

Report No.:

Test Time: 2019-07-30 11:09

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 300719-POSTE PSA 2100 2 PETALAS 48W 3840lm 3000k

Lamp Catalog: LED DRIVER 18-24W SAIDA 54-86V 300mA (2X)

Number of Lamps: 01

Lumens per Lamp: 3840

Luminous Length (mm): -250(2X)

Luminous Width (mm): -215(2X)

Luminous Height (mm): -

Voltage: 227.1 V

Current: 0.330 A

Power: 47.74 W

Power Factor: 0.636

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 3840.0 lm

Measurement Flux: 3284.4 lm

Efficiency: 85.53%

Downward Ratio: 85.53%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 165.4, 165.0, 165.0, 165.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 110.9, 115.8, 113.2, 113.4

Luminaire Efficacy Rating (LER): 68.85

Central Intensity: 293.09 cd/klm

Max. Intensity: 293.1 cd/klm

Pos of Max. Intensity: H0 V0

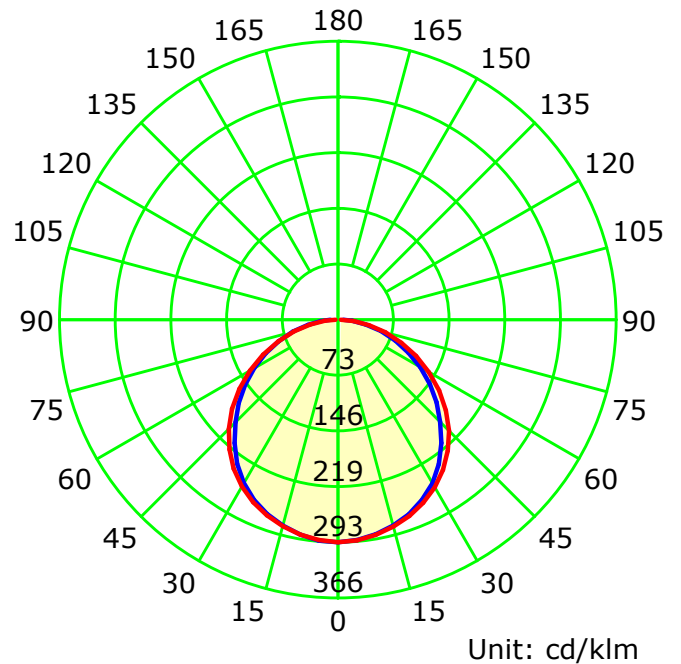
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.29

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 15.0

Test Lab: Alloy

Test Type: TYPE C

Temperature: 19°

Operator: FELIPE

Gamma Plane (°):0.0-90.0:5.0

Test Device: LSG-1700B

Distance: 6.549 m

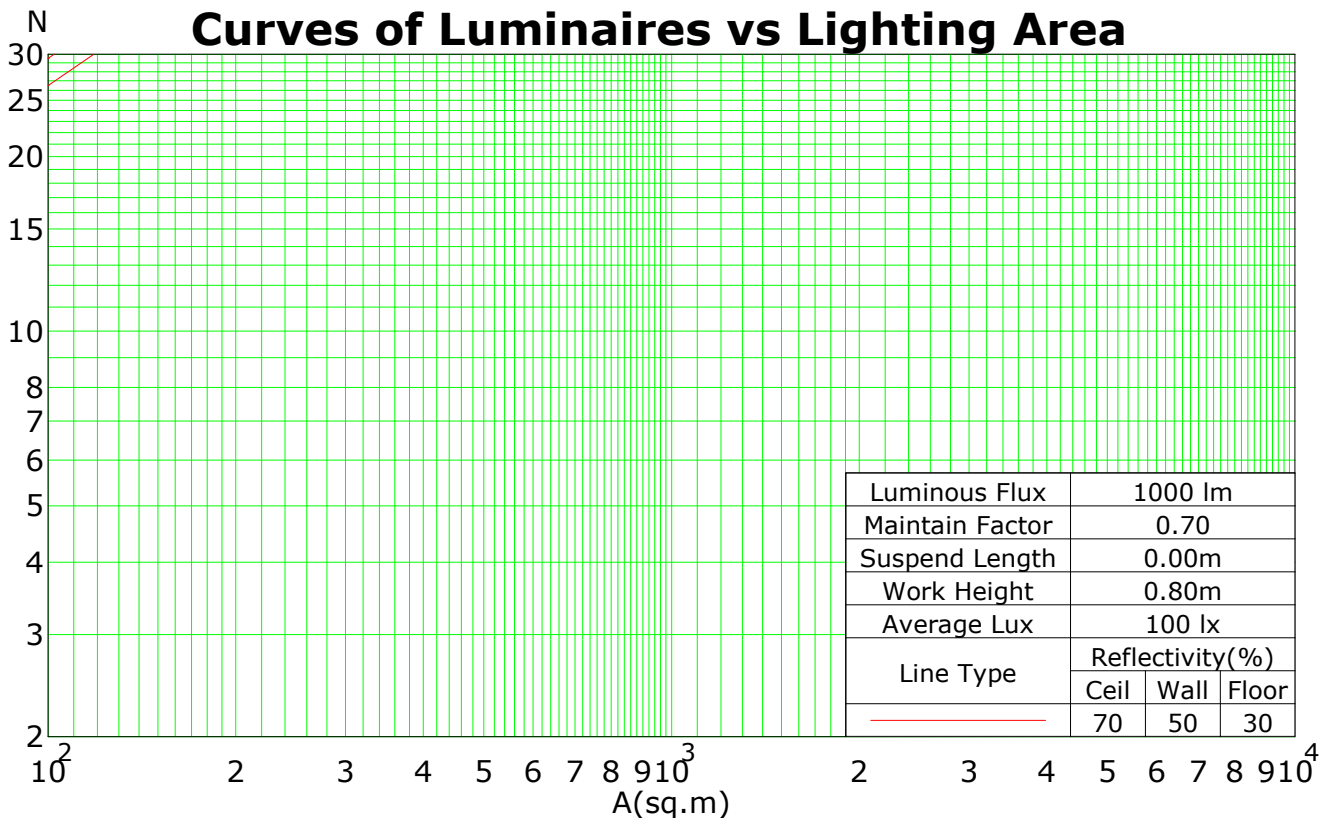
Humidity: 67%

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	102	102	102	102	99	99	99	99	95	95	95	91	91	91	87	87	87	86
1	93	88	84	81	90	86	83	80	83	80	77	79	77	75	76	74	73	71
2	84	77	71	66	82	75	70	65	72	67	63	69	65	62	67	63	60	59
3	76	67	60	54	74	66	59	54	63	58	53	61	56	52	59	55	51	49
4	70	59	52	46	68	58	51	46	56	50	45	54	49	44	52	48	44	42
5	64	53	45	39	62	52	45	39	50	44	39	49	43	38	47	42	38	36
6	59	48	40	34	58	47	40	34	45	39	34	44	38	34	43	37	33	32
7	55	43	36	30	54	43	35	30	41	35	30	40	34	30	39	34	30	28
8	51	39	32	27	50	39	32	27	38	31	27	37	31	27	36	30	26	25
9	48	36	29	24	47	36	29	24	35	28	24	34	28	24	33	28	24	22
10	45	33	27	22	44	33	26	22	32	26	22	31	26	22	31	25	22	20

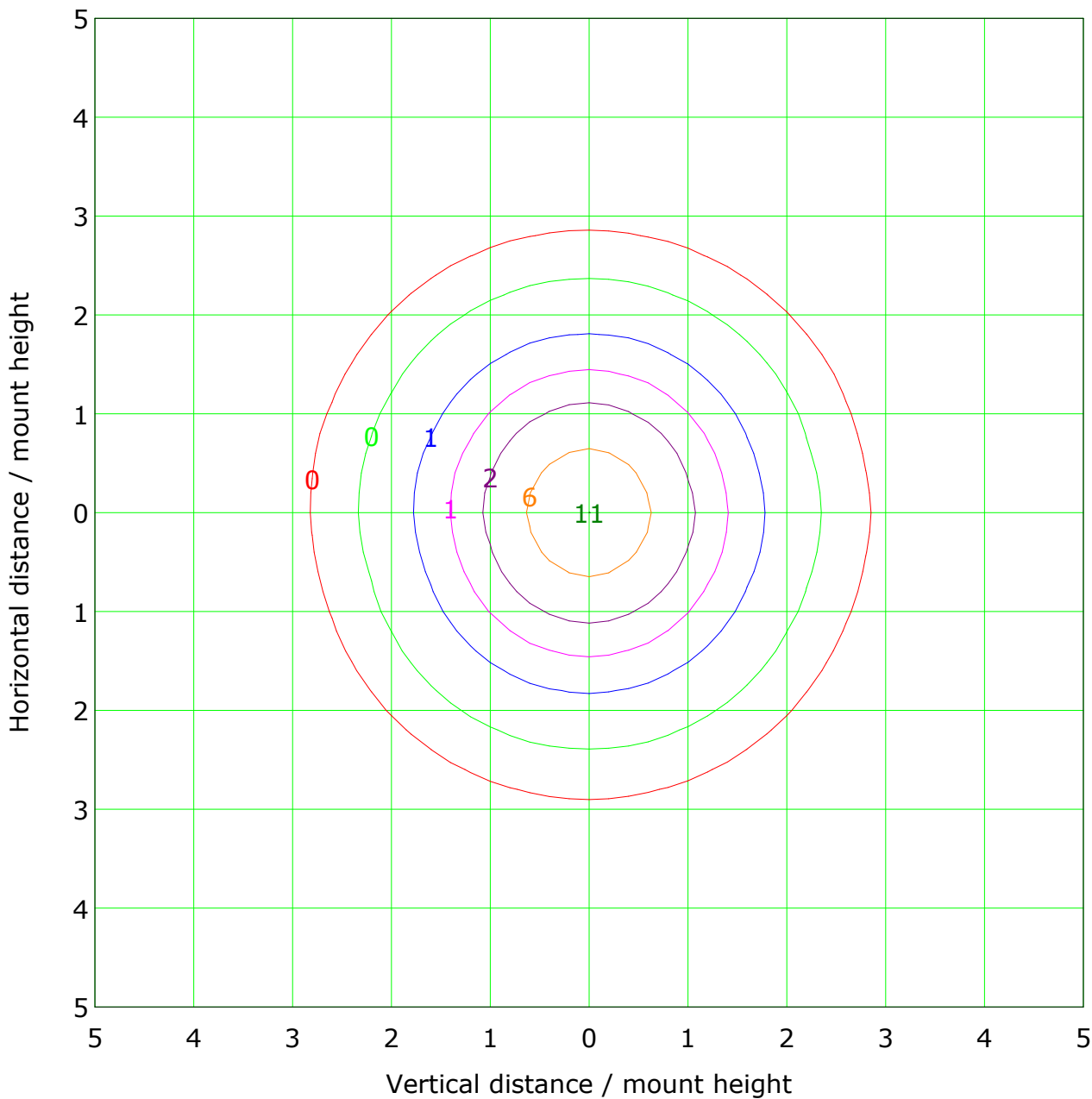
Spacing Criteria (0-180): 1.26
 Spacing Criteria (90-270): 1.29
 Spacing Criteria (Diagonal): 1.37



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IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 11.3 lx	
— (1%):	0.1 lx	— (2%):	0.2 lx
— (5%):	0.6 lx	— (10%):	1.1 lx
— (20%):	2.3 lx	— (50%):	5.6 lx
— (100%):	11.3 lx		

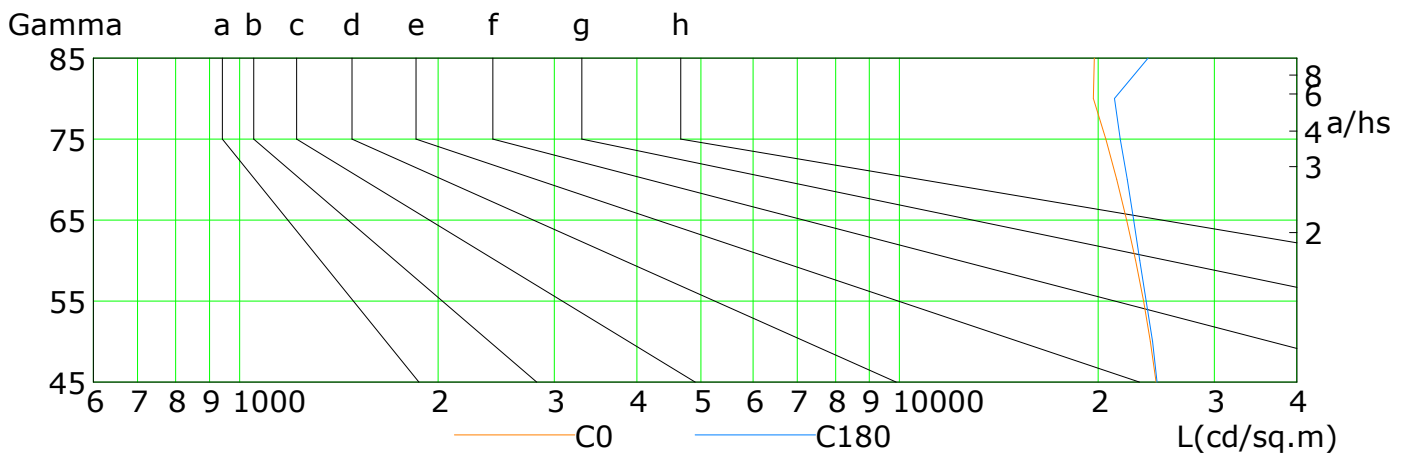
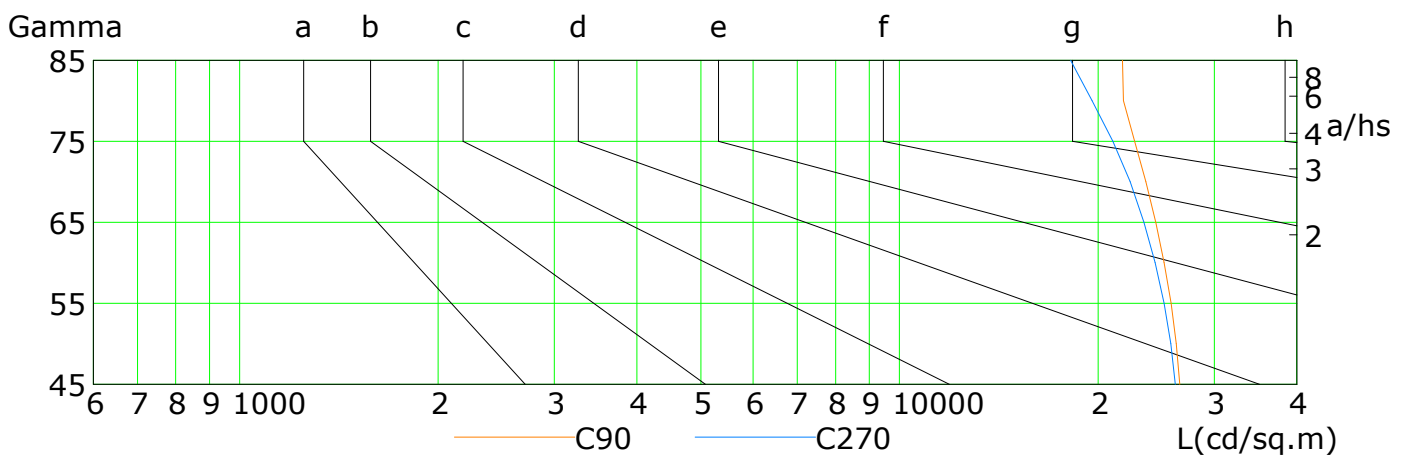
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Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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	24483	24007	23429	22798	22091	21335	20549	19671	19746
C90	26601	26277	25802	25183	24443	23615	22726	21848	21777
C180	24553	24173	23662	23135	22640	22153	21607	21180	23798
C270	26172	25785	25170	24392	23460	22361	21062	19583	18167

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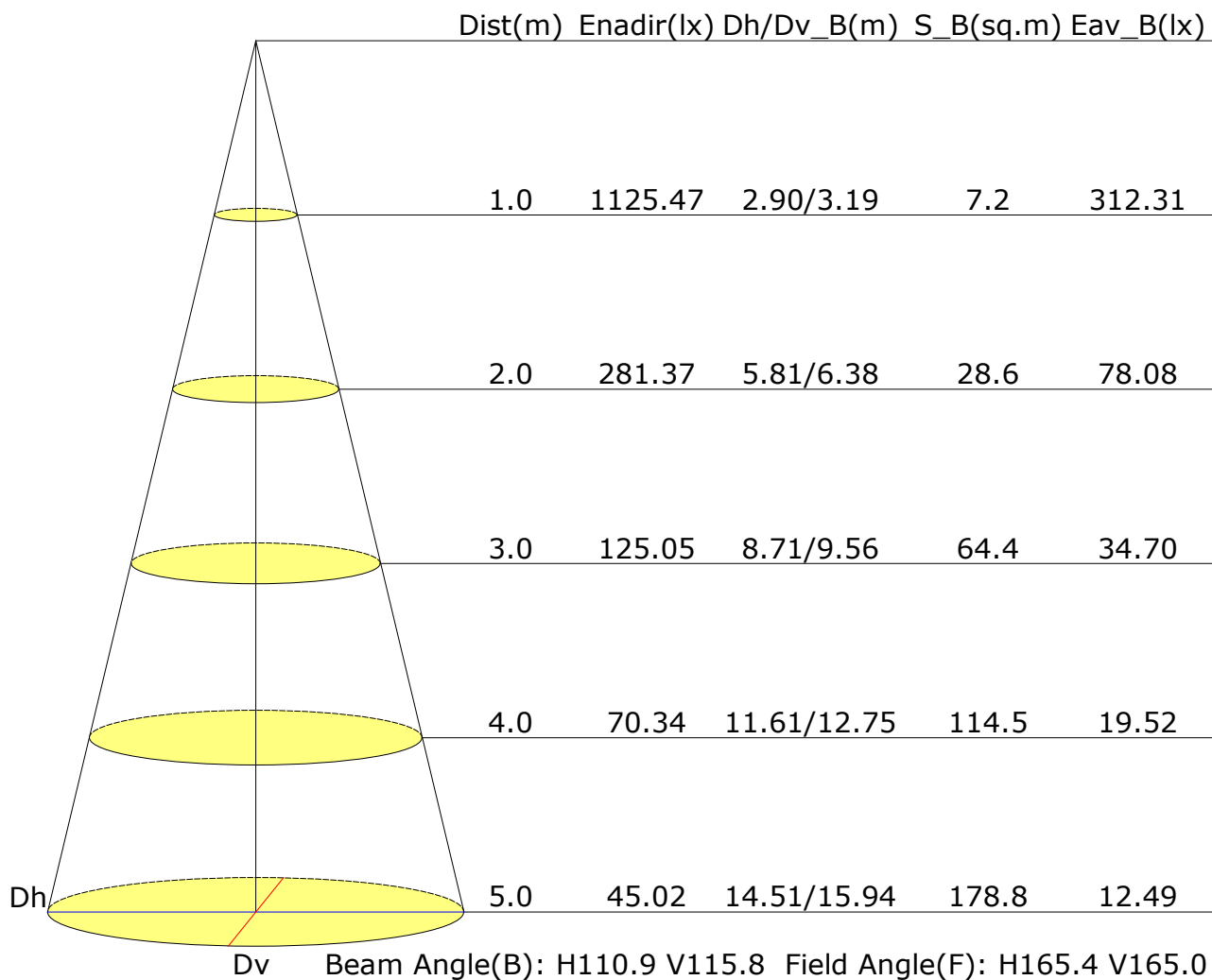
Test Device: LSG-1700B

Distance: 6.549 m

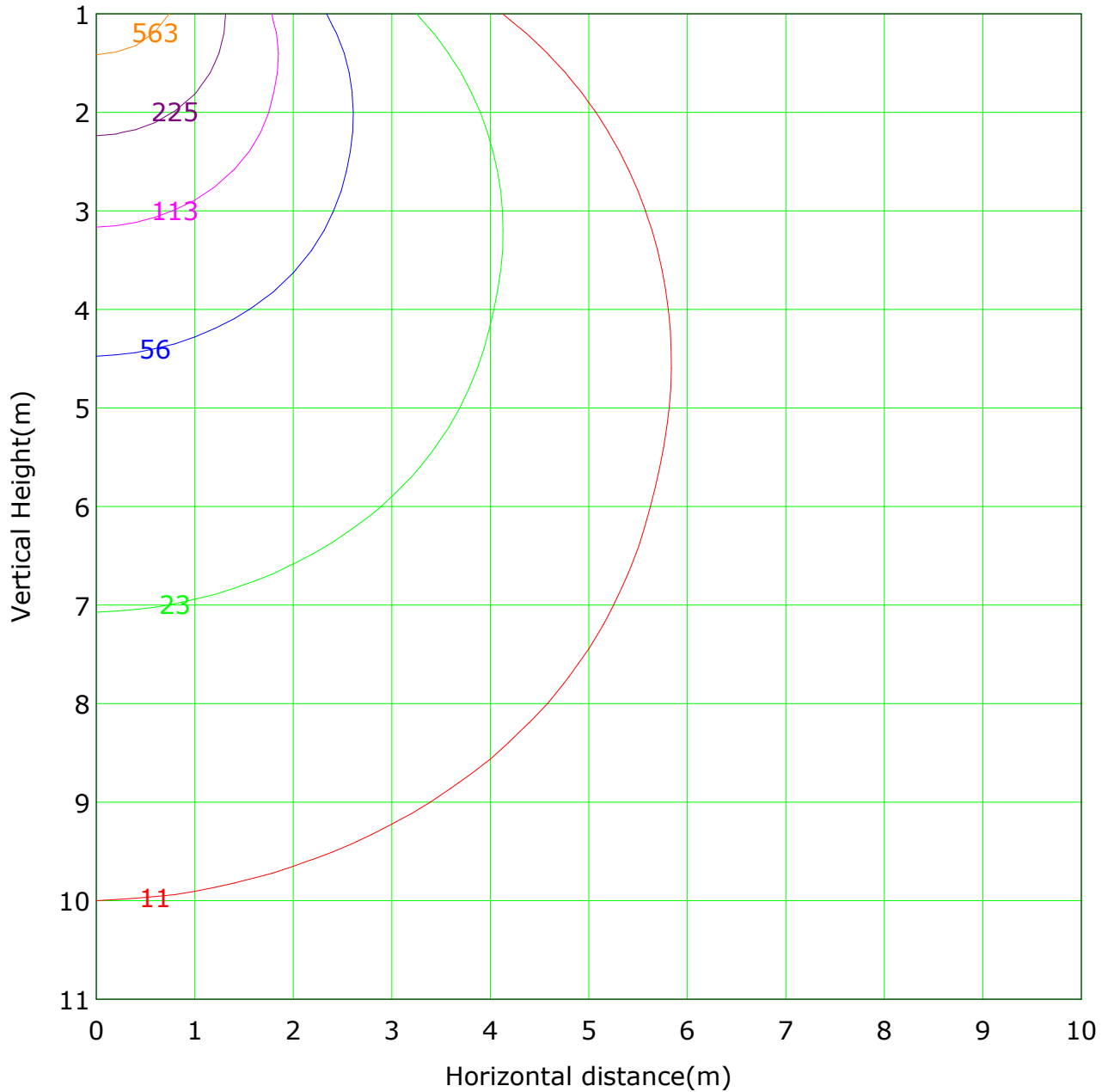
Humidity: 67%

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1125.5 lx

— (1%): 11.3 lx	— (2%): 22.5 lx
— (5%): 56.3 lx	— (10%): 112.5 lx
— (20%): 225.1 lx	— (50%): 562.7 lx
— (100%):1125.5 lx	

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Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1647	42.9
	FL (0°-30°)	437	11.4
	FM (30°-60°)	833	21.7
	FH (60°-80°)	330	8.6
	FVH (80°-90°)	46	1.2
	BACK LIGHT	1638	42.7
	BL (0°-30°)	437	11.4
	BM (30°-60°)	832	21.7
	BH (60°-80°)	325	8.5
	BVH (80°-90°)	44	1.2
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	556	14.5

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G1

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