

Report No.: 090818

Test Time: 2018-08-10 09:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 100818-POSTE FLAT LED 18W 3000K 1440lm

Lamp Catalog: LED DRIVER model: 12-18W 300mA 36-65V (LED DRIVER)

Lamp Description: 18W (LED DRIVER)

Number of Lamps: 1

Lumens per Lamp: 1440lm

Luminous Length (mm): -170

Luminous Width (mm): -140

Luminous Height (mm): 0

Voltage: 226.9 V

Current: 0.133 A

Power: 17.56 W

Power Factor: 0.583

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1440.0 lm

Measurement Flux: 1044.7 lm

Efficiency: 72.55%

Downward Ratio: 72.55%

Upward Ratio: 0.00%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 166.0, 163.2, 164.5, 165.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.5, 100.5, 107.9, 107.4

Luminaire Efficacy Rating (LER): 59.54

Central Intensity: 261.53 cd/klm

Max. Intensity: 261.53 cd/klm

Pos of Max. Intensity: H0 V0

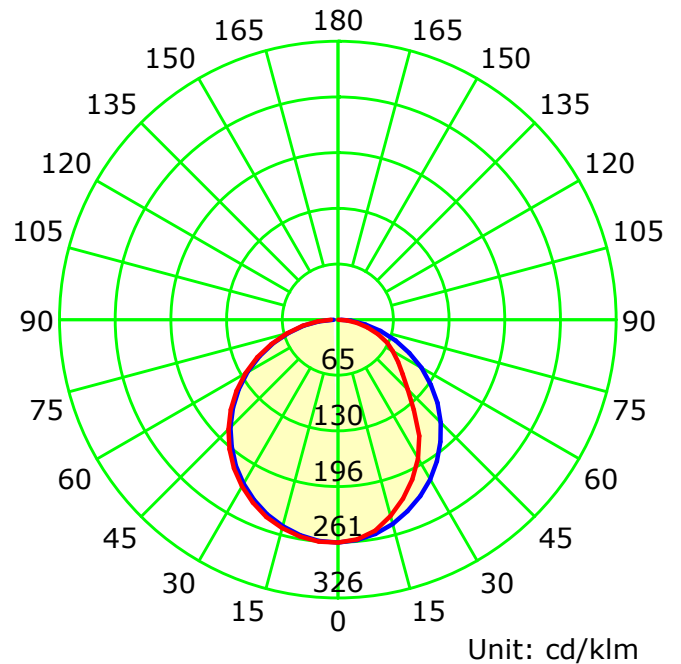
S/MH(C0/C180): 1.25

S/MH(C90/C270): 1.18

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: 22°

Operator: FELIPE

Gamma Plane (°):0.0-90.0:5.0

Test Device: LSG-1700B

Distance: 6.549 m

Humidity: 54%

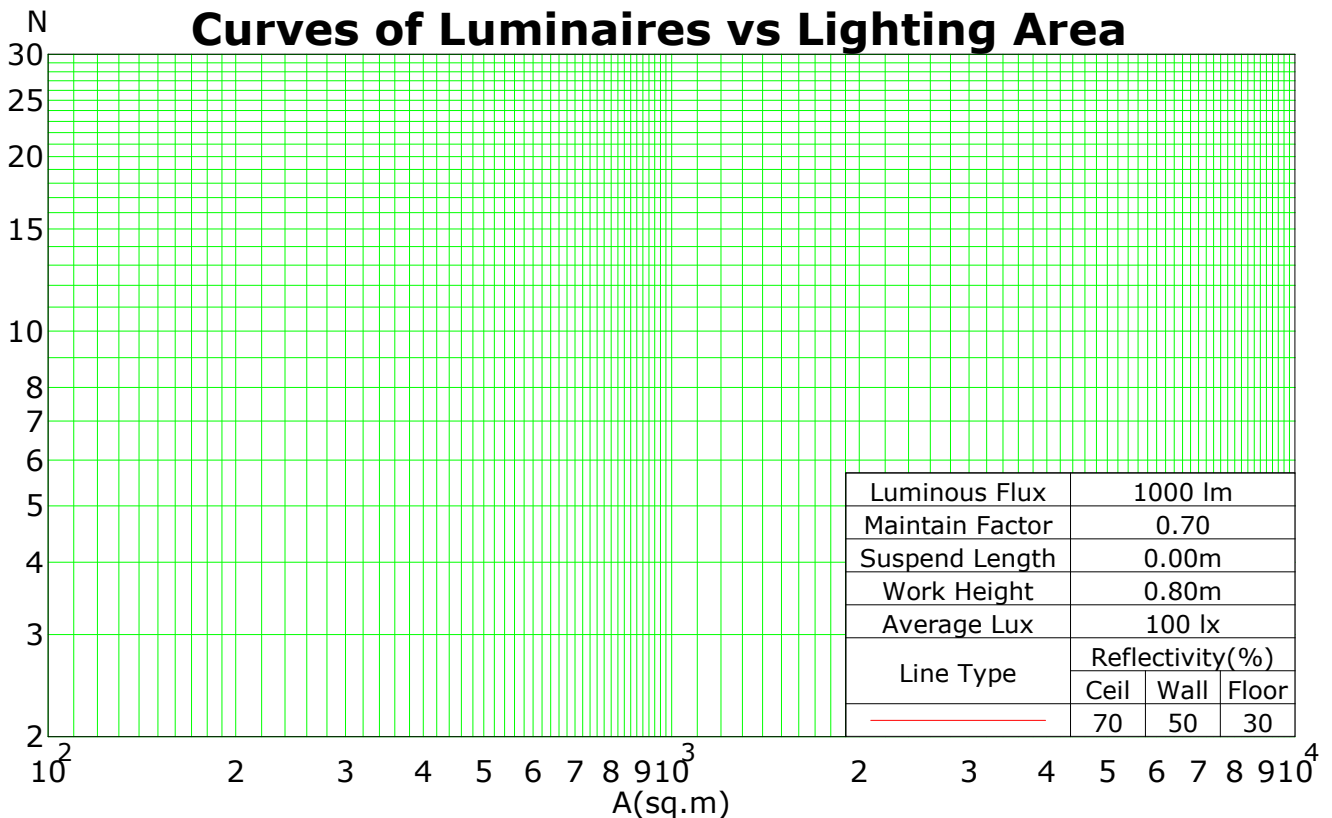
Inspector:

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	86	86	86	86	84	84	84	84	81	81	81	77	77	77	74	74	74	73
1	79	75	72	69	76	73	70	68	70	68	65	67	65	63	65	63	61	60
2	71	65	60	56	69	64	59	55	61	57	54	59	55	52	56	54	51	50
3	65	57	51	46	63	56	50	46	54	49	45	52	48	44	50	46	43	42
4	59	51	44	39	58	50	43	39	48	42	38	46	41	38	44	40	37	36
5	55	45	39	34	53	44	38	33	43	37	33	41	36	33	40	36	32	31
6	50	41	34	29	49	40	34	29	39	33	29	37	32	29	36	32	28	27
7	47	37	30	26	46	36	30	26	35	30	26	34	29	25	33	29	25	24
8	44	34	27	23	42	33	27	23	32	27	23	31	26	23	30	26	23	21
9	41	31	25	21	40	30	25	21	30	24	21	29	24	21	28	24	20	19
10	38	29	23	19	37	28	23	19	27	22	19	27	22	19	26	22	19	17

Spacing Criteria (0-180): 1.25
 Spacing Criteria (90-270): 1.18
 Spacing Criteria (Diagonal): 1.33

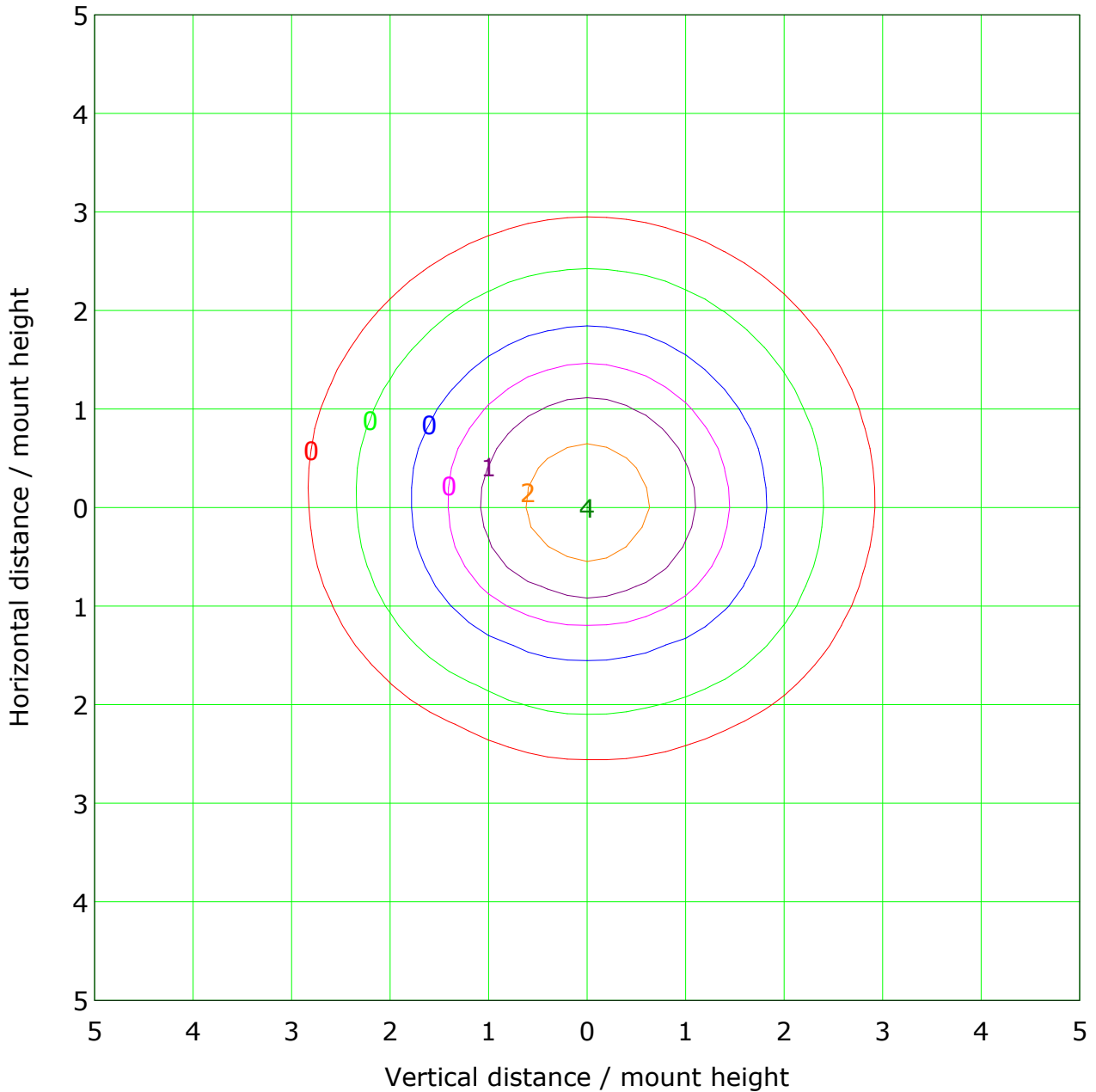
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 15.0
 Test Lab: Alloy
 Test Type: TYPE C
 Temperature: 22°
 Operator: FELIPE

Gamma Plane (°):0.0-90.0:5.0
 Test Device: LSG-1700B
 Distance: 6.549 m
 Humidity: 54%
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 3.8 lx

— (1%): 0.0 lx	— (2%): 0.1 lx
— (5%): 0.2 lx	— (10%): 0.4 lx
— (20%): 0.8 lx	— (50%): 1.9 lx
— (100%): 3.8 lx	

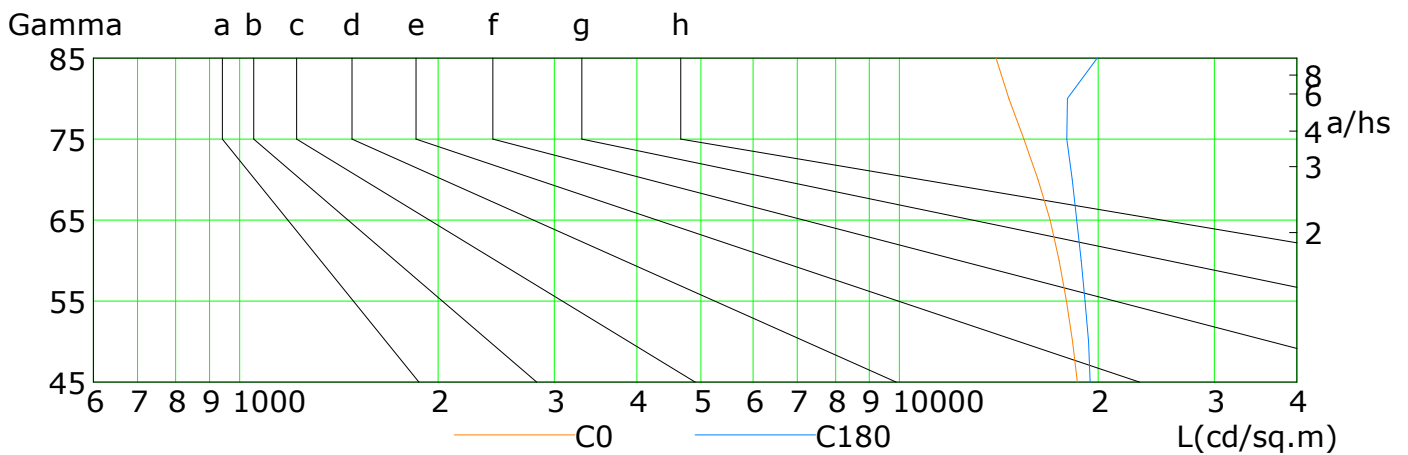
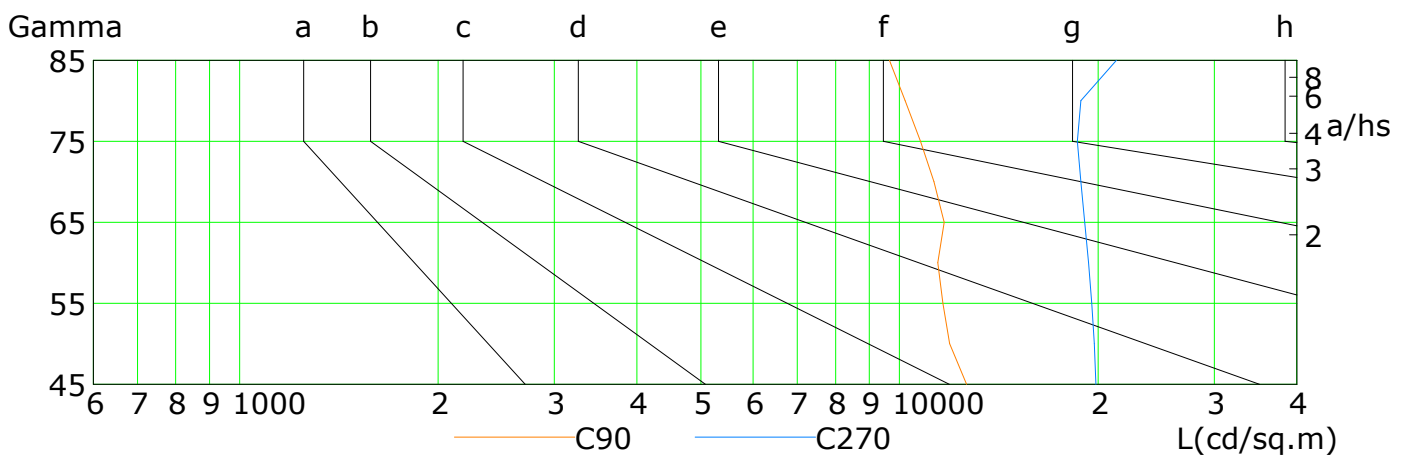
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Inspector:

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

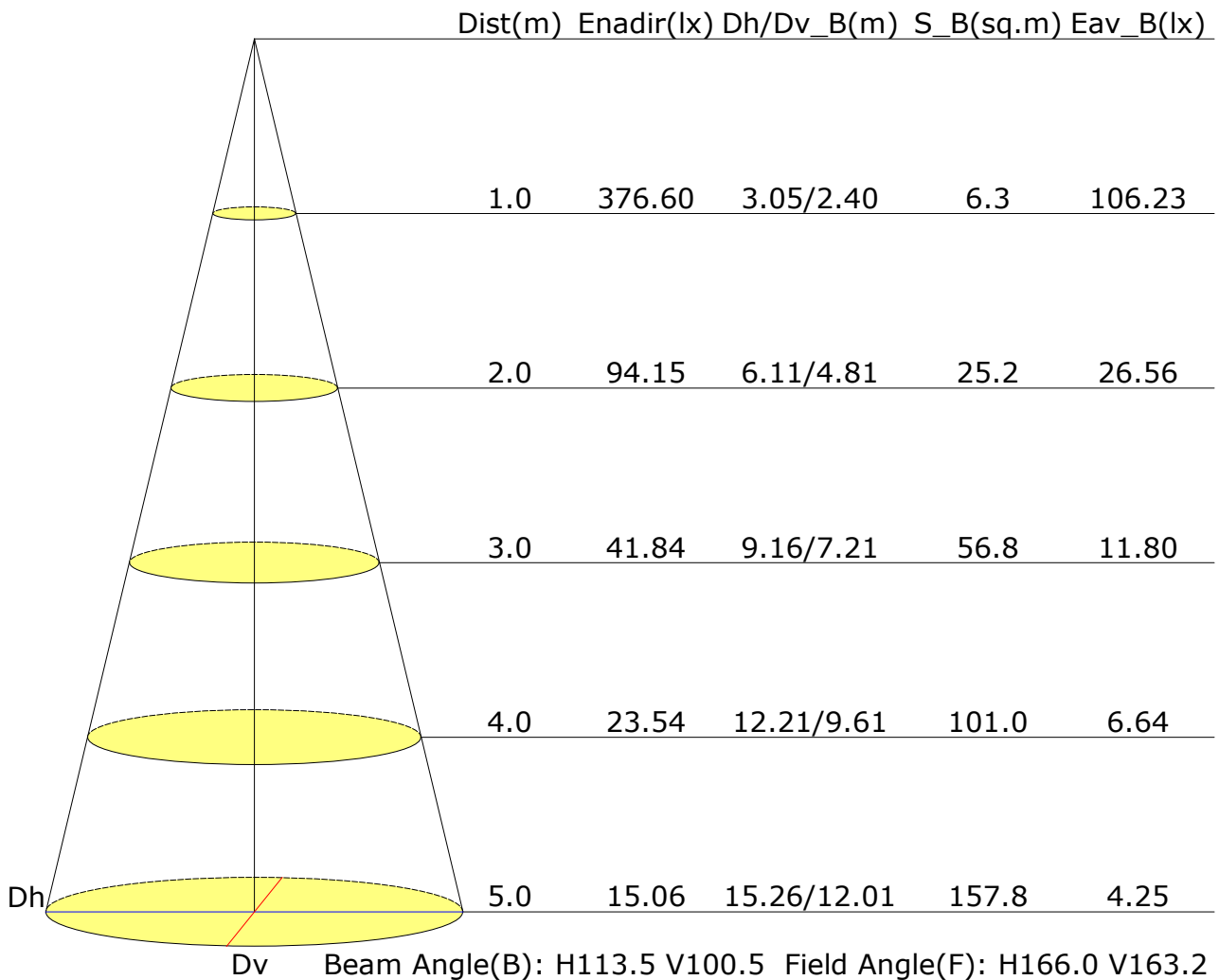


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	18596	18283	17915	17450	16913	16222	15440	14652	14001
C90	12643	11912	11641	11434	11688	11284	10756	10194	9655
C180	19453	19332	19104	18856	18568	18273	17931	17967	19924
C270	19840	19732	19549	19343	19081	18821	18605	18836	21317

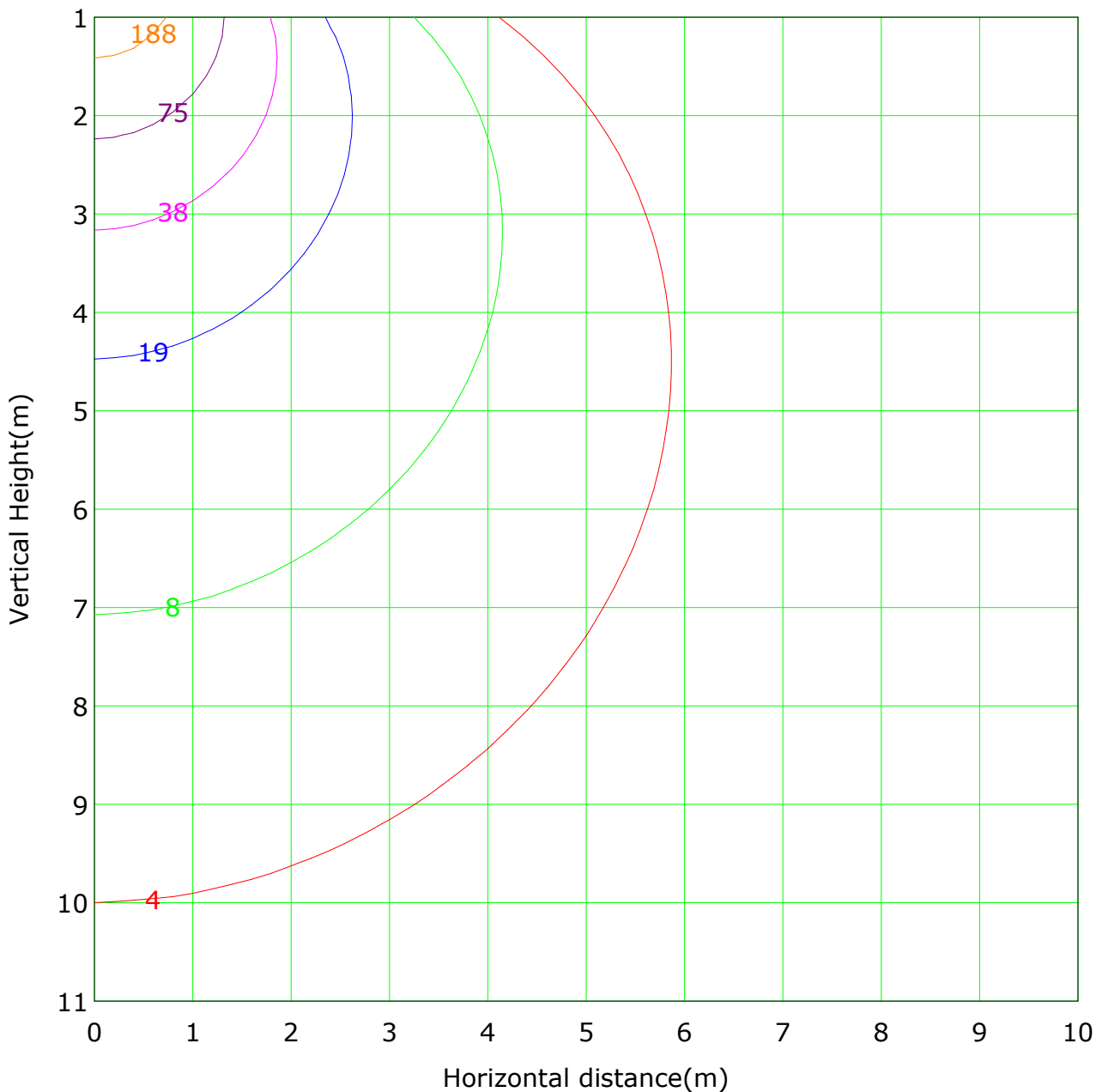
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 Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 376.6 lx
— (1%): 3.8 lx	— (2%): 7.5 lx	
— (5%): 18.8 lx	— (10%): 37.7 lx	
— (20%): 75.3 lx	— (50%): 188.3 lx	
— (100%): 376.6 lx		

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 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	472	32.8
	FL (0°-30°)	138	9.6
	FM (30°-60°)	232	16.1
	FH (60°-80°)	91	6.3
	FVH (80°-90°)	12	0.8
	BACK LIGHT	573	39.8
	BL (0°-30°)	147	10.2
	BM (30°-60°)	287	20.0
	BH (60°-80°)	119	8.3
	BVH (80°-90°)	18	1.3
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	395	27.5

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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