

Report No.: LG-8018

Test Time: 2015-03-04 10:30

## Luminaire Property

Luminaire Manufacturer: Light and Green LLC

Luminaire Description: LG-8018

Lamp Description: 2835

Lumens per Lamp: 561.0 lm

Luminous Width (mm): 100 mm

Voltage: 220.4 V

Power: 9.28 W

Lamp Catalog: LED

Number of Lamps: 1

Luminous Length (mm): 100 mm

Luminous Height (mm): 50 mm

Current: 0.075 A

Power Factor: 0.561

## Photometric Results

CIE Class: Direct

Measurement Flux: 477.5 lm

Downward Ratio: 85.11%

Field Angle: H141.0 V140.4

Luminaire Efficacy Rating (LER): 51

Max. Intensity: 206.14 cd

Total Rated Lamp Lumens: 561.0 lm

Efficiency: 85.11%

Upward Ratio: 0.00%

Beam Angle: H100.2 V100.2

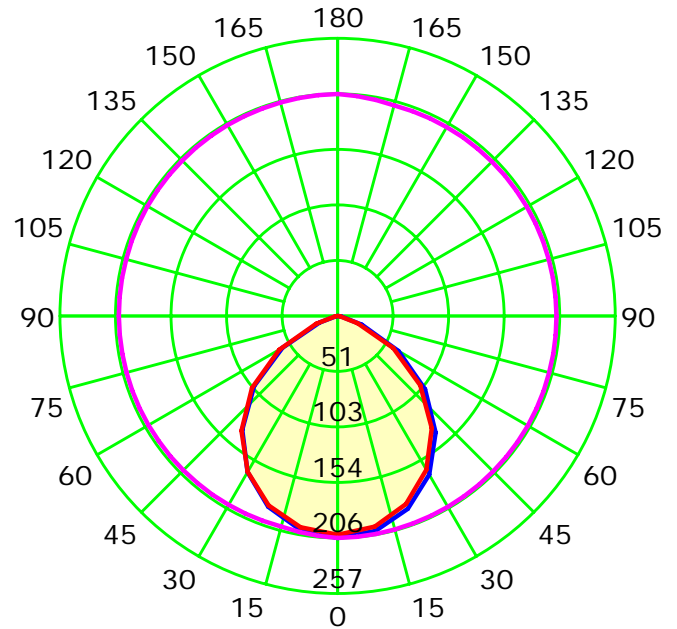
Central Intensity: 206.13 cd

Pos of Max. Intensity: H0 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 15.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0: 10.0

Test Device: GPM-1600L

Distance: 8.955 m

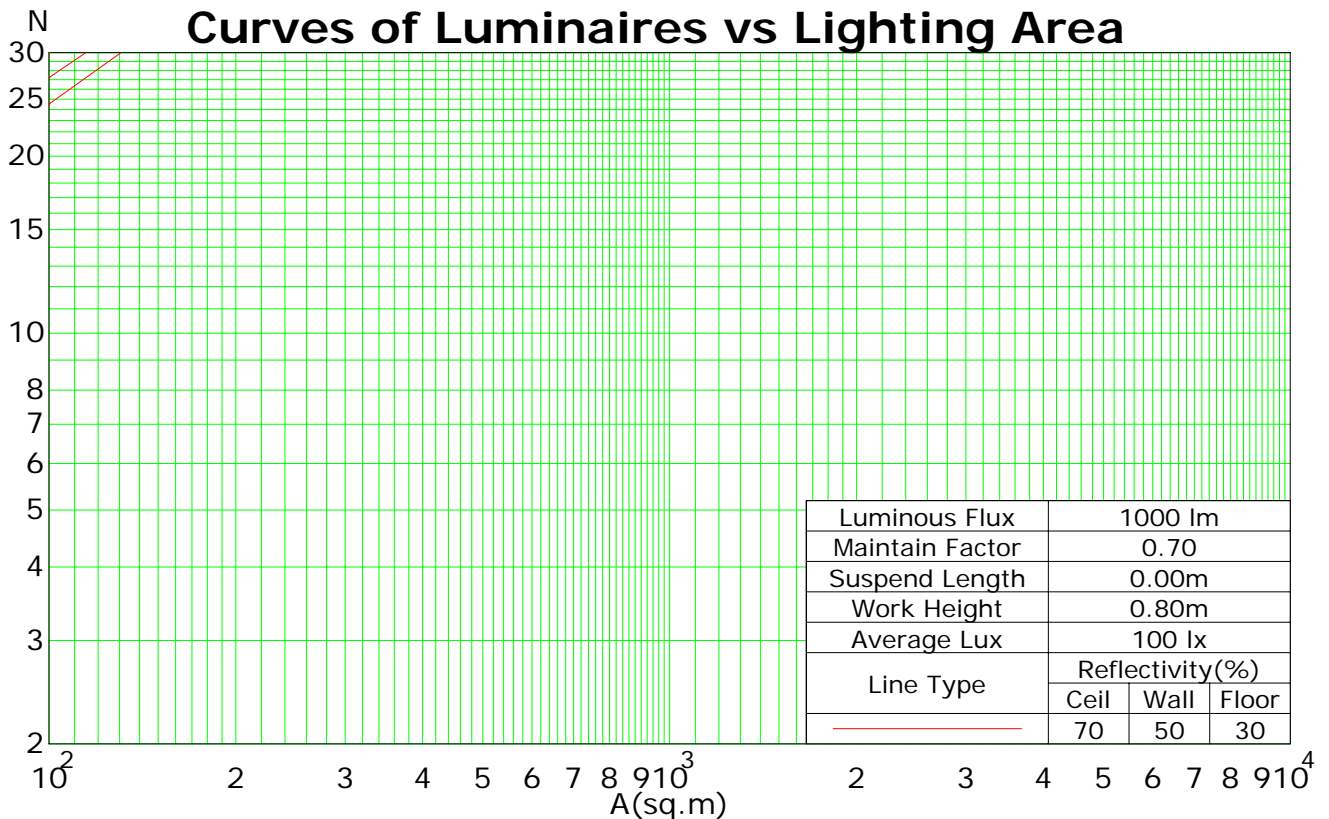
Humidity:

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
RCCR	RF = 0.2																	
0	101	101	101	101	99	99	99	99	94	94	94	90	90	90	87	87	87	85
1	94	90	87	84	92	88	86	83	85	83	80	82	80	78	79	77	76	74
2	86	80	75	71	84	79	74	70	76	72	68	73	70	67	70	68	65	64
3	79	71	65	60	77	70	64	59	67	62	58	65	61	57	63	59	56	55
4	73	64	57	51	71	63	56	51	60	55	50	59	54	50	57	53	49	47
5	67	57	50	45	66	56	50	45	55	49	44	53	48	44	51	47	43	41
6	62	52	45	39	61	51	44	39	49	43	39	48	43	39	47	42	38	37
7	58	47	40	35	57	46	40	35	45	39	35	44	39	34	43	38	34	33
8	54	43	36	31	53	43	36	31	41	35	31	40	35	31	39	34	31	29
9	51	40	33	28	49	39	33	28	38	32	28	37	32	28	36	32	28	26
10	47	37	30	26	46	36	30	26	35	30	26	35	29	26	34	29	25	24

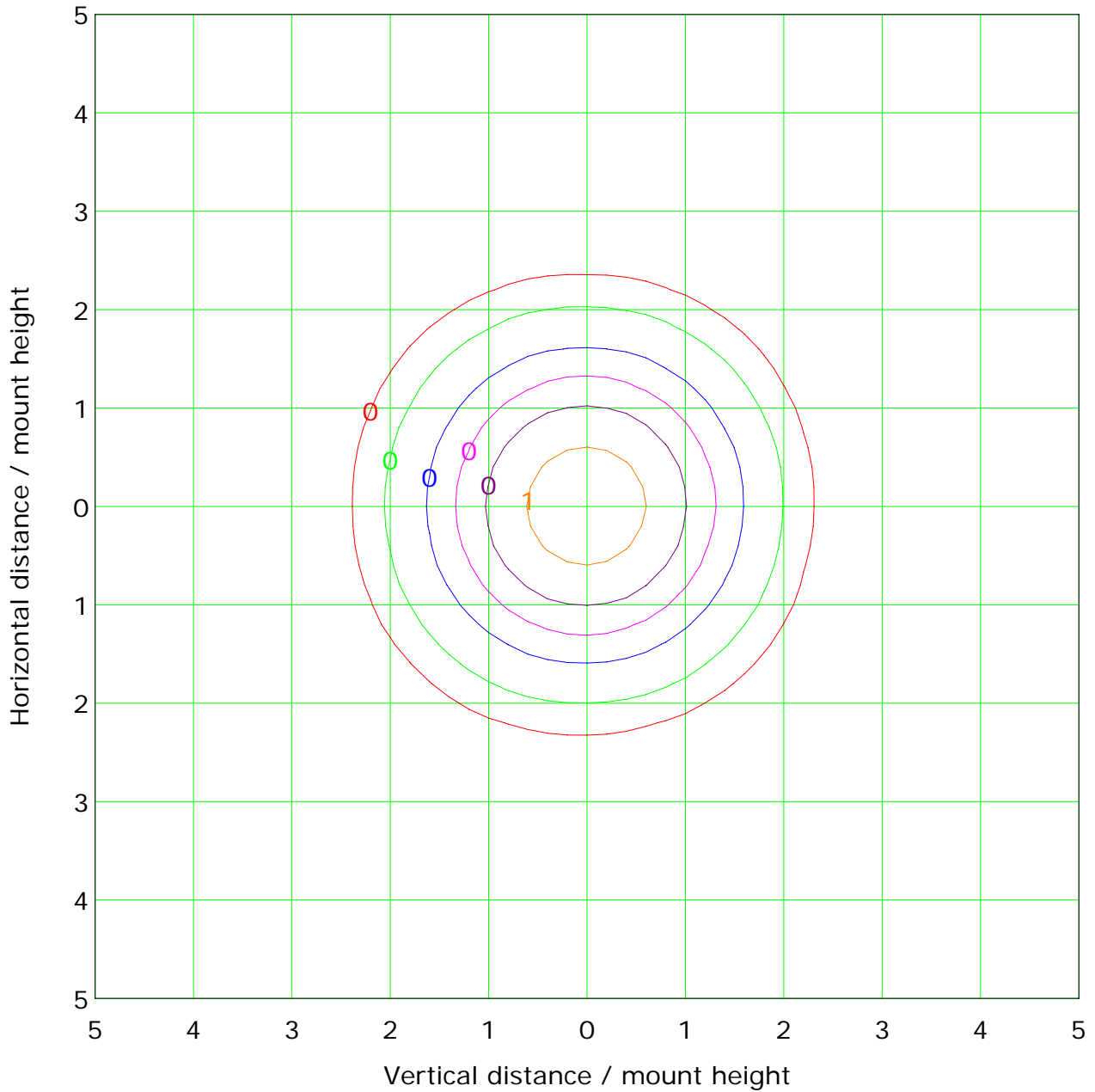
Spacing Criteria (0-180): 1.21  
 Spacing Criteria (90-270): 1.21  
 Spacing Criteria (Diagonal): 1.30



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Gamma Plane (°):0.0-90.0:10.0  
 Test Device: GPM-1600L  
 Distance: 8.955 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 2.1 lx	
<span style="color: red;">—</span>	( 1%): 0.0 lx	<span style="color: green;">—</span>	( 2%): 0.0 lx
<span style="color: blue;">—</span>	( 5%): 0.1 lx	<span style="color: magenta;">—</span>	( 10%): 0.2 lx
<span style="color: purple;">—</span>	( 20%): 0.4 lx	<span style="color: orange;">—</span>	( 50%): 1.0 lx
<span style="color: green;">—</span>	(100%): 2.1 lx		

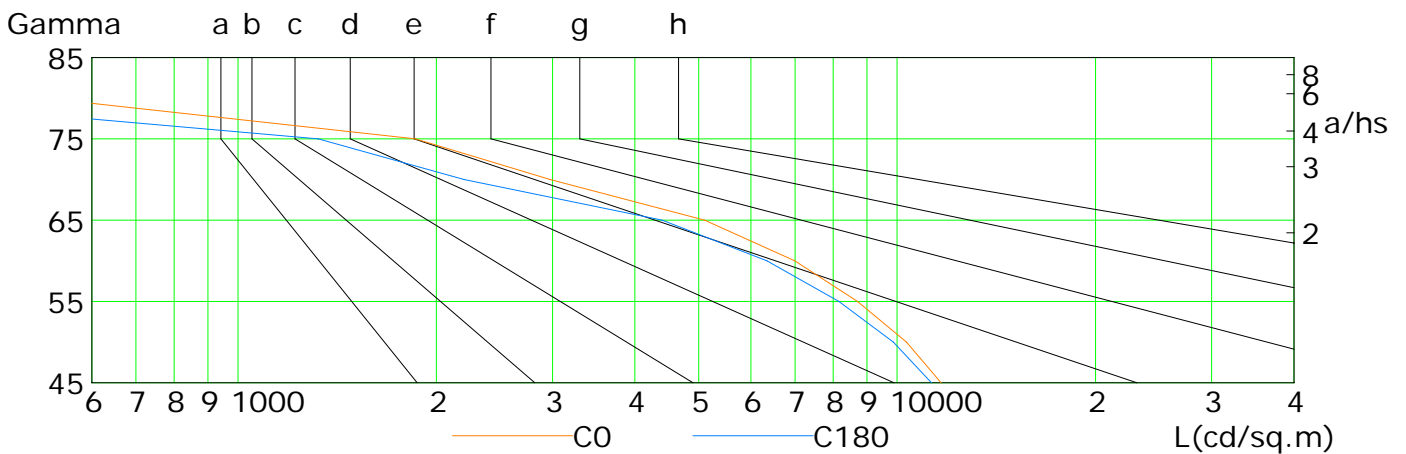
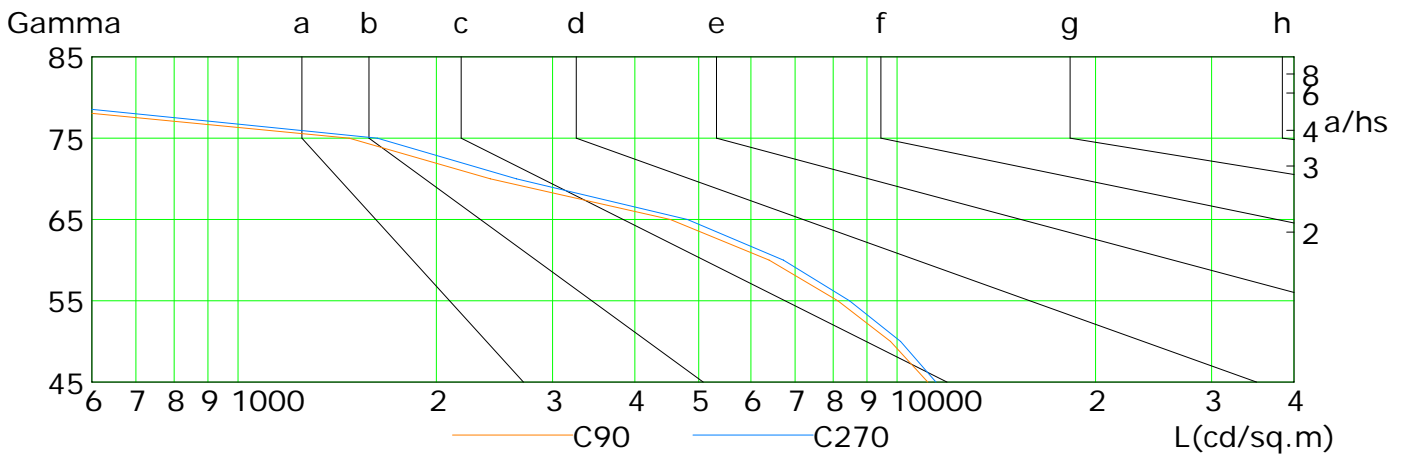
C Plane (°):0.0-360.0: 15.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature:  
 Operator:

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 Distance: 8.955 m  
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## 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	11662	10331	8708	6993	5105	2976	1858	512	291
C90	11133	9768	8130	6394	4525	2414	1474	341	194
C180	11274	9868	8159	6346	4401	2202	1323	263	150
C270	11450	10121	8469	6721	4806	2645	1626	399	227

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Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:10.0

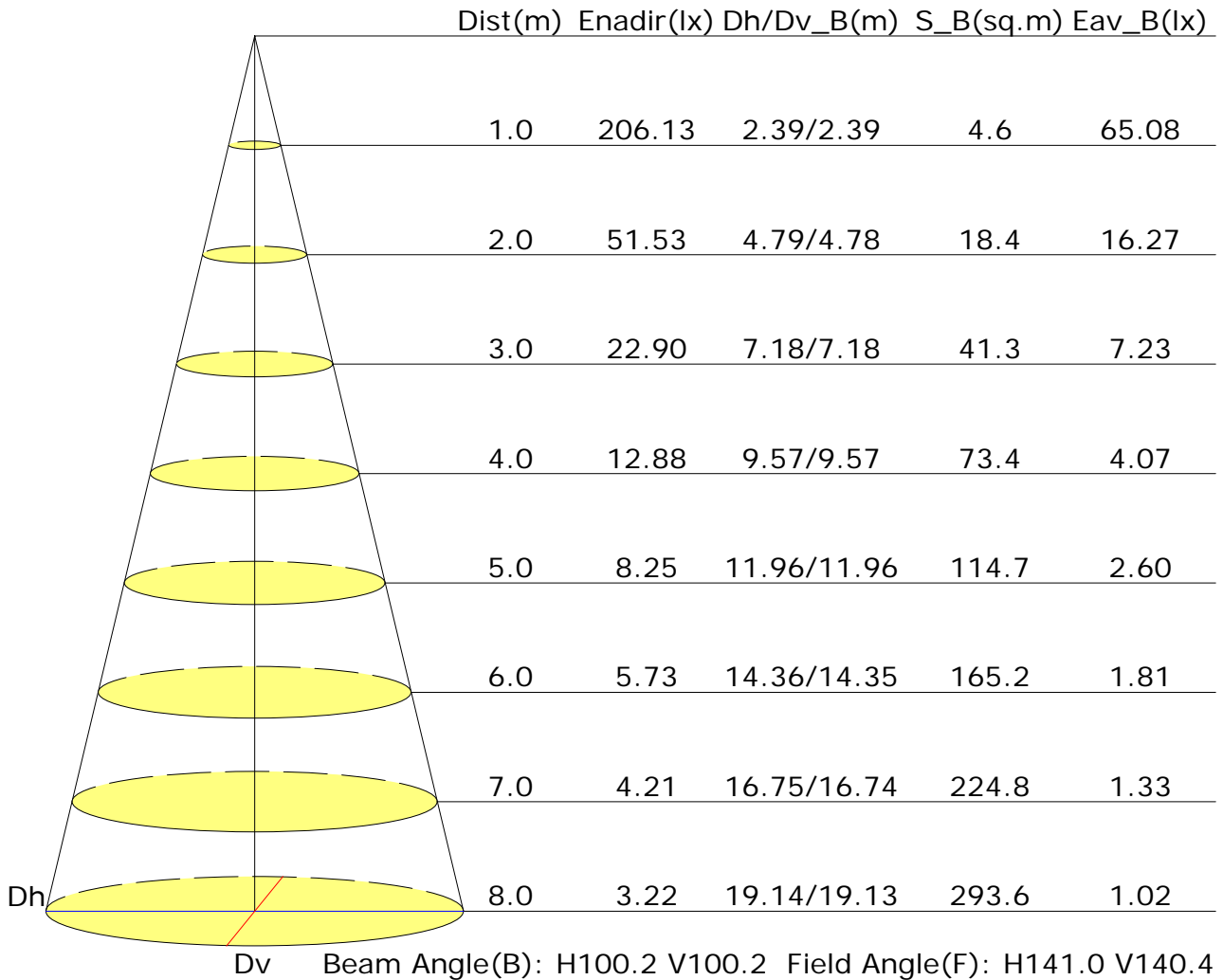
Test Device: GPM-1600L

Distance: 8.955 m

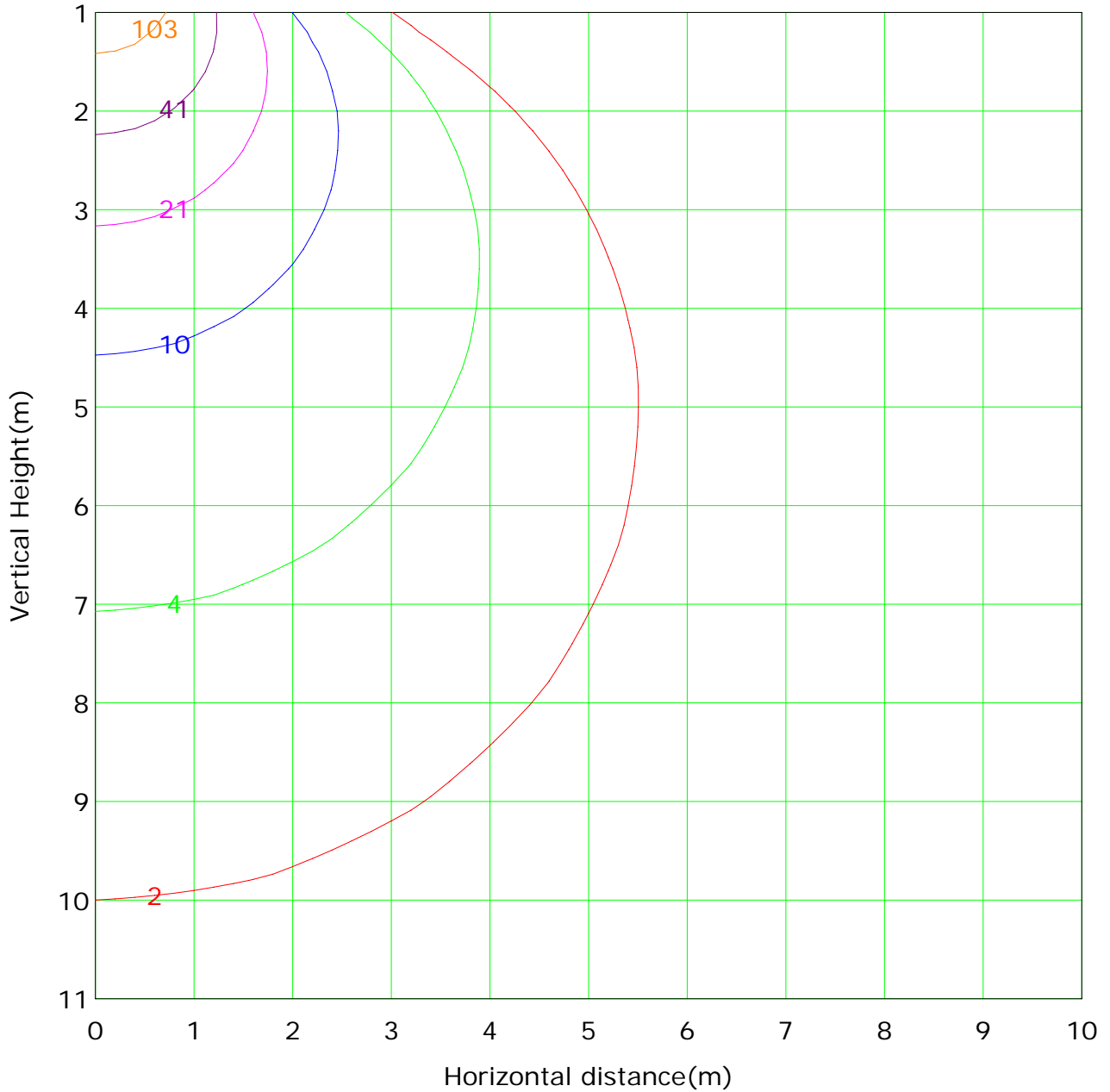
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot

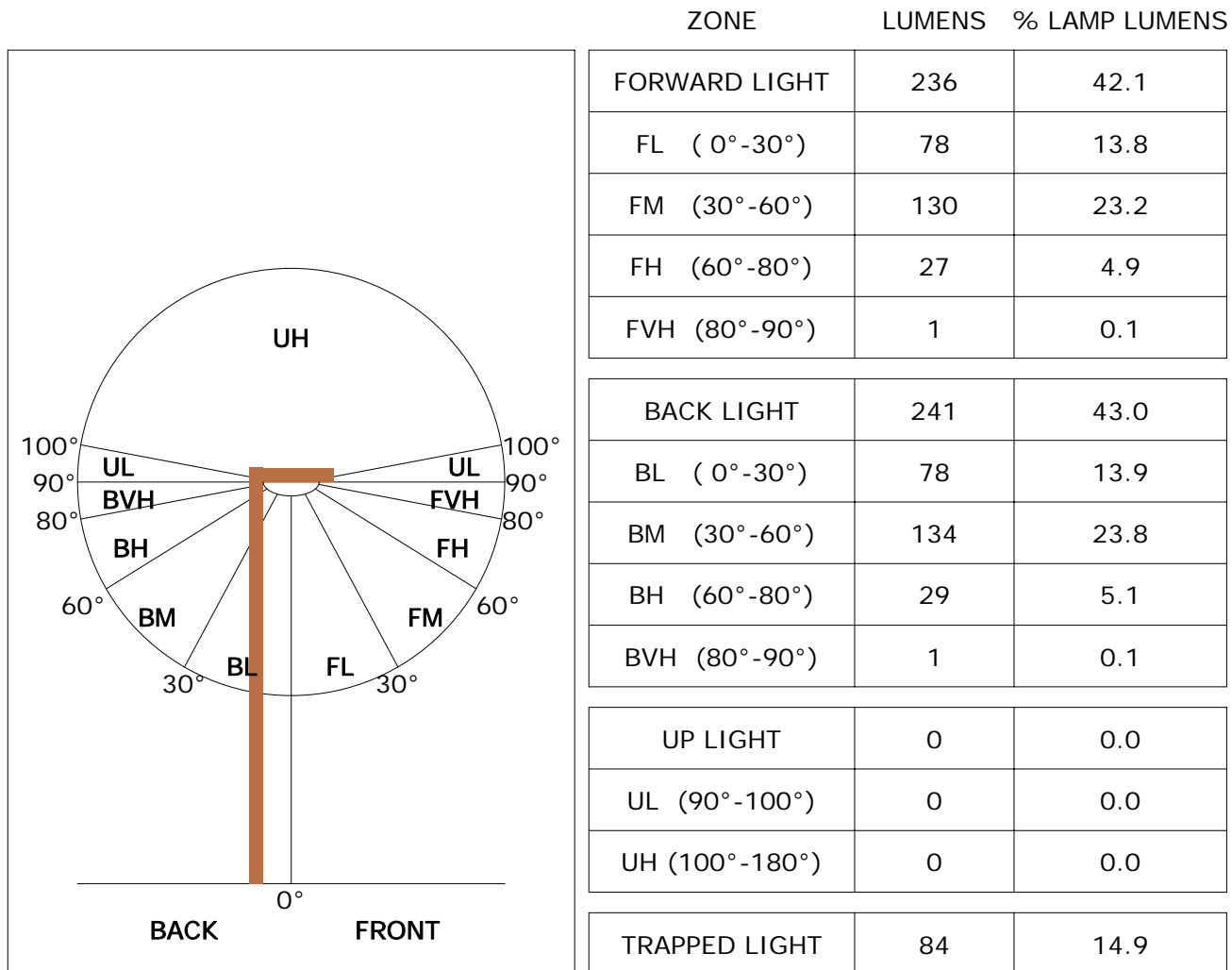


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 206.1 lx
— ( 1%): 2.1 lx	— ( 2%): 4.1 lx	
— ( 5%): 10.3 lx	— ( 10%): 20.6 lx	
— ( 20%): 41.2 lx	— ( 50%): 103.1 lx	
— (100%): 206.1 lx		

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 Distance: 8.955 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 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 U0 G0

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