

Report No.: LG-5001

Test Time: 2015-09-13 18:05

## Luminaire Property

Luminaire Manufacturer: Light And Green LLC

Luminaire Description: LG-5001

Number of Lamps: 1

Luminous Length (mm): 1000 mm

Luminous Height (mm): 40 mm

Current: 0.8137A

Power Factor: 0.000

Lamp Catalog: 1m

Lumens per Lamp: 683.0 lm

Luminous Width (mm): 40 mm

Voltage: 12V

Power: 9.70 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 999.8 lm

Downward Ratio: 146.39%

Field Angle: H152.9 V163.5

Luminaire Efficacy Rating (LER): 103

Max. Intensity: 345.42 cd

Total Rated Lamp Lumens: 683.0 lm

Efficiency: 146.39%

Upward Ratio: 0.00%

Beam Angle: H108.8 V118.5

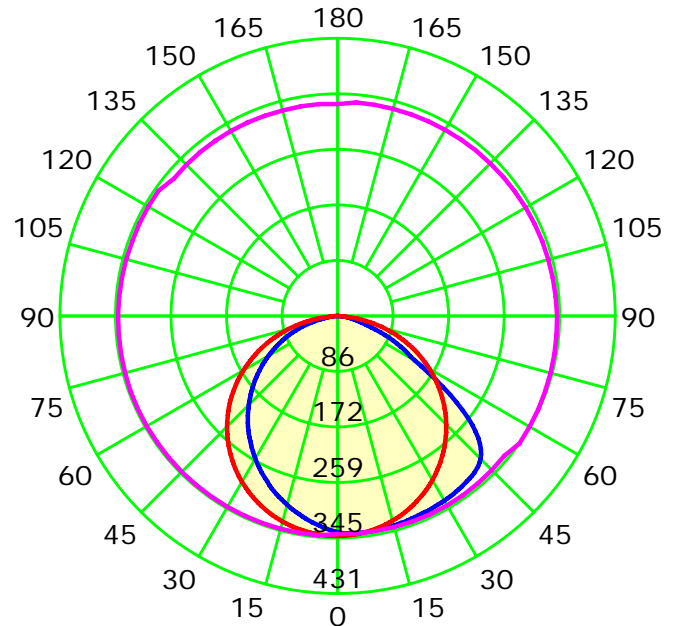
Central Intensity: 336.01 cd

Pos of Max. Intensity: H55 V4

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G4

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 10.000 m

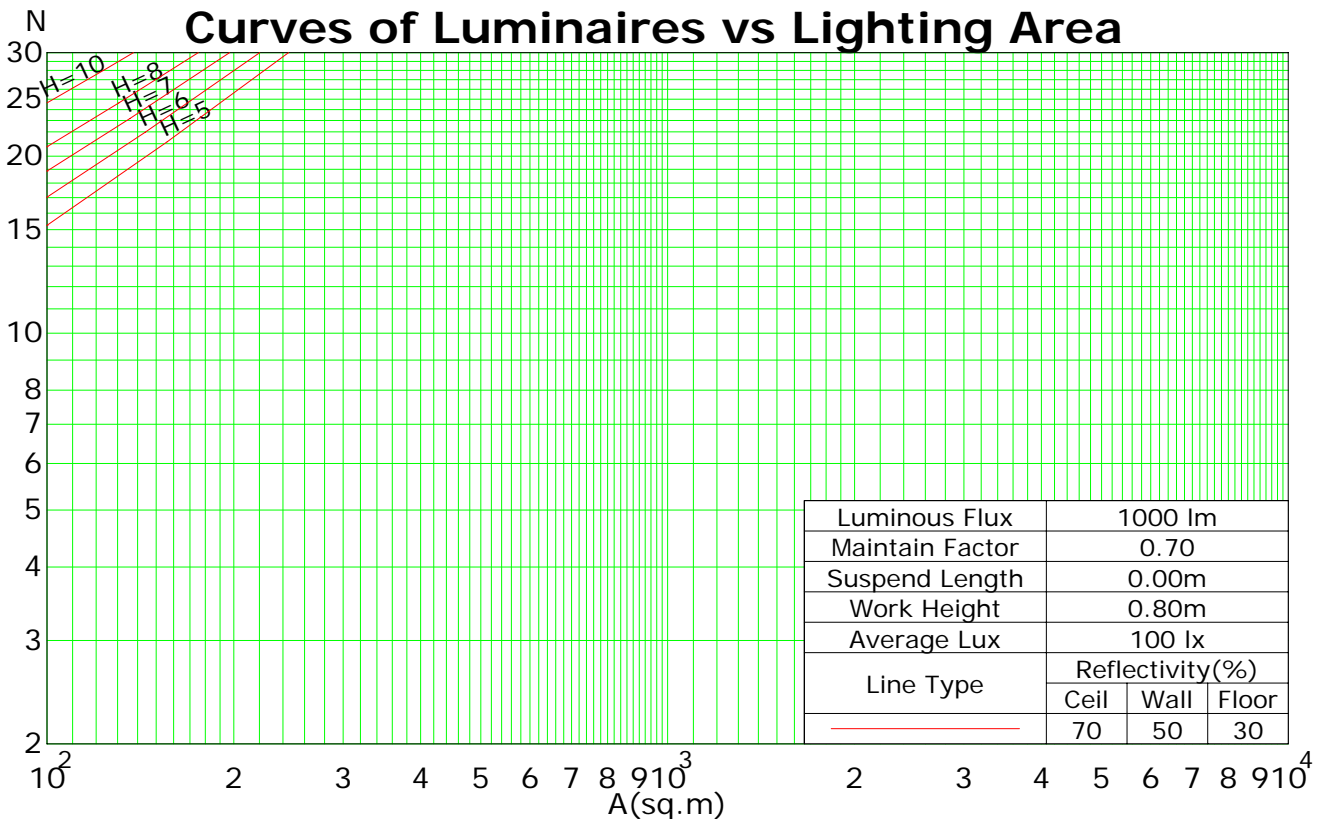
Humidity:

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	174	174	174	174	170	170	170	170	163	163	163	156	156	156	149	149	149	146
1	160	153	147	141	156	150	144	139	143	139	135	138	134	130	132	129	127	124
2	145	133	123	115	141	130	121	114	125	118	111	120	114	108	116	111	106	103
3	132	117	105	95	129	115	103	95	110	101	93	106	98	91	102	96	90	86
4	121	103	90	81	118	101	89	80	98	87	79	94	85	78	91	83	77	74
5	111	92	79	69	108	90	78	69	87	76	68	84	75	67	82	73	67	63
6	102	83	70	60	100	81	69	60	79	68	59	76	66	59	74	65	58	55
7	95	75	62	53	92	74	61	53	71	60	52	69	59	52	67	58	52	49
8	88	68	56	47	86	67	55	47	65	54	47	63	54	46	62	53	46	43
9	82	63	50	42	80	62	50	42	60	49	42	58	49	42	57	48	41	39
10	77	58	46	38	75	57	46	38	55	45	38	54	44	38	53	44	38	35

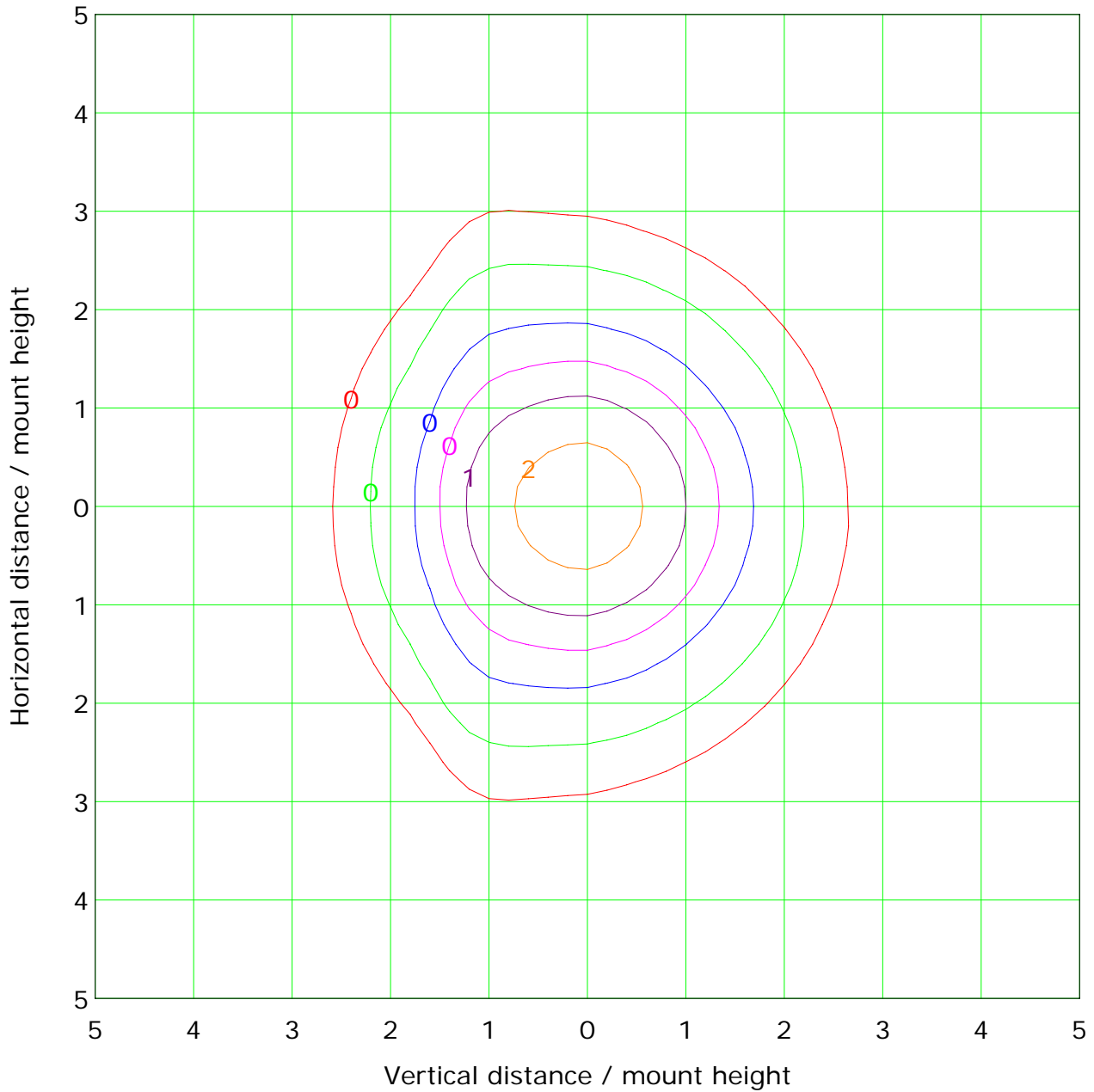
Spacing Criteria (0-180): 1.31  
 Spacing Criteria (90-270): 1.29  
 Spacing Criteria (Diagonal): 1.44



C Plane (°):0.0-360.0: 5.0  
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 Test Device: GPM-1600L  
 Distance: 10.000 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 3.4 lx	
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 1%): 0.0 lx</li> <li><span style="color: blue;">—</span> ( 5%): 0.2 lx</li> <li><span style="color: purple;">—</span> (20%): 0.7 lx</li> <li><span style="color: green;">—</span> (100%): 3.4 lx</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: green;">—</span> ( 2%): 0.1 lx</li> <li><span style="color: magenta;">—</span> (10%): 0.3 lx</li> <li><span style="color: orange;">—</span> (50%): 1.7 lx</li> </ul>		

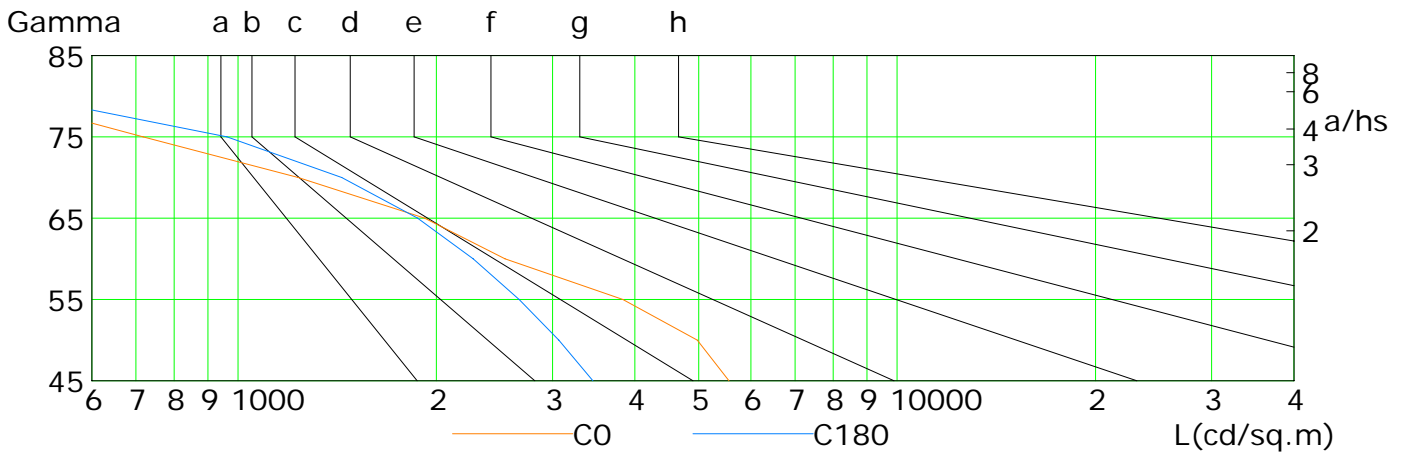
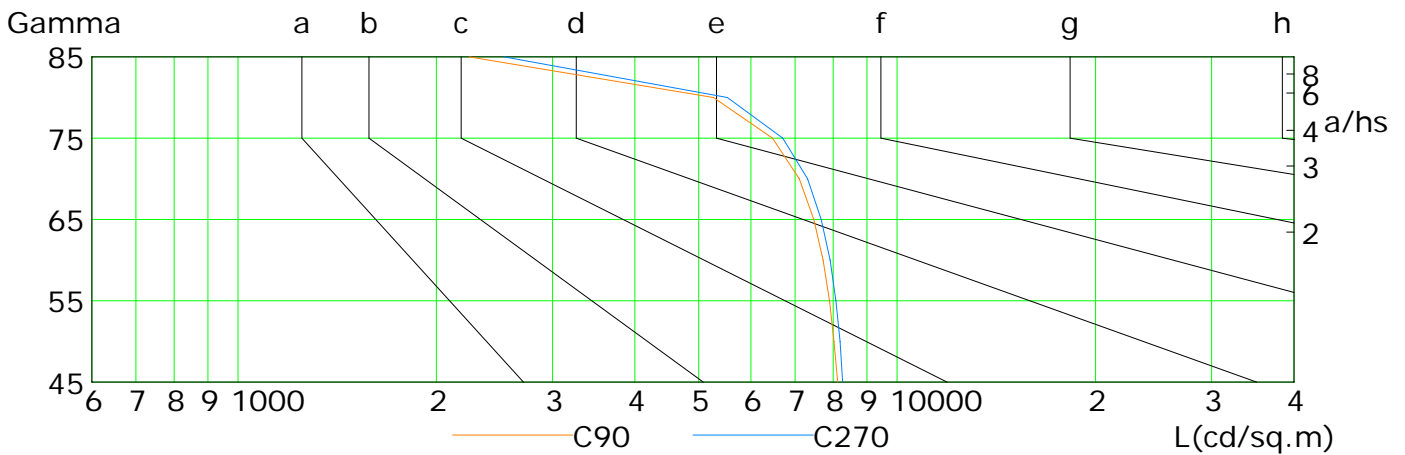
C Plane (°):0.0-360.0: 5.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: GPM-1600L  
 Distance: 10.000 m  
 Humidity:  
 Inspector:

## 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	5557	4975	3836	2542	1920	1234	718	424	141
C90	8123	8020	7897	7719	7474	7105	6471	5265	2242
C180	3455	3067	2670	2273	1872	1436	962	471	114
C270	8268	8192	8074	7915	7671	7313	6706	5527	2533

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

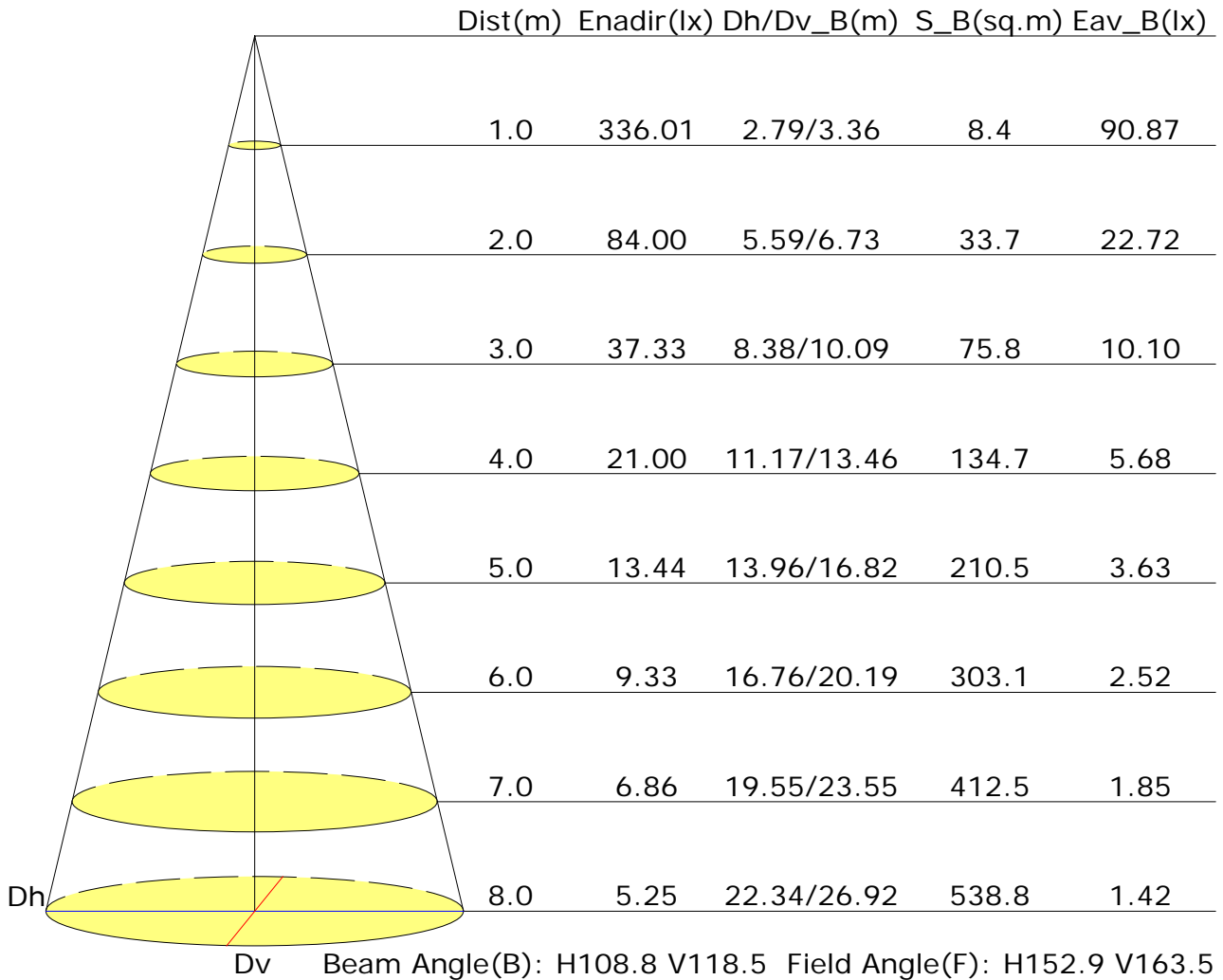
Test Device: GPM-1600L

Distance: 10.000 m

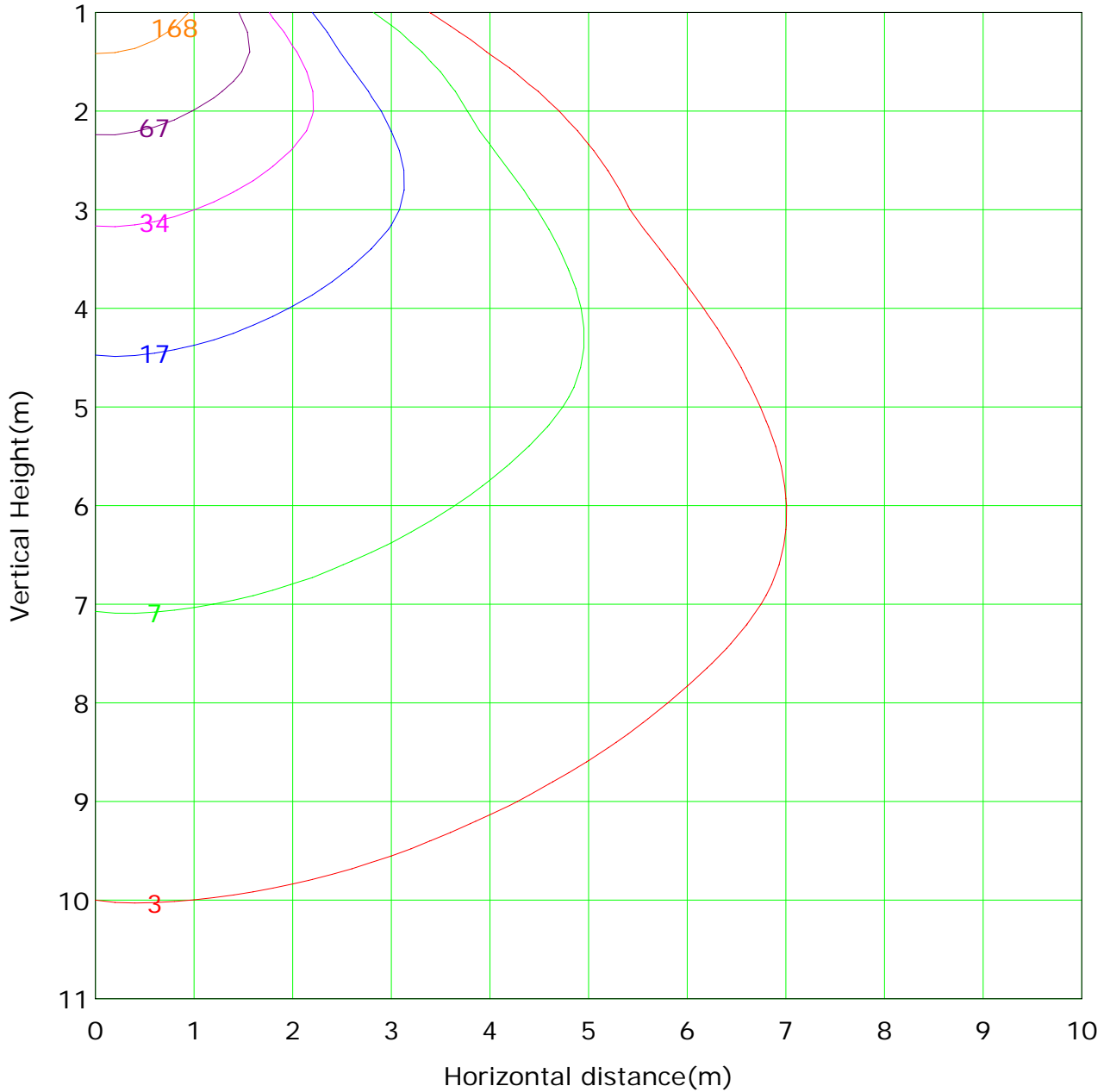
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot

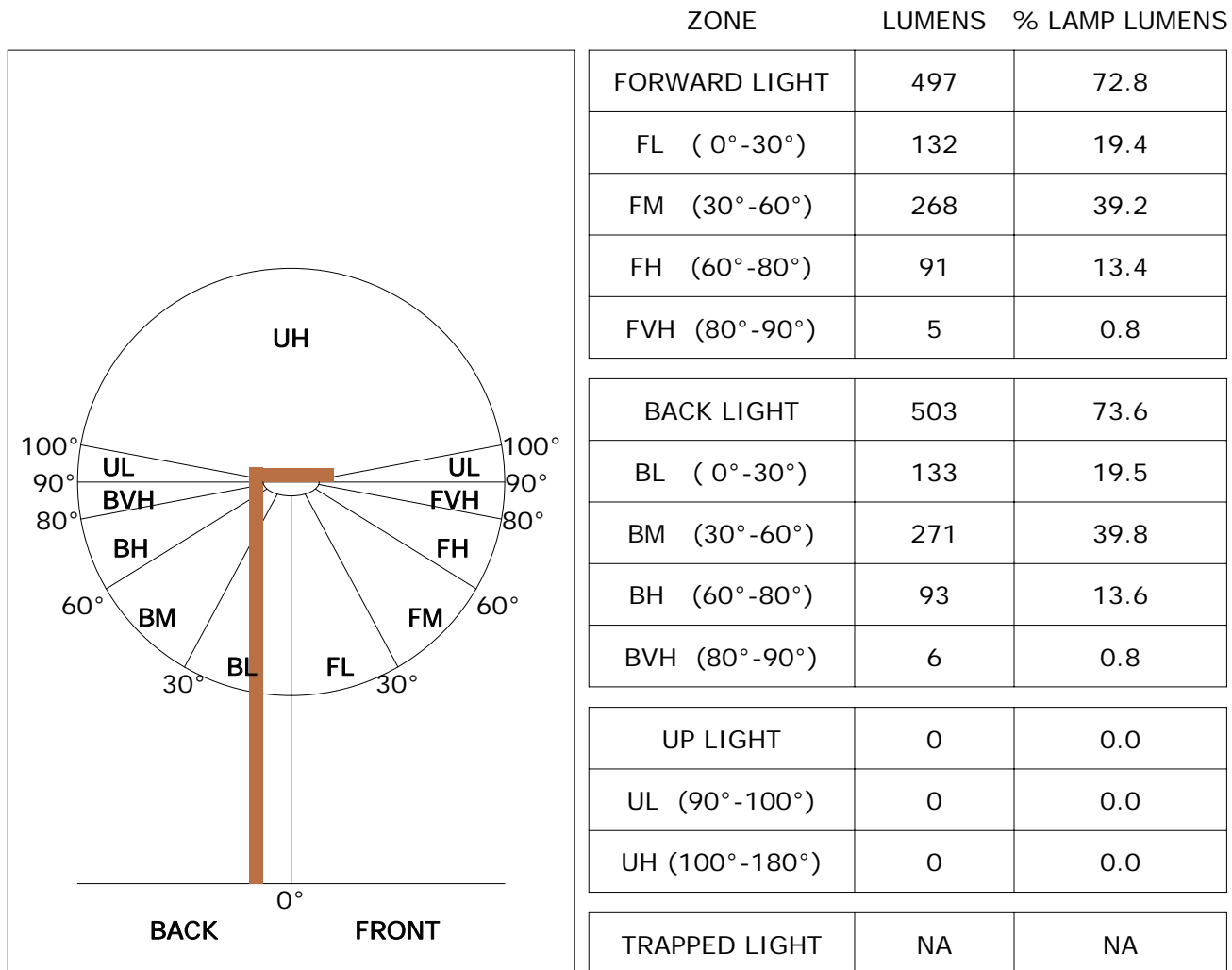


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 336.0 lx
— ( 1%): 3.4 lx	— ( 2%): 6.7 lx	
— ( 5%): 16.8 lx	— ( 10%): 33.6 lx	
— ( 20%): 67.2 lx	— ( 50%): 168.0 lx	
— (100%): 336.0 lx		

C Plane (°):0.0-360.0: 5.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-180.0:1.0  
 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)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U0 G0

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