

Report No.: LG-4015

Test Time: 2018-01-05 20:22

## Luminaire Property

Luminaire Manufacturer: CREE  
 Luminaire Category: MW  
 Lamp Catalog: XTE  
 Number of Lamps: 3  
 Luminous Length (mm): 230  
 Luminous Height (mm): 40  
 Current: 0.35 A  
 Power Factor: 1

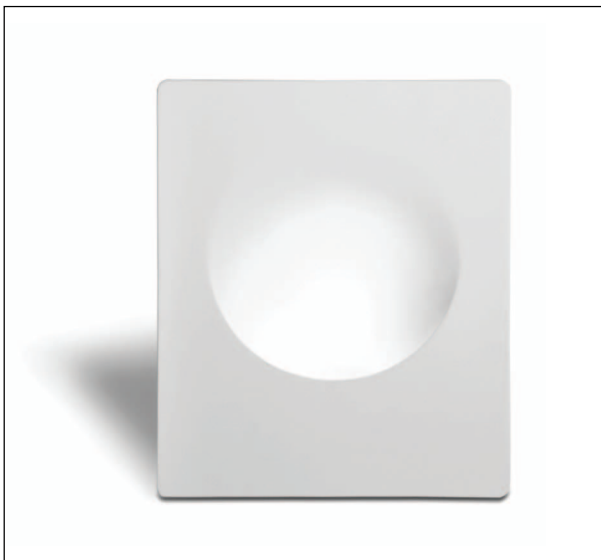
Luminaire Description: LG-4015  
 Lamp Description: 3x1w  
 Lumens per Lamp: 373  
 Luminous Width (mm): 250  
 Voltage: 8.6V  
 Power: 3 W

## Photometric Results

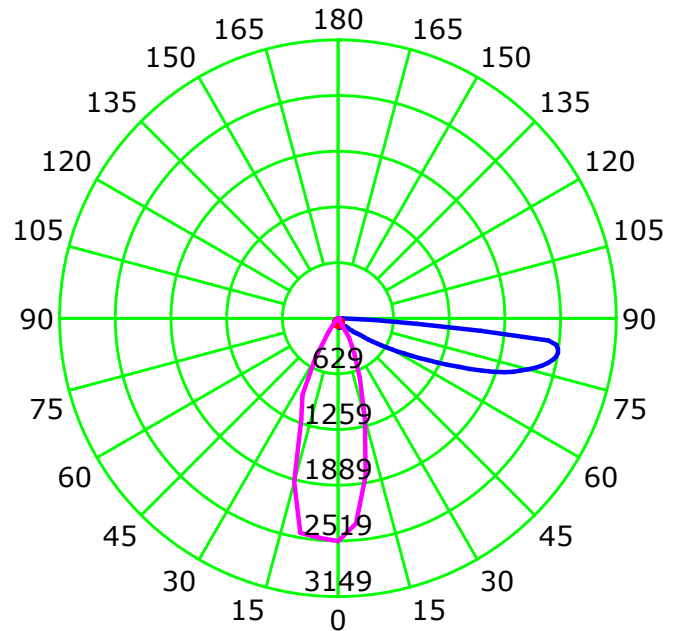
CIE Class: Direct  
 Measurement Flux: 866.9 lm  
 Downward Ratio: 77.32%  
 Field Angle: H153.2 V141.4  
 Luminaire Efficacy Rating (LER): 289  
 Max. Intensity: 2519.52 cd

Total Rated Lamp Lumens: 1119.0 lm  
 Efficiency: 77.47%  
 Upward Ratio: 0.15%  
 Beam Angle: H123.3 V107.5  
 Central Intensity: 97.67 cd  
 Pos of Max. Intensity: H0 V81

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G81

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 10.000 m

Humidity:

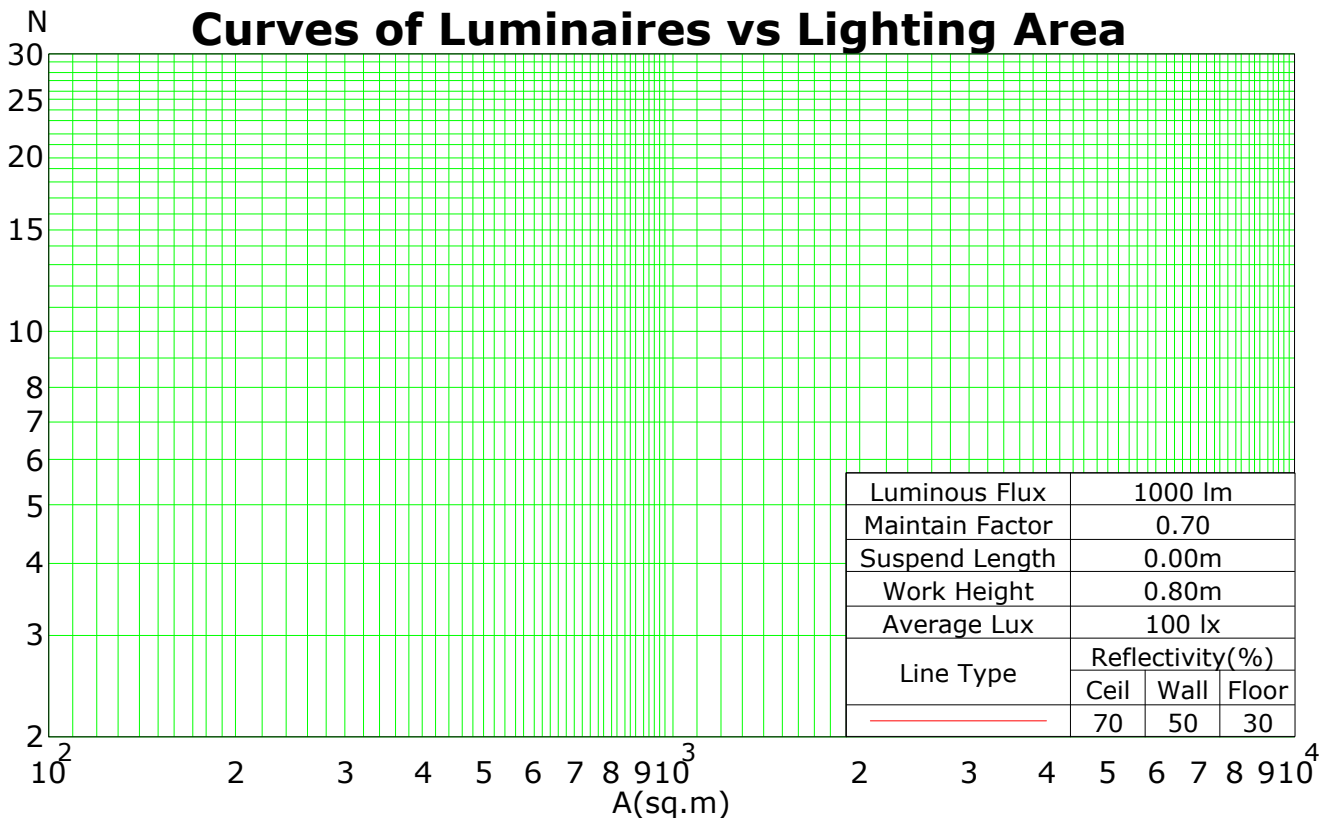
Inspector:

## 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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77
1	76	68	62	56	73	66	60	55	62	57	53	59	55	51	56	52	49	47
2	65	54	45	37	62	52	44	37	49	42	36	46	40	35	43	38	34	31
3	57	44	35	27	54	43	34	26	40	32	26	38	31	25	35	29	25	22
4	51	38	28	21	49	36	27	20	34	26	20	32	25	19	30	24	19	17
5	46	33	23	17	44	32	23	16	30	22	16	28	21	16	26	20	15	13
6	42	29	20	14	41	28	20	14	27	19	13	25	18	13	24	18	13	11
7	39	26	18	12	38	25	17	12	24	17	12	23	16	11	22	16	11	9
8	37	24	16	10	35	23	16	10	22	15	10	21	15	10	20	14	10	8
9	34	22	14	9	33	21	14	9	20	14	9	19	13	9	18	13	9	7
10	32	20	13	8	31	20	13	8	19	12	8	18	12	8	17	12	8	6

Spacing Criteria (0-180): 1.35  
 Spacing Criteria (90-270): 1.25  
 Spacing Criteria (Diagonal): 1.40

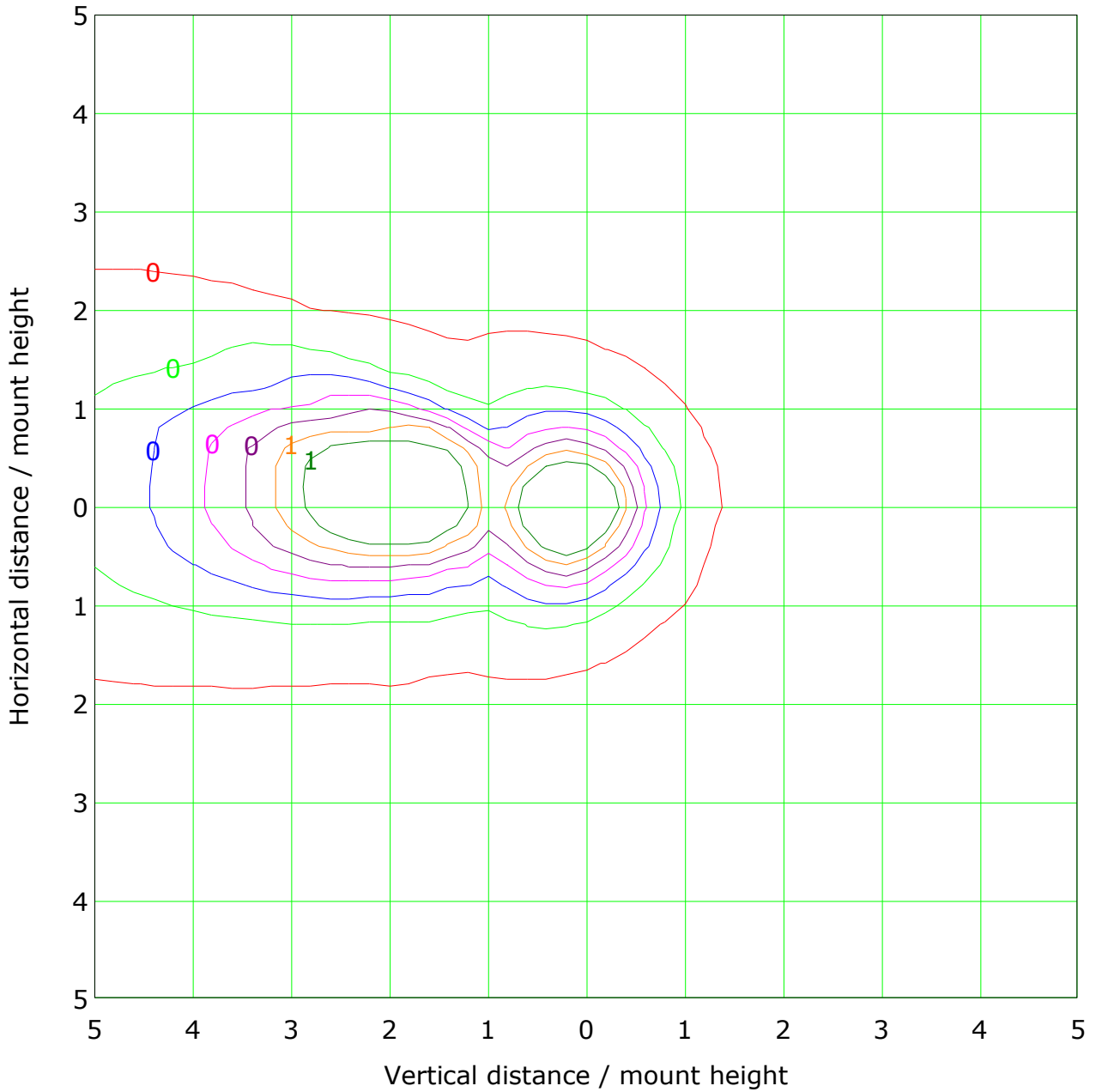
## Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 5.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator:

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

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 1.0 lx	
— ( 5%):	0.1 lx	— ( 15%):	0.2 lx
— ( 25%):	0.3 lx	— ( 35%):	0.4 lx
— ( 45%):	0.5 lx	— ( 55%):	0.6 lx
— ( 65%):	0.7 lx		

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 10.000 m

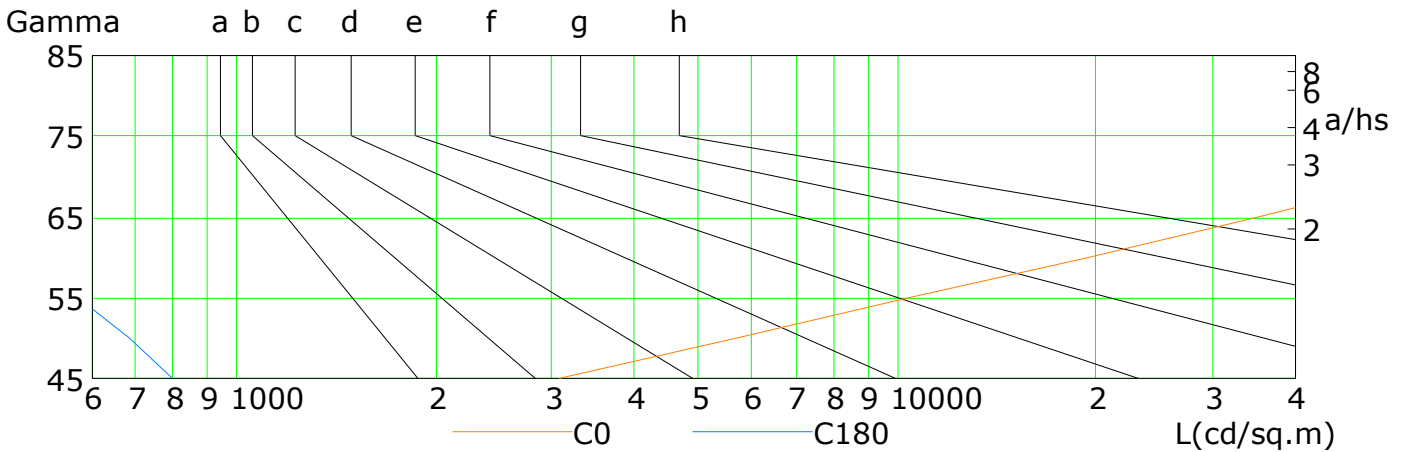
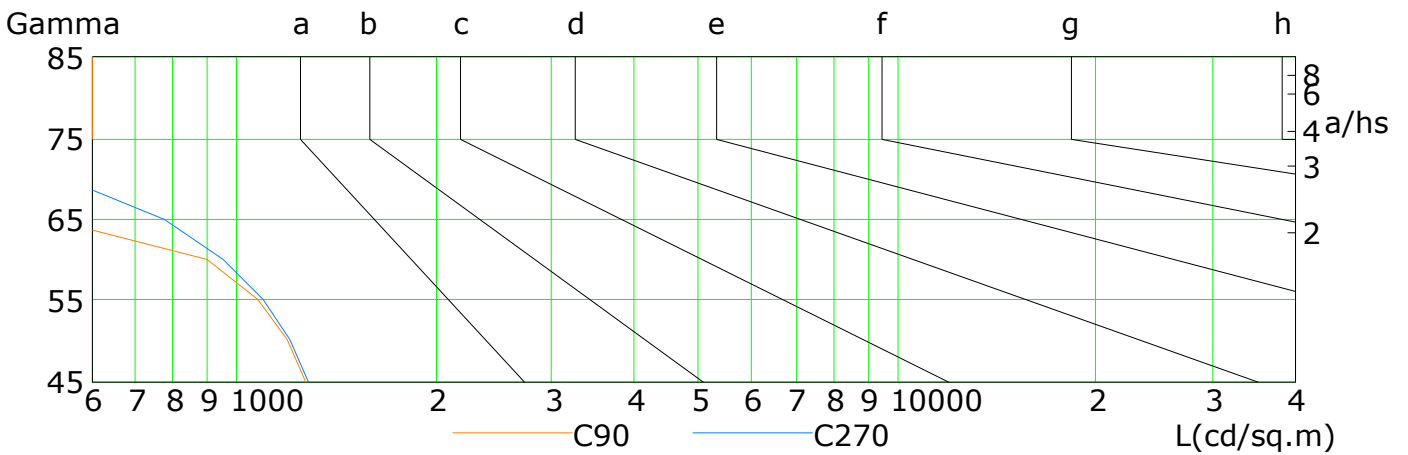
Humidity:

Inspector:

## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)									
		2000	1000	500	<=300						
1.15	A	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		

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3074	5653	10312	19304	34373	61213	93781	131487	114595
C90	1272	1187	1077	896	531	136	0	0	0
C180	798	686	566	440	320	226	147	78	68
C270	1283	1199	1093	952	773	548	297	37	0

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

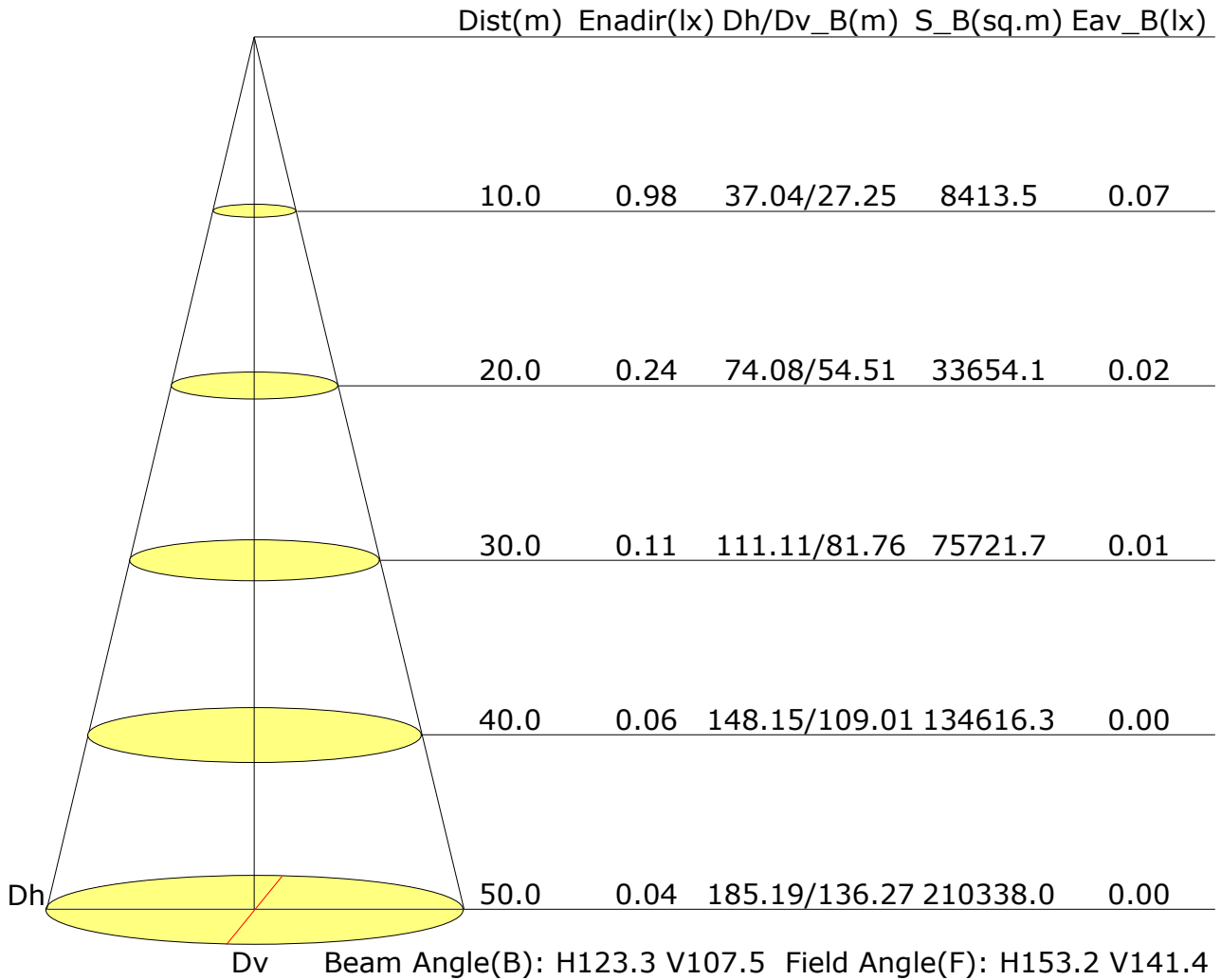
Test Device: GPM-1600L

Distance: 10.000 m

Humidity:

Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

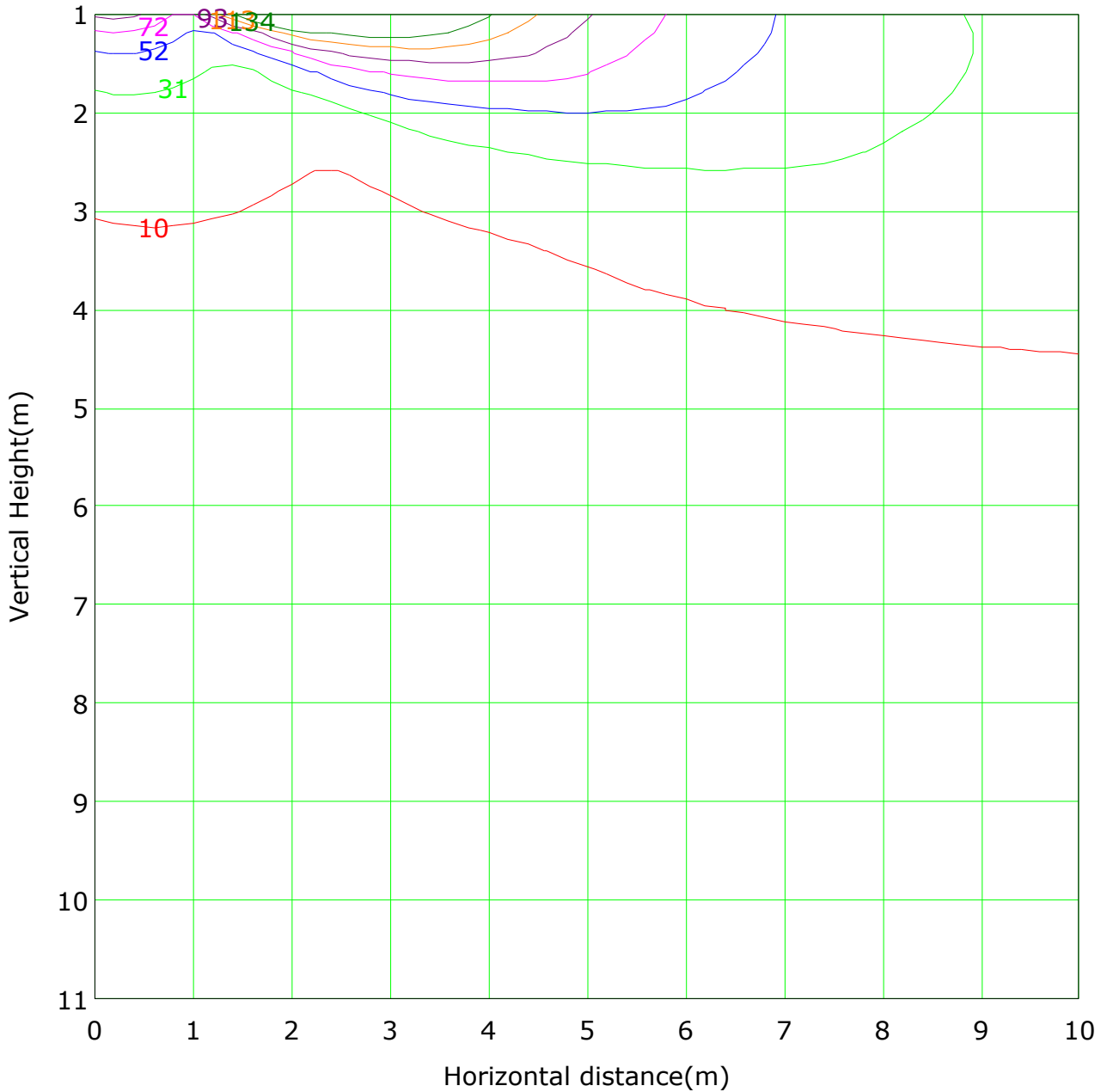
Test Device: GPM-1600L

Distance: 10.000 m

Humidity:

Inspector:

## Vertical IsoLux Plot

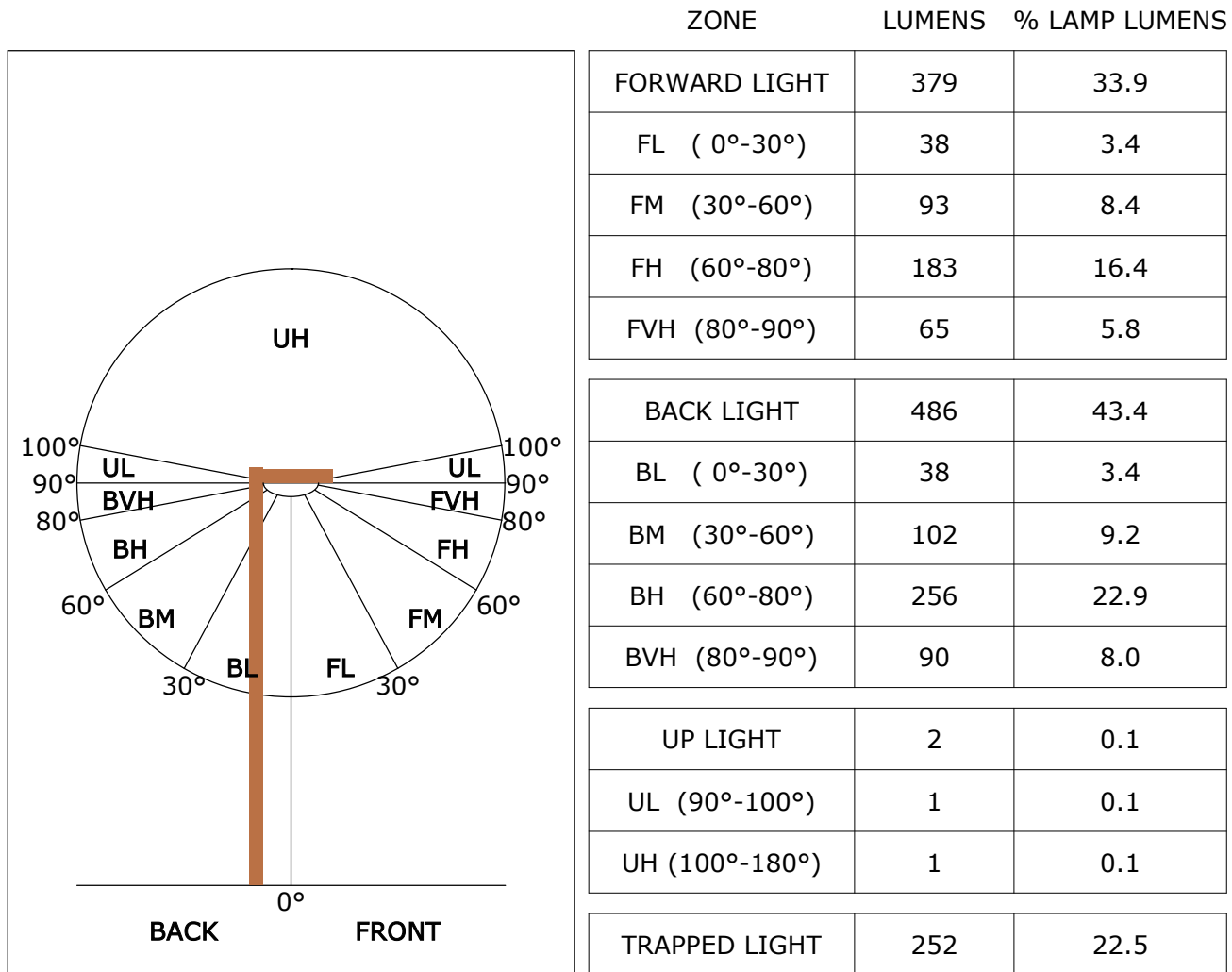


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 206.1 lx
— ( 5%): 10.3 lx	— ( 15%): 30.9 lx	
— ( 25%): 51.5 lx	— ( 35%): 72.1 lx	
— ( 45%): 92.7 lx	— ( 55%): 113.4 lx	
— ( 65%): 134.0 lx		

C Plane (°):0.0-360.0: 5.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 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 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

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