

Report No.: LG-9013

Test Time: 2015-09-13 09:39

Luminaire Property

Luminaire Manufacturer: Light And Green LLC

Luminaire Description: LG-9013

Number of Lamps: 1

Luminous Length (mm): 105 mm

Luminous Height (mm): 42 mm

Current: 0.093 A

Power Factor: 0.983

Lamp Catalog: 9W LED

Lumens per Lamp: 720.0 lm

Luminous Width (mm): 105 mm

Voltage: 110.2 V

Power: 10.14 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1541.3 lm

Downward Ratio: 214.07%

Field Angle: H80.1 V81.0

Luminaire Efficacy Rating (LER): 152

Max. Intensity: 2627.1 cd

Total Rated Lamp Lumens: 720.0 lm

Efficiency: 214.07%

Upward Ratio: 0.00%

Beam Angle: H39.5 V40.4

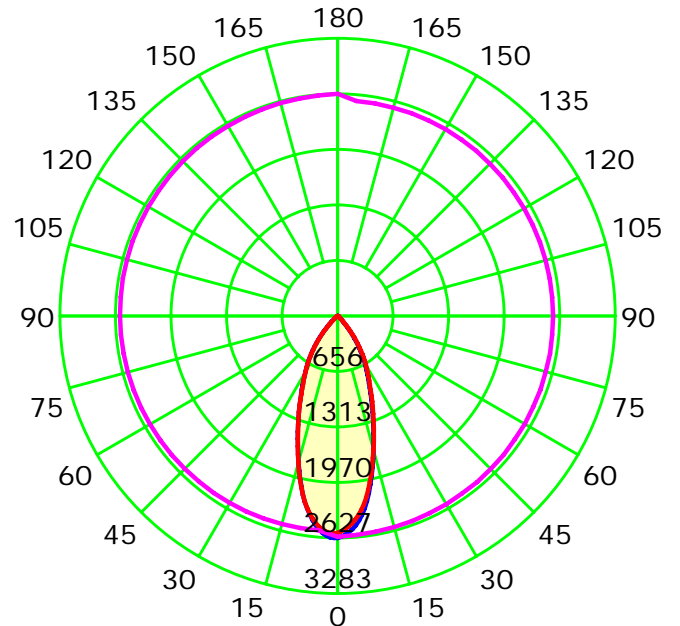
Central Intensity: 2625.9 cd

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

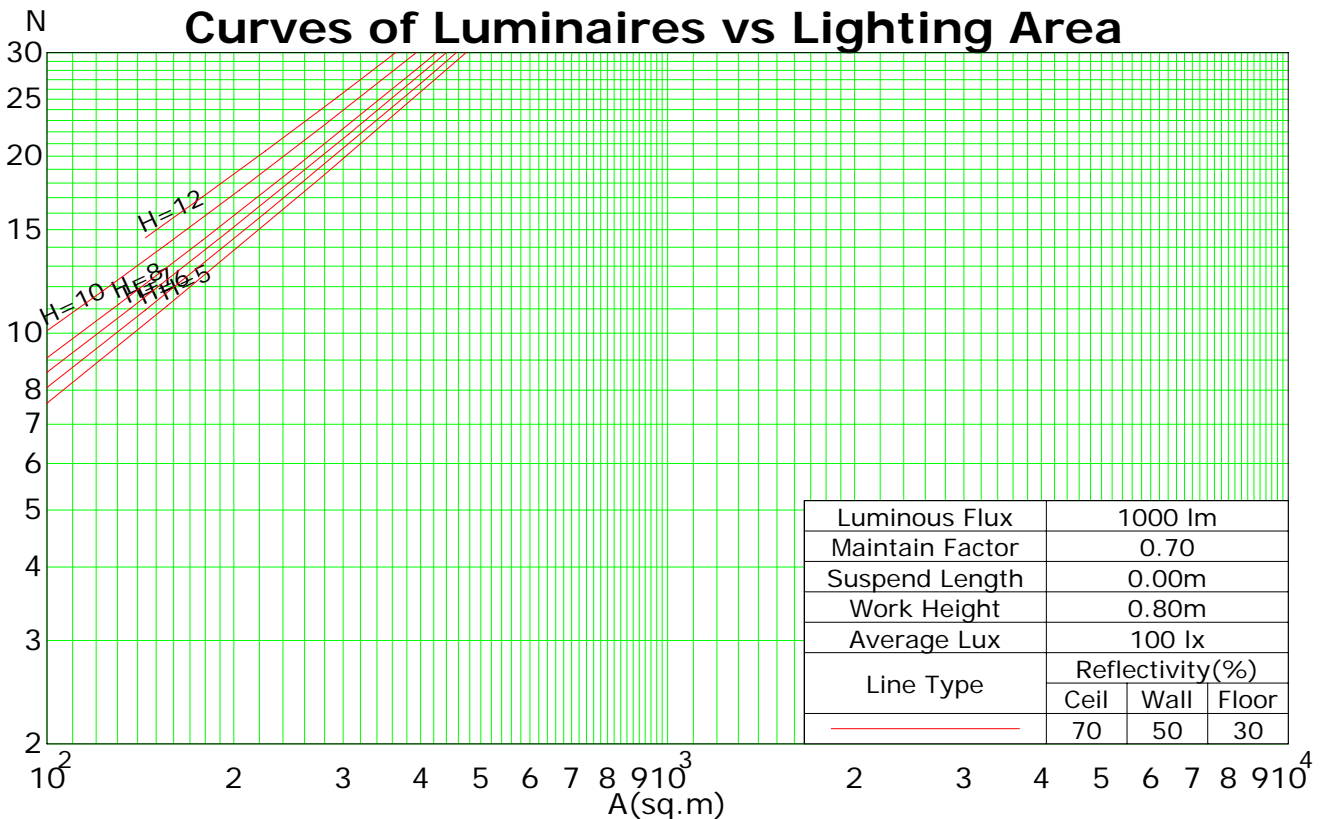
Humidity:

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	255	255	255	255	249	249	249	249	238	238	238	228	228	228	218	218	218	214
1	244	238	233	228	238	233	229	225	225	221	218	217	214	211	209	207	205	201
2	232	222	214	207	228	219	211	205	212	206	200	205	200	196	199	195	192	188
3	221	208	198	190	217	205	196	188	200	192	185	194	188	182	190	184	180	176
4	211	195	184	175	207	193	182	174	188	179	172	184	176	170	180	174	168	165
5	201	184	172	163	197	182	171	162	178	168	161	174	166	159	171	164	158	155
6	191	173	161	152	188	171	160	152	168	158	151	165	156	150	163	155	149	146
7	182	164	151	143	180	162	151	142	159	149	142	157	148	141	155	146	140	137
8	174	155	143	134	172	154	142	134	151	141	133	149	140	133	147	139	132	130
9	167	147	135	127	164	146	134	127	144	133	126	142	133	126	140	132	125	123
10	159	140	128	120	157	139	127	120	137	127	120	135	126	119	134	125	119	116

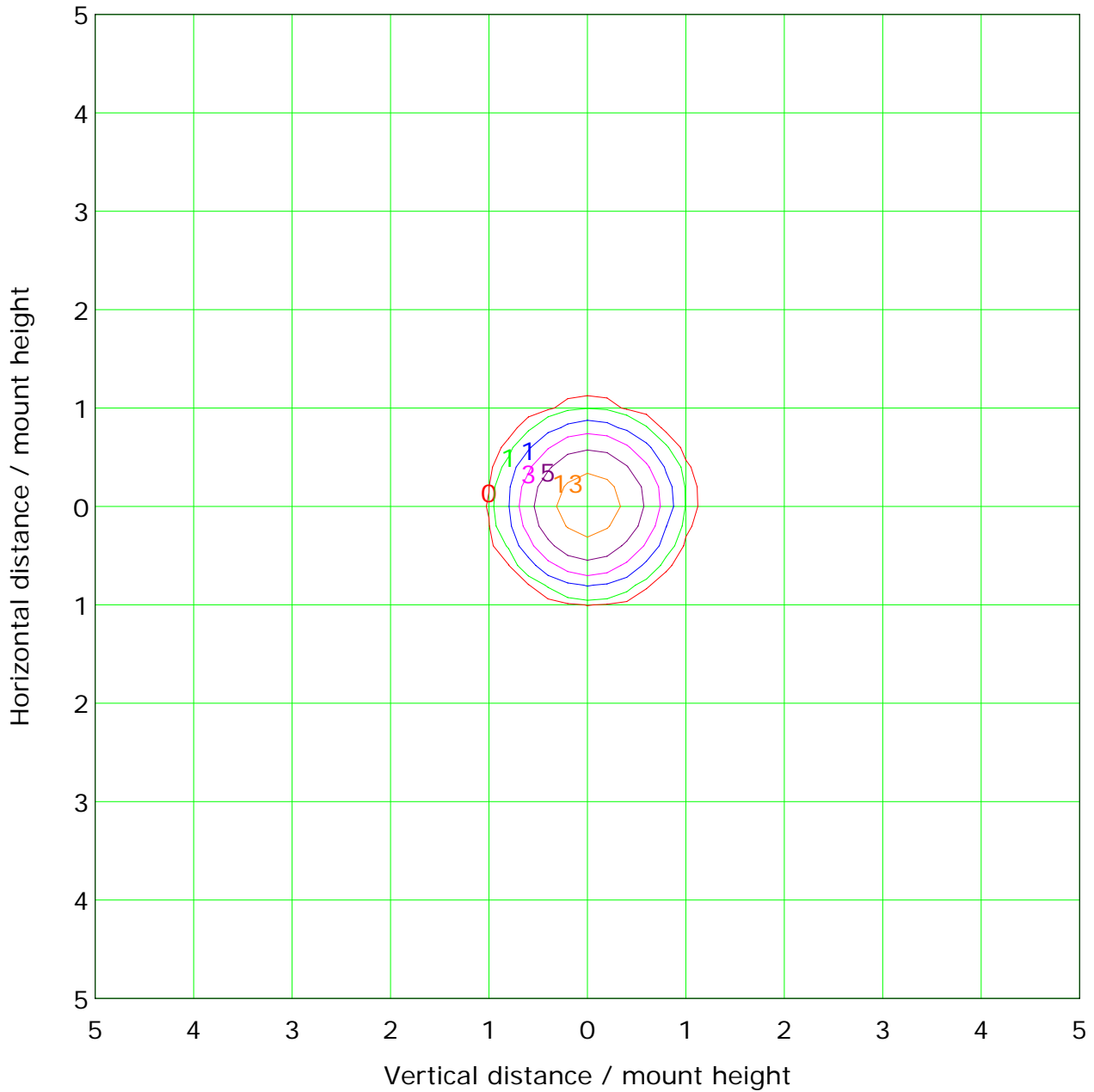
Spacing Criteria (0-180): 0.62
 Spacing Criteria (90-270): 0.64
 Spacing Criteria (Diagonal): 0.68



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



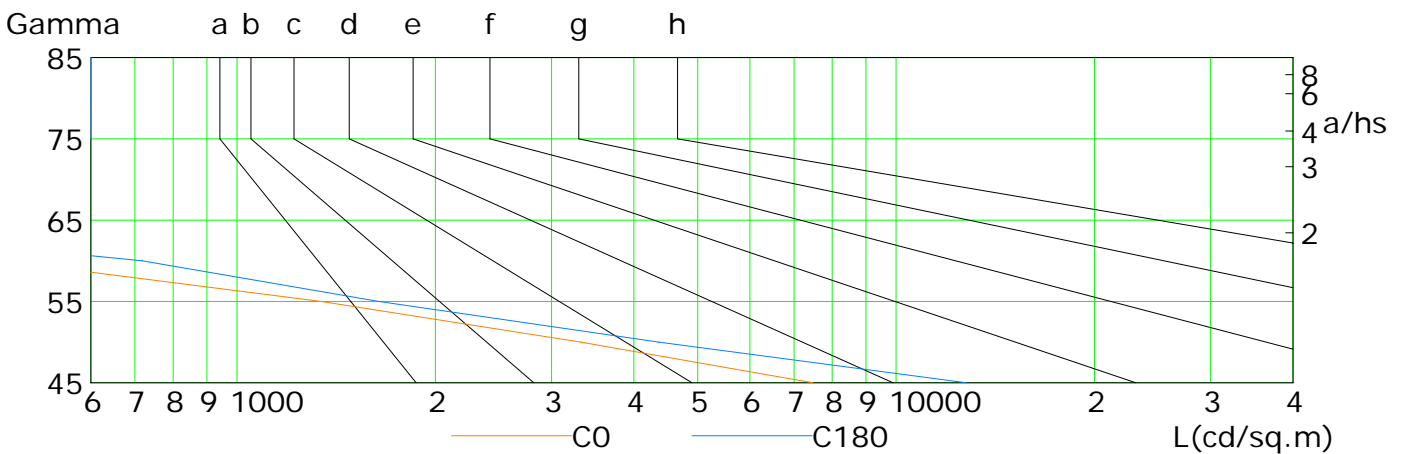
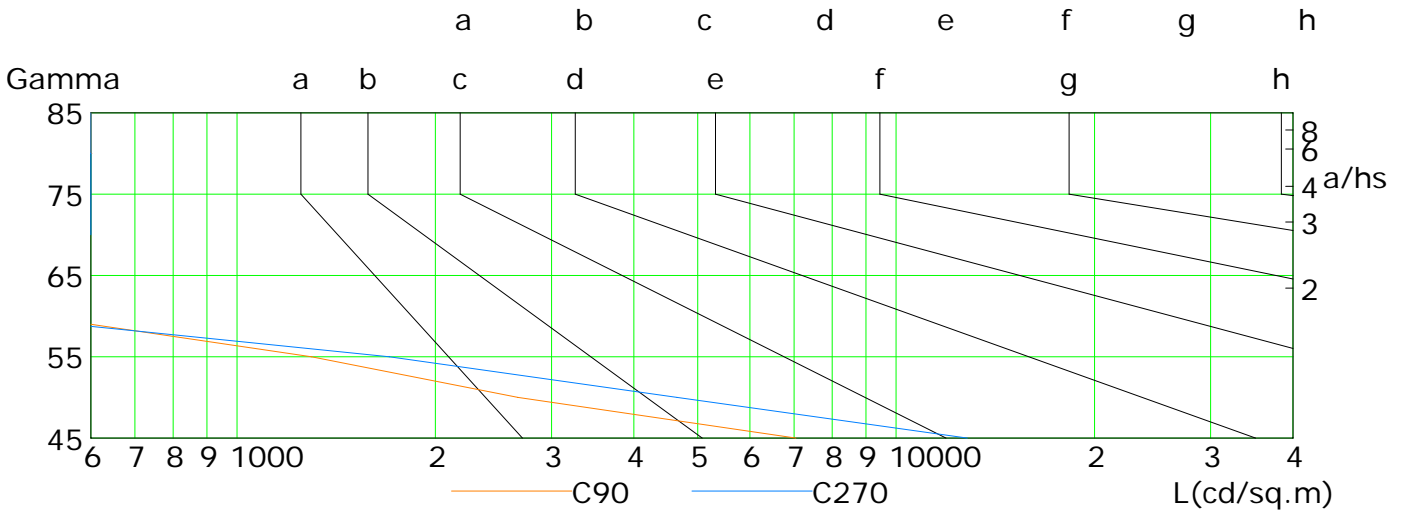
Mounting Height: 10.0m		Max Lux(100%): 26.3 lx	
<ul style="list-style-type: none"> — (1%): 0.3 lx — (5%): 1.3 lx — (20%): 5.3 lx — (100%): 26.3 lx 	<ul style="list-style-type: none"> — (2%): 0.5 lx — (10%): 2.6 lx — (50%): 13.1 lx 		

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 Test Device: GPM-1600L
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 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	7475	3324	1343	439	224	142	0	0	0
C90	7044	2670	1297	495	232	150	10	0	0
C180	12785	4364	1642	718	180	85	0	0	0
C270	12819	4656	1702	423	77	0	0	0	0

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

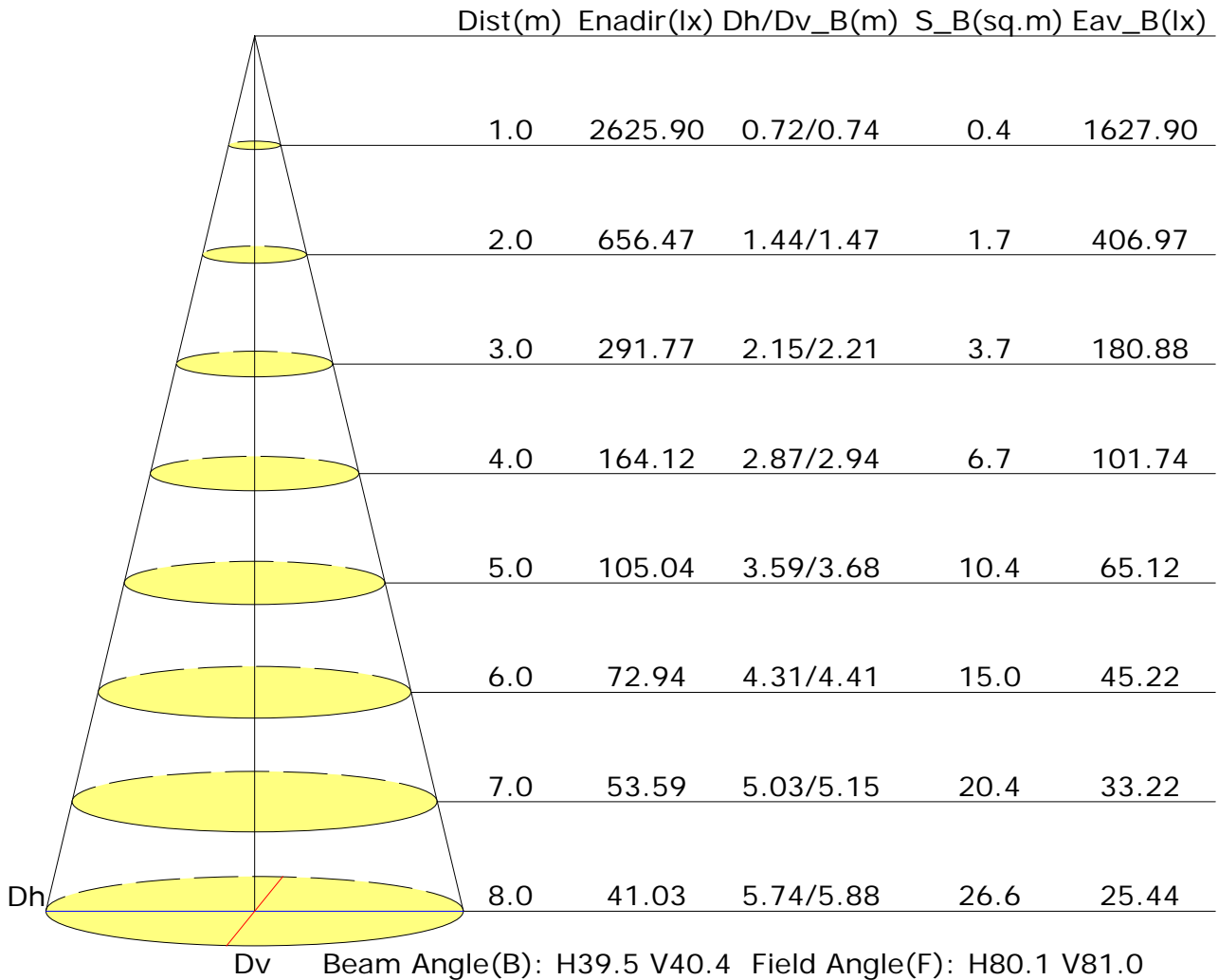
Test Device: GPM-1600L

Distance: 10.000 m

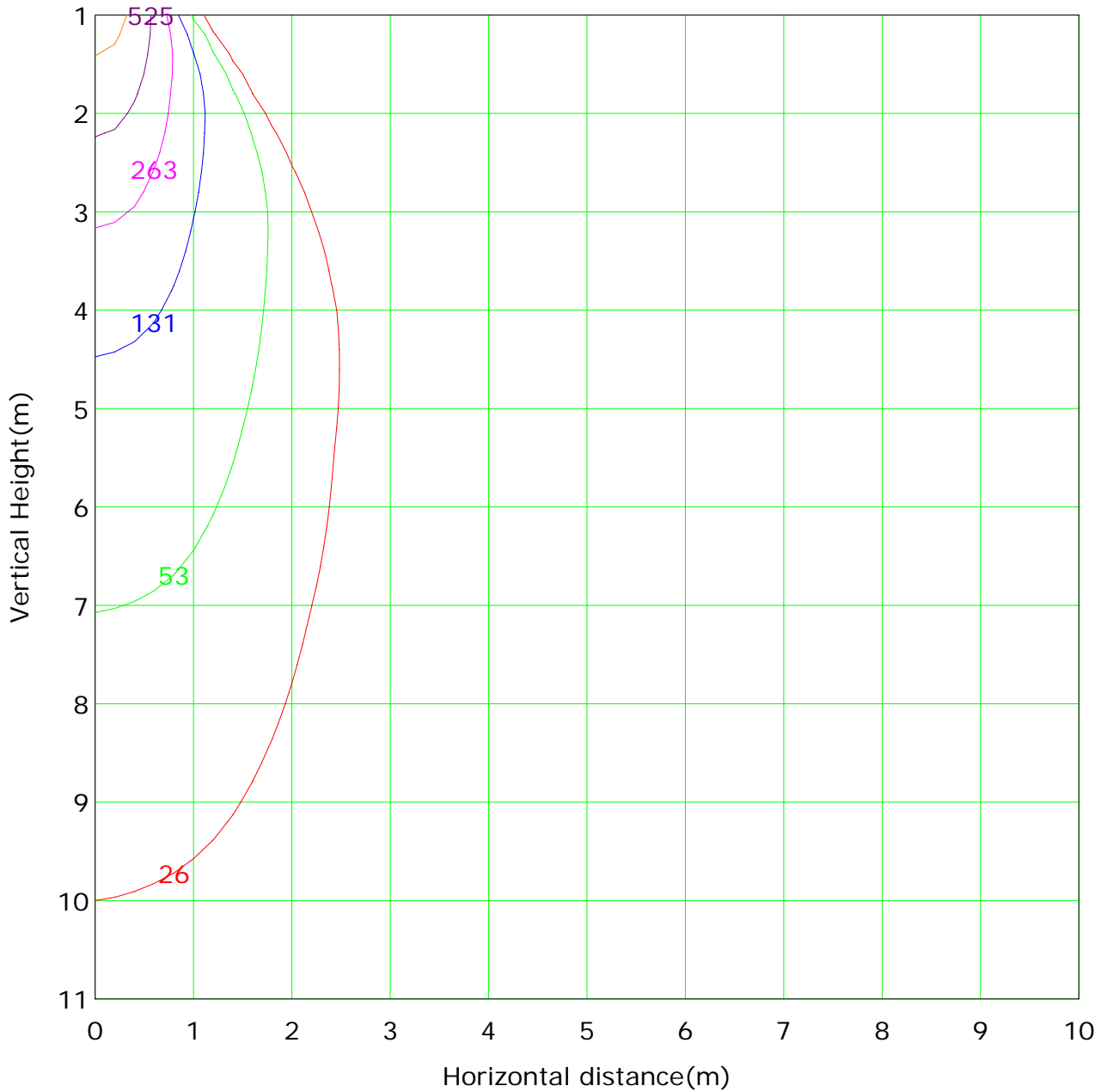
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



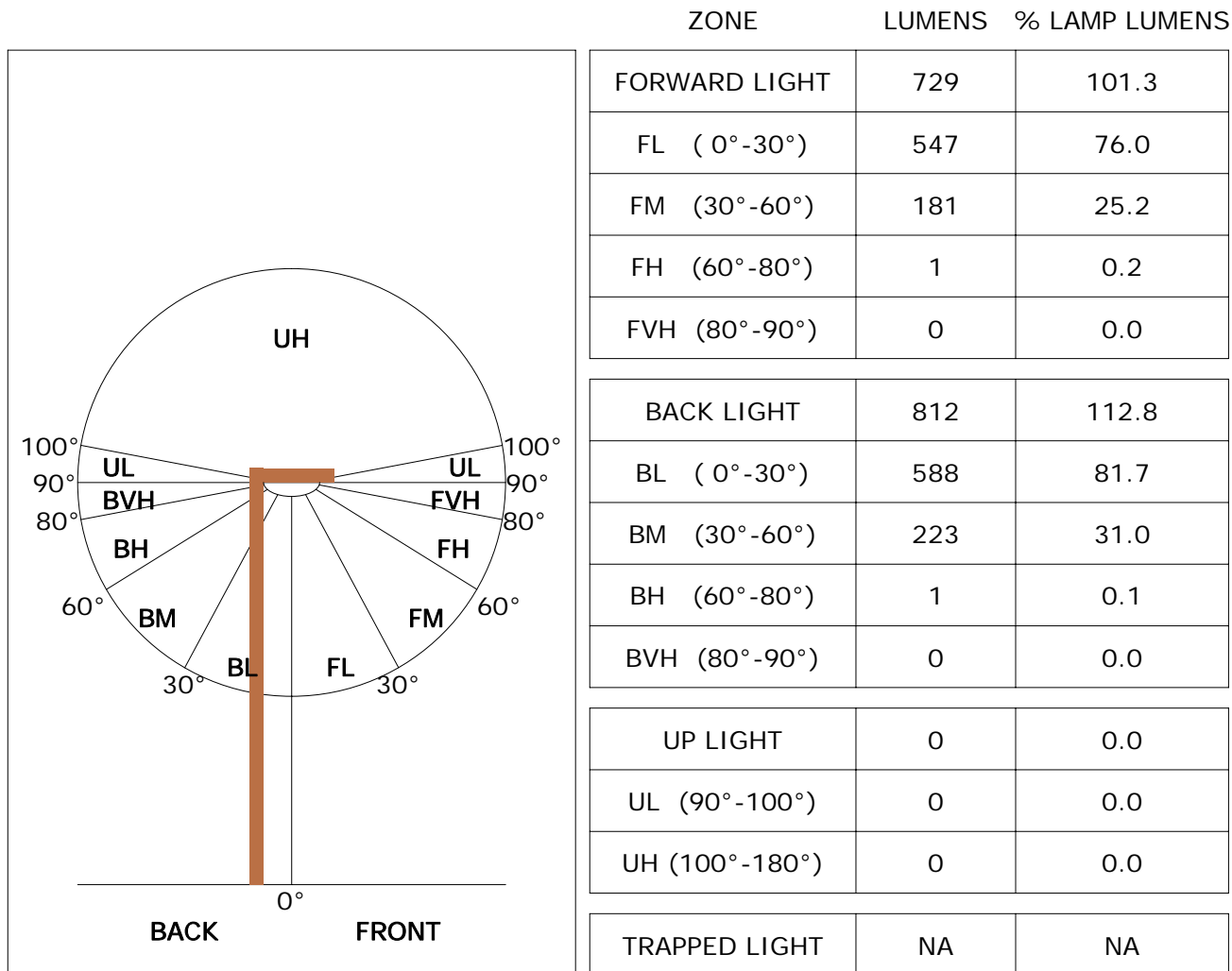
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2625.9 lx

— (1%): 26.3 lx	— (2%): 52.5 lx
— (5%): 131.3 lx	— (10%): 262.6 lx
— (20%): 525.2 lx	— (50%): 1312.9 lx
— (100%): 2625.9 lx	

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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)	B2 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U0 G0

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