

Report No.: 1

Test Time: 2016/6/17 14:08

Luminaire Property

Luminaire Manufacturer:

Luminaire Category: 4560-6

Luminaire Description: AC 85-265V 36W 2520lm 6000K

Number of Lamps: 1

Lumens per Lamp: 3057.5 lm

Luminous Length (mm): 0 mm

Luminous Width (mm): 0 mm

Luminous Height (mm): 0 mm

Voltage: 230 V

Current: 0.170 A

Power: 35.82 W

Power Factor: 0.959

Photometric Results

CIE Class: Direct

Measurement Flux: 3057.5 lm

Downward Ratio: 96.54%

Total Rated Lamp Lumens: 3057.5 lm

Efficiency: 100.00%

Upward Ratio: 3.46%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 190.0, 159.5, 176.4, 174.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 117.2, 109.0, 112.8, 112.4

Luminaire Efficacy Rating (LER): 85.41

Central Intensity: 983.64 cd

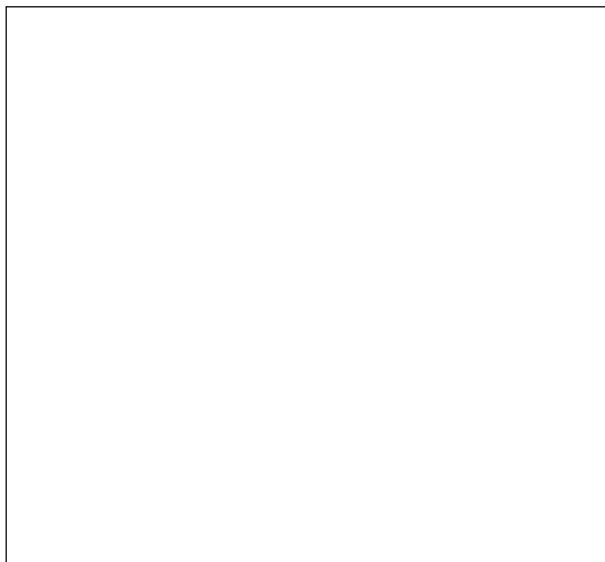
Max. Intensity: 999.53 cd

Pos of Max. Intensity: H90 V0

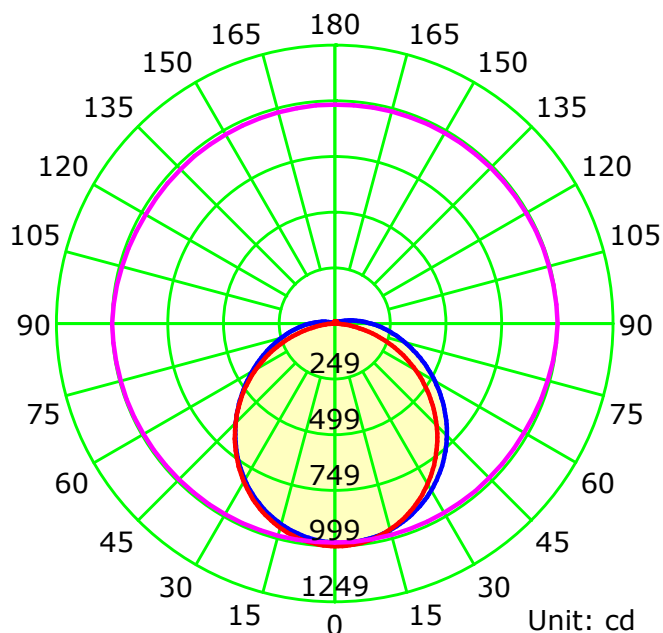
S/MH(C0/C180): 1.27

S/MH(C90/C270): 1.23

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 30.0

Test Lab: Inventfine instrument

Test Type: TYPE C

Temperature: 28

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1800B

Distance: 8.062 m

Humidity: 60

Inspector:

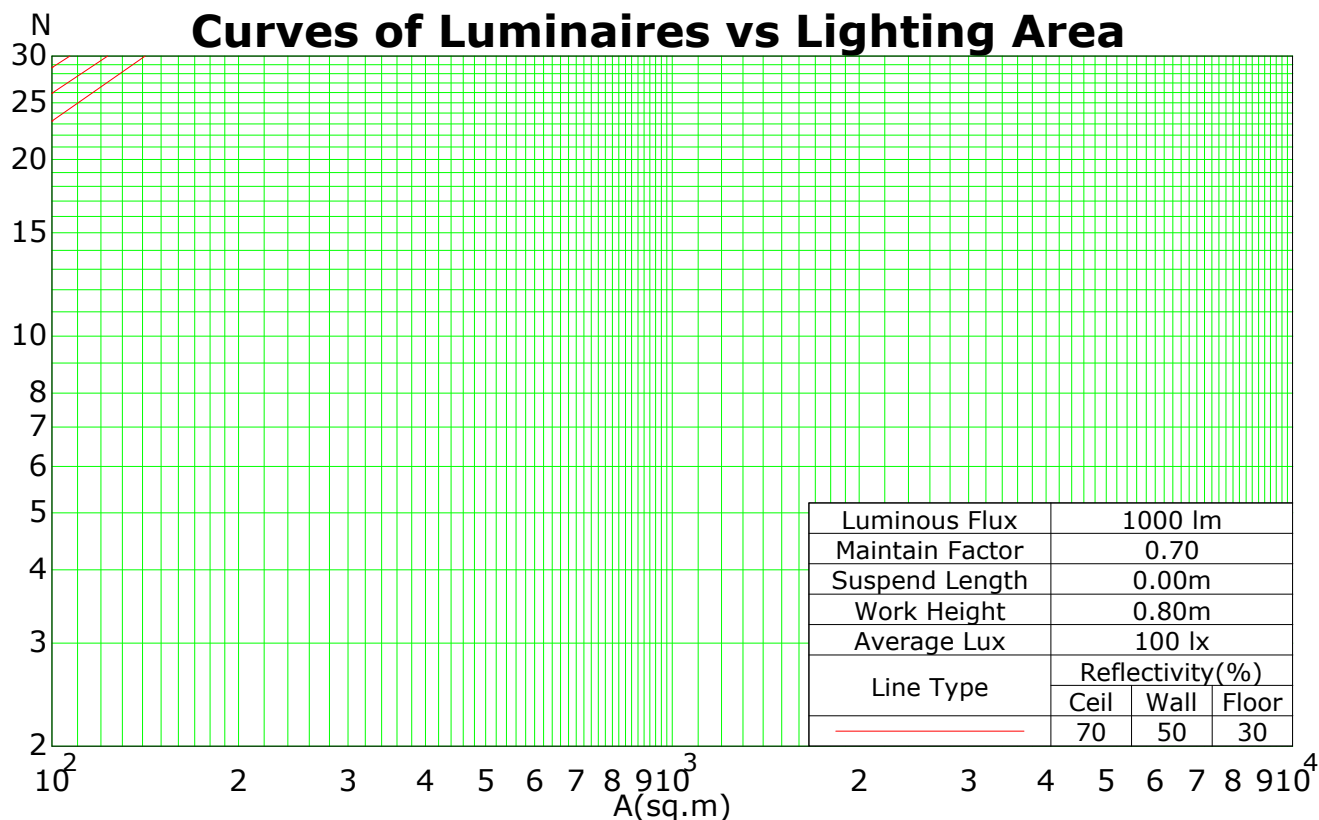
Coefficients Of Utilization - Zonal Cavity Method

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	104	104	104	99	99	99	97
1	107	101	97	92	104	99	95	91	94	90	87	89	86	84	85	83	81	78
2	97	88	81	75	94	86	79	73	82	76	71	78	73	69	74	70	67	64
3	88	77	68	62	85	75	67	61	72	65	59	68	63	58	65	60	56	54
4	80	68	59	52	78	66	58	51	63	56	50	61	54	49	58	53	48	46
5	74	61	51	45	71	59	51	44	57	49	43	54	48	43	52	46	42	40
6	68	55	45	39	66	53	45	39	51	44	38	49	42	37	47	41	37	35
7	63	49	41	34	61	48	40	34	47	39	34	45	38	33	43	37	33	30
8	59	45	36	30	57	44	36	30	43	35	30	41	34	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	24
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

Spacing Criteria (0-180): 1.27

Spacing Criteria (90-270): 1.23

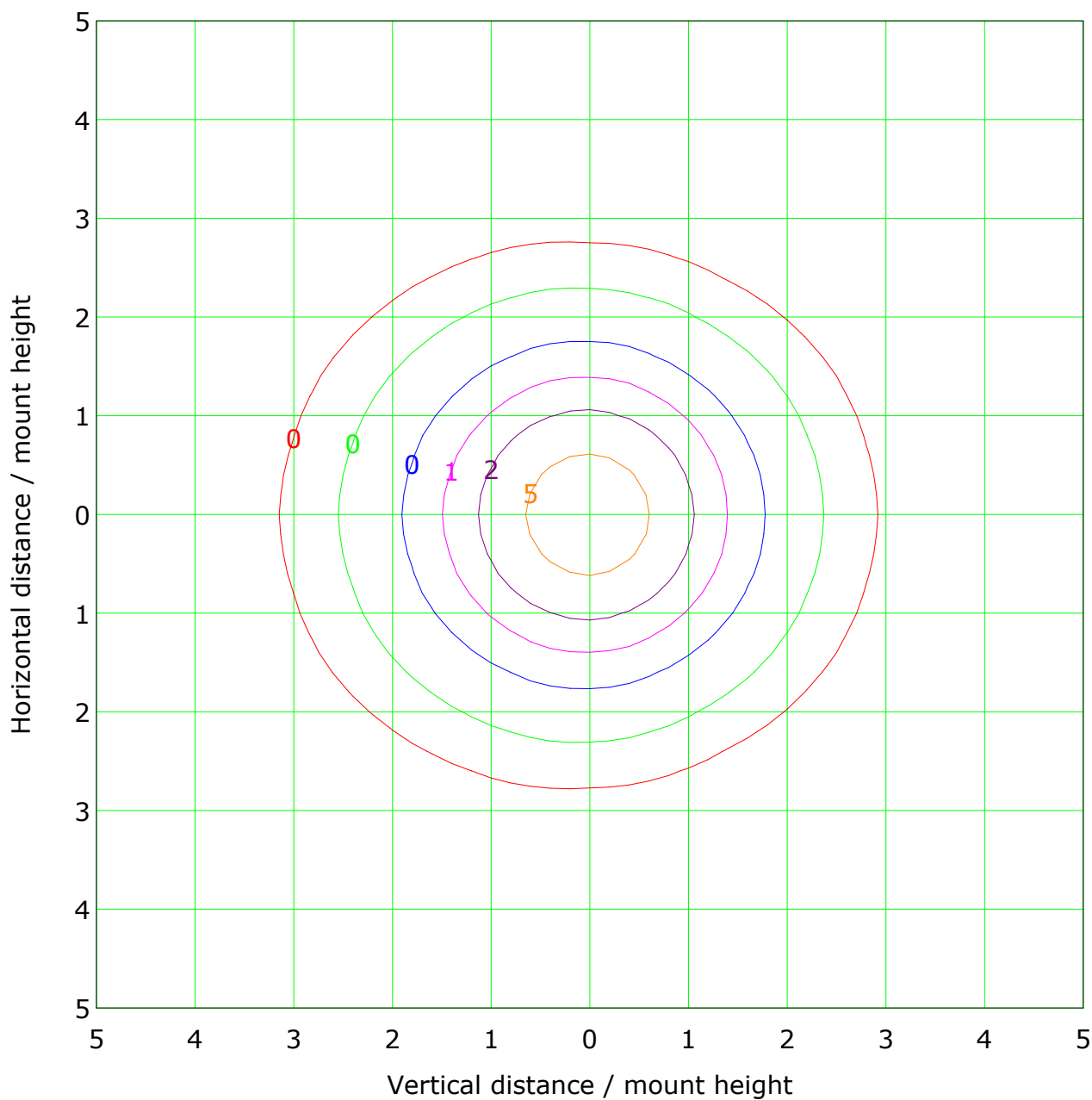
Spacing Criteria (Diagonal): 1.37



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Temperature: 28
Operator:

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Test Device: GPM-1800B
Distance: 8.062 m
Humidity: 60
Inspector:

IsoLux Plot



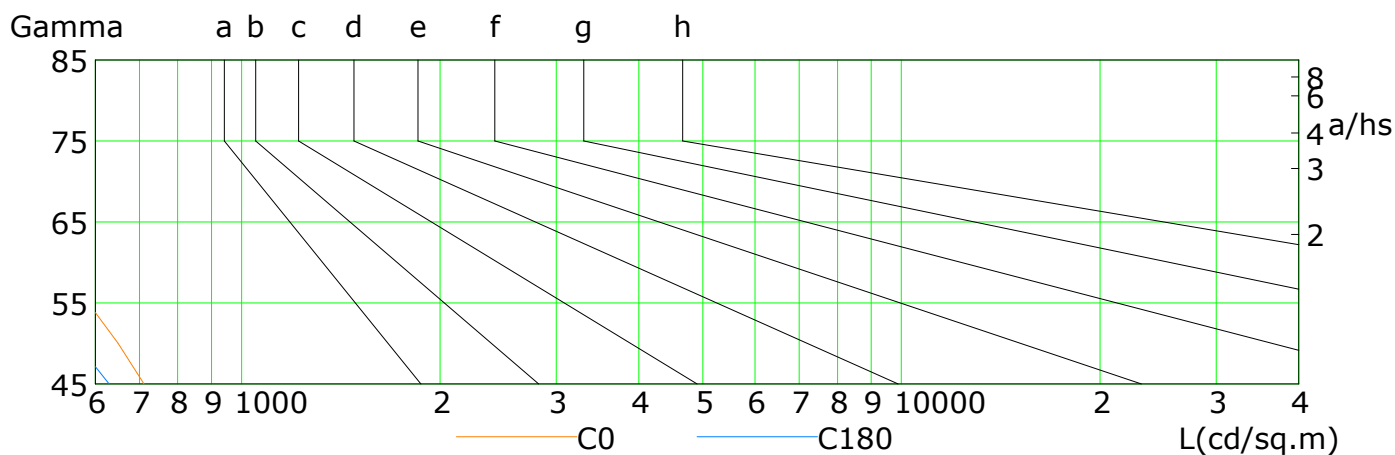
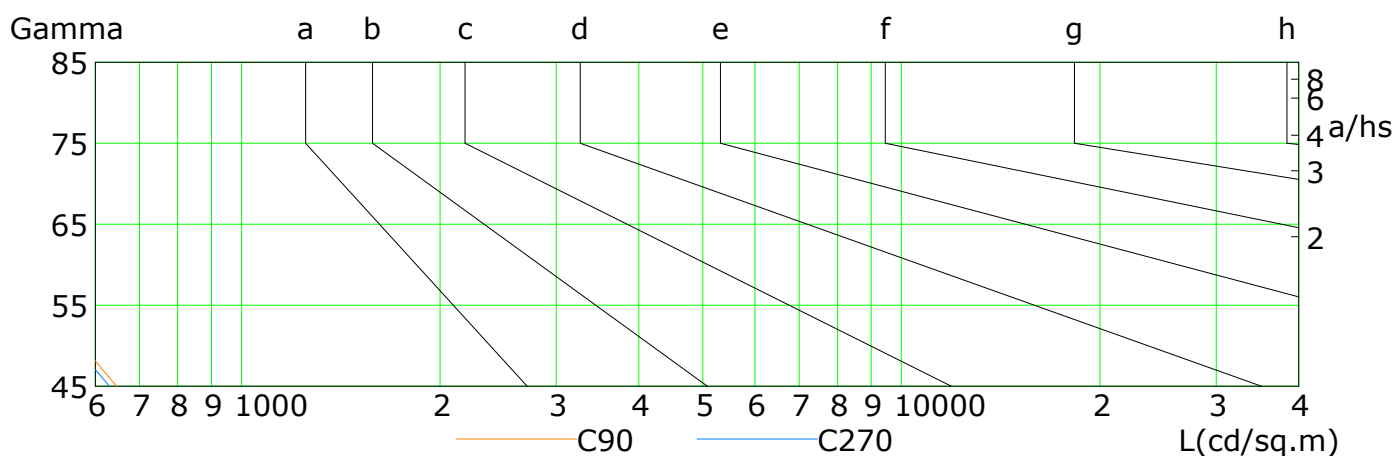
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Test Type: TYPE C
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Lum Limit Curve

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

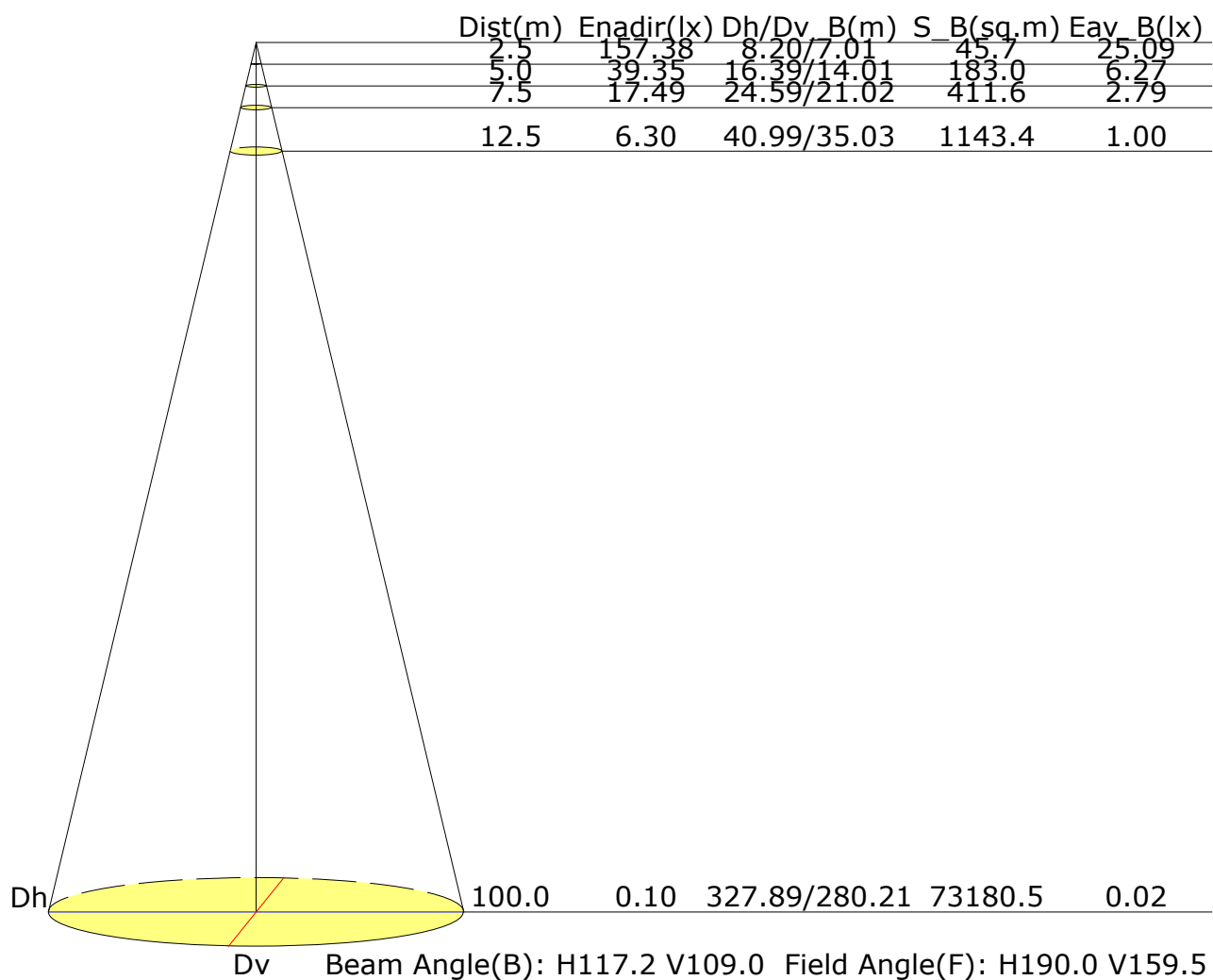


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	712	650	585	520	453	388	325	266	213
C90	646	574	498	420	340	257	176	99	35
C180	630	563	495	429	365	304	249	198	153
C270	631	560	485	408	329	249	169	94	33

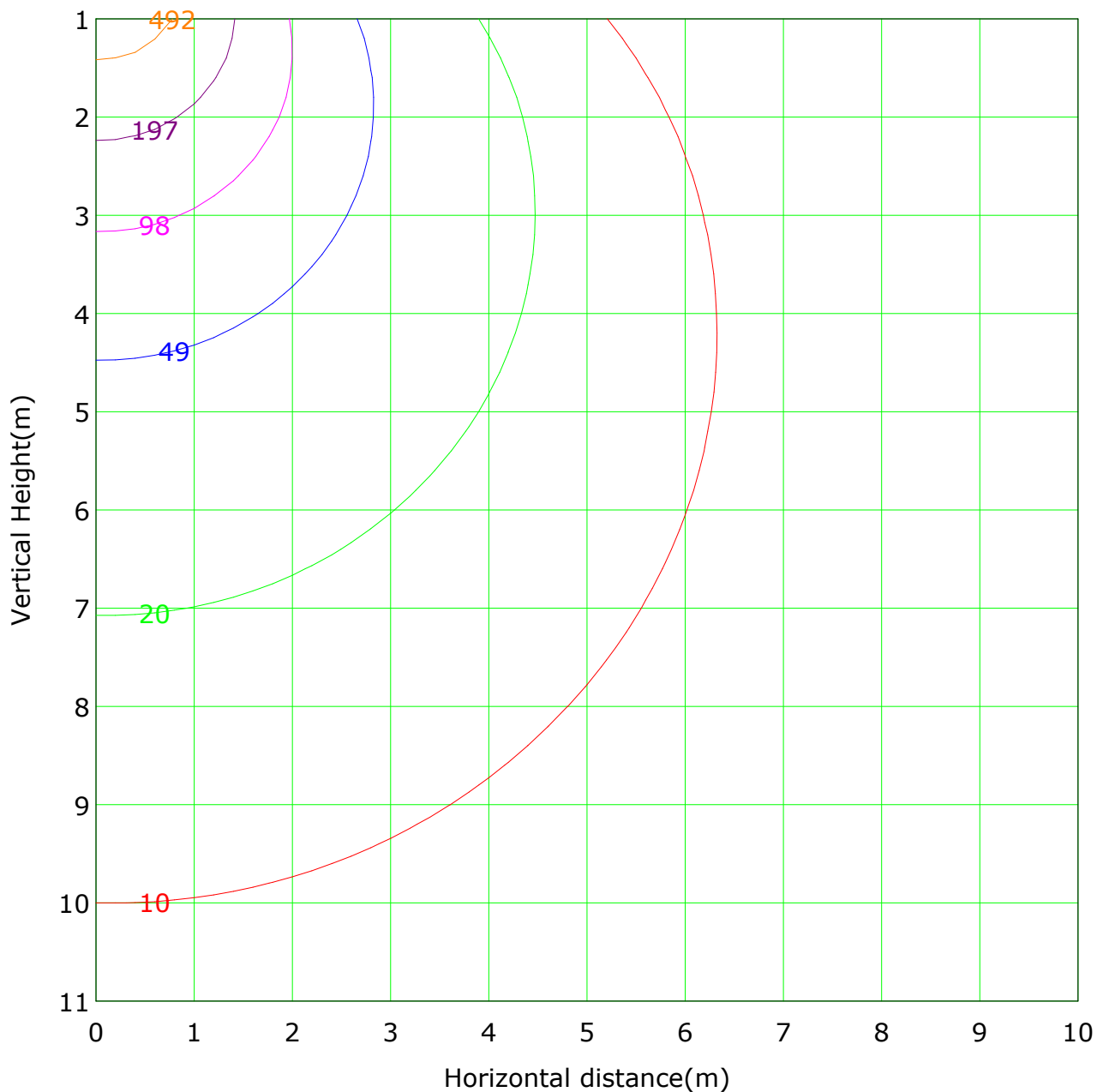
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Test Type: TYPE C
Temperature: 28
Operator:

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Test Device: GPM-1800B
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Humidity: 60
Inspector:

Illuminance at a Distance



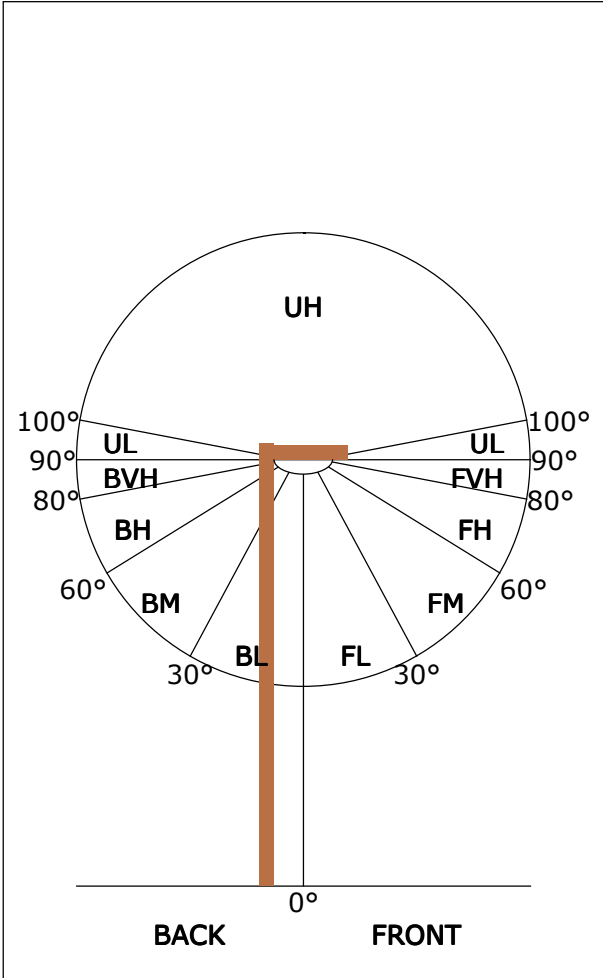
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 983.6 lx

— (1%): 9.8 lx	— (2%): 19.7 lx
— (5%): 49.2 lx	— (10%): 98.4 lx
— (20%): 196.7 lx	— (50%): 491.8 lx
— (100%): 983.6 lx	

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1482	48.5
	FL (0°-30°)	383	12.5
	FM (30°-60°)	726	23.8
	FH (60°-80°)	307	10.1
	FVH (80°-90°)	66	2.2
	BACK LIGHT	1469	48.1
	BL (0°-30°)	381	12.5
	BM (30°-60°)	720	23.5
	BH (60°-80°)	303	9.9
	BVH (80°-90°)	65	2.1
	UP LIGHT	106	3.5
	UL (90°-100°)	57	1.9
	UH (100°-180°)	49	1.6
	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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