

Report No.:

Test Time: 2021-04-13 14:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: A17001-5000K

Lamp Description: 2835

Current: 0.157 A

Power Factor: 0.952

Lamp Catalog: LED

Voltage: 120.0 V

Power: 17.93 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1251.1 lm

Downward Ratio: 92%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 172.0, 171.6, 171.8, 172.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.2, 116.6, 116.9, 117.0

Luminaire Efficacy Rating (LER): 69.83

Max. Intensity: 374.62 cd

S/MH(C0/C180): 1.28

Total Rated Lamp Lumens: 1251.1 lm

Efficiency: 100%

Upward Ratio: 8%

Central Intensity: 371.92 cd

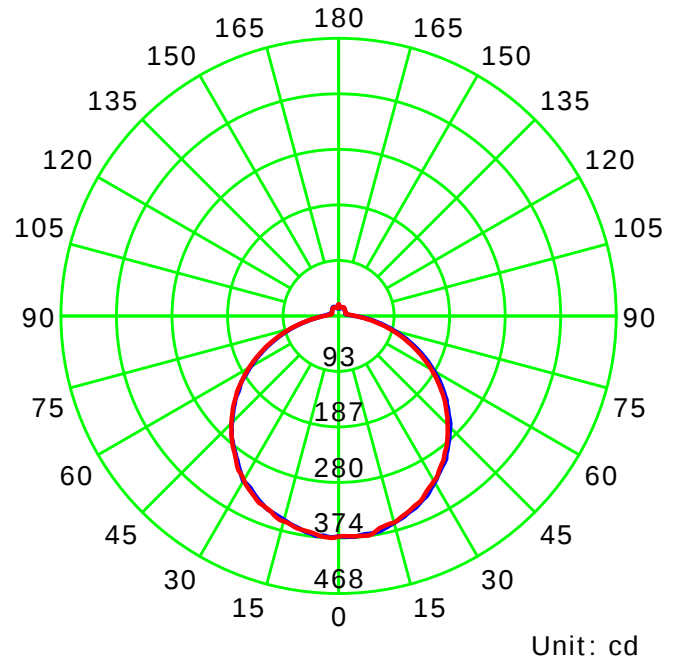
Pos of Max. Intensity: H270 V2

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:

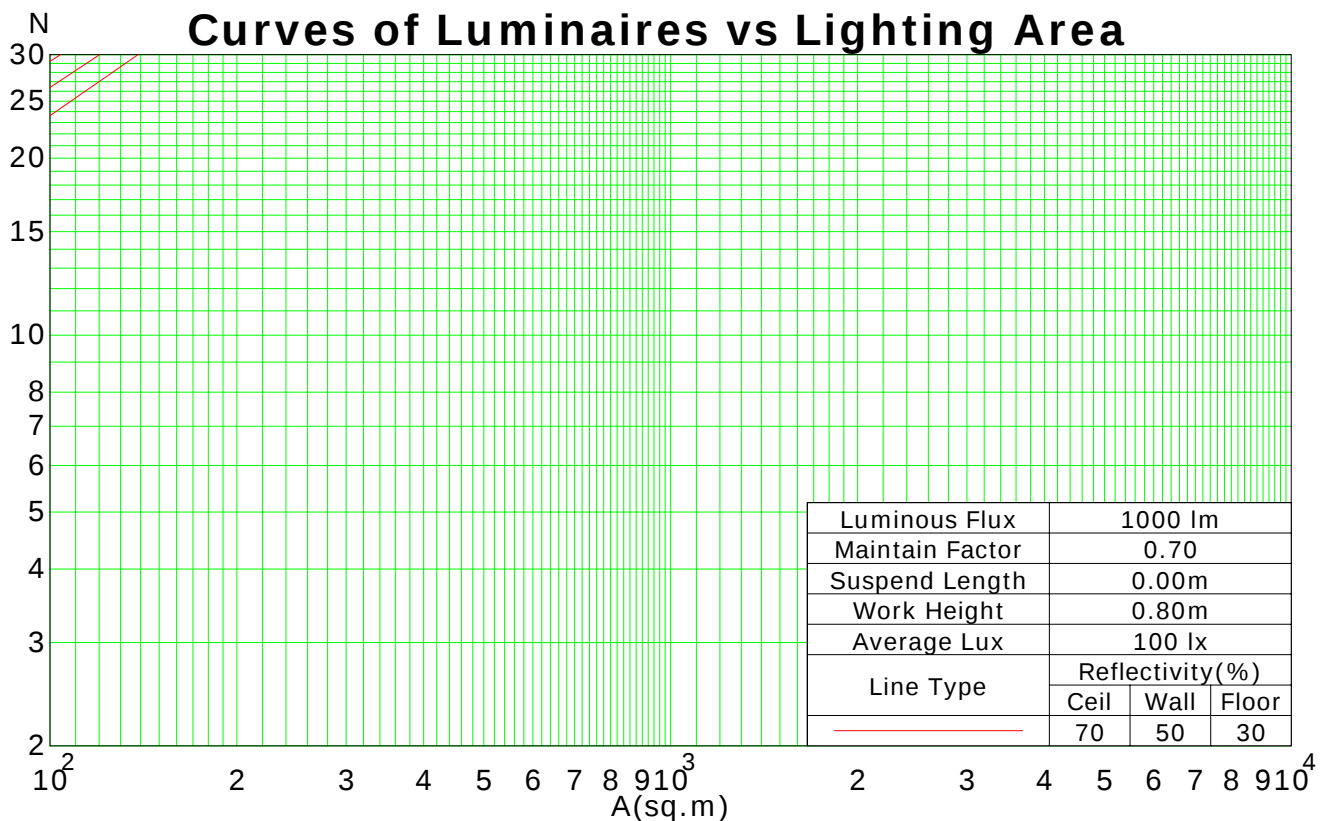
Coefficients Of Utilization - Zonal Cavity Method

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	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	106	101	96	92	102	98	94	90	92	89	86	87	84	82	82	80	78	75
2	96	87	80	74	93	85	78	73	80	74	70	75	71	67	71	68	64	62
3	87	76	68	61	84	74	66	60	70	63	58	66	61	56	63	58	54	52
4	80	67	58	51	77	66	57	51	62	55	49	59	53	48	56	50	46	44
5	73	60	51	44	70	58	50	43	55	48	42	53	46	41	50	44	40	38
6	67	54	45	38	65	53	44	38	50	42	37	48	41	36	45	40	35	33
7	62	49	40	34	60	48	39	33	45	38	32	43	37	32	41	35	31	29
8	58	44	36	30	56	43	35	30	41	34	29	40	33	28	38	32	28	26
9	54	41	32	27	52	40	32	27	38	31	26	36	30	25	35	29	25	23
10	51	37	30	24	49	37	29	24	35	28	24	34	27	23	32	27	23	21

Spacing Criteria (0-180): 1.28

Spacing Criteria (90-270): 1.28

Spacing Criteria (Diagonal): 1.40



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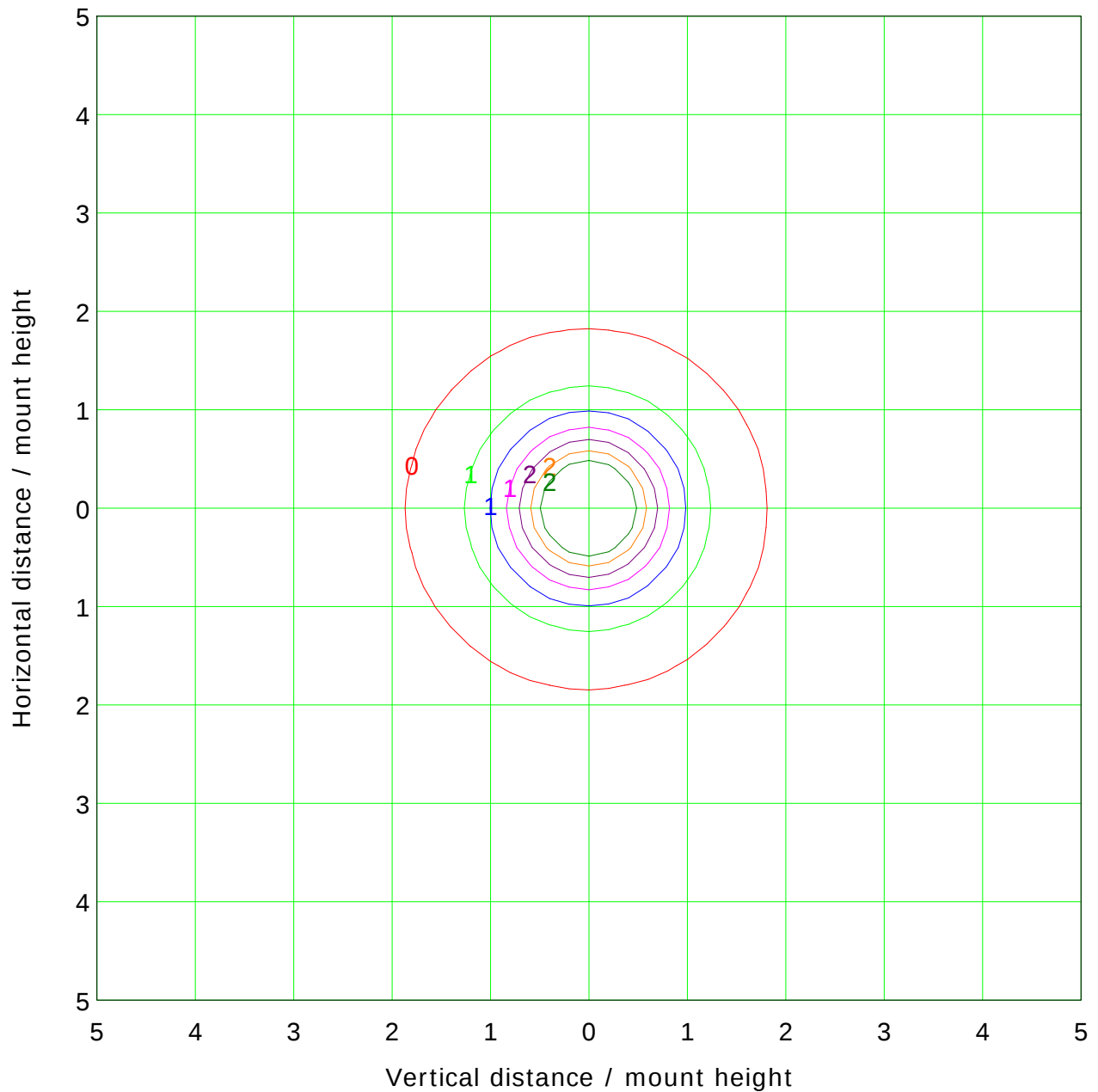
Test Device: GPM-1600L

Distance: 7.344 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 3.7 lx	
— (5%):	0.2 lx	— (15%):	0.6 lx
— (25%):	0.9 lx	— (35%):	1.3 lx
— (45%):	1.7 lx	— (55%):	2.1 lx
— (65%):	2.4 lx		

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Test Device: GPM-1600L

Distance: 7.344 m

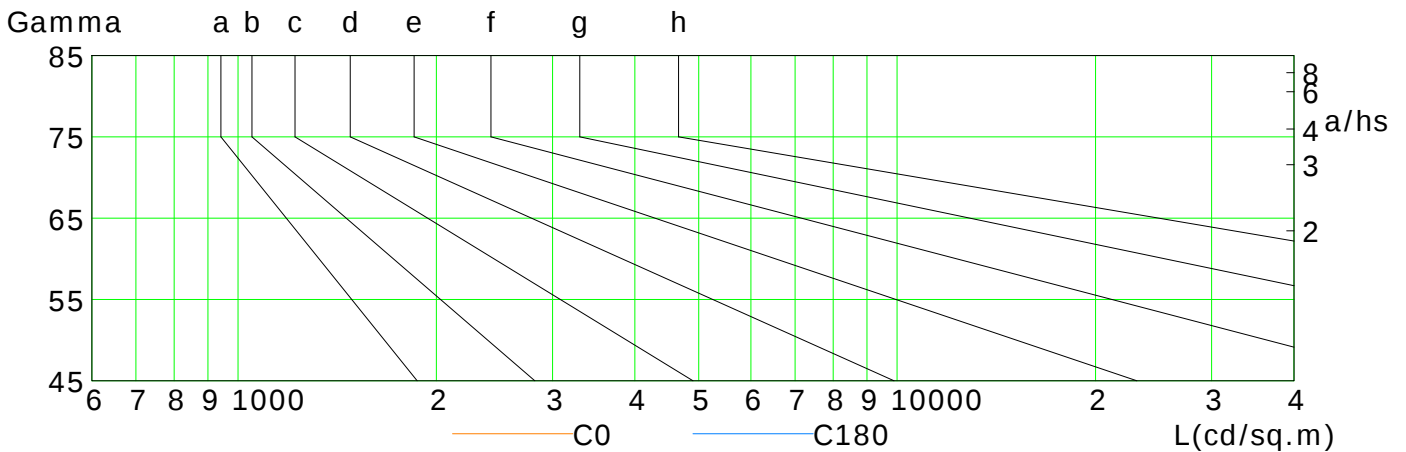
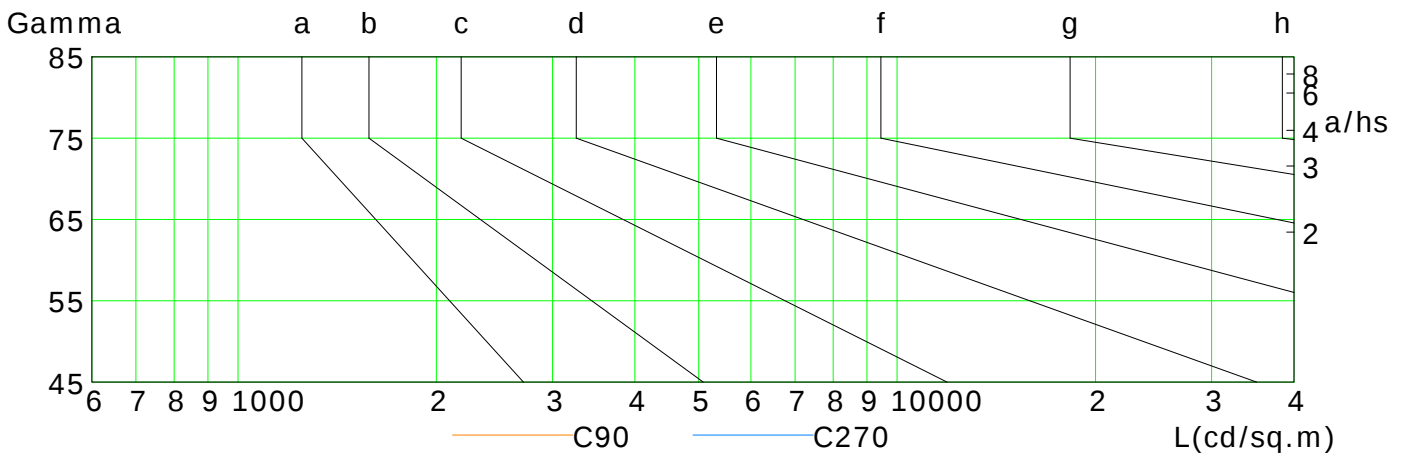
Humidity:

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	266	240	215	186	157	127	97	70	46
C90	260	235	209	181	151	122	93	65	43
C180	255	229	202	172	142	112	83	57	37
C270	256	231	203	175	145	114	86	59	37

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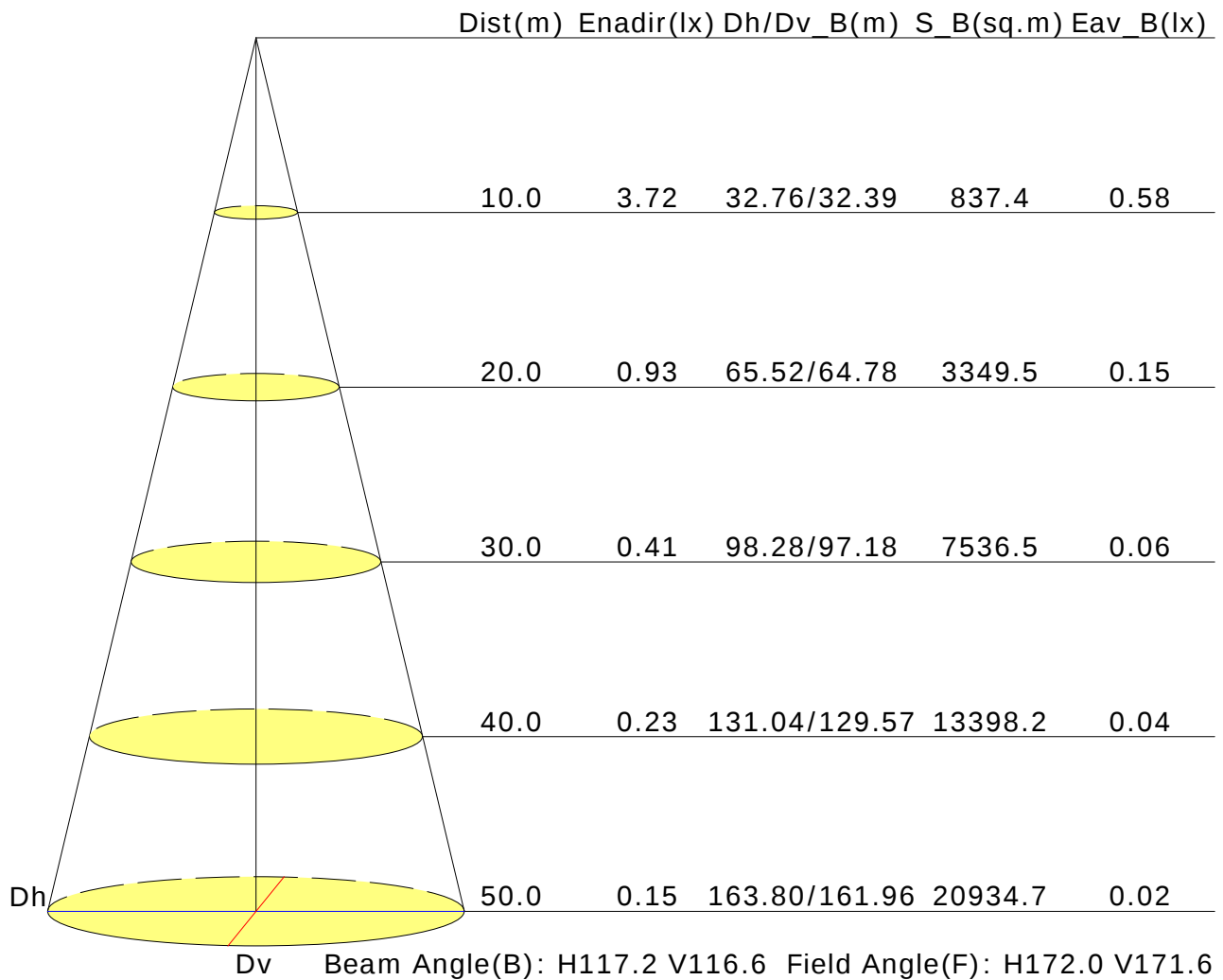
Test Device: GPM-1600L

Distance: 7.344 m

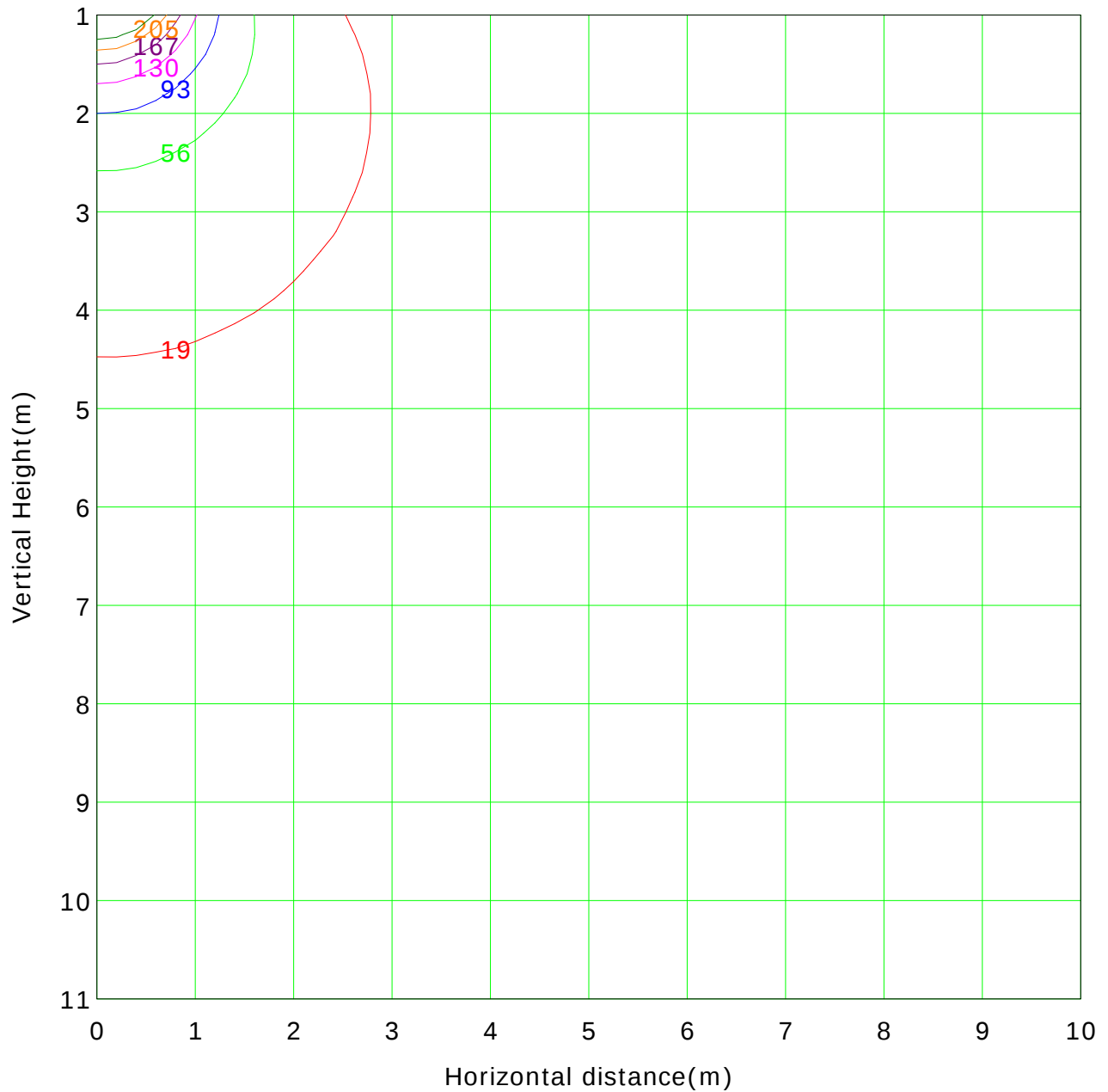
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



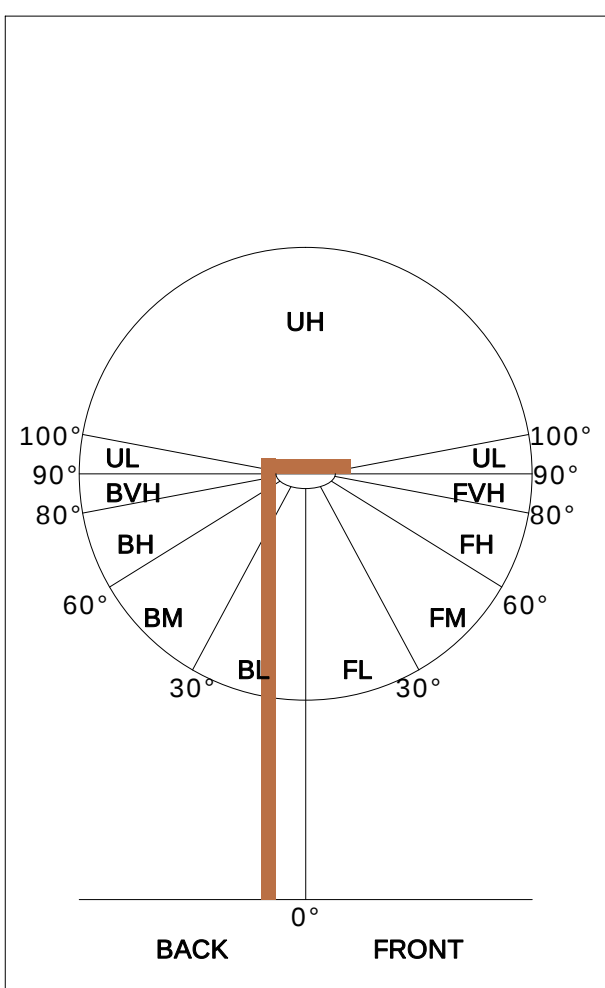
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 371.9 lx

(5%): 18.6 lx	(15%): 55.8 lx
(25%): 93.0 lx	(35%): 130.2 lx
(45%): 167.4 lx	(55%): 204.6 lx
(65%): 241.7 lx	

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Test Lab:
Test Type: TYPE C
Temperature:
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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	581	46.5
	FL (0°-30°)	146	11.7
	FM (30°-60°)	288	23.1
	FH (60°-80°)	123	9.8
	FVH (80°-90°)	24	1.9
	BACK LIGHT	573	45.8
	BL (0°-30°)	146	11.7
	BM (30°-60°)	286	22.8
	BH (60°-80°)	119	9.5
	BVH (80°-90°)	22	1.8
	UP LIGHT	96	7.7
	UL (90°-100°)	22	1.7
	UH (100°-180°)	74	6.0
	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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