

Report No.: LG-4006

Test Time: 2015-09-21 15:43

Luminaire Property

Luminaire Manufacturer: Light And Green LLC

Luminaire Description: LG-4006

Lamp Description: LED

Lumens per Lamp: 85.16 lm

Luminous Width (mm): 100

Voltage: 110 V

Power: 2.43 W

Lamp Catalog: CREE XB-D

Number of Lamps: 1

Luminous Length (mm): 100

Luminous Height (mm): 37

Current: 0.048 A

Power Factor: 0.459

Photometric Results

CIE Class: Direct

Measurement Flux: 165.7 lm

Downward Ratio: 194.56%

Field Angle: H146.0 V167.4

Luminaire Efficacy Rating (LER): 68

Max. Intensity: 586.72 cd

Total Rated Lamp Lumens: 85.2 lm

Efficiency: 194.56%

Upward Ratio: 0.00%

Beam Angle: H111.3 V158.8

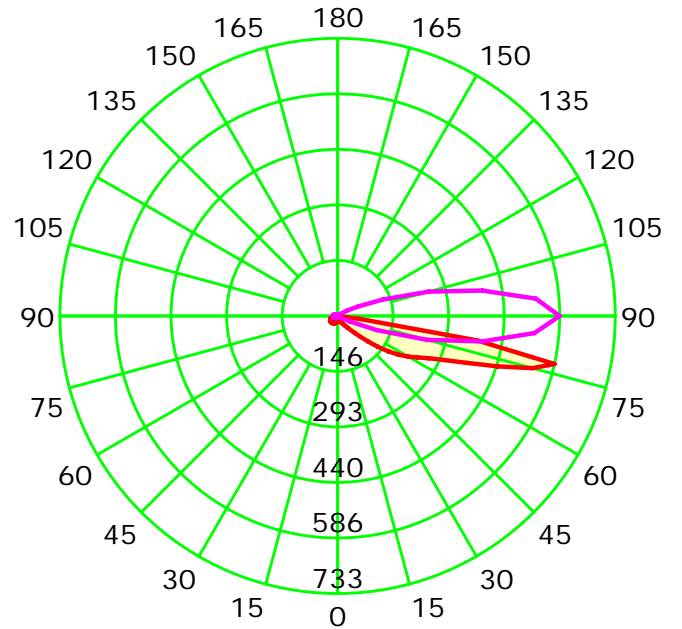
Central Intensity: 13.66 cd

Pos of Max. Intensity: H90 V77.5

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G77.5

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 1

Gamma Plane (°):0.0-90.0:2.5

Test Device: GPM-1600L

Distance: 10.000 m

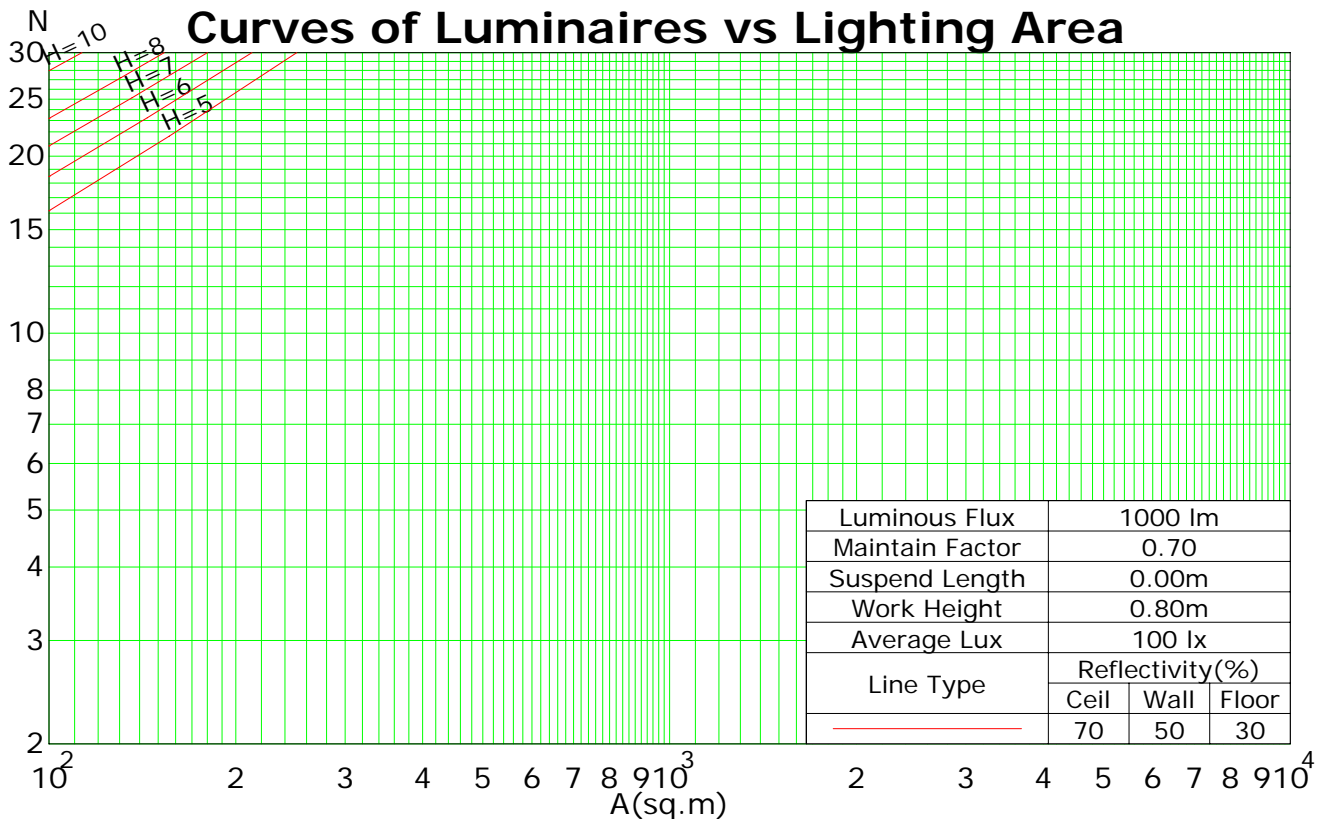
Humidity:

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	232	232	232	232	226	226	226	226	216	216	216	207	207	207	199	199	199	195
1	200	185	173	161	194	181	169	158	172	162	153	164	156	148	156	150	144	139
2	172	148	128	112	166	144	126	110	136	121	107	129	116	104	123	112	102	96
3	150	121	99	81	144	118	97	80	111	93	78	105	89	76	99	86	75	69
4	134	102	79	61	128	99	77	61	94	75	60	88	72	58	84	69	57	52
5	121	88	65	48	116	85	64	48	81	62	47	76	60	46	72	58	46	40
6	110	77	55	39	105	75	54	39	71	52	39	67	51	38	64	49	37	32
7	101	69	48	33	97	67	47	33	63	45	32	60	44	32	57	43	31	27
8	93	62	42	28	90	60	41	28	57	40	28	55	39	27	52	38	27	22
9	87	56	37	24	84	55	37	24	52	36	24	50	35	24	48	34	23	19
10	81	51	33	21	78	50	33	21	48	32	21	46	31	21	44	30	21	17

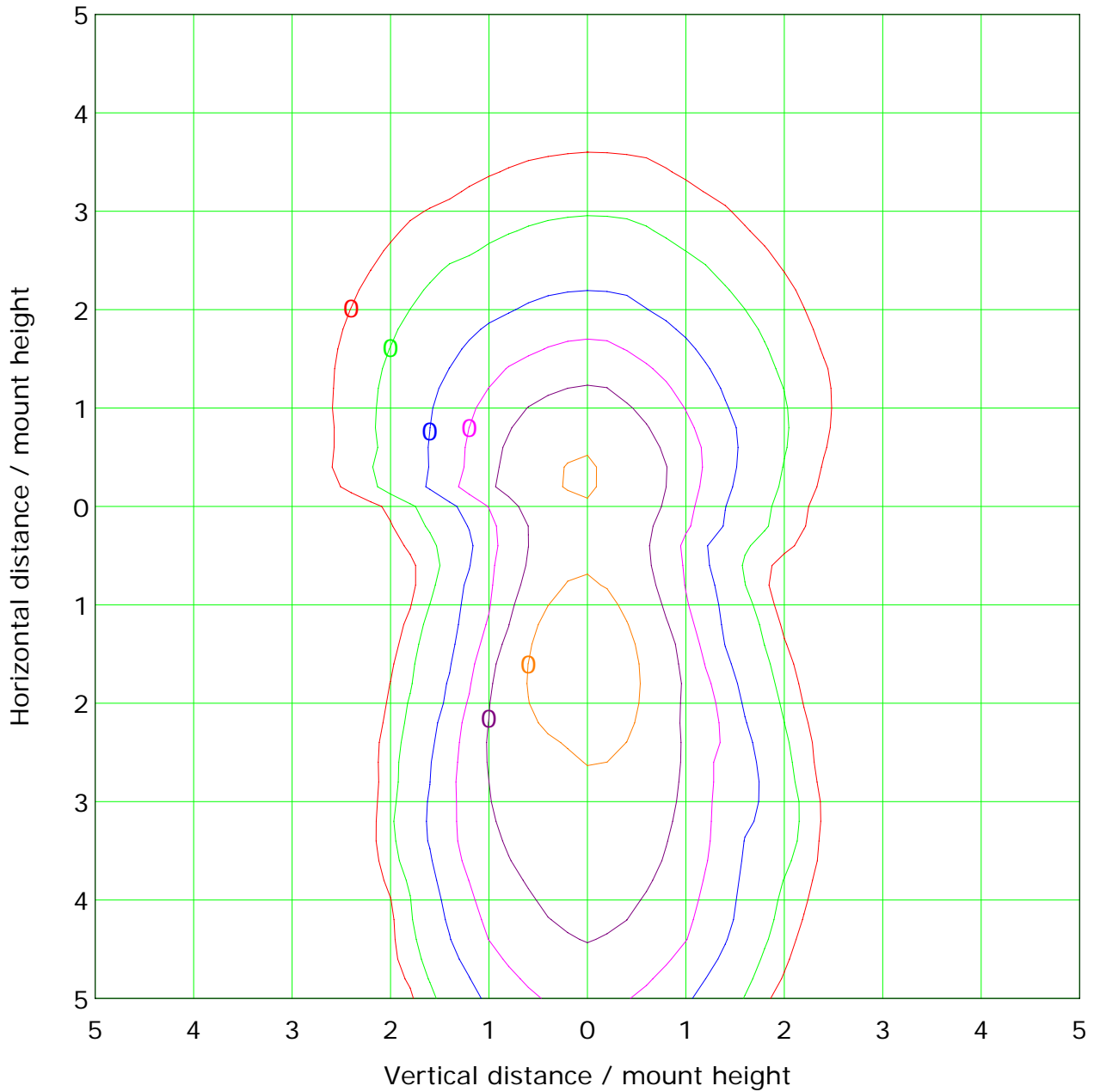
Spacing Criteria (0-180): 1.34
 Spacing Criteria (90-270): 5.81
 Spacing Criteria (Diagonal): 1.95



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 Distance: 10.000 m
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 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 0.3 lx

— (1%): 0.0 lx	— (2%): 0.0 lx
— (5%): 0.0 lx	— (10%): 0.0 lx
— (20%): 0.1 lx	— (50%): 0.2 lx
— (100%): 0.3 lx	

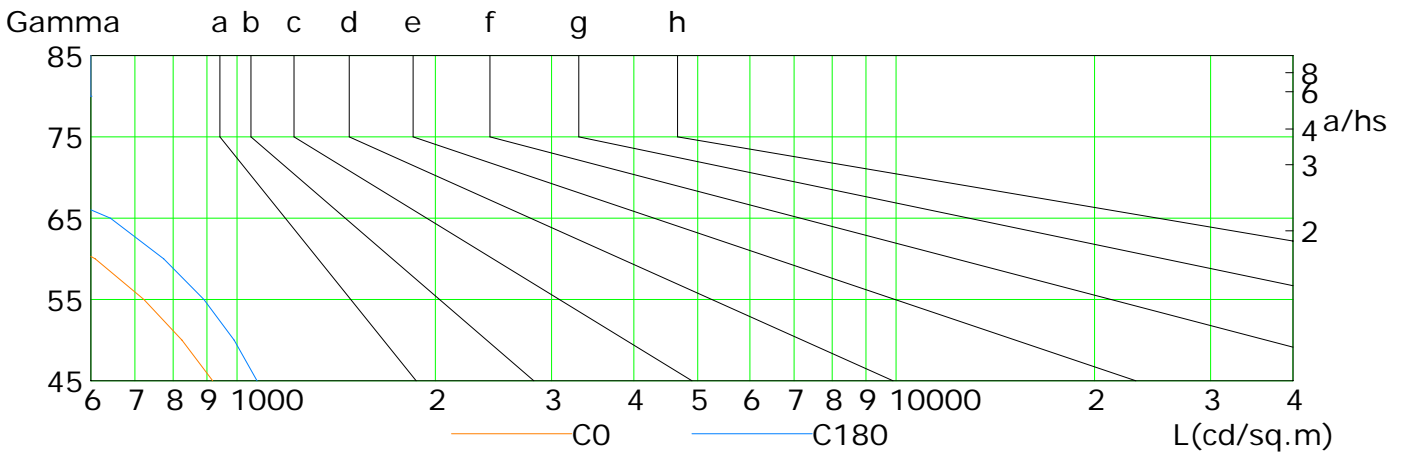
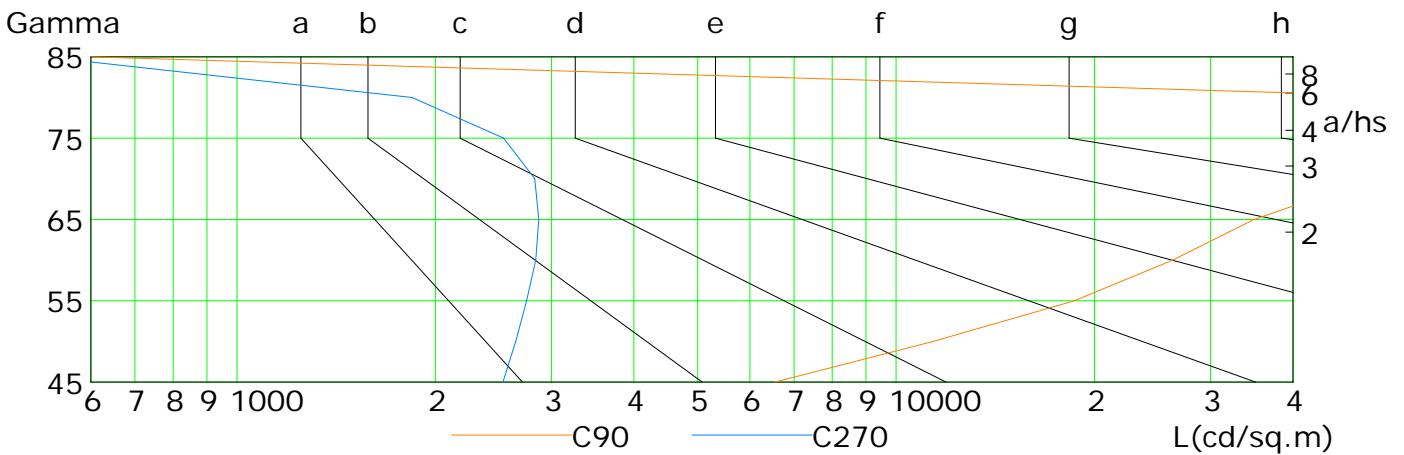
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Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A								
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	919	825	722	609	474	290	8	0	0
C90	6542	11384	18640	26275	34906	52627	86564	69645	0
C180	1073	990	891	774	643	463	182	0	0
C270	2531	2647	2750	2839	2870	2830	2538	1844	511

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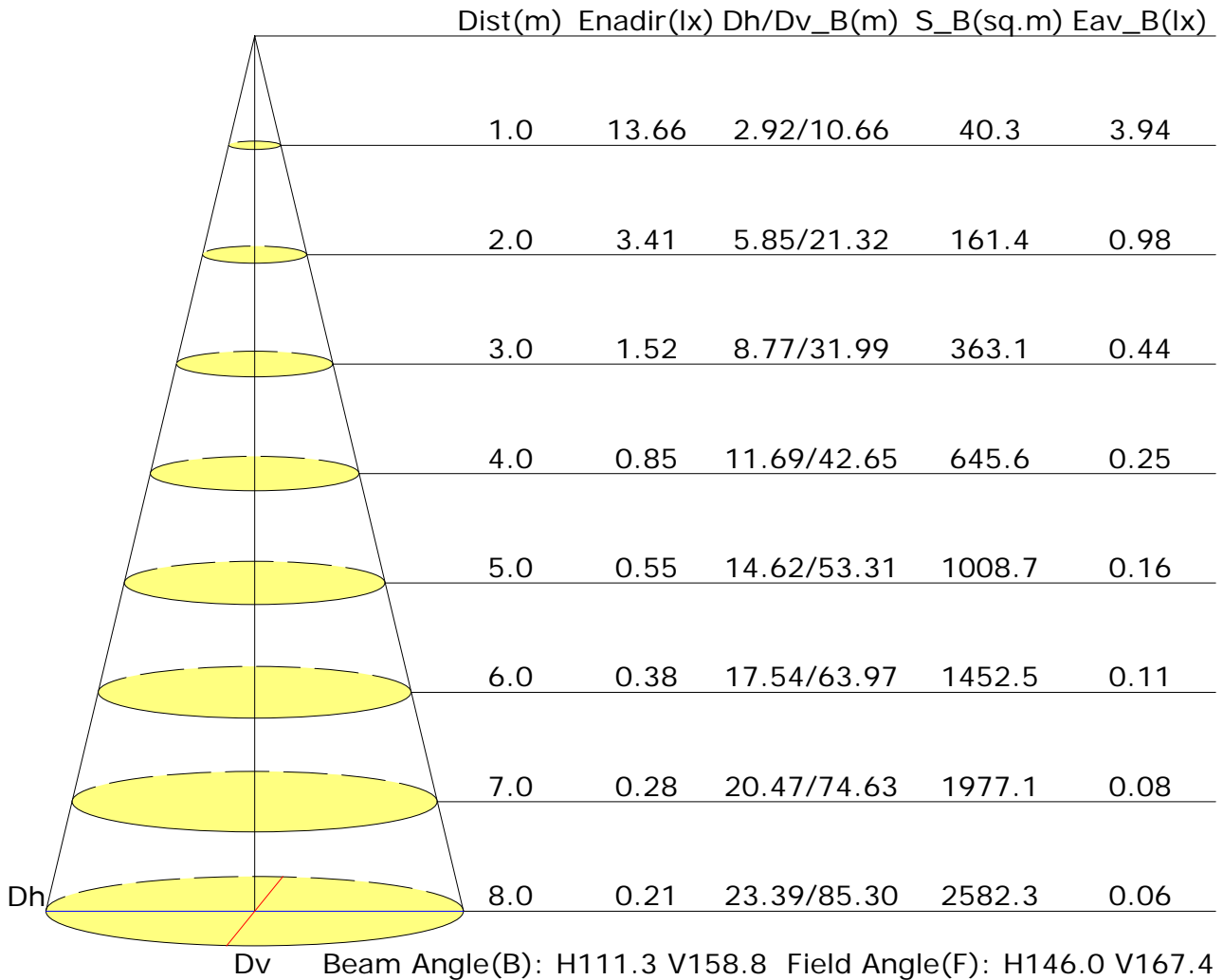
Test Device: GPM-1600L

Distance: 10.000 m

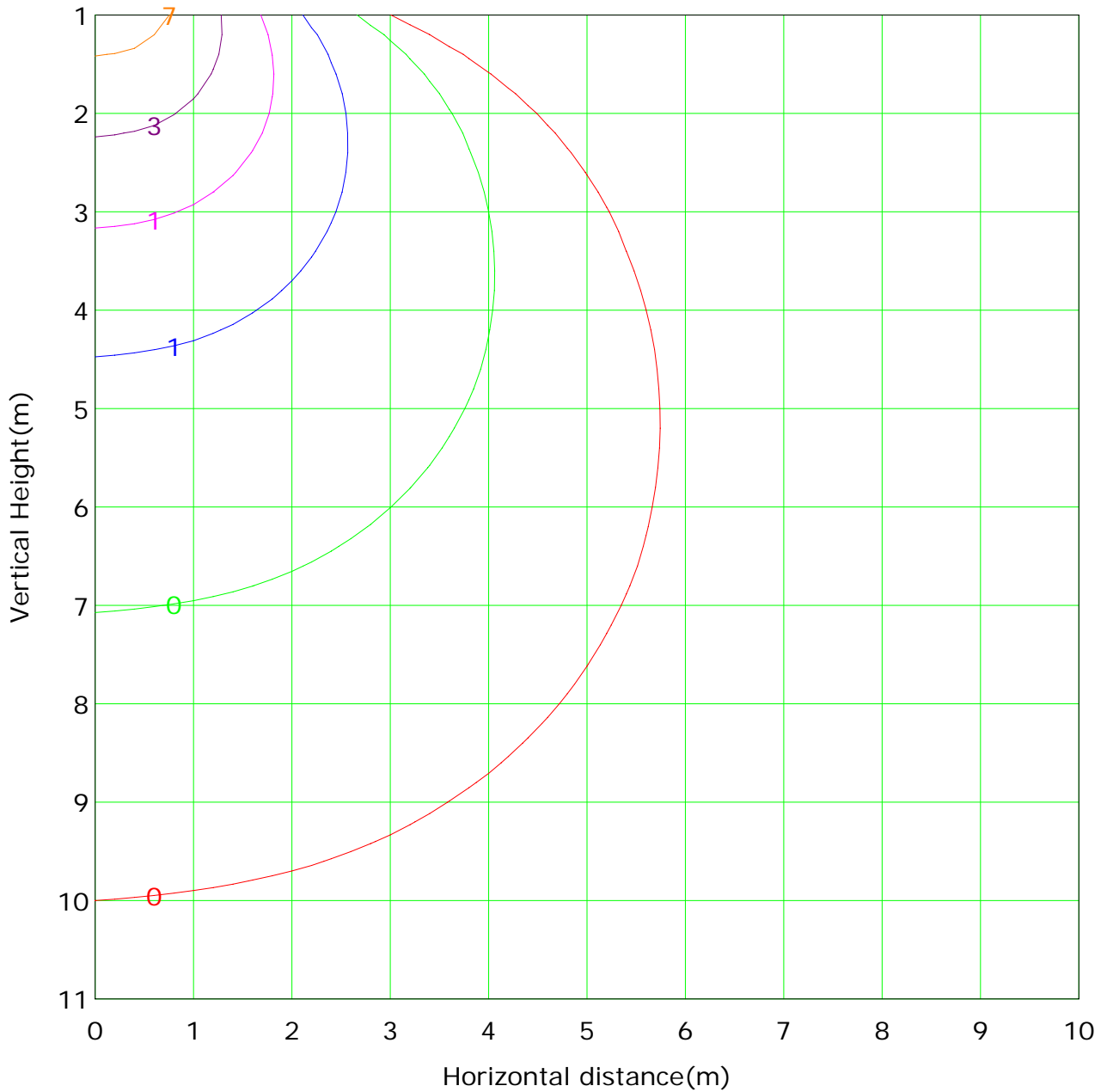
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

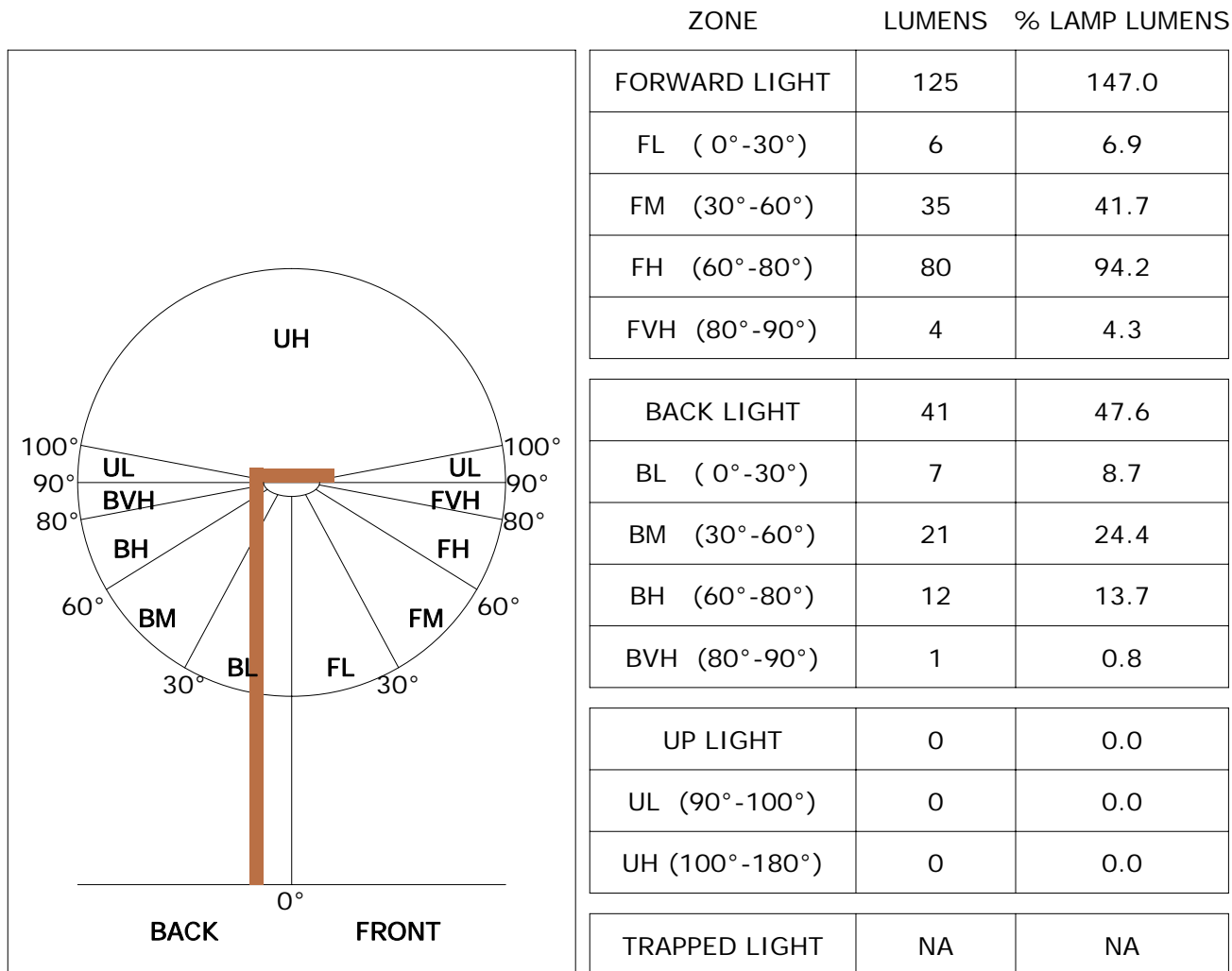


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 13.7 lx
— (1%): 0.1 lx	— (2%): 0.3 lx	
— (5%): 0.7 lx	— (10%): 1.4 lx	
— (20%): 2.7 lx	— (50%): 6.8 lx	
— (100%): 13.7 lx		

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 Distance: 10.000 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U0 G0

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