

Report No.: LG-4005

Test Time: 2015-09-22 09:24

Luminaire Property

Luminaire Manufacturer: Light And Green LLC

Luminaire Description: LG-4005

Lamp Description: LED

Lumens per Lamp: 85.16 lm

Luminous Width (mm): 41

Voltage: 110 V

Power: 2.46 W

Lamp Catalog: CREE XB-D

Number of Lamps: 1

Luminous Length (mm): 245

Luminous Height (mm): 32.75

Current: 0.048 A

Power Factor: 0.462

Photometric Results

CIE Class: Direct

Measurement Flux: 166 lm

Downward Ratio: 194.93%

Field Angle: H148.7 V155.1

Luminaire Efficacy Rating (LER): 67

Max. Intensity: 605.45 cd

Total Rated Lamp Lumens: 85.2 lm

Efficiency: 194.93%

Upward Ratio: 0.00%

Beam Angle: H107.9 V132.8

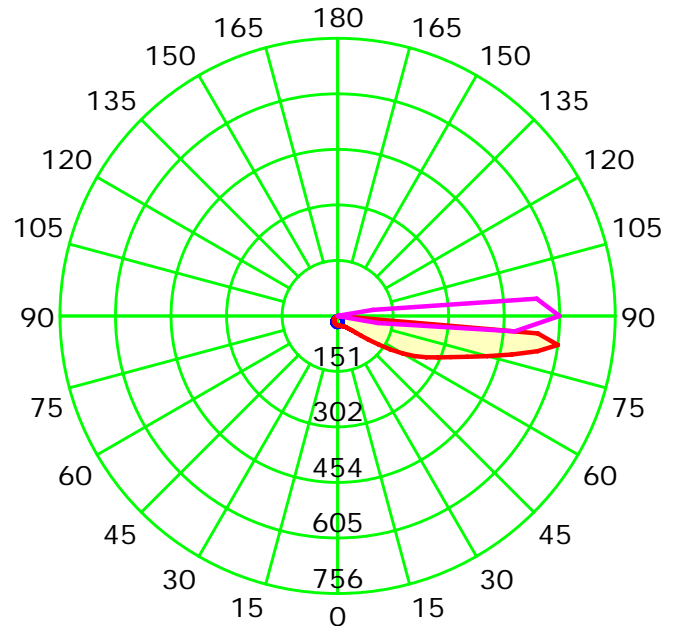
Central Intensity: 30.19 cd

Pos of Max. Intensity: H90 V82.5

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G82.5

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

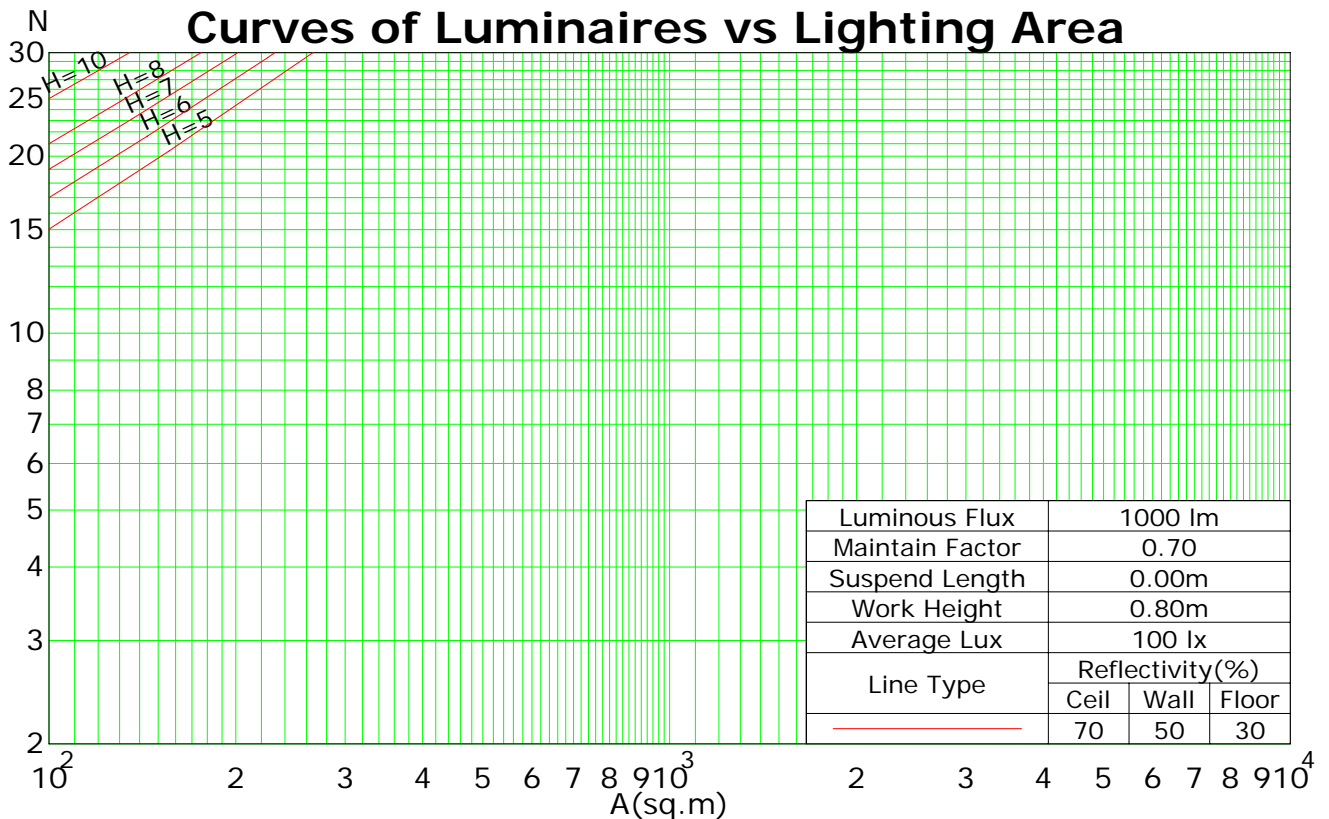
Humidity:

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	227	227	227	227	217	217	217	207	207	207	199	199	199	195
1	199	184	171	159	193	180	168	157	171	161	151	163	154	147	155	148	142	137
2	174	150	131	115	168	146	129	113	139	124	111	132	119	108	125	114	105	100
3	154	126	104	87	148	122	102	86	116	99	84	110	95	83	104	92	81	75
4	138	108	86	69	133	105	84	68	100	81	67	95	79	66	90	76	65	59
5	126	94	72	56	121	92	71	56	87	69	55	83	67	54	79	65	53	48
6	115	84	62	47	111	82	62	47	78	60	46	74	58	46	71	56	45	40
7	106	75	55	41	102	73	54	40	70	53	40	67	51	39	64	50	39	34
8	99	68	49	35	95	66	48	35	64	47	35	61	46	34	58	45	34	30
9	92	62	44	31	89	61	43	31	58	42	31	56	41	31	54	40	30	26
10	86	57	40	28	83	56	39	28	54	38	28	52	38	27	50	37	27	23

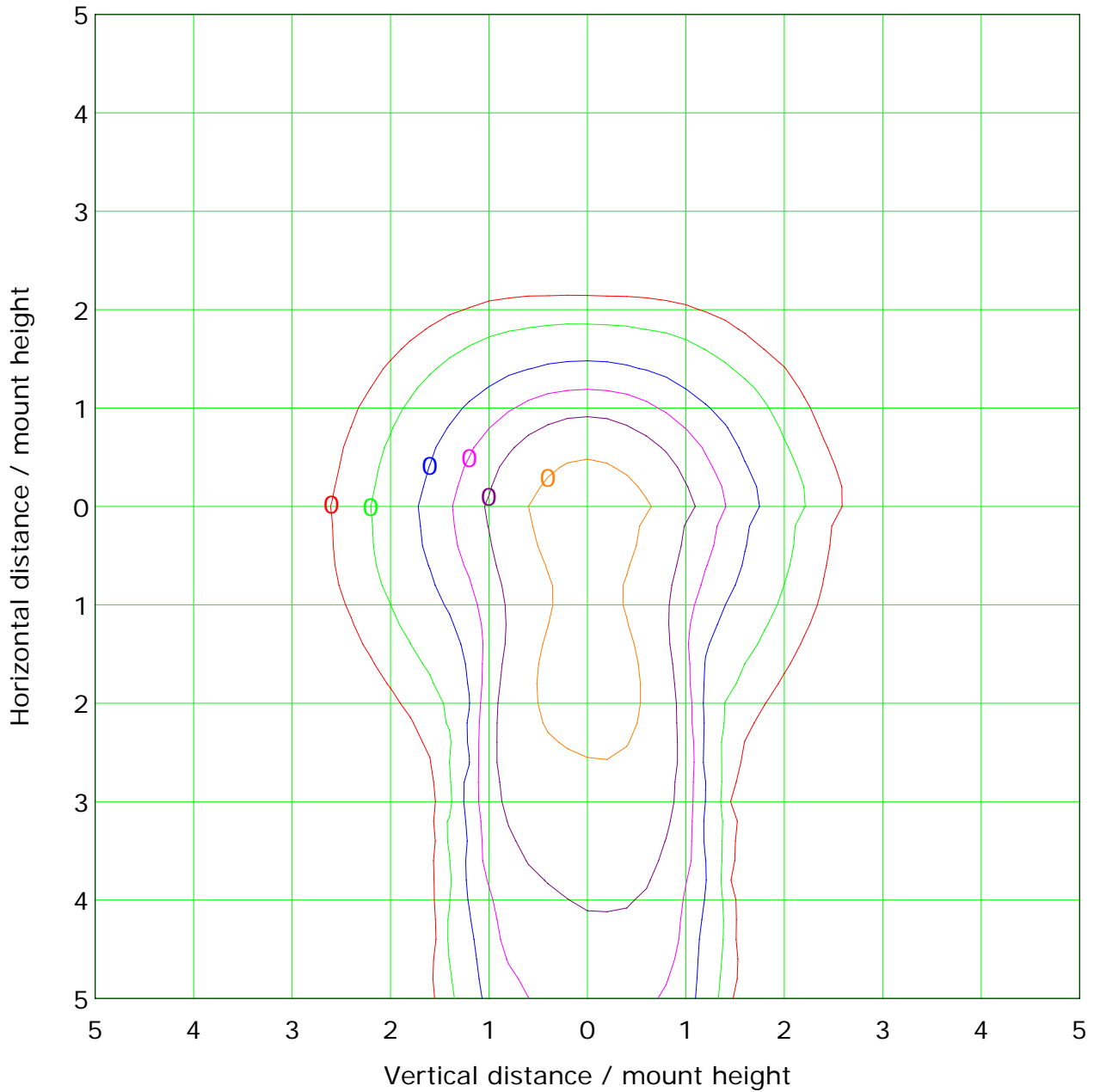
Spacing Criteria (0-180): 1.24
 Spacing Criteria (90-270): 1.88
 Spacing Criteria (Diagonal): 1.36



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 Test Device: GPM-1600L
 Distance: 10.000 m
 Humidity:
 Inspector:

IsoLux Plot



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

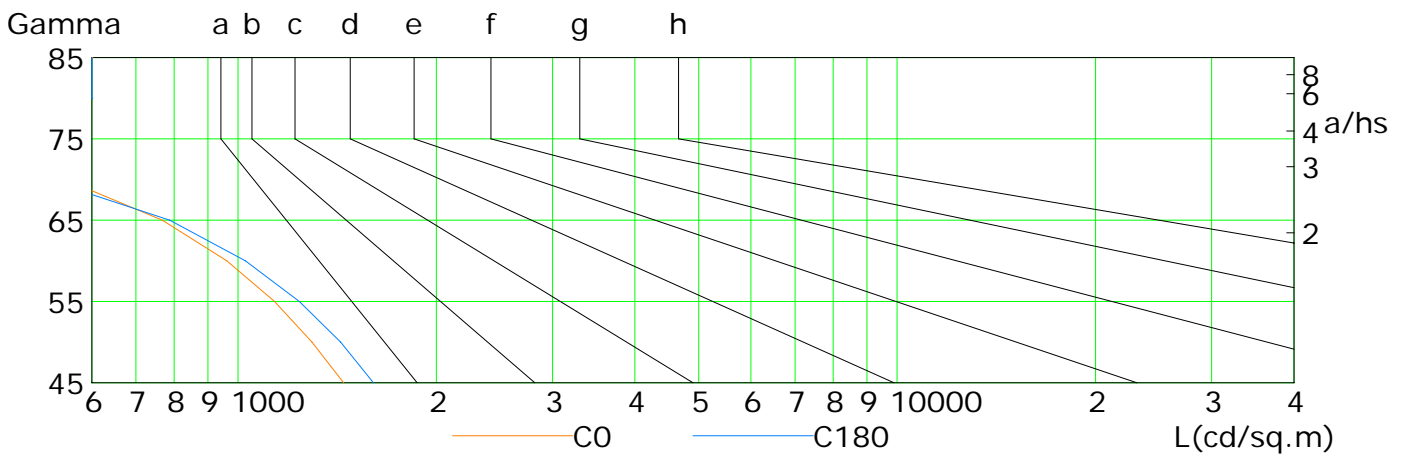
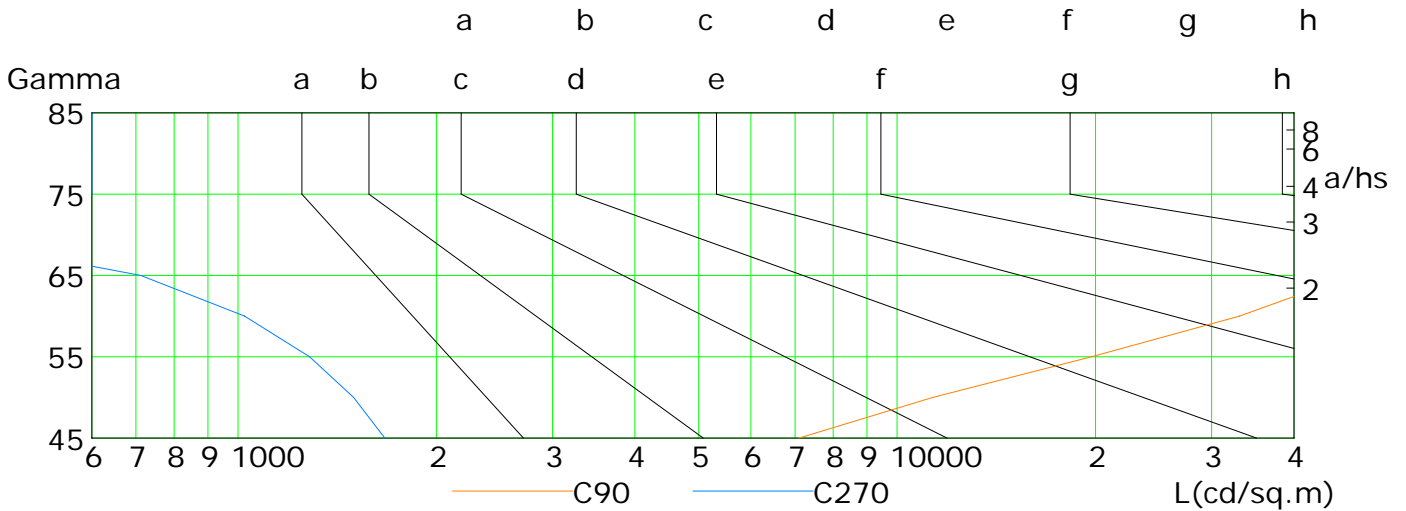
— (1%): 0.0 lx	— (2%): 0.0 lx
— (5%): 0.0 lx	— (10%): 0.0 lx
— (20%): 0.1 lx	— (50%): 0.2 lx
— (100%): 0.3 lx	

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 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		a	b	c	d	e	f	g	h
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



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1446	1295	1136	961	768	547	292	2	0
C90	7096	11326	19707	33062	48880	69899	108568	180471	247447
C180	1605	1431	1239	1026	788	512	203	0	0
C270	1670	1498	1284	1023	712	341	0	0	0

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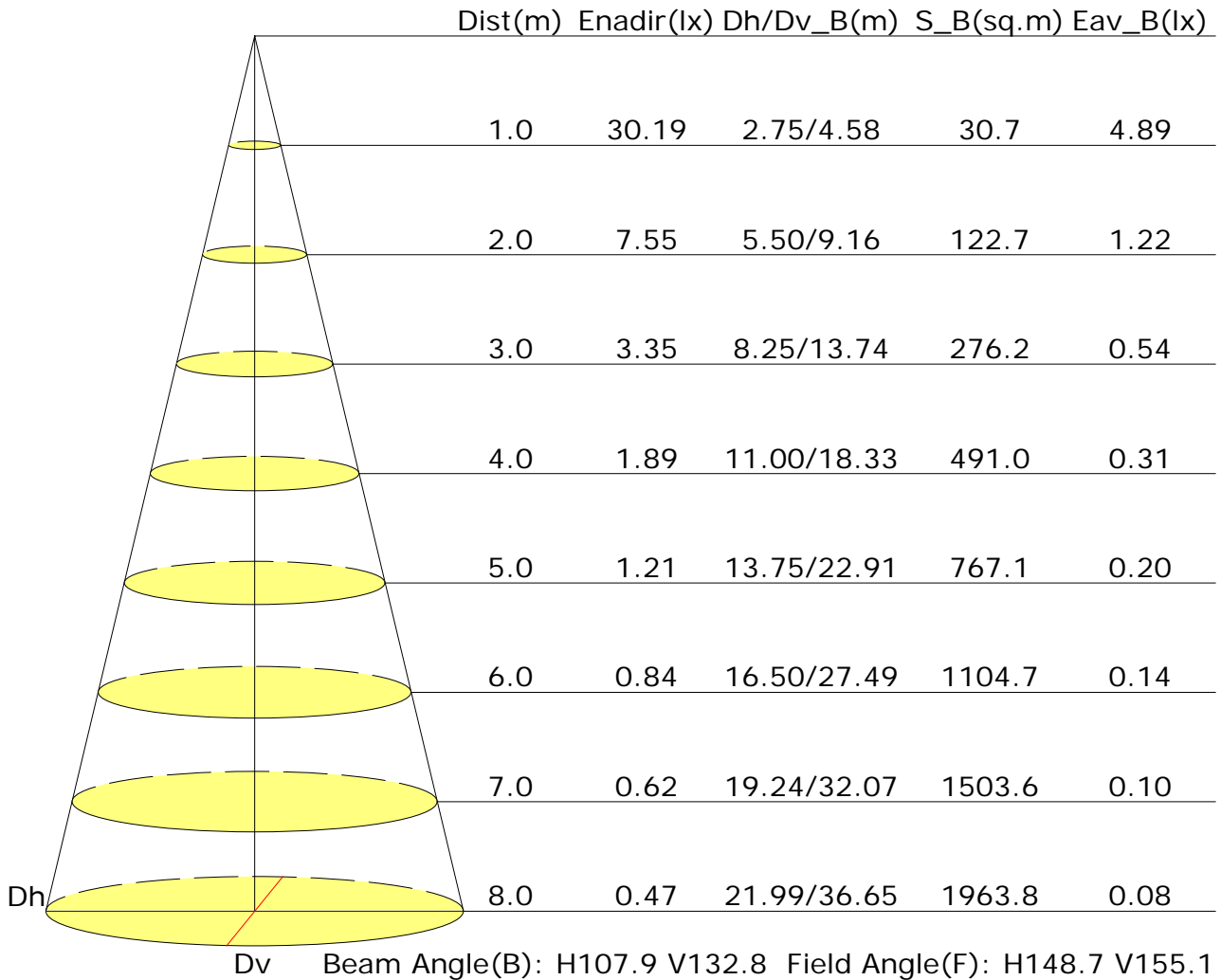
Test Device: GPM-1600L

Distance: 10.000 m

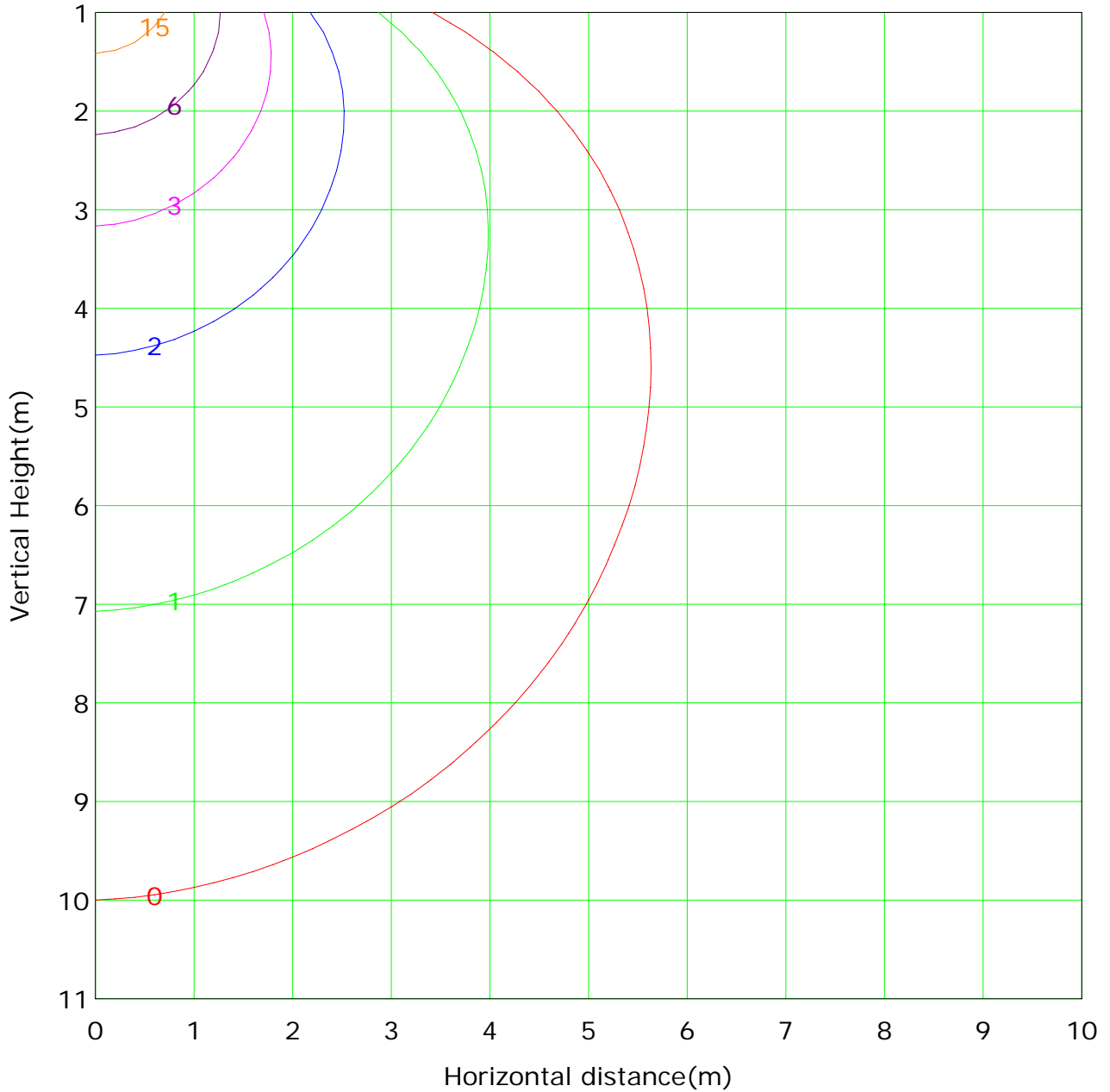
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

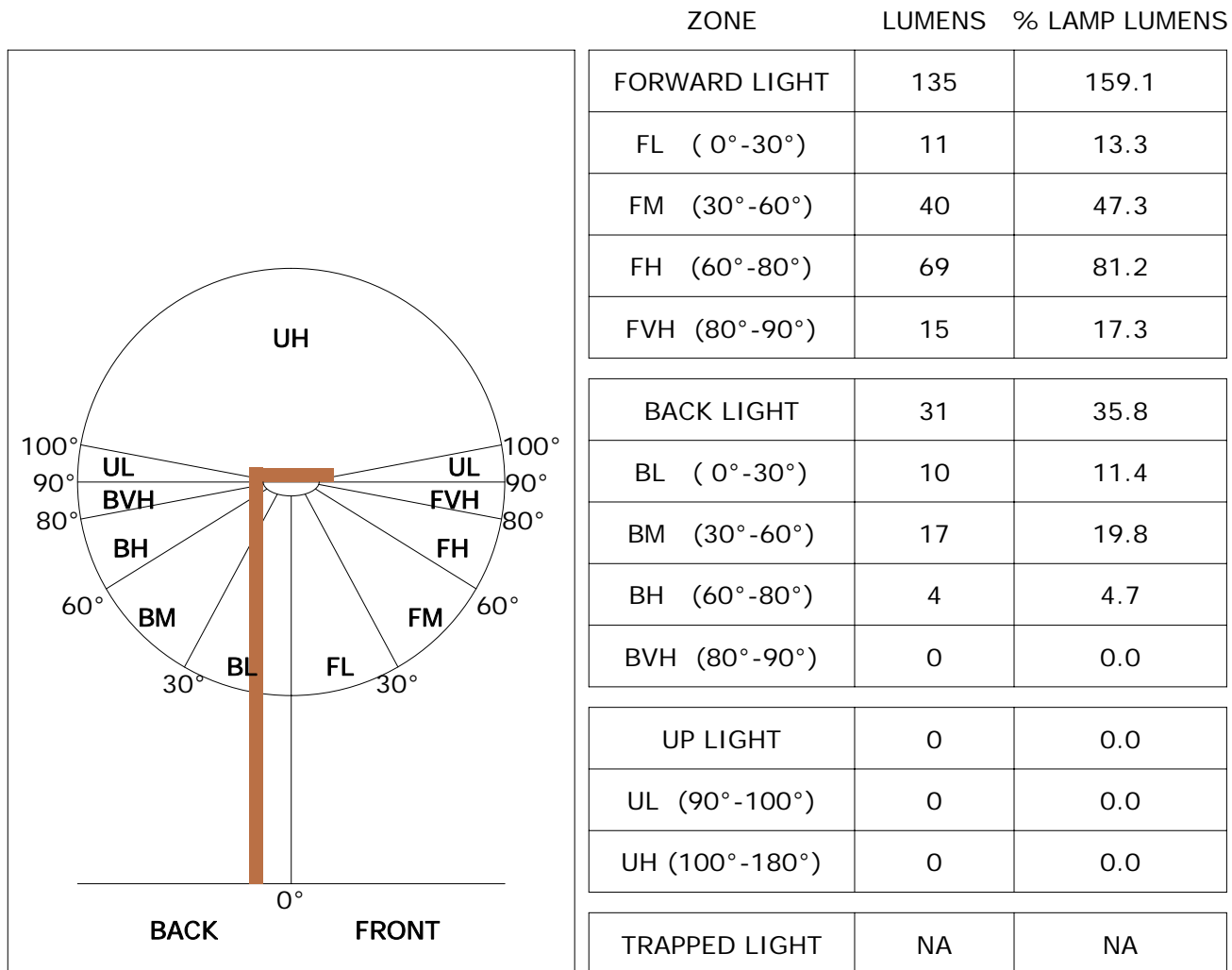


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 30.2 lx
— (1%): 0.3 lx	— (2%): 0.6 lx	
— (5%): 1.5 lx	— (10%): 3.0 lx	
— (20%): 6.0 lx	— (50%): 15.1 lx	
— (100%): 30.2 lx		

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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 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U1 G1

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