

Report No.: LG-4014

Test Time: 2018-01-05 16:54

Luminaire Property

Luminaire Manufacturer: CREE
 Luminaire Category: MW
 Lamp Catalog: XTE
 Number of Lamps: 3
 Luminous Length (mm): 130
 Luminous Height (mm): 35
 Current: 0.35 A
 Power Factor: 1

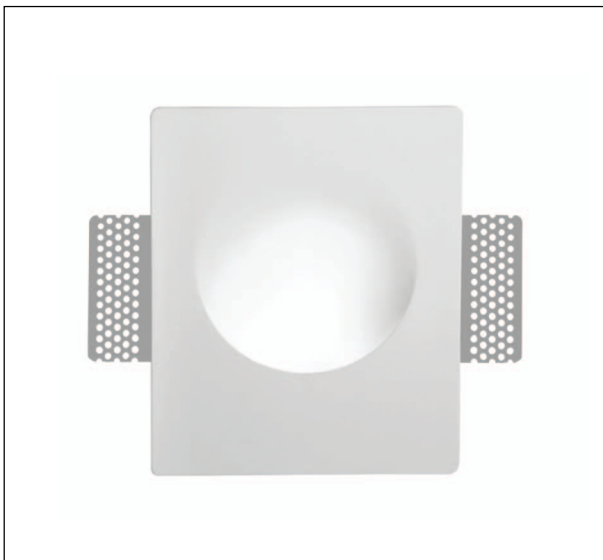
Luminaire Description: LG-4014
 Lamp Description: 3x1w
 Lumens per Lamp: 398
 Luminous Width (mm): 130
 Voltage: 8.6 V
 Power: 3 W

Photometric Results

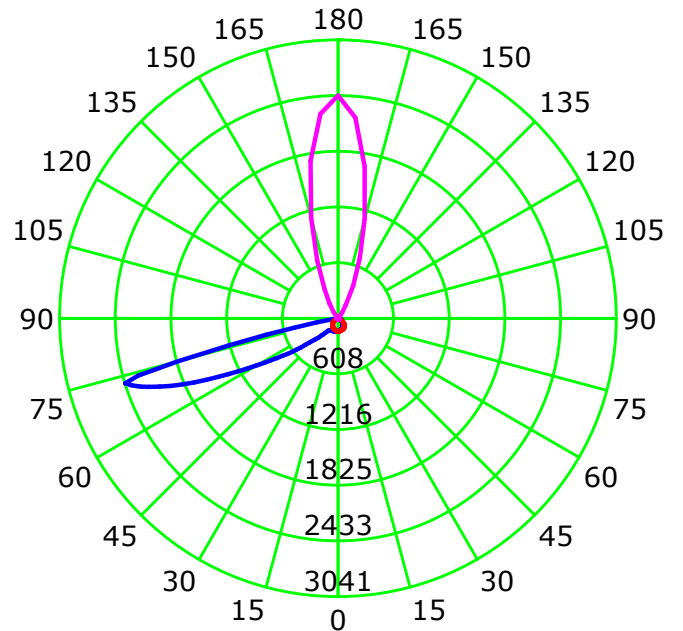
CIE Class: Direct
 Measurement Flux: 723 lm
 Downward Ratio: 60.54%
 Field Angle: H150.2 V143.1
 Luminaire Efficacy Rating (LER): 241
 Max. Intensity: 2433.55 cd

Total Rated Lamp Lumens: 1194.0 lm
 Efficiency: 60.55%
 Upward Ratio: 0.02%
 Beam Angle: H120.5 V105.0
 Central Intensity: 143.49 cd
 Pos of Max. Intensity: H180 V73

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G73

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

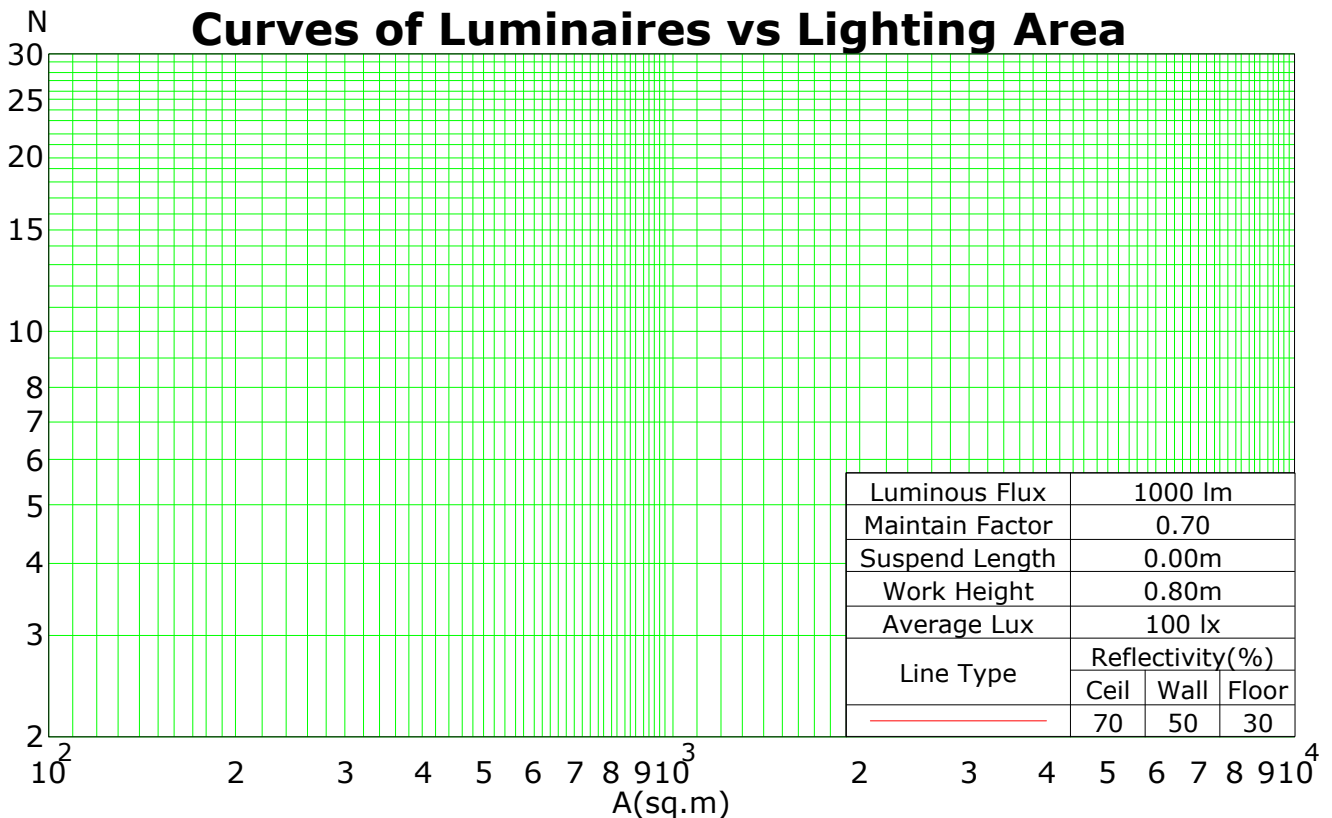
Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 10.000 m
 Humidity:
 Inspector:

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	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	61
1	64	60	57	54	62	59	56	53	56	53	51	54	51	49	51	50	48	47
2	56	50	44	40	54	48	43	39	46	42	38	44	40	37	42	39	36	35
3	50	42	35	30	48	41	35	30	39	34	29	37	32	29	35	31	28	27
4	45	36	29	24	43	35	29	24	33	28	24	32	27	23	30	26	23	21
5	40	31	25	20	39	30	24	20	29	24	19	28	23	19	26	22	19	17
6	37	28	21	17	36	27	21	17	26	20	16	25	20	16	24	19	16	15
7	34	25	19	14	33	24	18	14	23	18	14	22	18	14	21	17	14	12
8	32	22	17	13	31	22	16	12	21	16	12	20	16	12	20	15	12	11
9	30	20	15	11	29	20	15	11	19	14	11	19	14	11	18	14	11	10
10	28	19	14	10	27	18	13	10	18	13	10	17	13	10	17	13	10	9

Spacing Criteria (0-180): 1.37
 Spacing Criteria (90-270): 1.24
 Spacing Criteria (Diagonal): 1.35

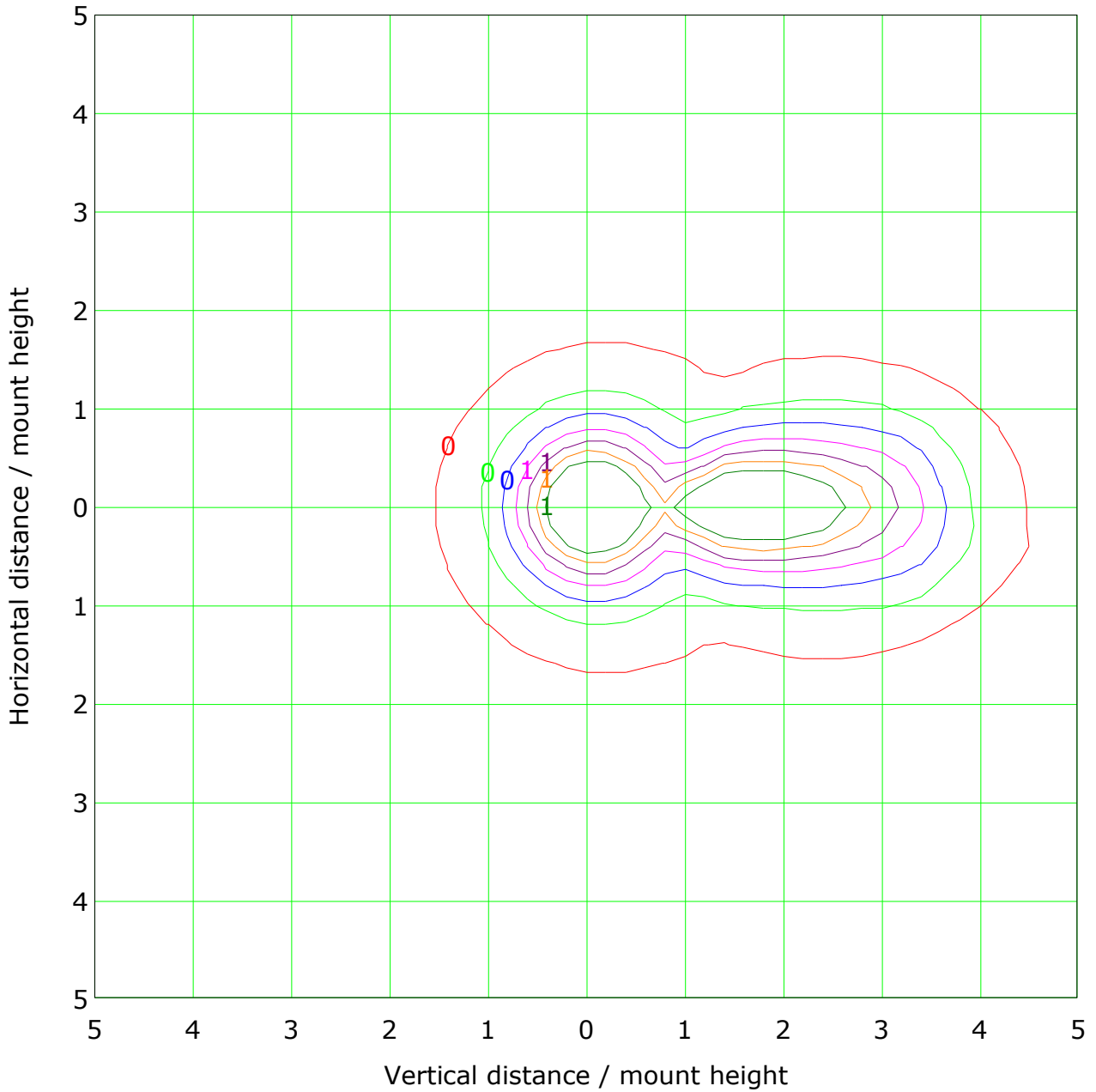
Curves of Luminaires vs Lighting Area



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IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 1.4 lx	
— (5%):	0.1 lx	— (15%):	0.2 lx
— (25%):	0.4 lx	— (35%):	0.5 lx
— (45%):	0.7 lx	— (55%):	0.8 lx
— (65%):	0.9 lx		

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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

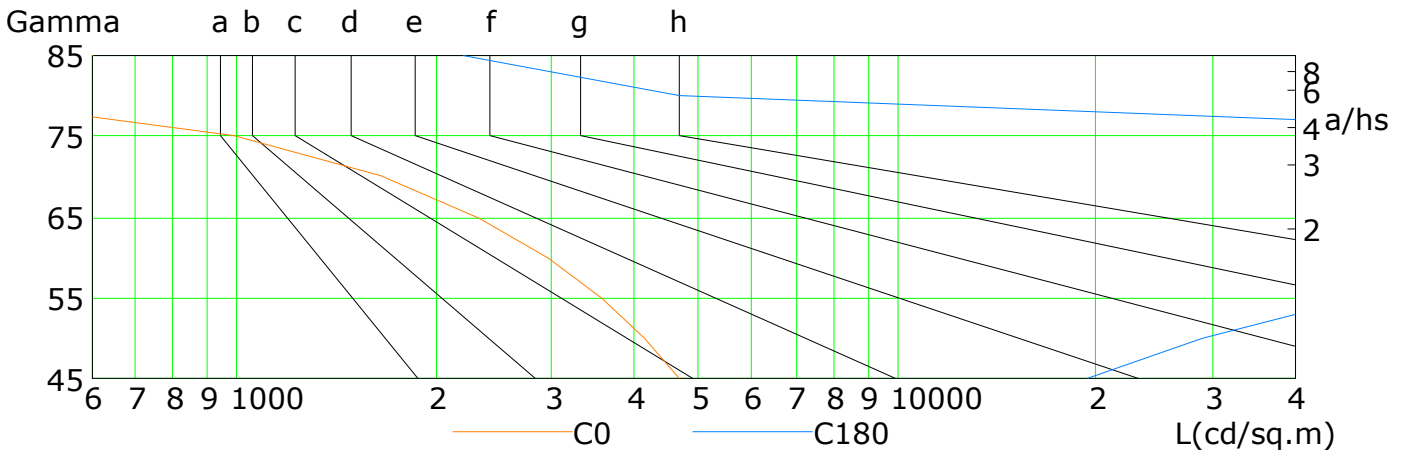
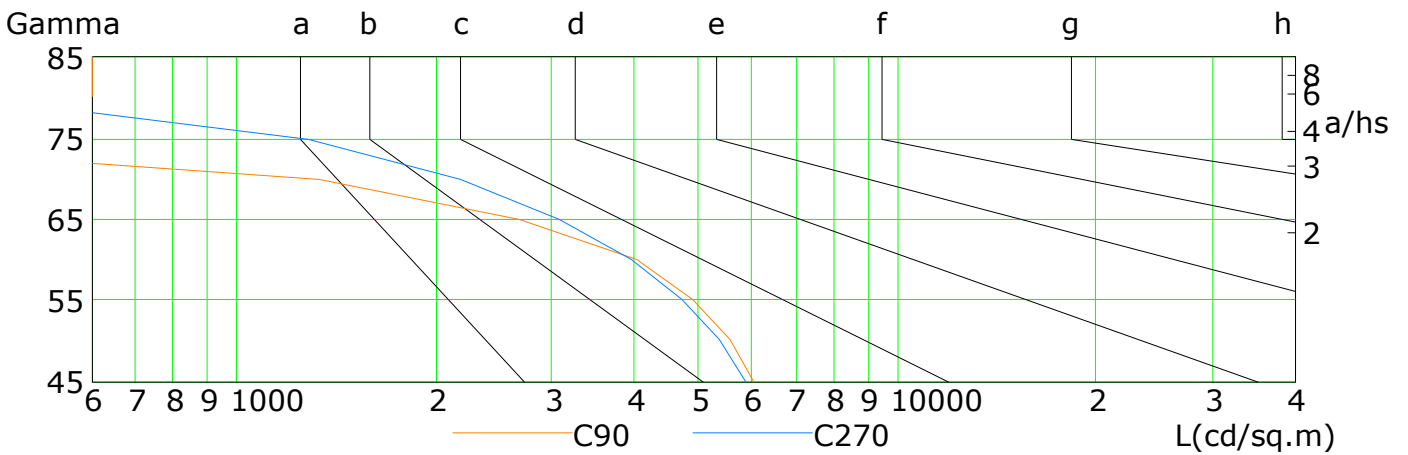
Humidity:

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	4651	4117	3558	2958	2327	1645	985	372	0
C90	6071	5550	4913	4005	2672	1334	187	0	0
C180	19411	28946	50549	83408	141204	218327	206754	4651	2196
C270	5890	5364	4708	3932	3082	2178	1283	402	0

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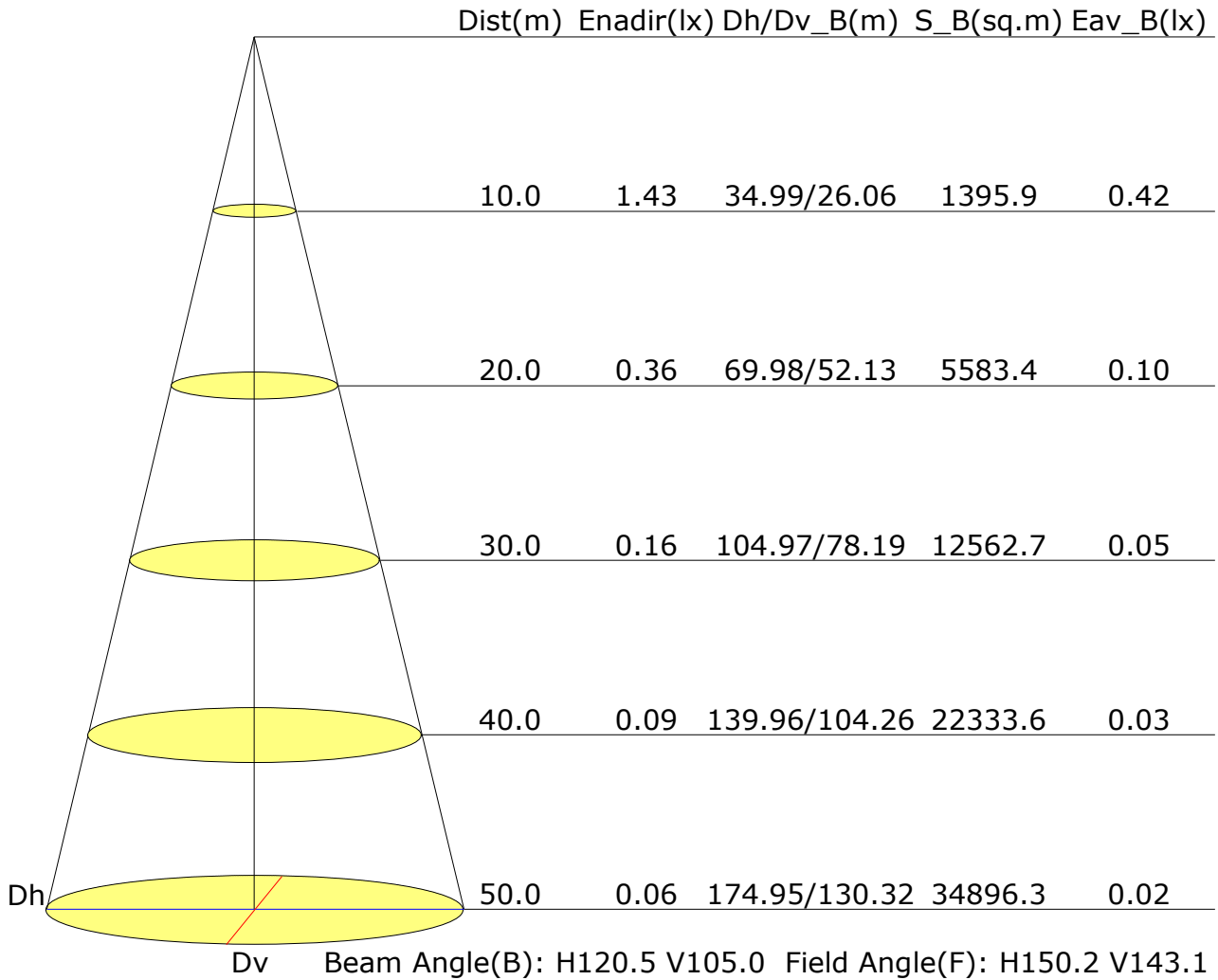
Test Device: GPM-1600L

Distance: 10.000 m

Humidity:

Inspector:

Illuminance at a Distance



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Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

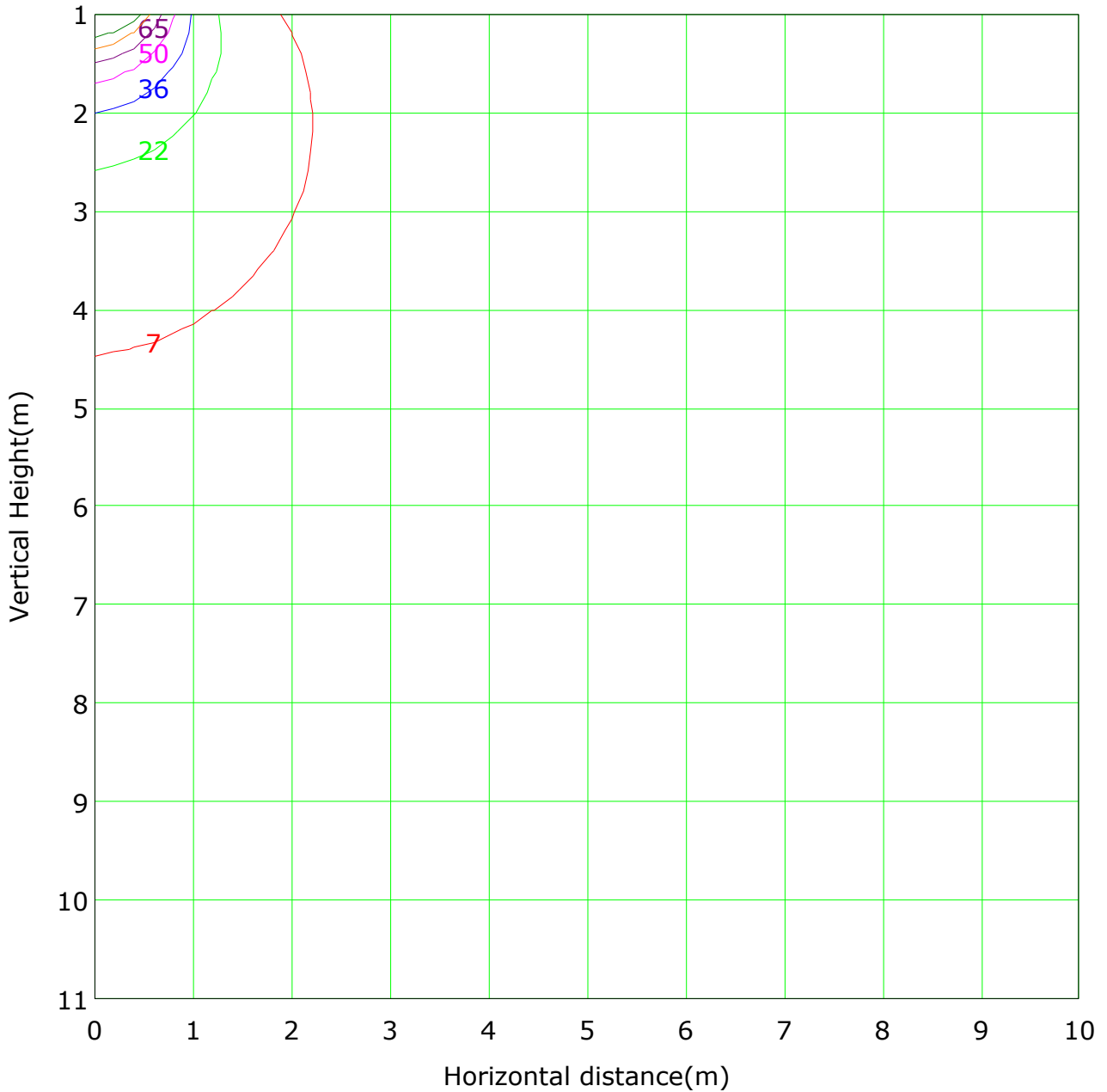
Test Device: GPM-1600L

Distance: 10.000 m

Humidity:

Inspector:

Vertical IsoLux Plot

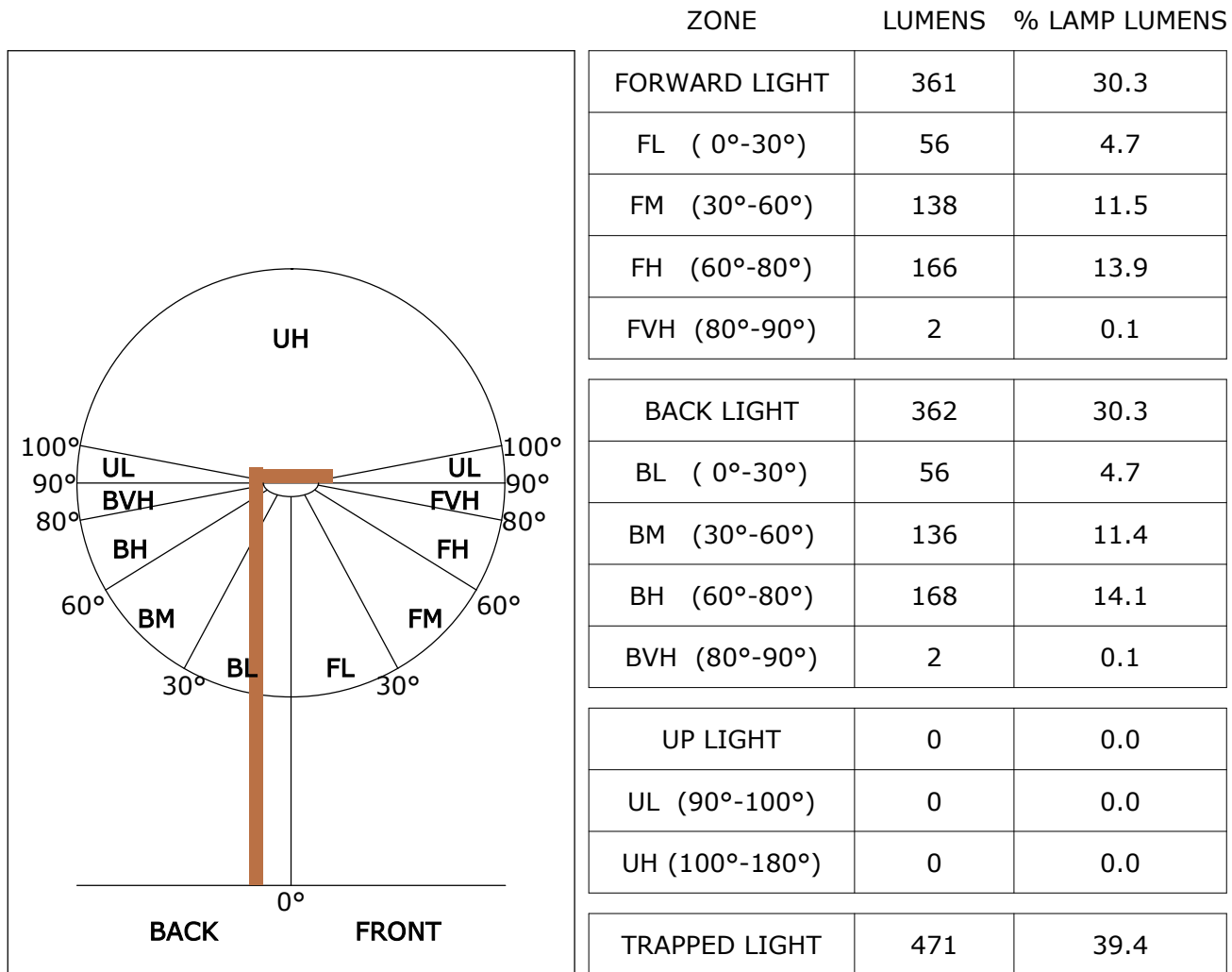


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 143.5 lx
— (5%): 7.2 lx	— (15%): 21.5 lx	
— (25%): 35.9 lx	— (35%): 50.2 lx	
— (45%): 64.6 lx	— (55%): 78.9 lx	
— (65%): 93.3 lx		

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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 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G0

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