

Report No.: LG-9012

Test Time: 2015-09-13 14:44

## Luminaire Property

Luminaire Manufacturer: Light And Green LLC

Luminaire Description: LG-9012

Number of Lamps: 2

Luminous Length (mm): 260 mm

Luminous Height (mm): 46 mm

Current: 0.182 A

Power Factor: 0.983

Lamp Catalog: 9W LED

Lumens per Lamp: 720.0 lm

Luminous Width (mm): 120 mm

Voltage: 110.3 V

Power: 19.75 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 3138.5 lm

Downward Ratio: 217.95%

Field Angle: H80.7 V81.0

Luminaire Efficacy Rating (LER): 159

Max. Intensity: 5312.44 cd

Total Rated Lamp Lumens: 1440.0 lm

Efficiency: 217.95%

Upward Ratio: 0.00%

Beam Angle: H39.5 V40.2

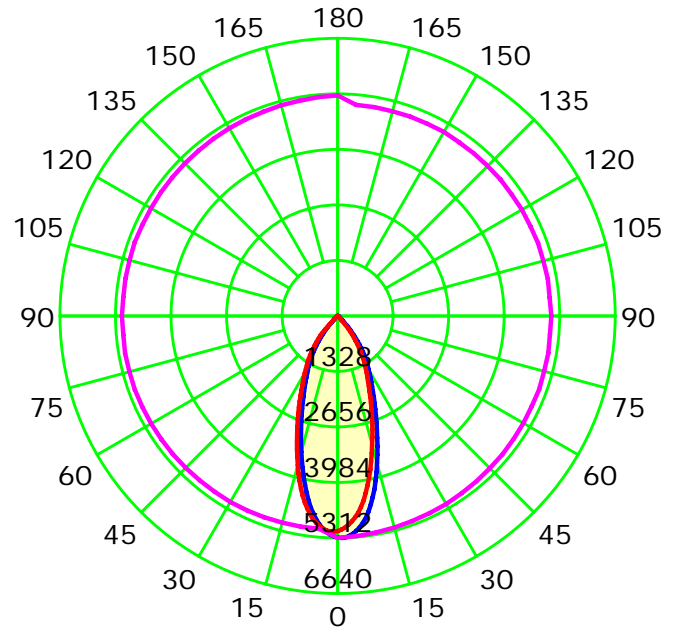
Central Intensity: 5302.76 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 10.000 m

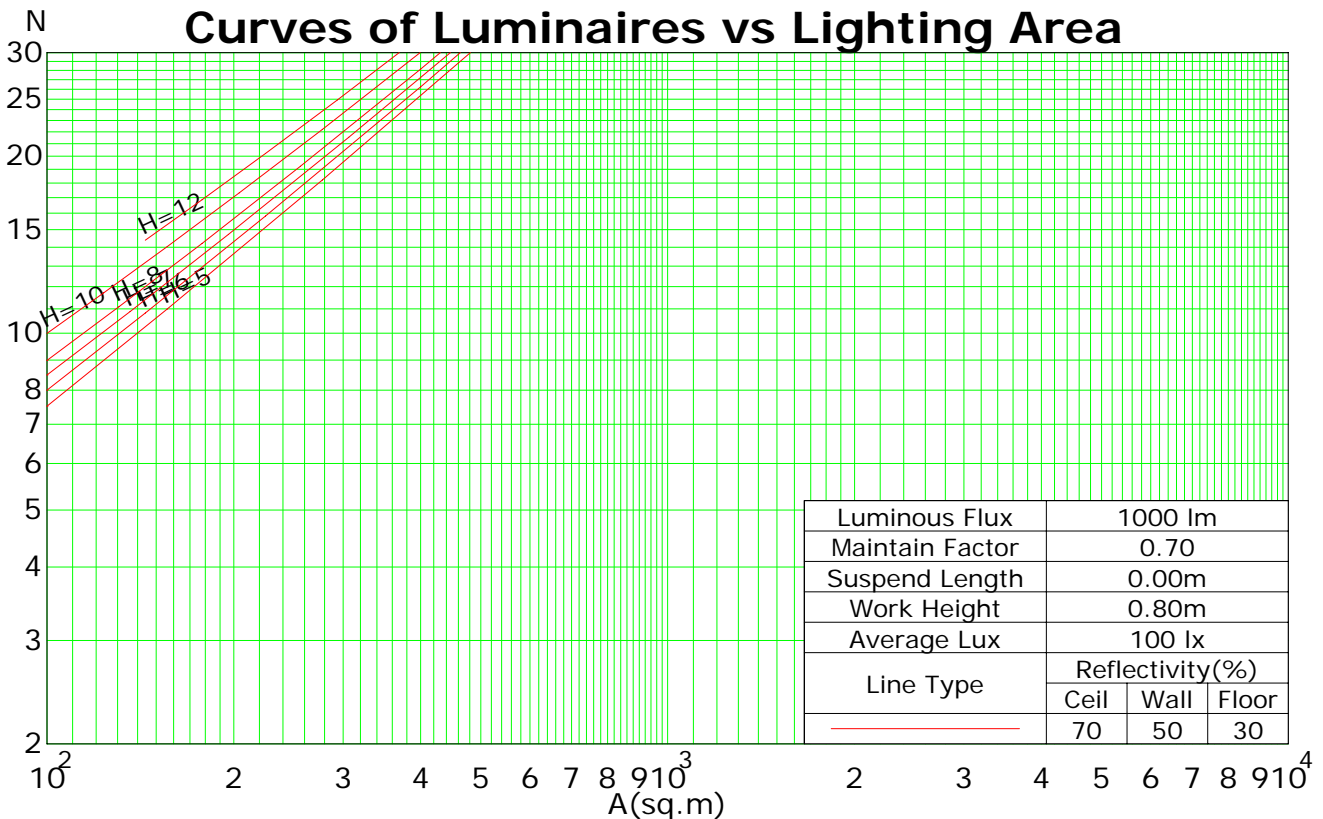
Humidity:

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	259	259	259	259	253	253	253	253	242	242	242	232	232	232	222	222	222	218
1	248	242	237	232	242	237	232	228	228	225	221	220	217	215	213	210	208	204
2	236	226	217	210	231	222	214	207	215	208	203	208	203	199	202	198	194	191
3	224	211	200	192	220	208	198	190	202	194	187	197	190	185	192	186	182	178
4	214	198	186	177	210	195	184	176	191	181	174	186	178	172	182	176	170	167
5	203	186	174	164	200	184	172	164	180	170	162	176	168	161	173	165	159	156
6	194	175	162	153	191	173	162	153	170	160	152	167	158	151	164	156	150	147
7	185	165	153	144	182	164	152	143	161	150	143	159	149	142	156	148	141	138
8	176	156	144	135	174	155	143	135	153	142	134	151	141	134	149	140	133	130
9	169	148	136	128	166	147	136	127	145	135	127	143	134	127	142	133	126	123
10	161	141	129	121	159	140	128	121	138	128	120	137	127	120	135	126	120	117

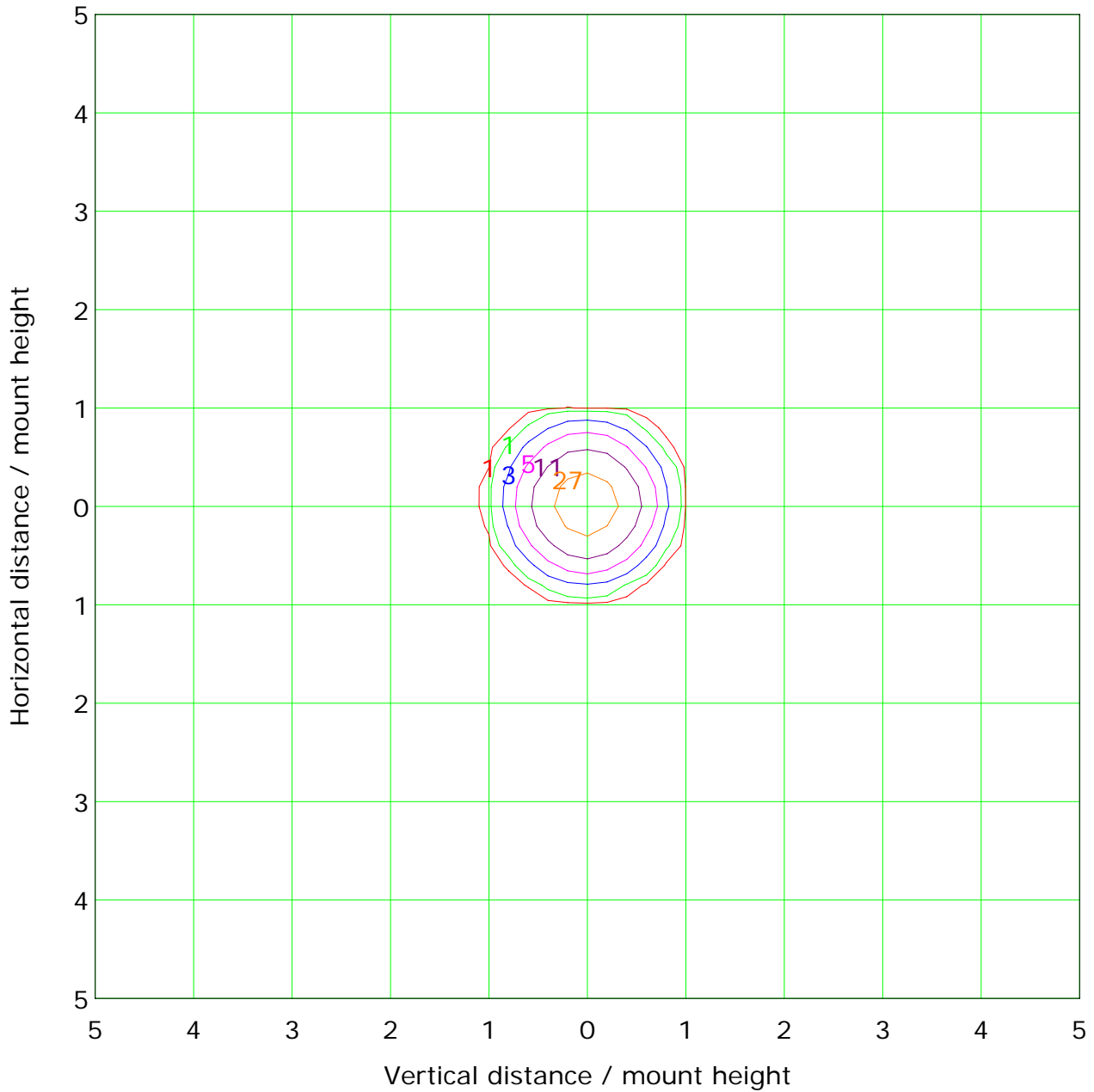
Spacing Criteria (0-180): 0.63  
 Spacing Criteria (90-270): 0.64  
 Spacing Criteria (Diagonal): 0.68



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

Gamma Plane (°):0.0-90.0: 1.0  
 Test Device: GPM-1600L  
 Distance: 10.000 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 53.1 lx	
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 1%): 0.5 lx</li> <li><span style="color: blue;">—</span> ( 5%): 2.7 lx</li> <li><span style="color: purple;">—</span> ( 20%): 10.6 lx</li> <li><span style="color: green;">—</span> (100%): 53.1 lx</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: green;">—</span> ( 2%): 1.1 lx</li> <li><span style="color: purple;">—</span> ( 10%): 5.3 lx</li> <li><span style="color: orange;">—</span> ( 50%): 26.6 lx</li> </ul>		

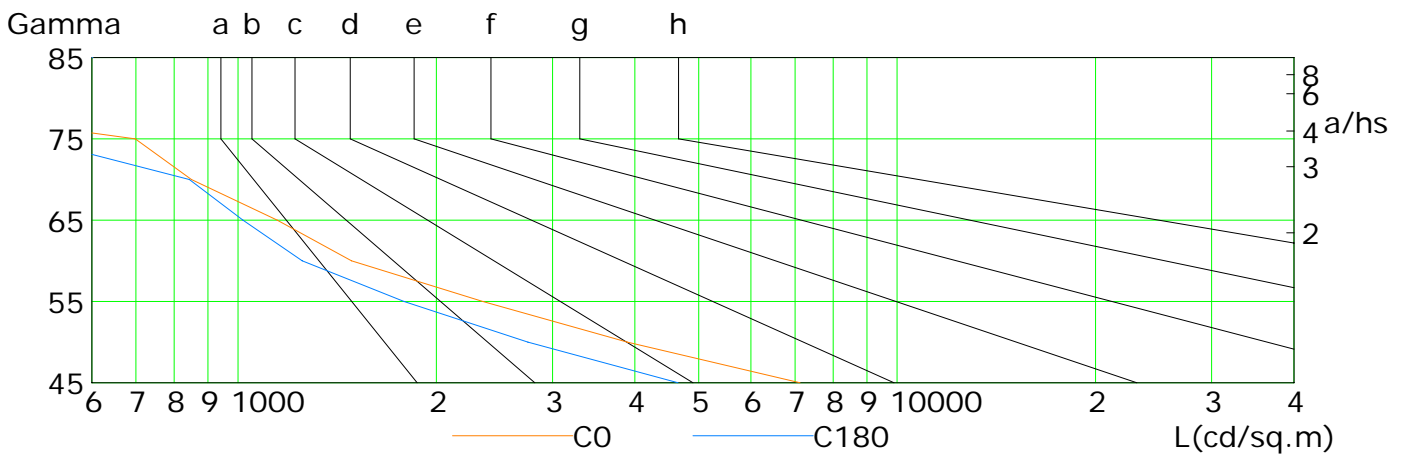
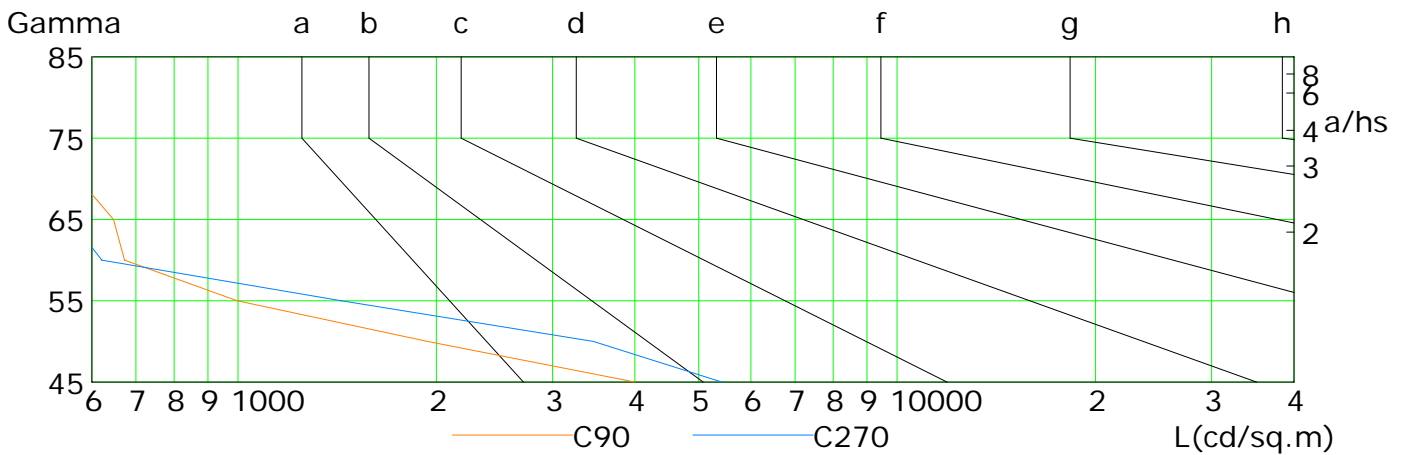
C Plane (°):0.0-360.0: 5.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

Gamma Plane (°):0.0-90.0:1.0  
 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								
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	7123	3896	2351	1487	1147	850	699	251	0
C90	4005	1939	997	673	647	573	411	165	0
C180	4653	2754	1786	1251	1017	843	486	130	0
C270	5423	3461	1435	621	557	508	367	137	0

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

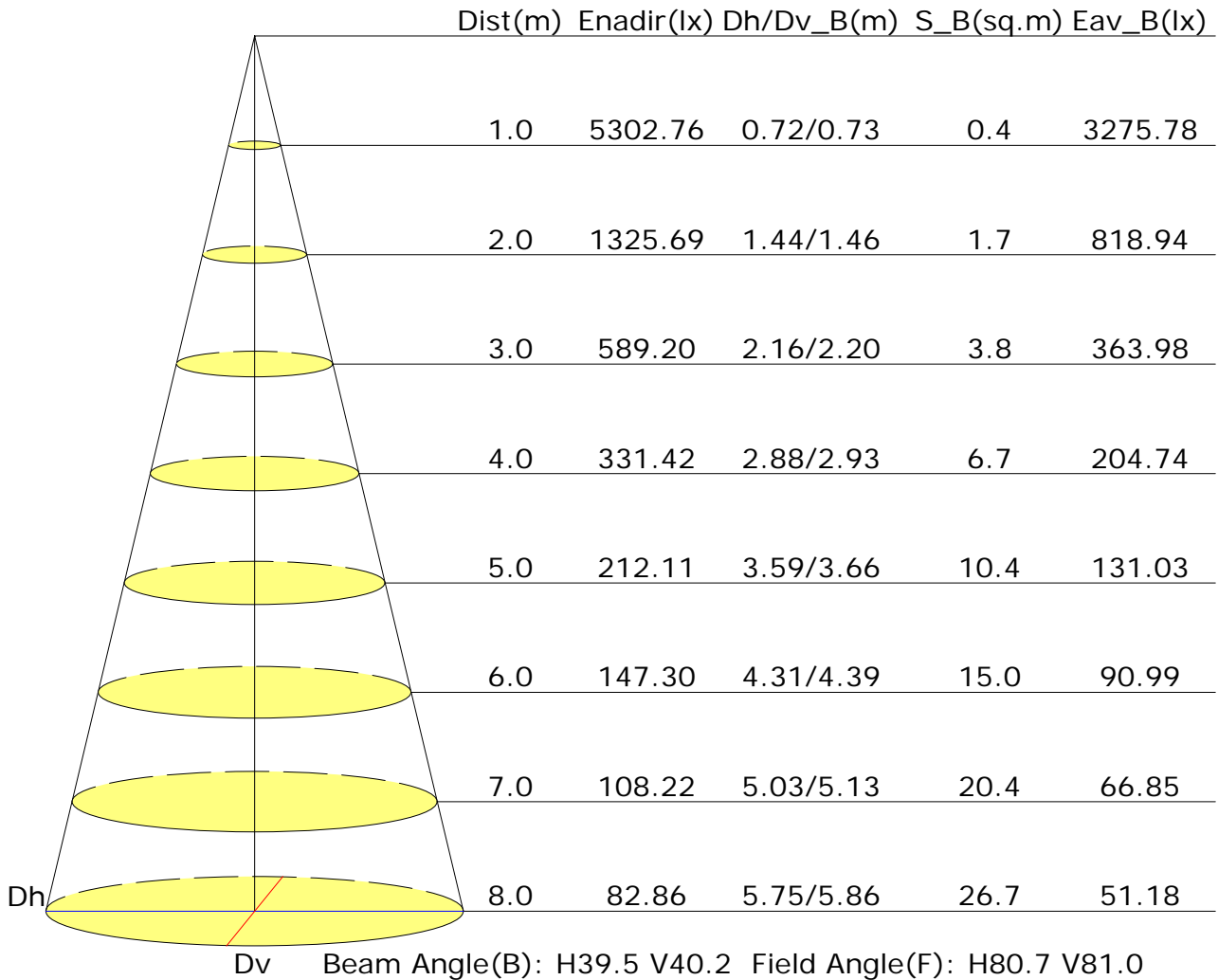
Test Device: GPM-1600L

Distance: 10.000 m

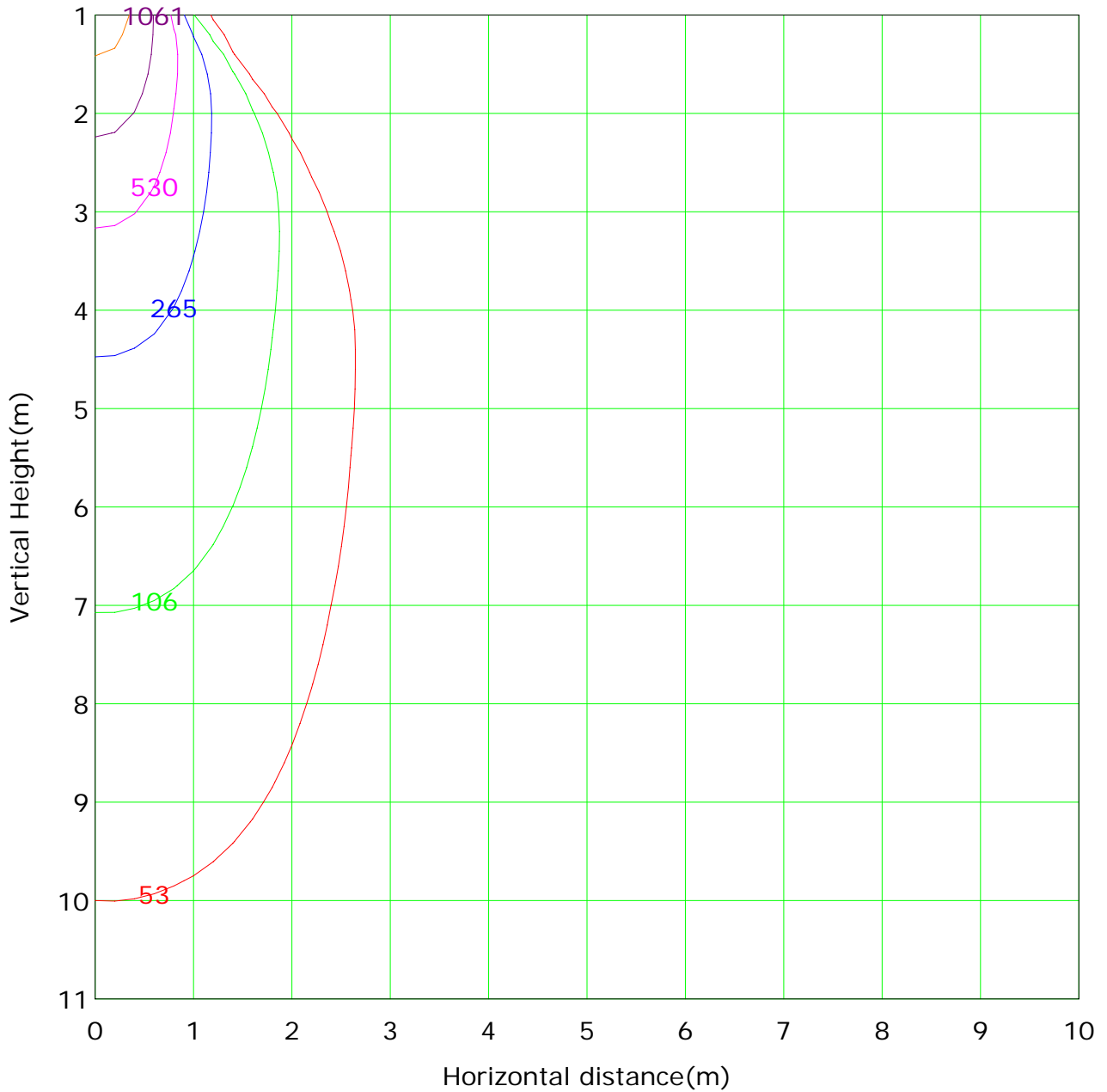
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



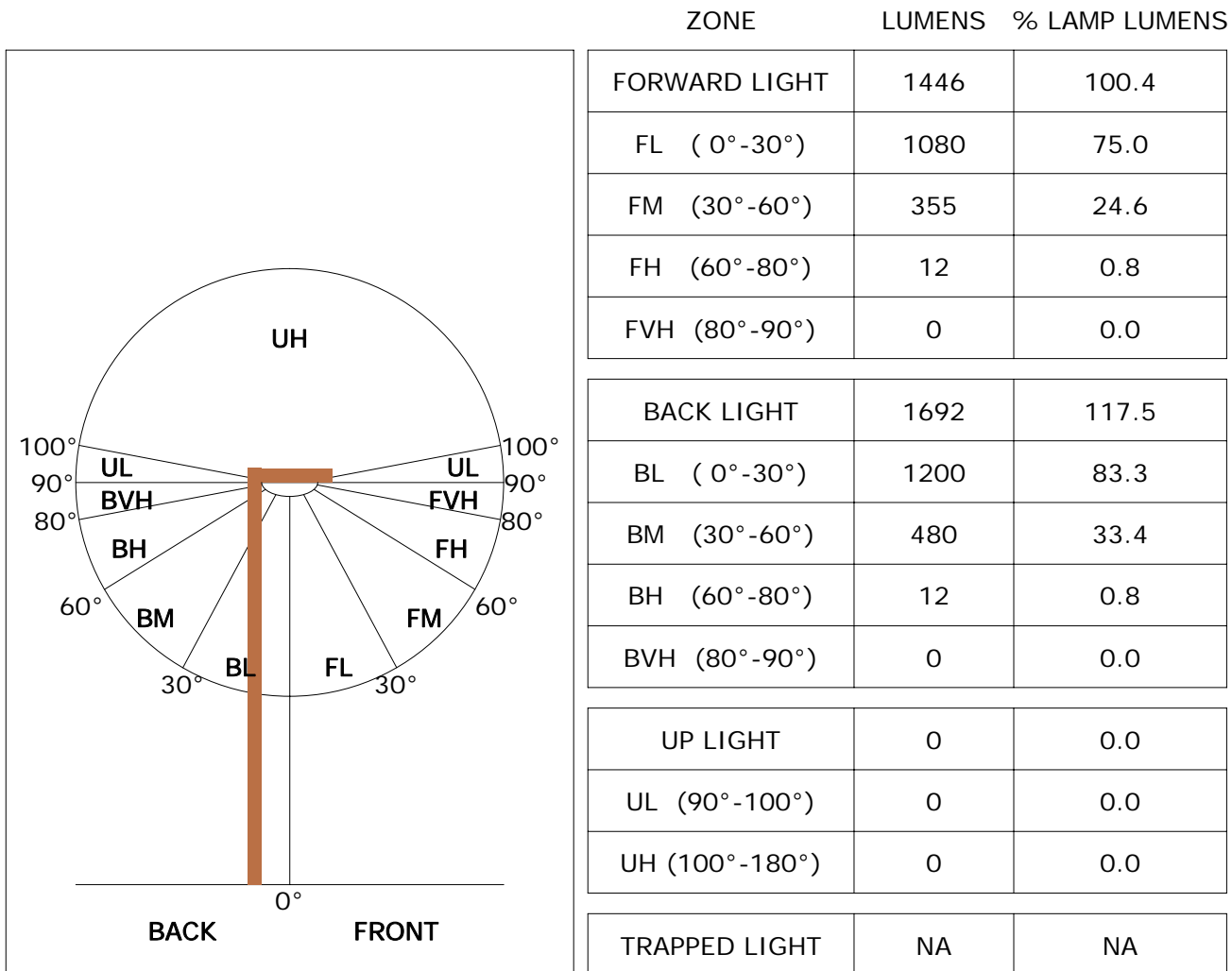
Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 5302.8 lx

— ( 1%): 53.0 lx	— ( 2%): 106.1 lx
— ( 5%): 265.1 lx	— ( 10%): 530.3 lx
— ( 20%): 1060.6 lx	— ( 50%): 2651.4 lx
— (100%): 5302.8 lx	

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

Gamma Plane (°): 0.0-90.0: 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)	B3 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 U0 G0

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 Test Device: GPM-1600L  
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