

Report No.: LG-4003

Test Time: 2015-09-19 17:19

Luminaire Property

Luminaire Manufacturer: Light And Green LLC

Luminaire Description: LG-4003

Number of Lamps: 1

Luminous Length (mm): 100

Luminous Height (mm): 35

Current: 0.048 A

Power Factor: 0.456

Lamp Catalog: CREE XB-D

Lumens per Lamp: 85.16 lm

Luminous Width (mm): 100

Voltage: 110V

Power: 2.42 W

Photometric Results

CIE Class: Direct

Measurement Flux: 169.8 lm

Downward Ratio: 199.35%

Field Angle: H137.4 V168.0

Luminaire Efficacy Rating (LER): 70

Max. Intensity: 468.64 cd

Total Rated Lamp Lumens: 85.2 lm

Efficiency: 199.35%

Upward Ratio: 0.00%

Beam Angle: H107.5 V145.9

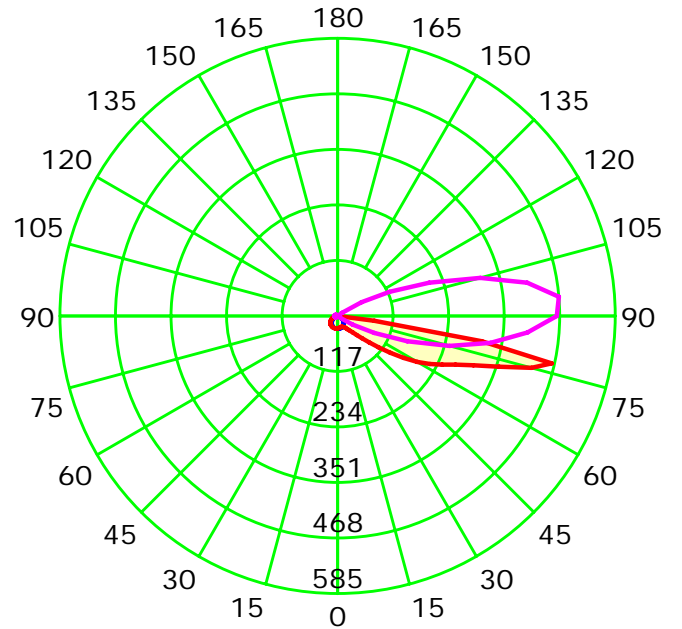
Central Intensity: 27.28 cd

Pos of Max. Intensity: H95 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

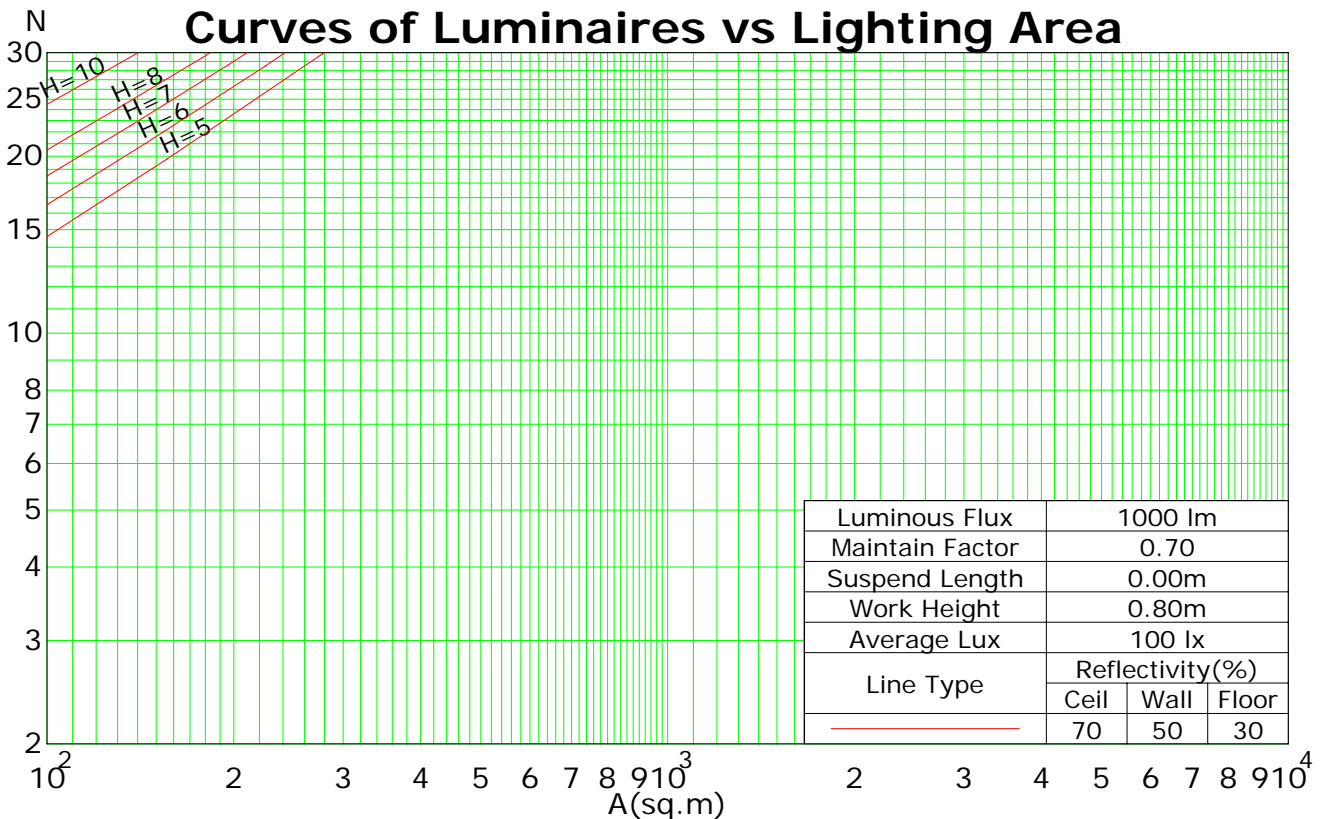
Humidity:

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	237	237	237	237	232	232	232	232	221	221	221	212	212	212	203	203	203	199
1	207	193	180	169	201	188	177	166	179	169	161	171	163	156	163	157	151	146
2	180	156	137	121	173	152	135	120	145	130	117	137	125	114	131	120	111	106
3	159	130	109	91	153	127	107	90	120	103	88	114	99	86	108	96	85	79
4	142	111	89	72	137	108	87	71	103	84	70	98	82	69	93	79	67	62
5	129	97	75	58	124	95	74	58	90	71	57	85	69	56	81	67	55	50
6	118	86	64	49	114	84	63	49	80	62	48	76	60	47	73	58	47	42
7	109	77	56	42	105	75	55	42	72	54	41	69	53	41	66	51	40	35
8	101	70	50	36	97	68	49	36	65	48	36	62	47	35	60	46	35	31
9	94	63	45	32	91	62	44	32	60	43	32	57	42	31	55	41	31	27
10	88	58	40	29	85	57	40	29	55	39	28	53	38	28	51	38	28	24

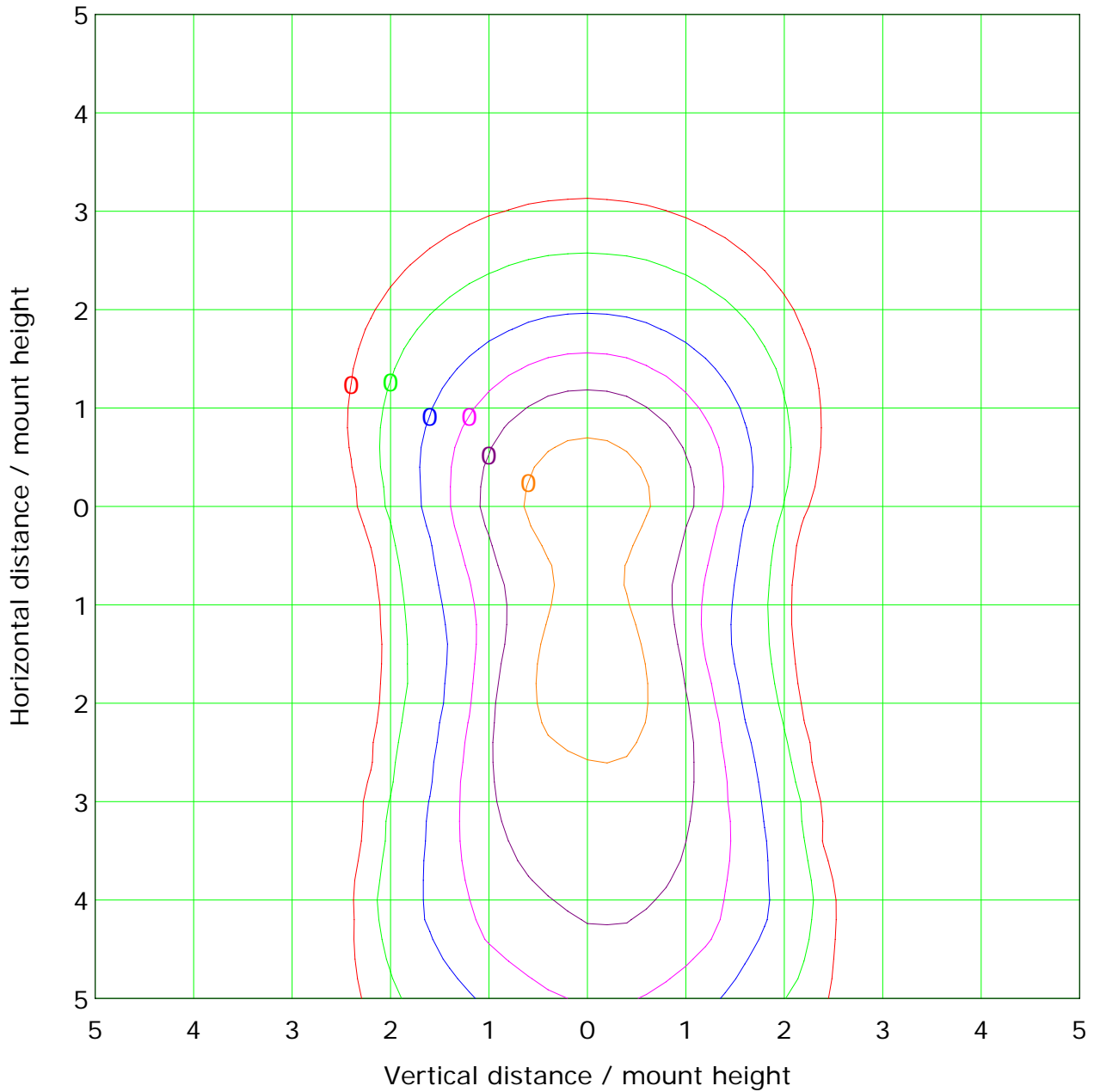
Spacing Criteria (0-180): 1.28
 Spacing Criteria (90-270): 3.47
 Spacing Criteria (Diagonal): 1.48



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 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%): 0.1 lx
— (100%): 0.3 lx	

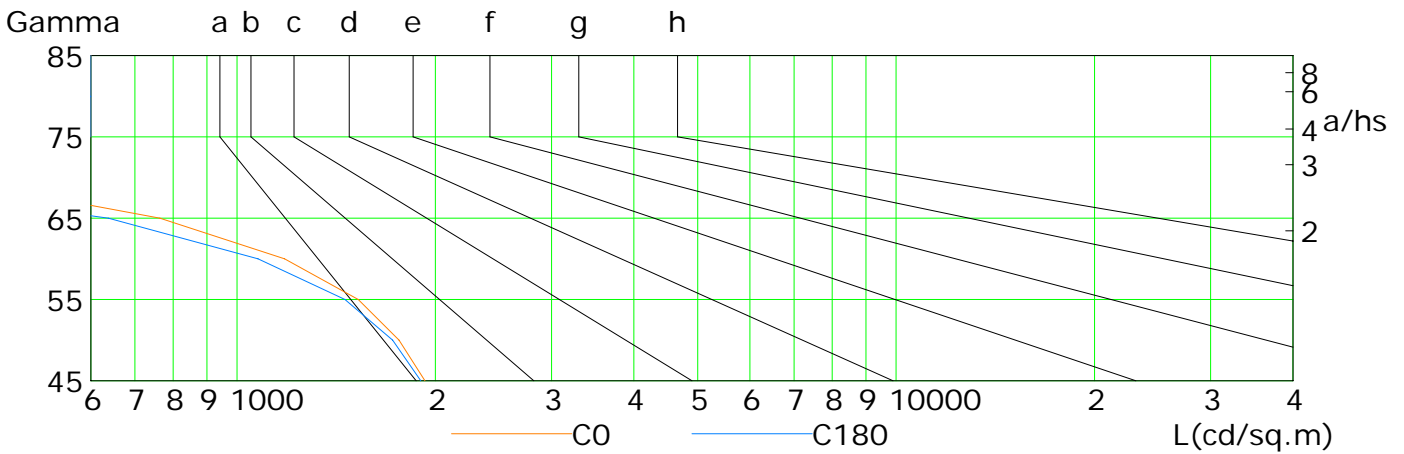
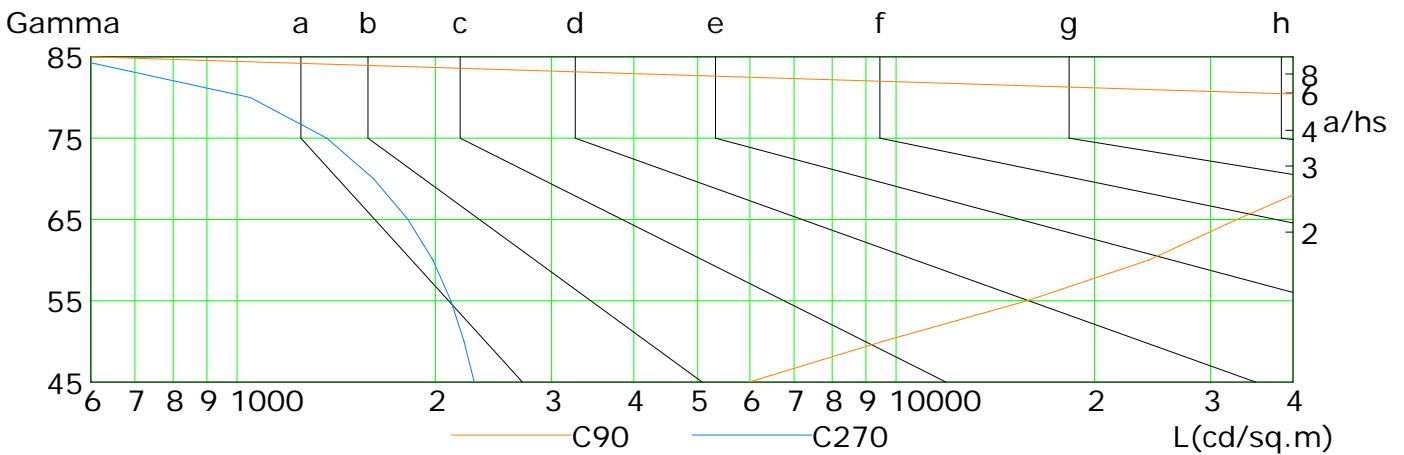
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Lum Limit Curve

Dazzle	Quality	Illuminance (lx)								
		2000	1000	500	<=300					
1.15	A									
1.50	B									
1.85	C									
2.20	D									
2.55	E									

a b c d e f g h

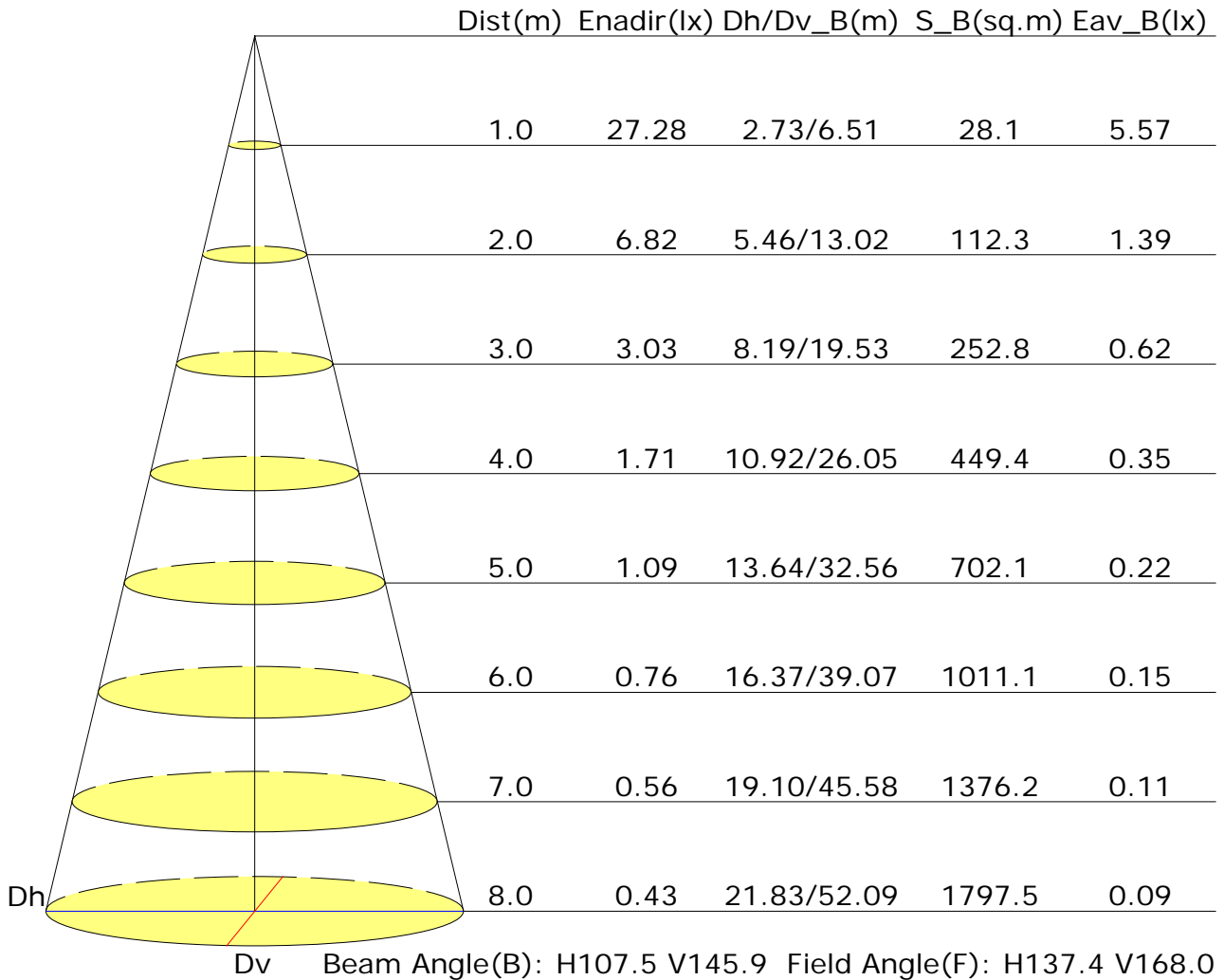


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1929	1761	1527	1180	764	356	0	0	0
C90	5985	9539	15795	24155	32889	45453	70936	59605	0
C180	1900	1722	1458	1076	638	231	0	0	0
C270	2290	2210	2111	1982	1817	1611	1369	1048	546

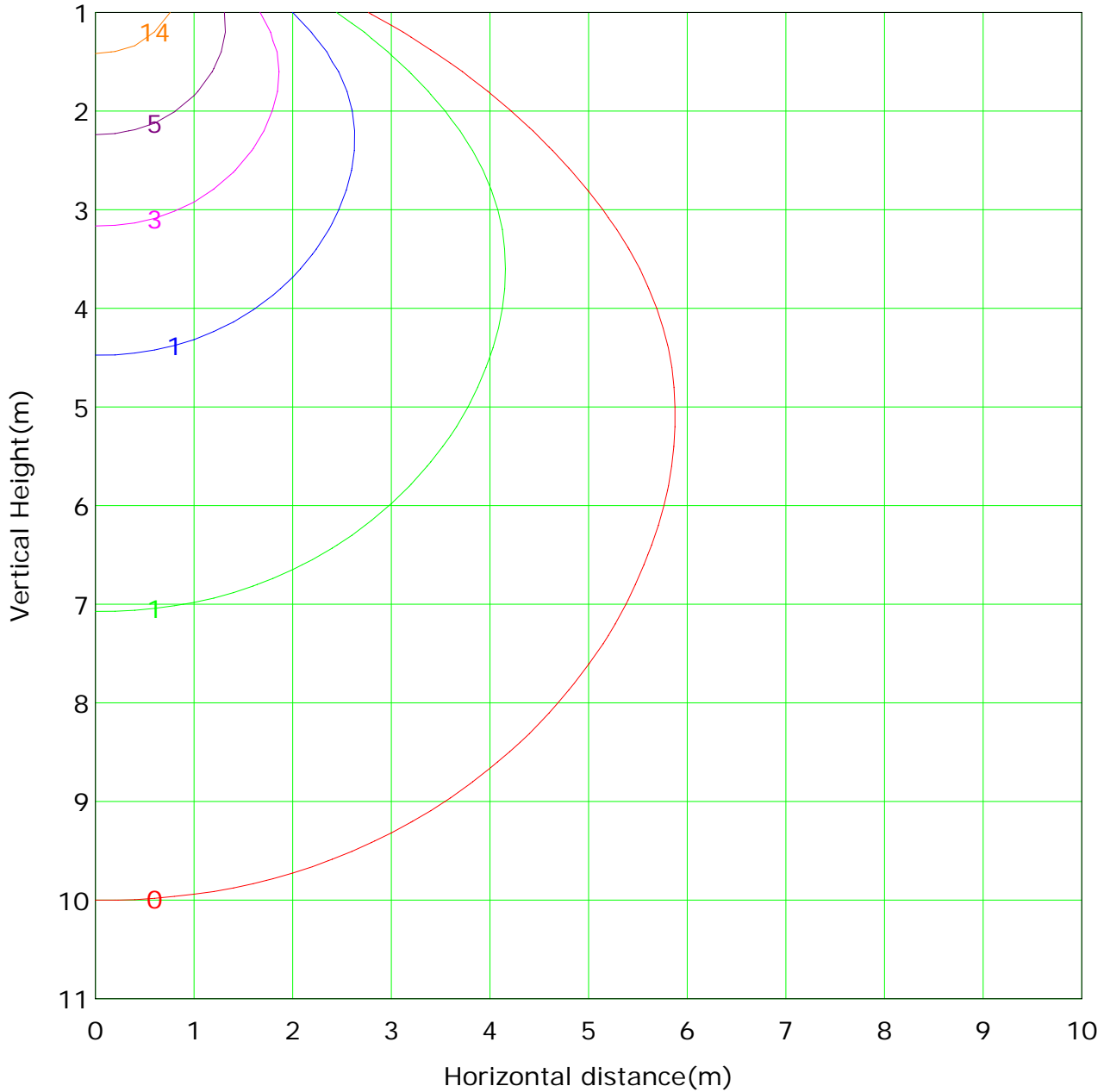
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 Distance: 10.000 m
 Humidity:
 Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

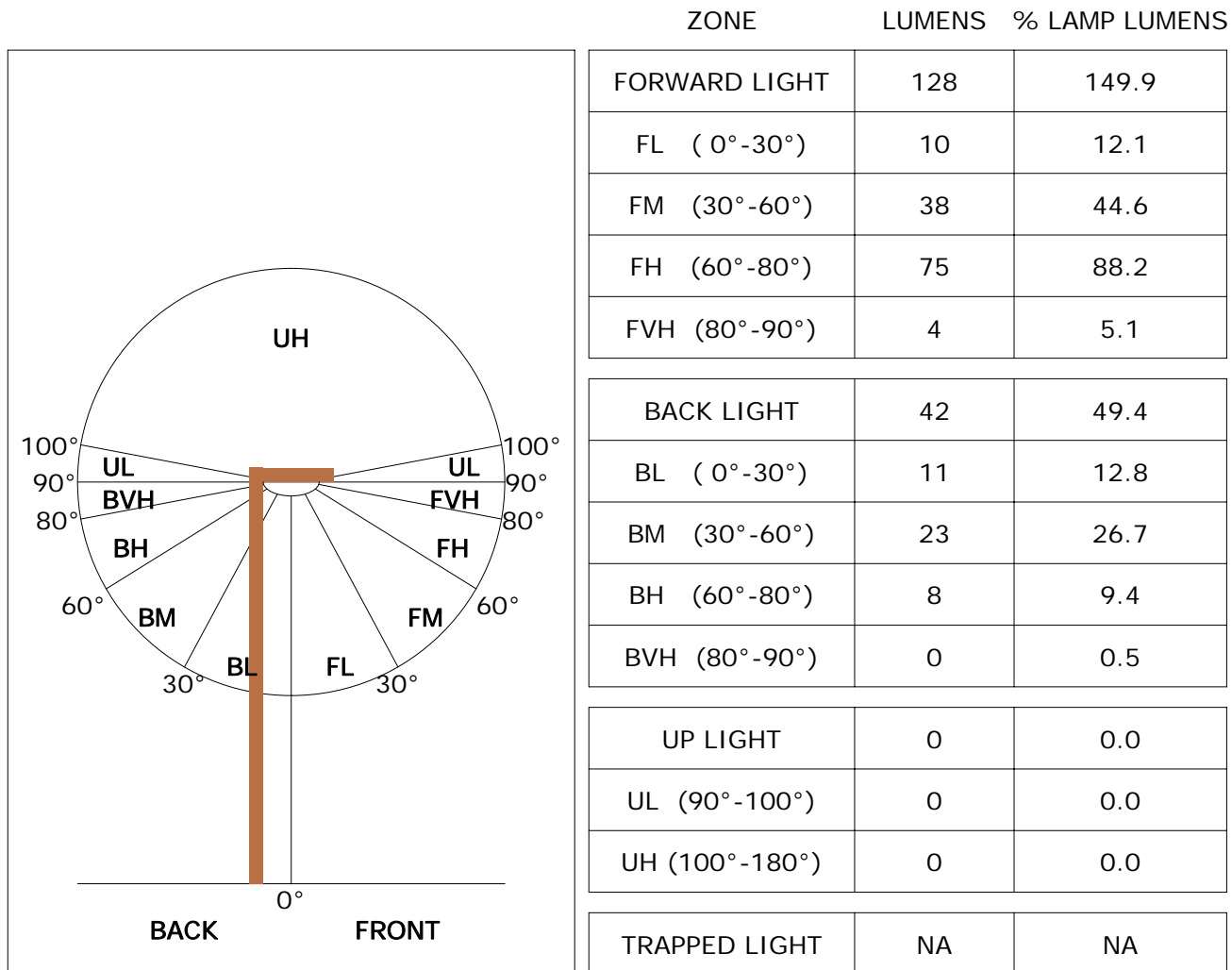


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 27.3 lx
— (1%): 0.3 lx	— (2%): 0.5 lx	
— (5%): 1.4 lx	— (10%): 2.7 lx	
— (20%): 5.5 lx	— (50%): 13.6 lx	
— (100%): 27.3 lx		

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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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