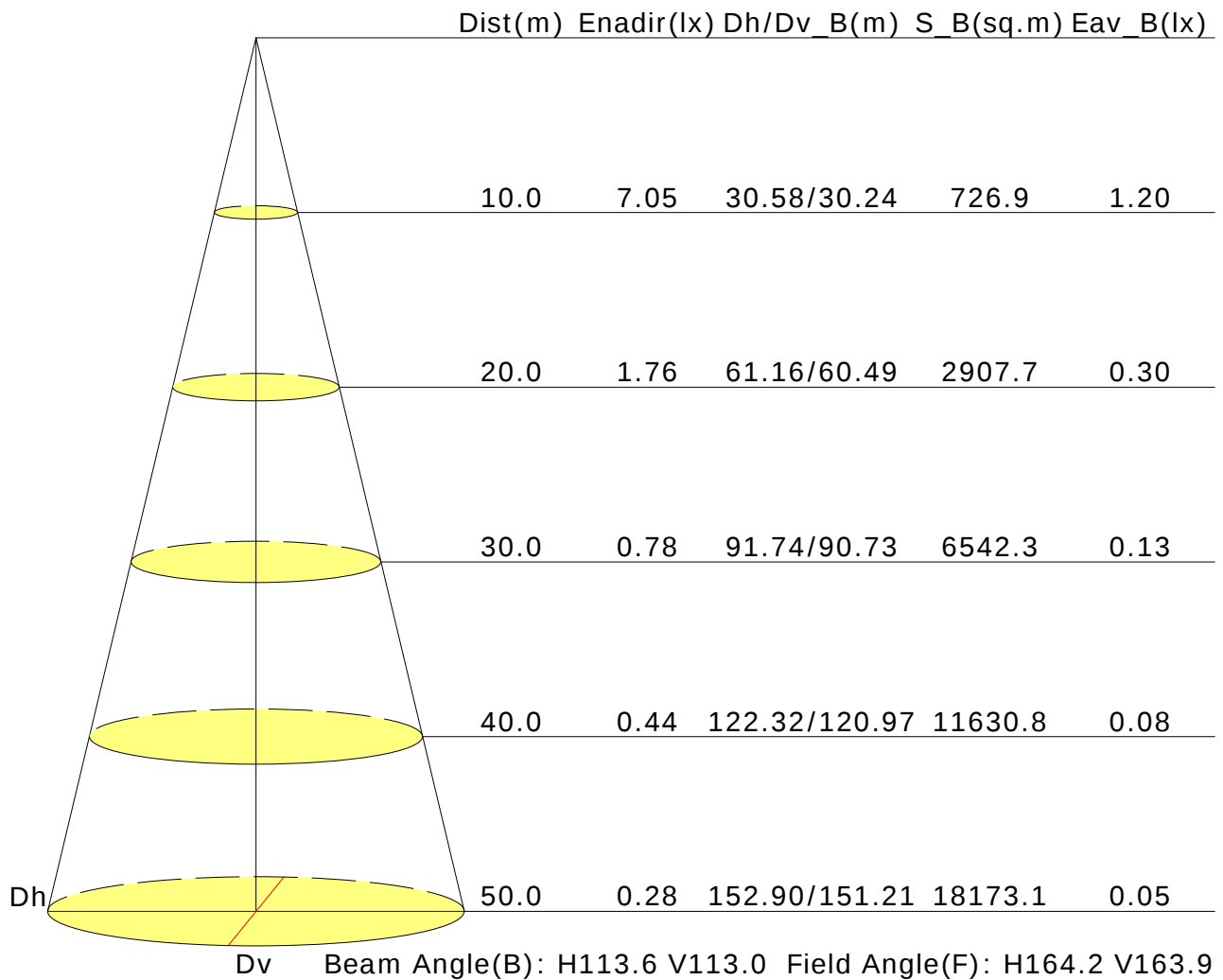
Test Device: GPM-1600L

Distance: 7.344 m

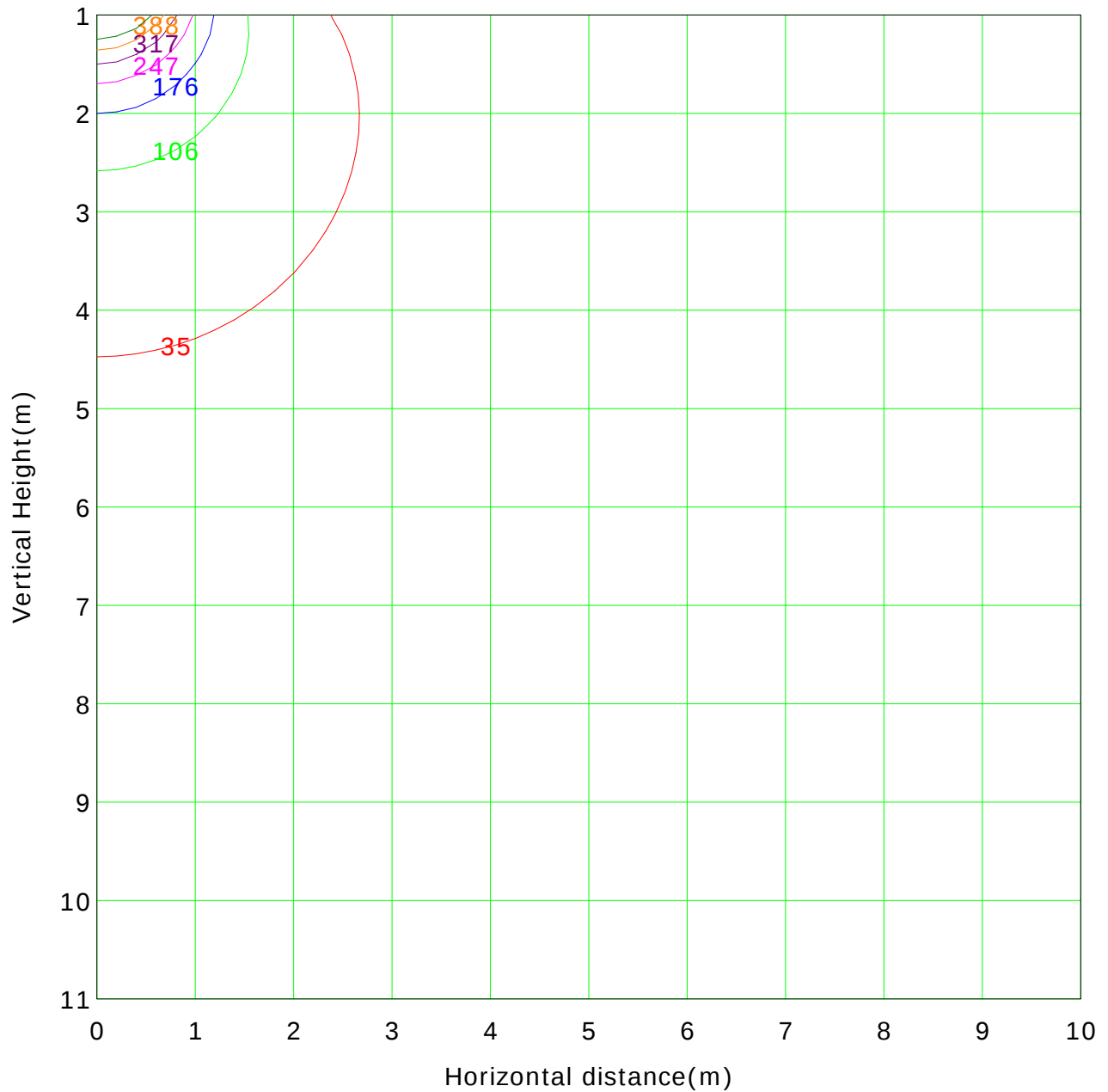
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 705.0 lx

(5%): 35.2 lx

(15%): 105.7 lx

(25%): 176.2 lx

(35%): 246.7 lx

(45%): 317.2 lx

(55%): 387.7 lx

(65%): 458.2 lx

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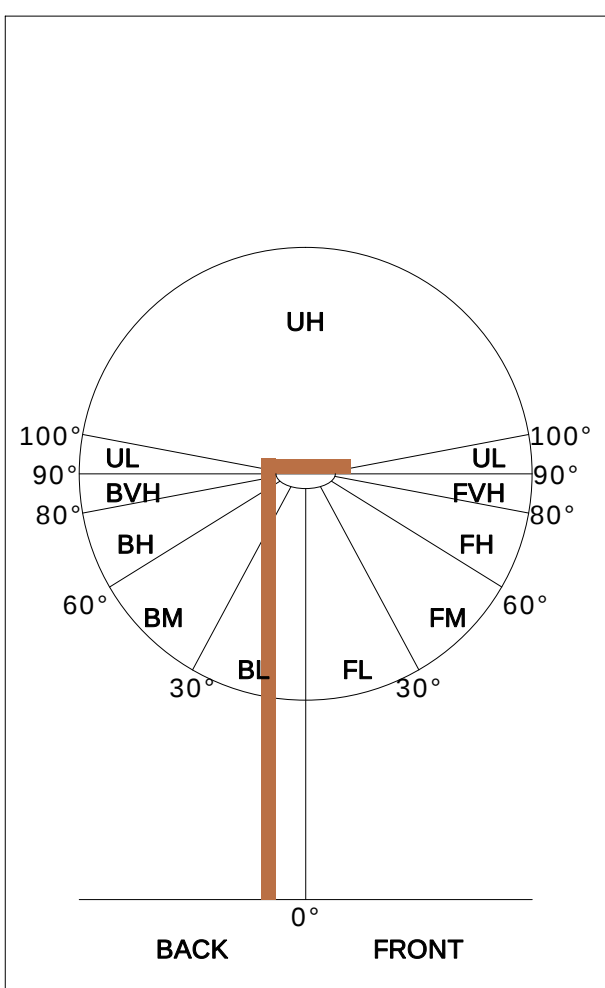
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1017	47.5
	FL (0°-30°)	273	12.8
	FM (30°-60°)	519	24.2
	FH (60°-80°)	199	9.3
	FVH (80°-90°)	26	1.2
	BACK LIGHT	1035	48.4
	BL (0°-30°)	274	12.8
	BM (30°-60°)	527	24.6
	BH (60°-80°)	206	9.6
	BVH (80°-90°)	28	1.3
	UP LIGHT	87	4.1
	UL (90°-100°)	14	0.7
	UH (100°-180°)	73	3.4
	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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