

Report No.: LG-9011

Test Time: 2015-09-13 16:13

Luminaire Property

Luminaire Manufacturer: Light And Green LLC

Luminaire Description: LG-9011

Number of Lamps: 2

Luminous Length (mm): 240 mm

Luminous Height (mm): 46 mm

Current: 0.182 A

Power Factor: 0.982

Lamp Catalog: 9W LED

Lumens per Lamp: 720.0 lm

Luminous Width (mm): 120 mm

Voltage: 110.3 V

Power: 19.71 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3125.1 lm

Downward Ratio: 217.02%

Field Angle: H79.3 V75.3

Luminaire Efficacy Rating (LER): 159

Max. Intensity: 5312.15 cd

Total Rated Lamp Lumens: 1440.0 lm

Efficiency: 217.02%

Upward Ratio: 0.00%

Beam Angle: H39.6 V40.0

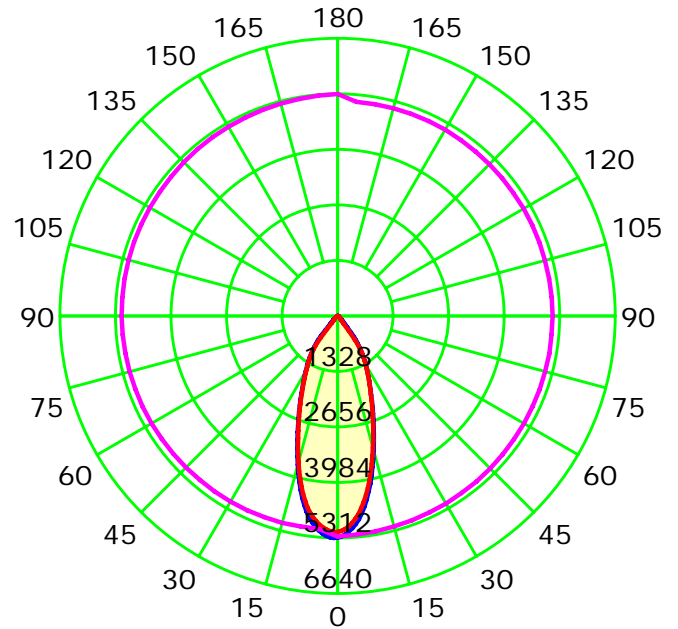
Central Intensity: 5302.31 cd

Pos of Max. Intensity: H180 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

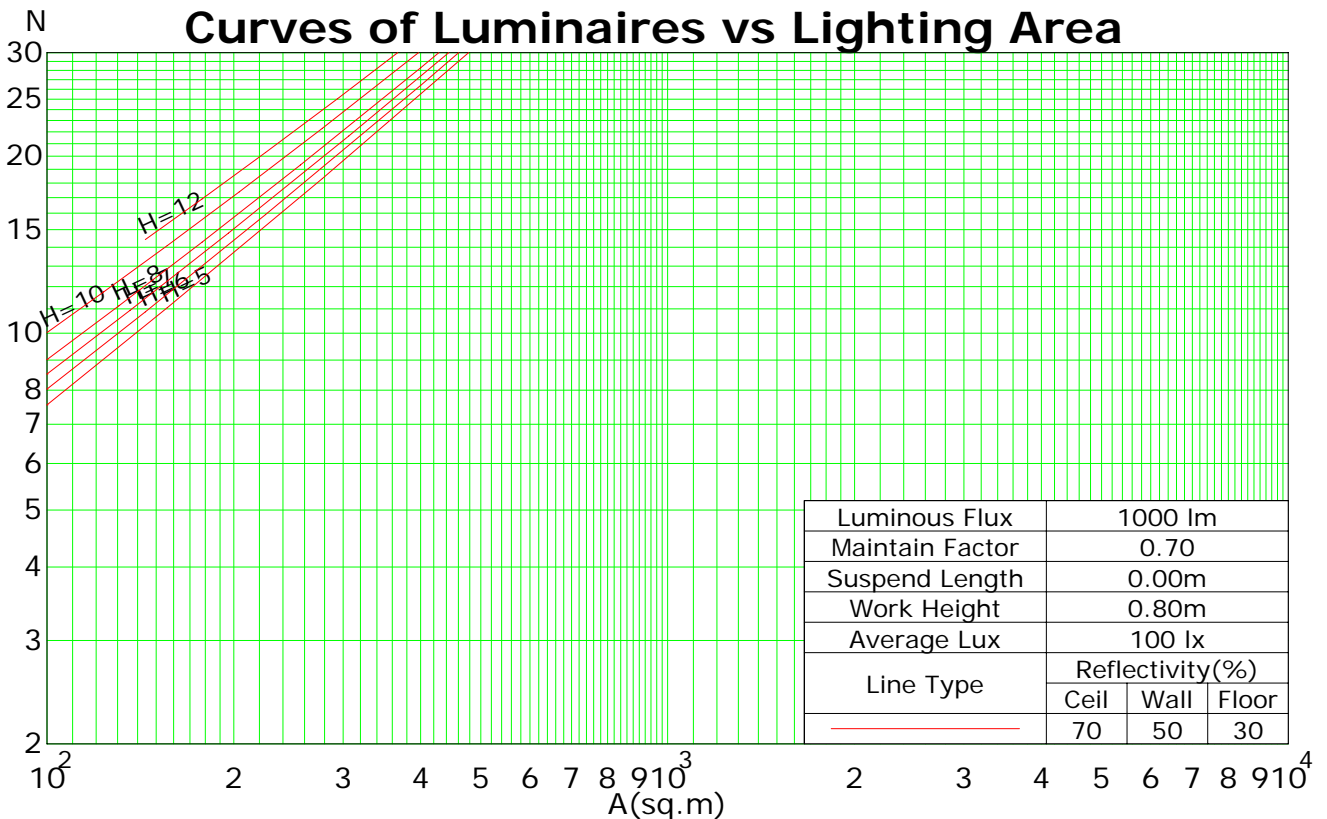
Humidity:

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	258	258	258	258	252	252	252	252	241	241	241	231	231	231	221	221	221	217
1	247	241	235	230	241	236	231	227	227	223	220	219	216	213	212	209	207	203
2	235	224	216	209	230	221	213	206	214	207	202	207	202	197	201	197	193	190
3	223	210	199	191	219	207	197	189	201	193	186	196	189	183	191	185	181	177
4	213	197	185	176	209	194	183	175	190	180	173	185	177	171	181	175	169	166
5	202	185	173	164	199	183	171	163	179	169	161	175	167	160	172	165	159	156
6	193	174	162	153	190	173	161	152	169	159	151	166	157	150	164	155	149	146
7	184	165	152	143	181	163	151	143	161	150	142	158	148	141	156	147	141	138
8	176	156	143	135	173	155	143	135	152	142	134	150	140	133	148	139	133	130
9	168	148	136	127	166	147	135	127	145	134	127	143	133	126	141	132	126	123
10	161	141	129	121	159	140	128	120	138	127	120	136	127	120	135	126	119	117

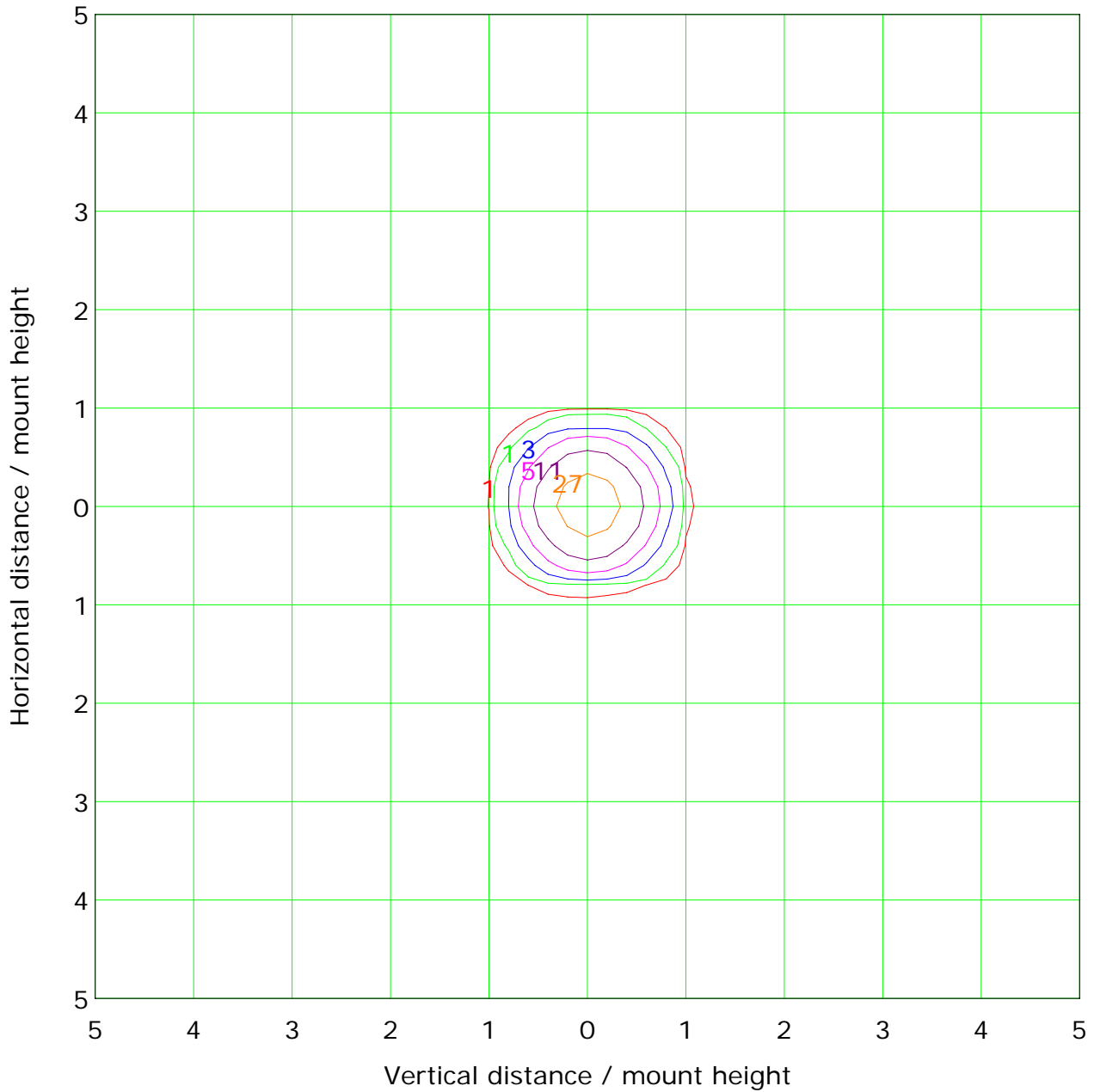
Spacing Criteria (0-180): 0.63
 Spacing Criteria (90-270): 0.63
 Spacing Criteria (Diagonal): 0.68



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



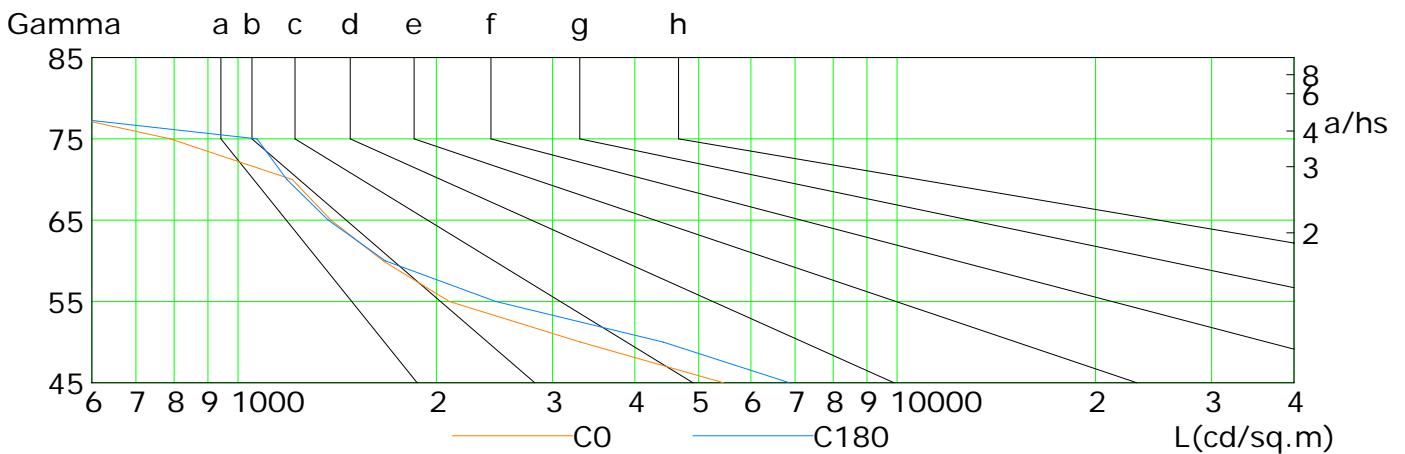
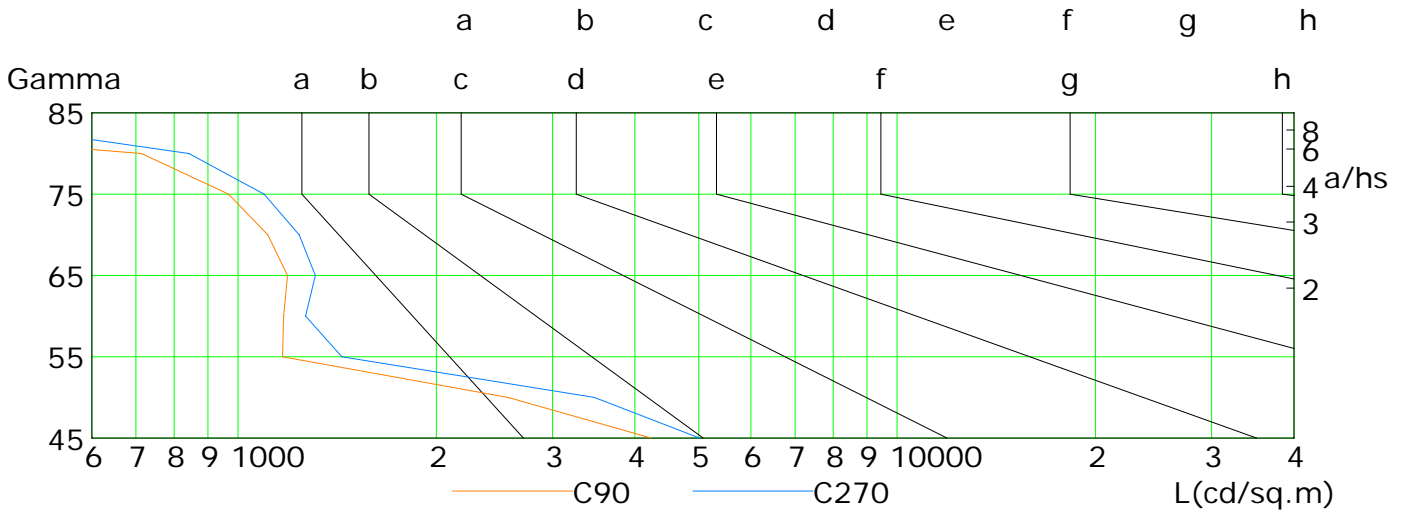
Mounting Height: 10.0m		Max Lux(100%): 53.1 lx	
<ul style="list-style-type: none"> — (1%): 0.5 lx — (5%): 2.7 lx — (20%): 10.6 lx — (100%): 53.1 lx 	<ul style="list-style-type: none"> — (2%): 1.1 lx — (10%): 5.3 lx — (50%): 26.5 lx 		

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:

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

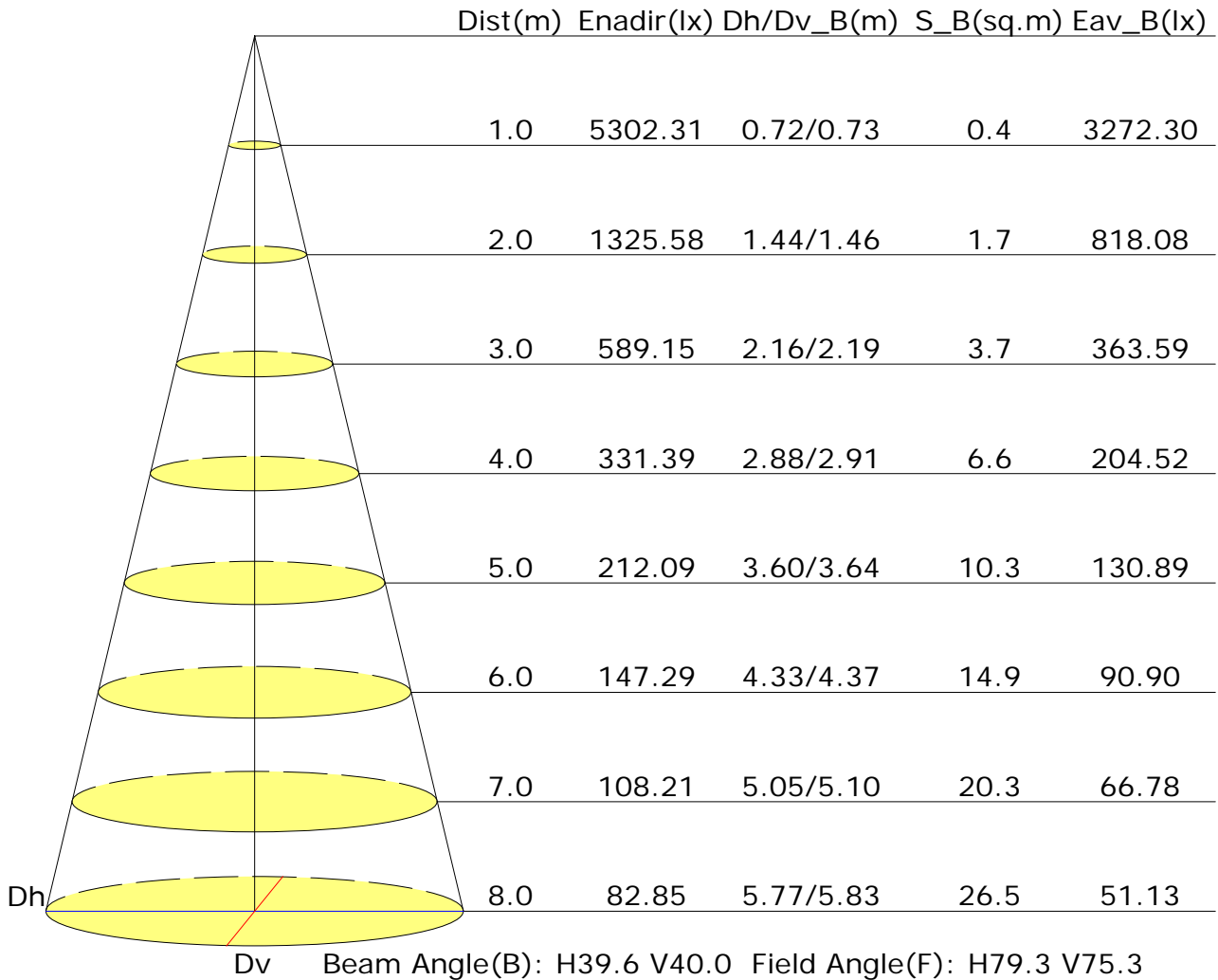


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5453	3309	2093	1660	1384	1208	789	413	66
C90	4236	2569	1168	1173	1188	1110	967	714	130
C180	6865	4420	2460	1673	1371	1186	1069	301	22
C270	5016	3473	1438	1266	1310	1238	1096	842	316

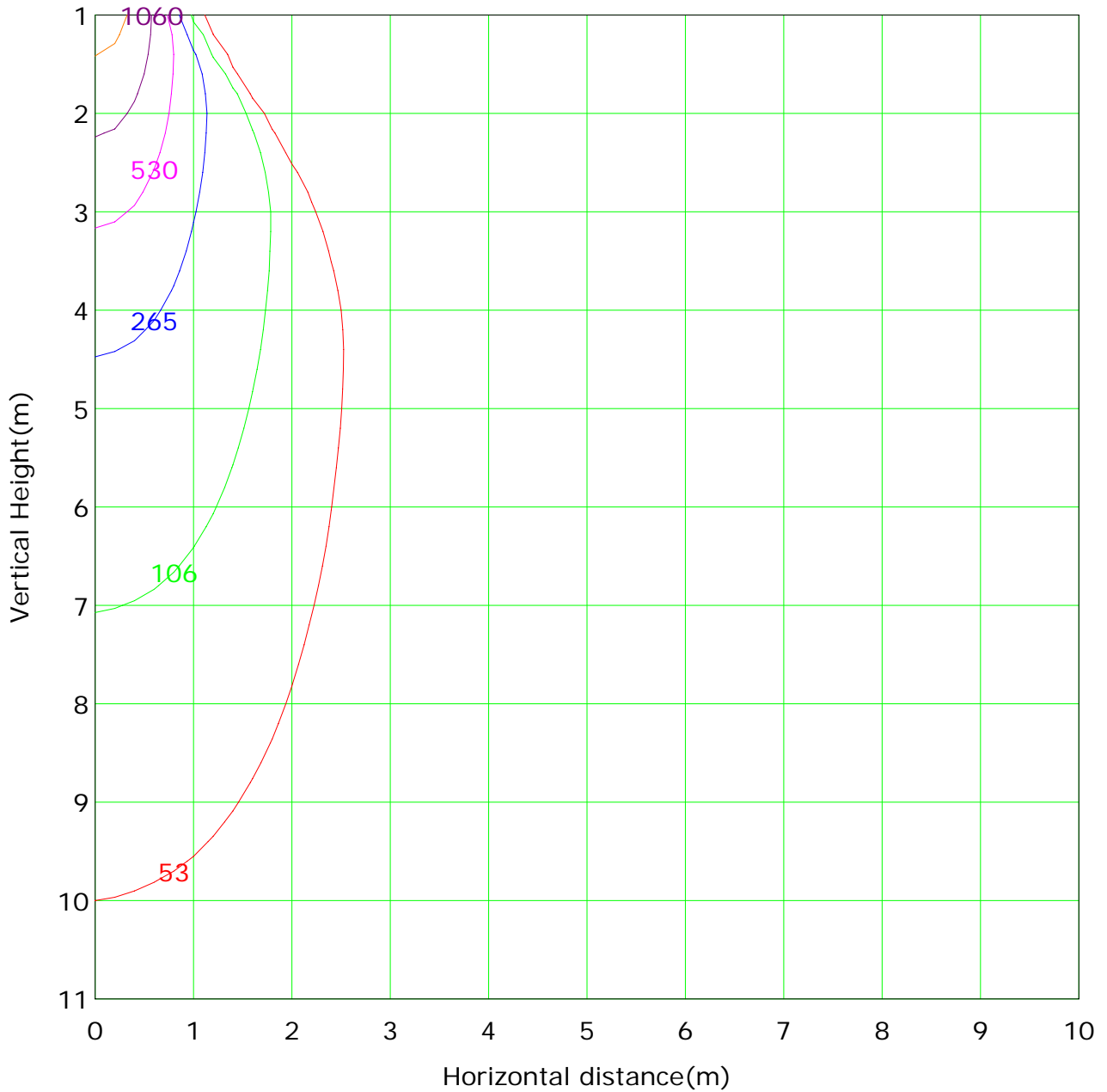
C Plane (°):0.0-360.0: 5.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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



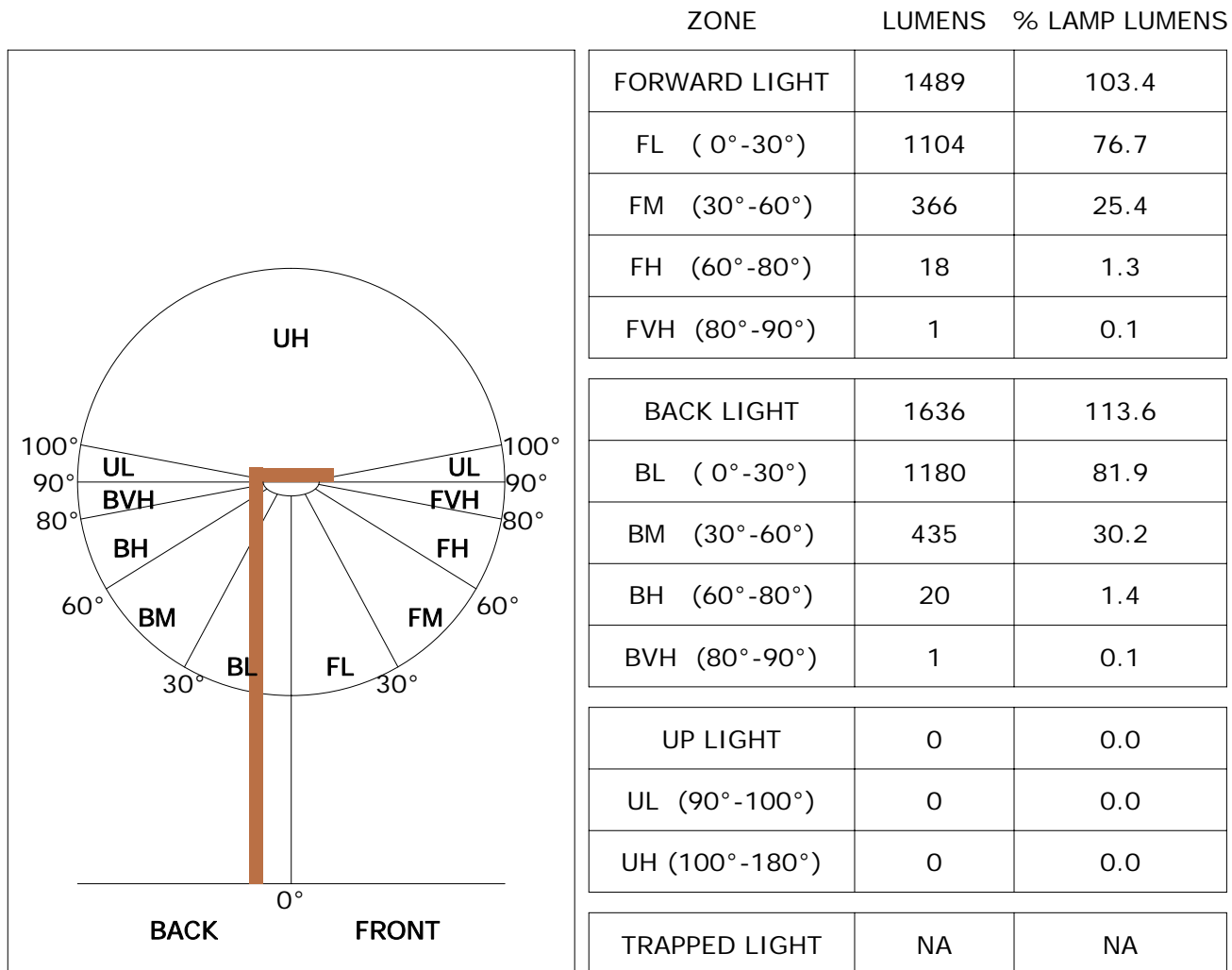
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5302.3 lx

— (1%): 53.0 lx	— (2%): 106.0 lx
— (5%): 265.1 lx	— (10%): 530.2 lx
— (20%): 1060.5 lx	— (50%): 2651.2 lx
— (100%): 5302.3 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

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: