

Report No.: LG-4004

Test Time: 2015-09-21 11:55

Luminaire Property

Luminaire Manufacturer: Light And Green LLC

Luminaire Description: LG-4004

Lamp Description: LED

Lumens per Lamp: 85.16 lm

Luminous Width (mm): 100

Voltage: 110 V

Power: 2.45 W

Lamp Catalog: CREE XB-D

Number of Lamps: 1

Luminous Length (mm): 165

Luminous Height (mm): 37

Current: 0.048 A

Power Factor: 0.461

Photometric Results

CIE Class: Direct

Measurement Flux: 182.2 lm

Downward Ratio: 213.98%

Field Angle: H134.3 V161.5

Luminaire Efficacy Rating (LER): 74

Max. Intensity: 662.68 cd

Total Rated Lamp Lumens: 85.2 lm

Efficiency: 213.98%

Upward Ratio: 0.00%

Beam Angle: H98.1 V138.8

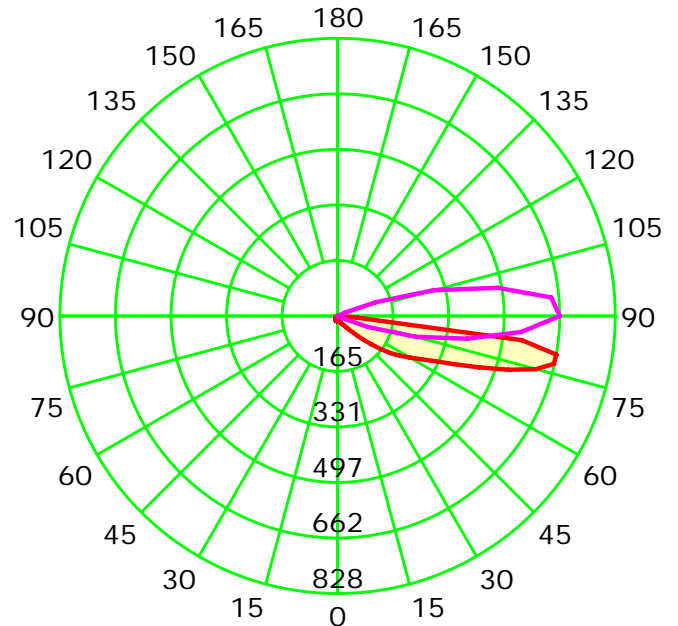
Central Intensity: 16.11 cd

Pos of Max. Intensity: H90 V80

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G80

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

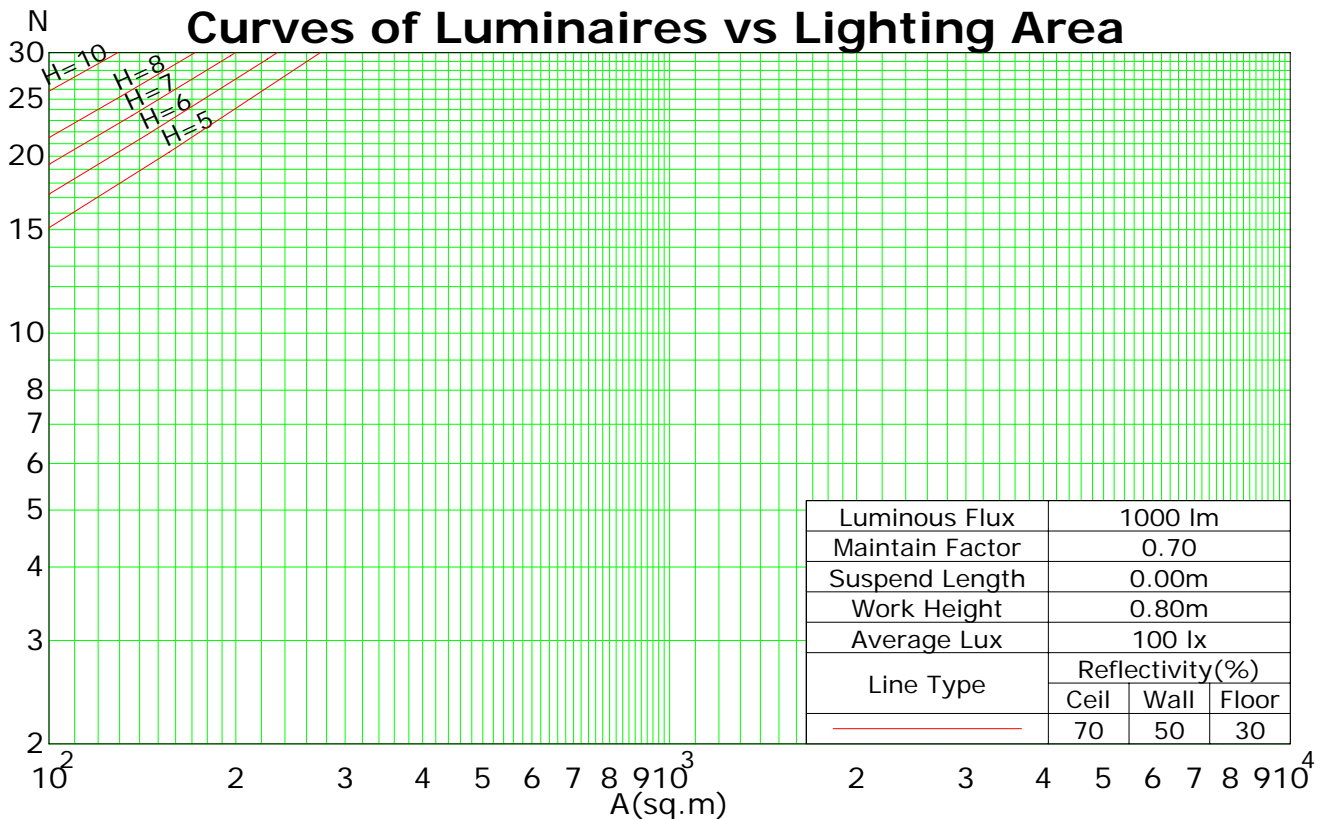
Humidity:

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	255	255	255	255	249	249	249	249	238	238	238	228	228	228	218	218	218	214
1	216	198	182	168	209	193	178	165	183	171	160	174	164	155	166	157	150	144
2	185	157	134	115	178	153	131	113	144	126	110	136	121	107	129	116	105	98
3	162	129	103	83	155	125	101	82	118	97	80	111	93	78	105	89	77	70
4	144	109	83	63	138	106	81	62	99	78	61	94	75	60	88	72	59	53
5	131	94	69	50	125	91	67	49	86	65	49	81	62	48	77	60	47	41
6	119	83	58	41	114	80	57	40	76	55	40	72	53	39	68	52	39	33
7	110	74	51	34	105	72	50	34	68	48	34	65	47	33	61	45	33	27
8	102	67	44	29	98	65	44	29	62	42	29	59	41	28	56	40	28	23
9	95	61	40	26	91	59	39	25	56	38	25	54	37	25	51	36	25	20
10	89	55	36	23	85	54	35	22	52	34	22	50	33	22	48	33	22	17

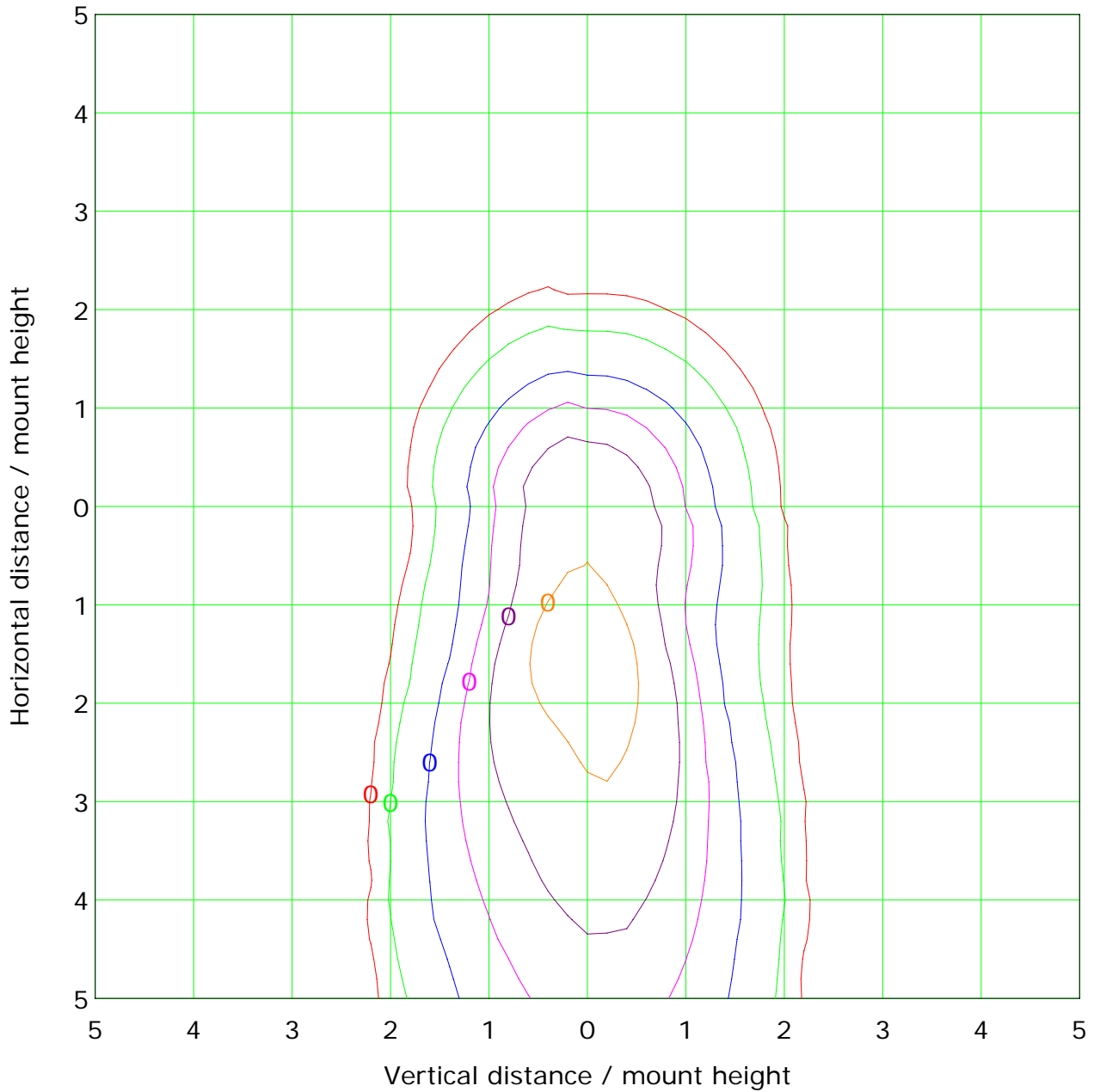
Spacing Criteria (0-180): 1.21
 Spacing Criteria (90-270): 6.09
 Spacing Criteria (Diagonal): 1.66



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:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 0.4 lx

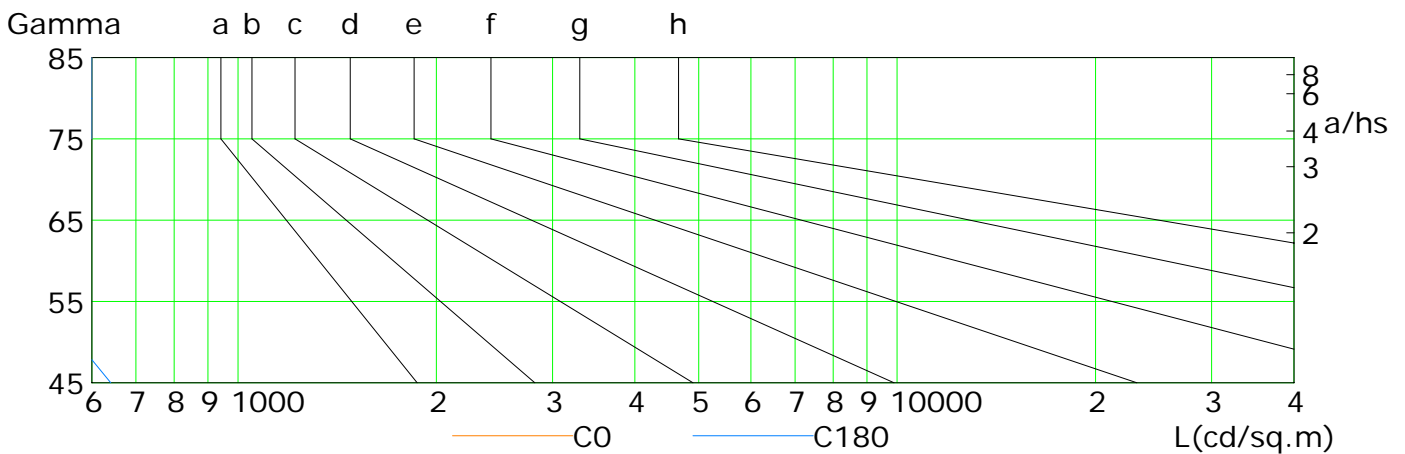
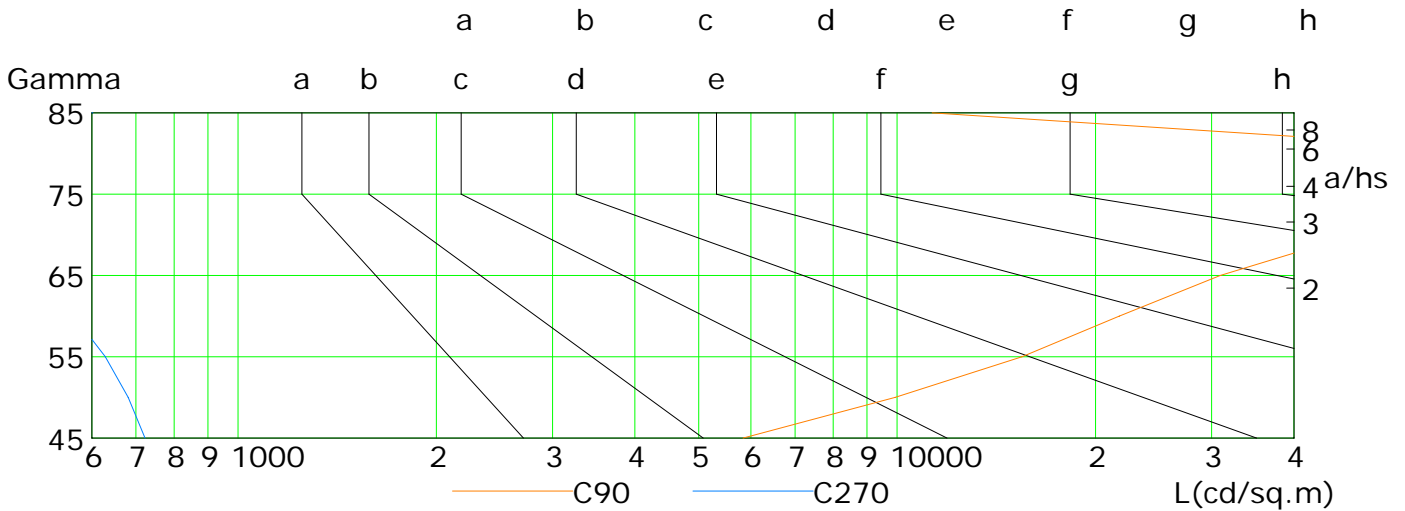
— (1%): 0.0 lx	— (2%): 0.0 lx
— (5%): 0.0 lx	— (10%): 0.0 lx
— (20%): 0.1 lx	— (50%): 0.2 lx
— (100%): 0.4 lx	

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:

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	530	446	351	246	133	7	0	0	0
C90	5839	9928	15464	21725	30915	49204	78212	101810	11302
C180	641	571	480	374	253	116	0	0	0
C270	723	682	629	564	478	386	264	54	0

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

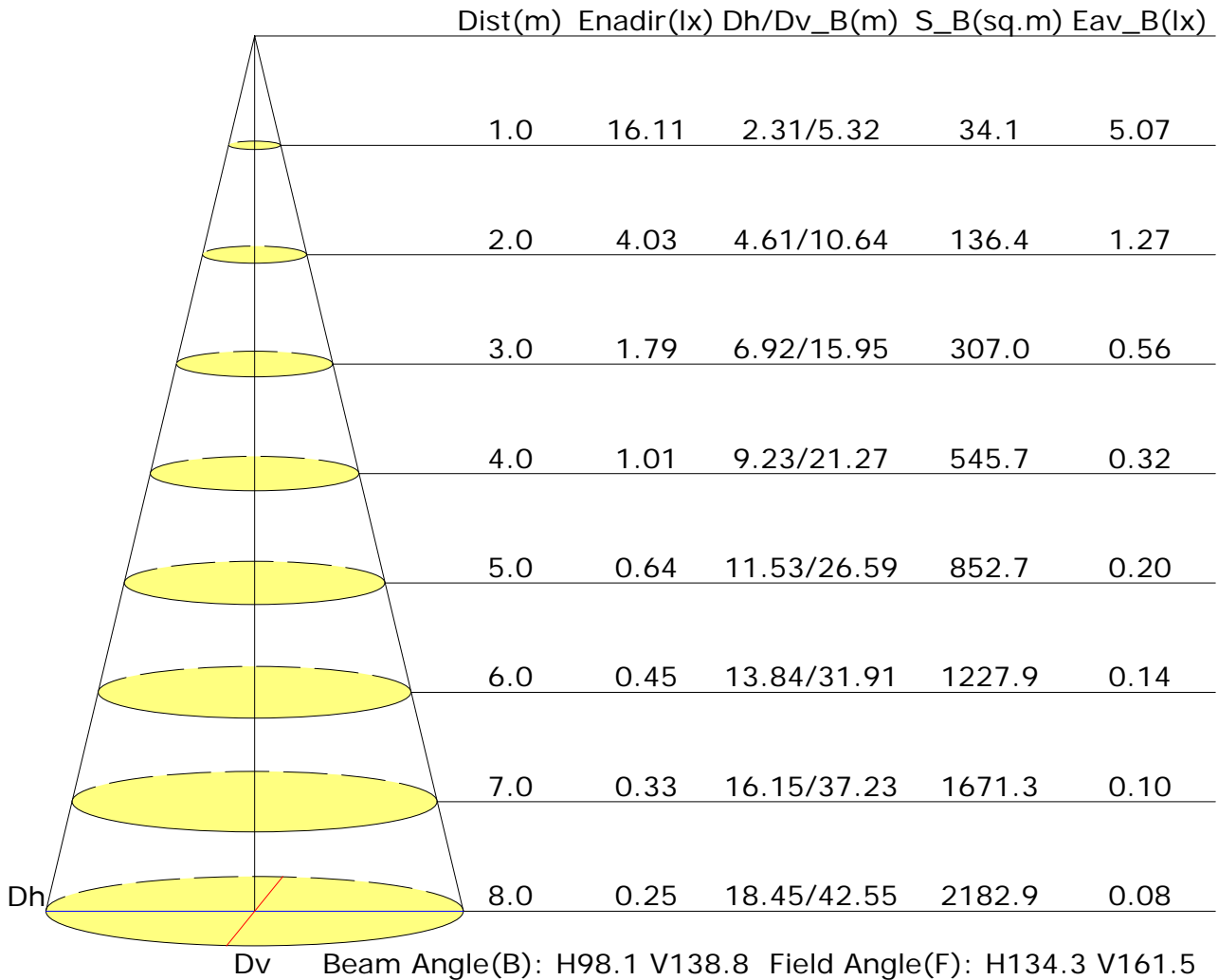
Test Device: GPM-1600L

Distance: 10.000 m

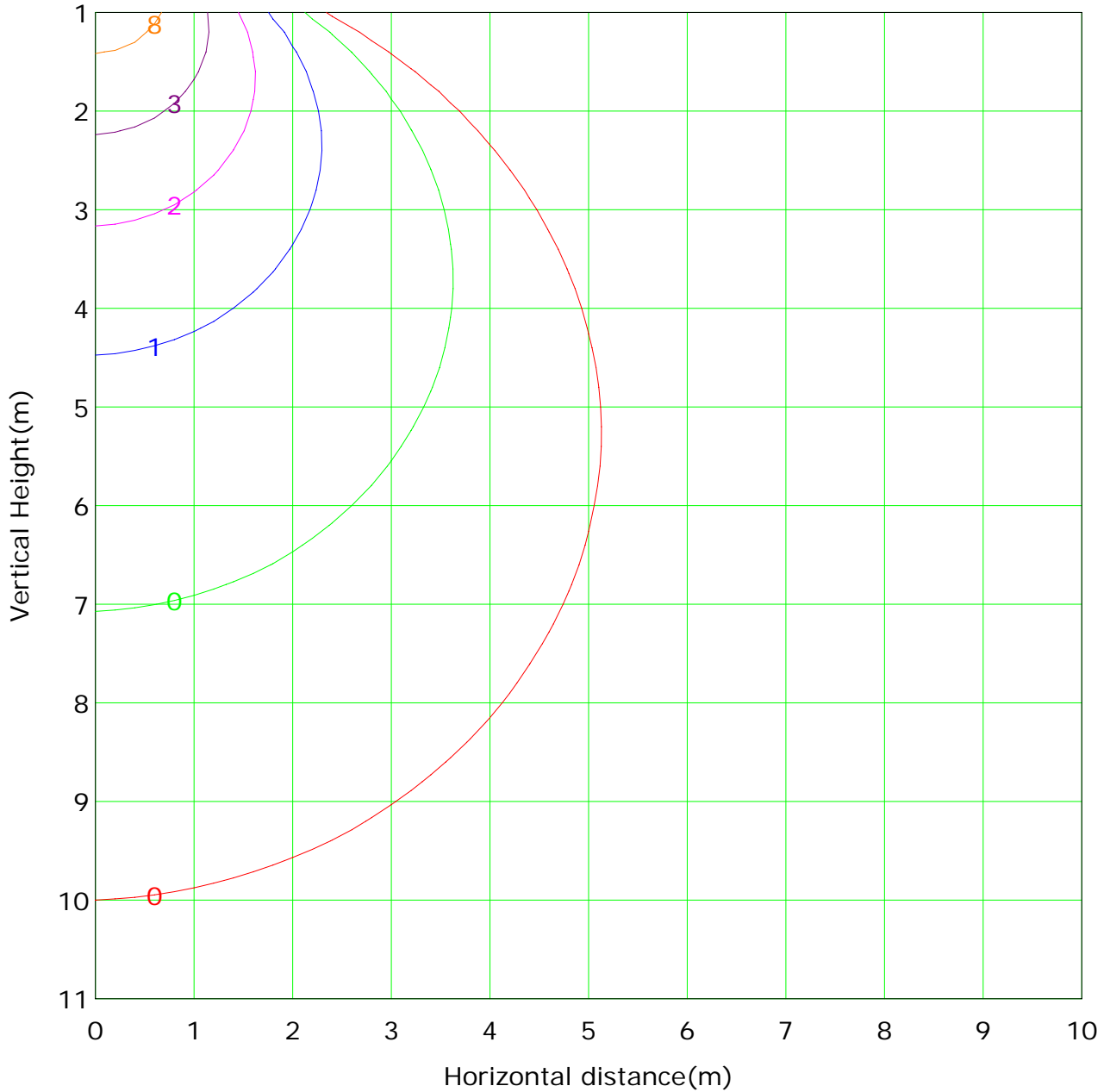
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

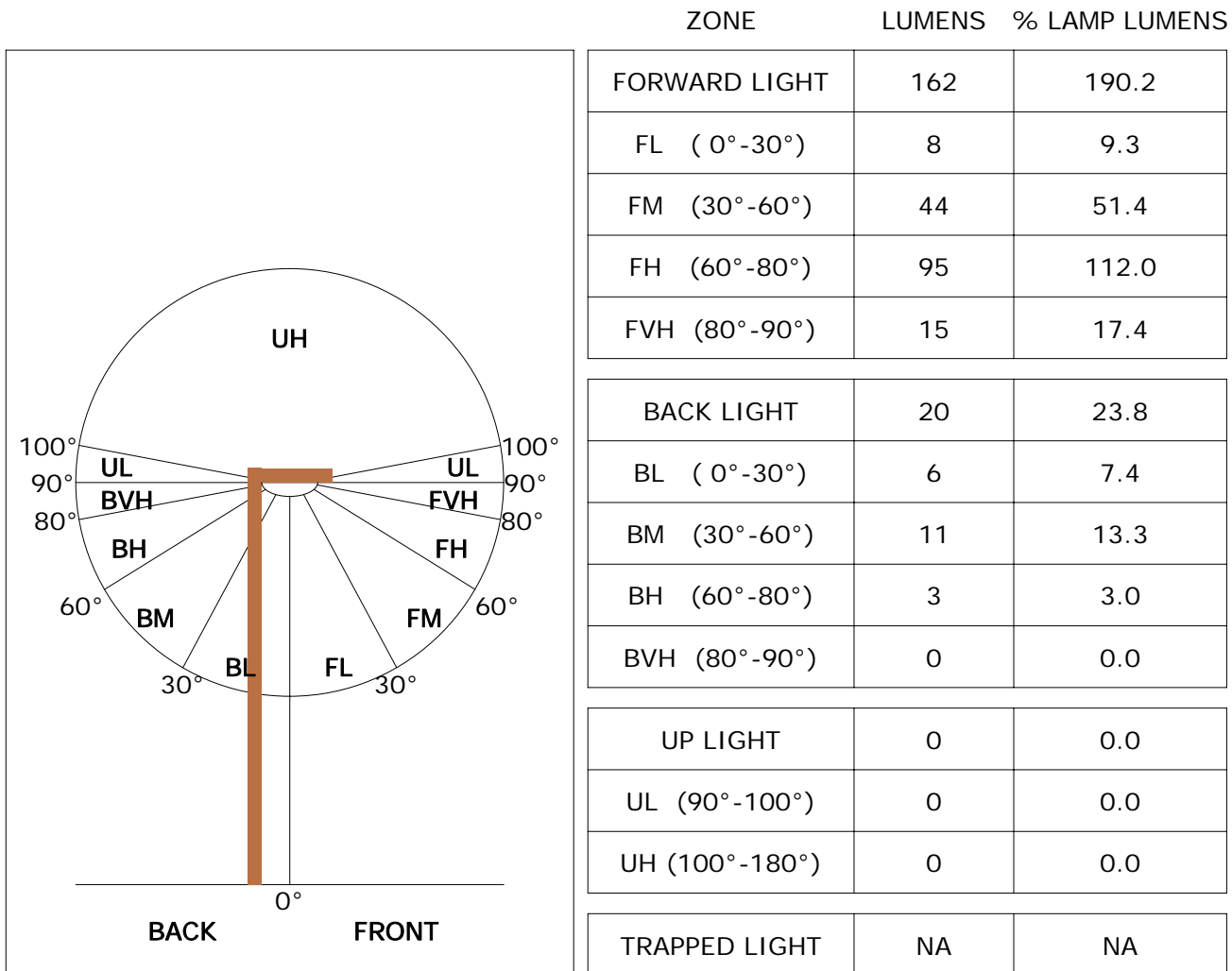


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 16.1 lx
— (1%): 0.2 lx	— (2%): 0.3 lx	
— (5%): 0.8 lx	— (10%): 1.6 lx	
— (20%): 3.2 lx	— (50%): 8.1 lx	
— (100%): 16.1 lx		

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:

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

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: