

Report No.: LG-4013

Test Time: 2018-01-05 12:32

Luminaire Property

Luminaire Manufacturer: CREE
 Luminaire Category: MW
 Lamp Catalog: XTE
 Lumens per Lamp: 96
 Luminous Width (mm): 70
 Voltage: 3.2V
 Power: 1 W

Luminaire Description: LG-4013
 Number of Lamps: 1
 Luminous Length (mm): 100
 Luminous Height (mm): 30
 Current: 0.35 A
 Power Factor: 1

Photometric Results

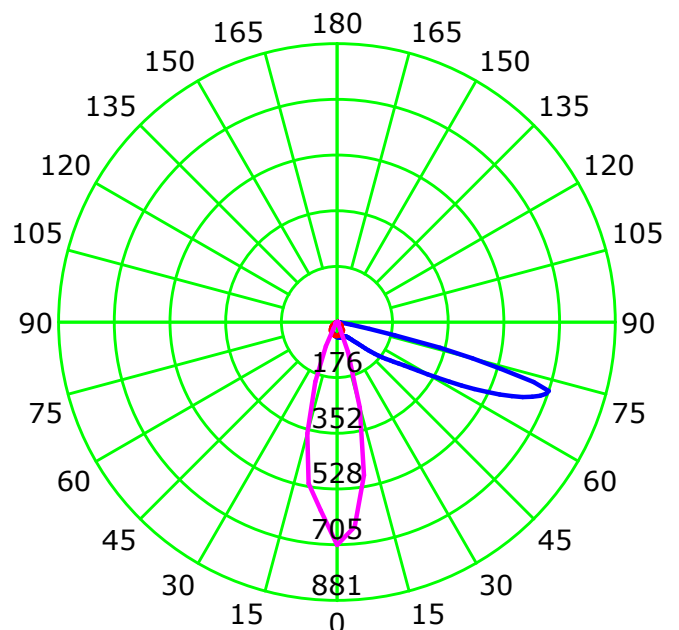
CIE Class: Direct
 Measurement Flux: 196.4 lm
 Downward Ratio: 204.54%
 Field Angle: H142.6 V132.3
 Luminaire Efficacy Rating (LER): 196
 Max. Intensity: 705.02 cd

Total Rated Lamp Lumens: 96.0 lm
 Efficiency: 204.54%
 Upward Ratio: 0.00%
 Beam Angle: H116.6 V93.5
 Central Intensity: 47.33 cd
 Pos of Max. Intensity: H0 V72

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G72

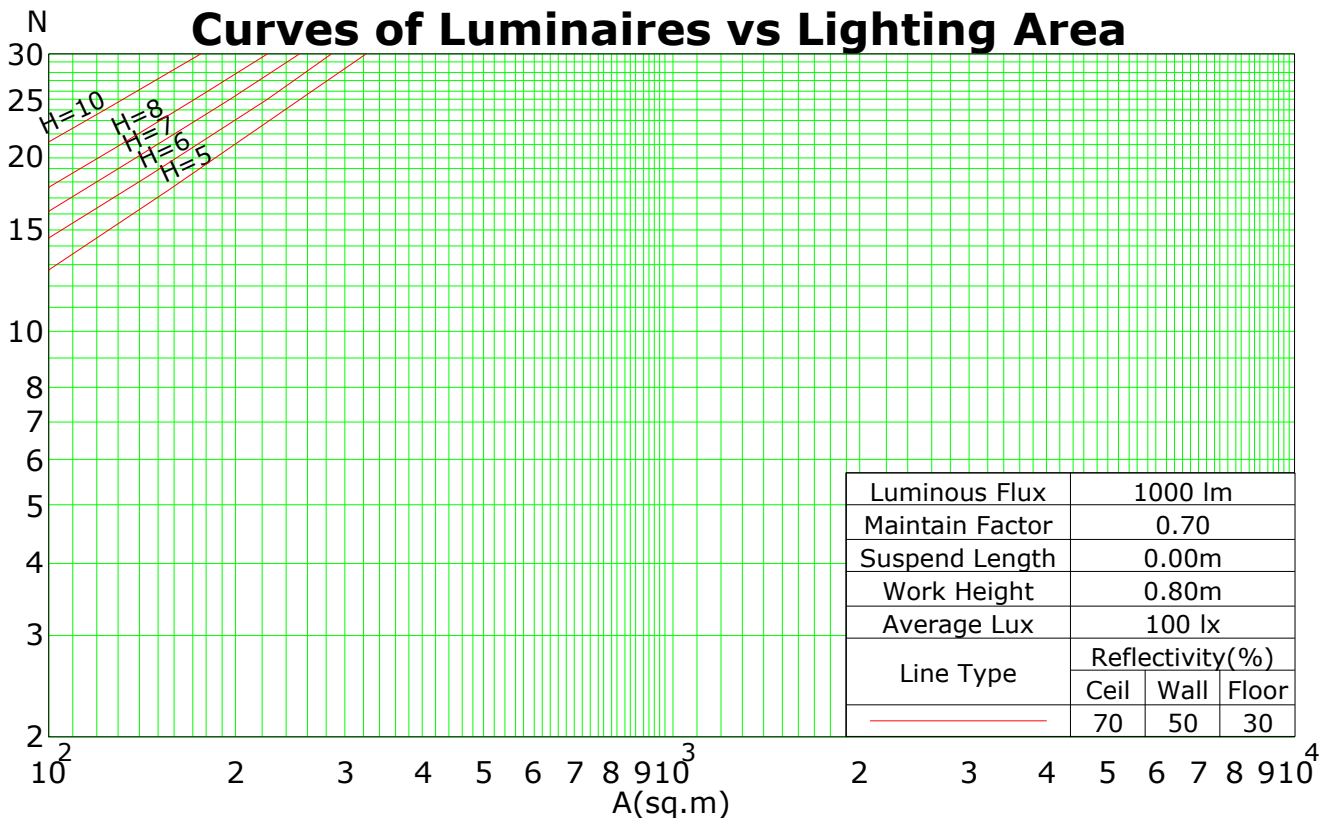
C Plane (°):0.0-360.0: 5.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

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	243	243	243	243	238	238	238	238	227	227	227	218	218	218	209	209	209	205
1	218	206	195	186	212	201	191	183	192	184	177	184	177	171	176	171	166	161
2	192	172	155	140	186	168	152	139	160	147	135	153	142	132	146	137	129	124
3	171	146	125	109	166	142	123	108	136	119	106	130	116	104	124	112	102	97
4	155	126	104	88	149	123	103	88	117	100	86	112	97	85	107	94	84	78
5	141	110	89	73	136	108	88	73	103	85	72	99	83	71	95	81	70	65
6	129	98	77	62	125	96	76	62	92	74	61	88	73	61	85	71	60	55
7	119	88	68	54	115	86	67	54	83	66	53	80	64	53	77	63	52	48
8	111	80	61	47	107	78	60	47	75	59	47	73	58	46	70	56	46	42
9	103	73	55	42	100	72	54	42	69	53	42	67	52	41	65	51	41	37
10	97	67	50	38	94	66	49	38	64	48	38	62	48	37	60	47	37	33

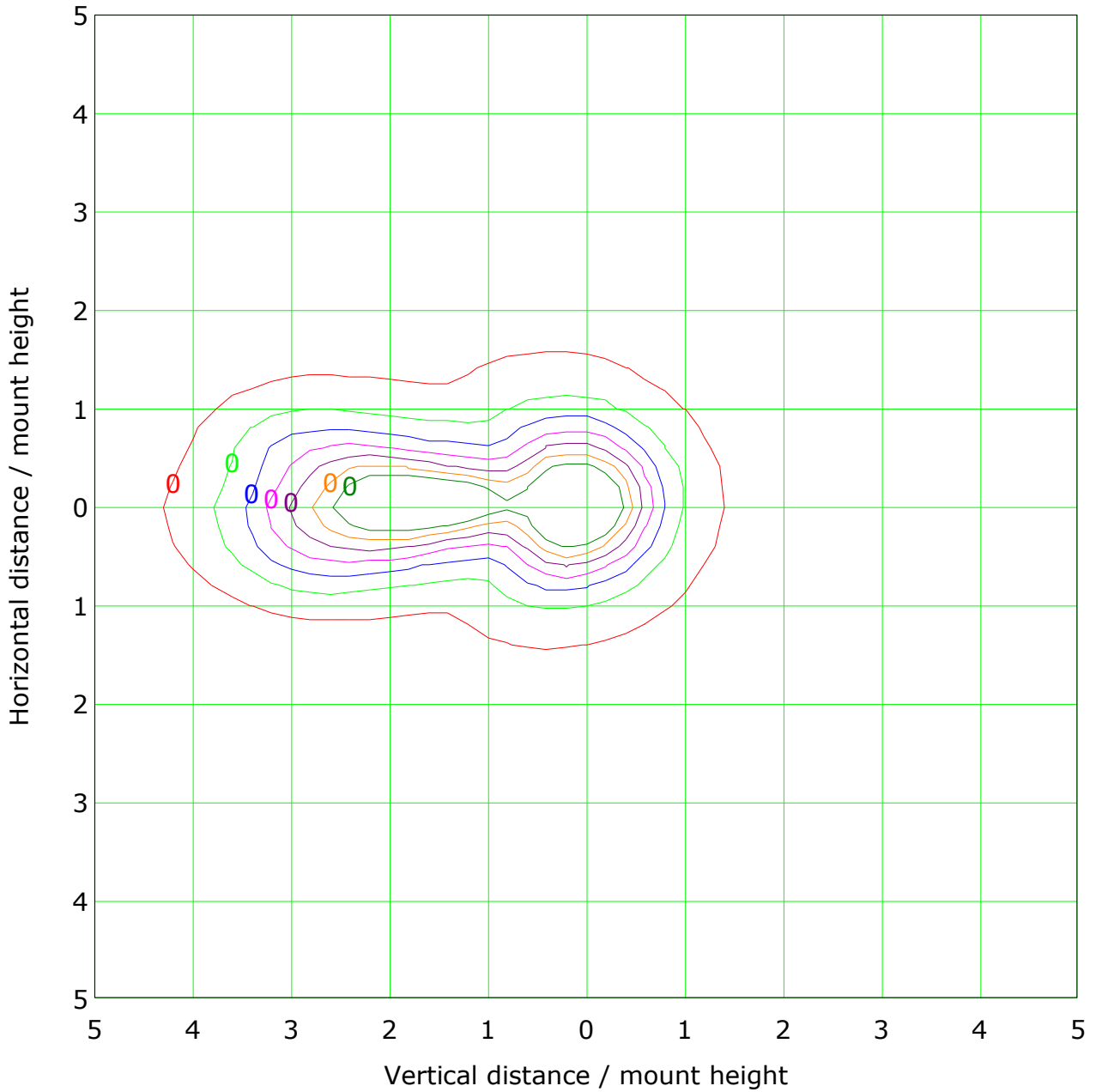
Spacing Criteria (0-180): 1.41
 Spacing Criteria (90-270): 1.19
 Spacing Criteria (Diagonal): 1.29



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IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 0.5 lx	
— (5%):	0.0 lx	— (15%):	0.1 lx
— (25%):	0.1 lx	— (35%):	0.2 lx
— (45%):	0.2 lx	— (55%):	0.3 lx
— (65%):	0.3 lx		

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Test Device: GPM-1600L

Distance: 10.000 m

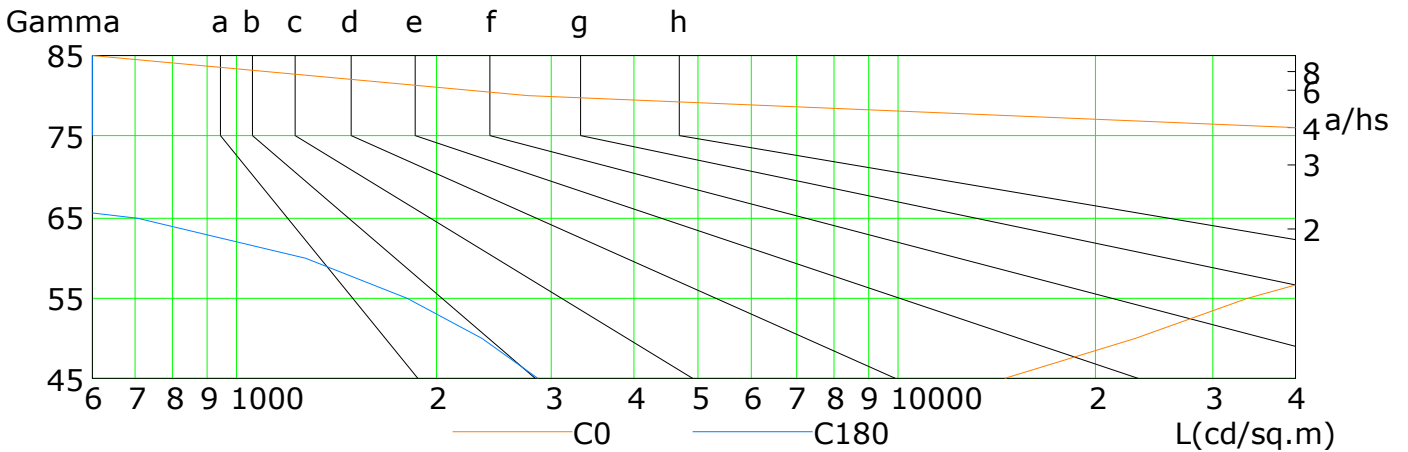
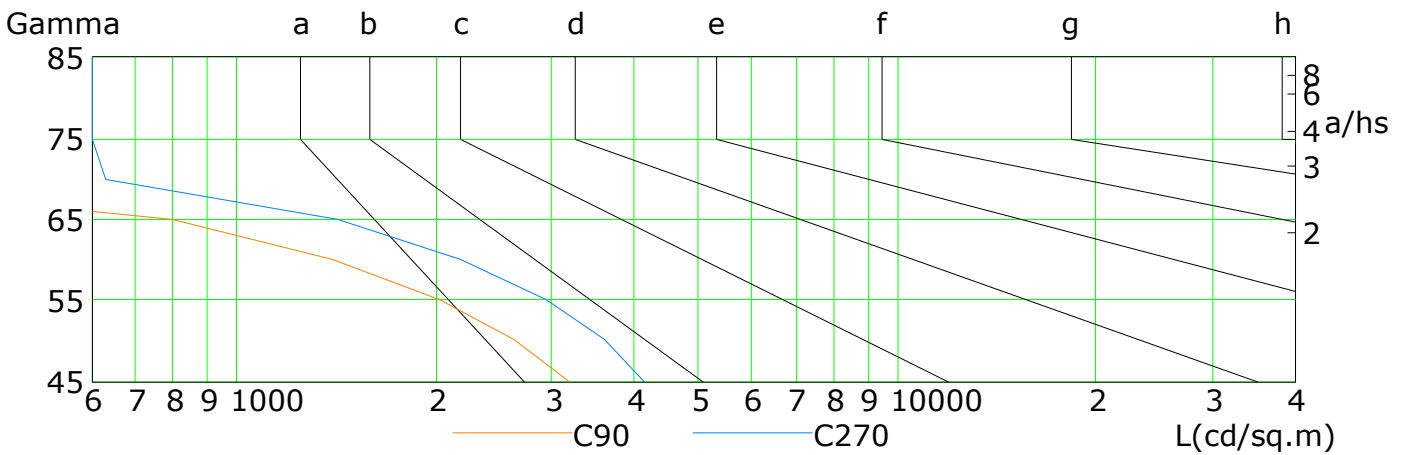
Humidity:

Inspector:

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	14558	22961	33920	54325	92413	131155	94214	2751	0
C90	3181	2610	2017	1397	796	204	0	0	0
C180	2843	2341	1811	1268	705	132	0	0	0
C270	4154	3585	2922	2175	1421	632	0	0	0

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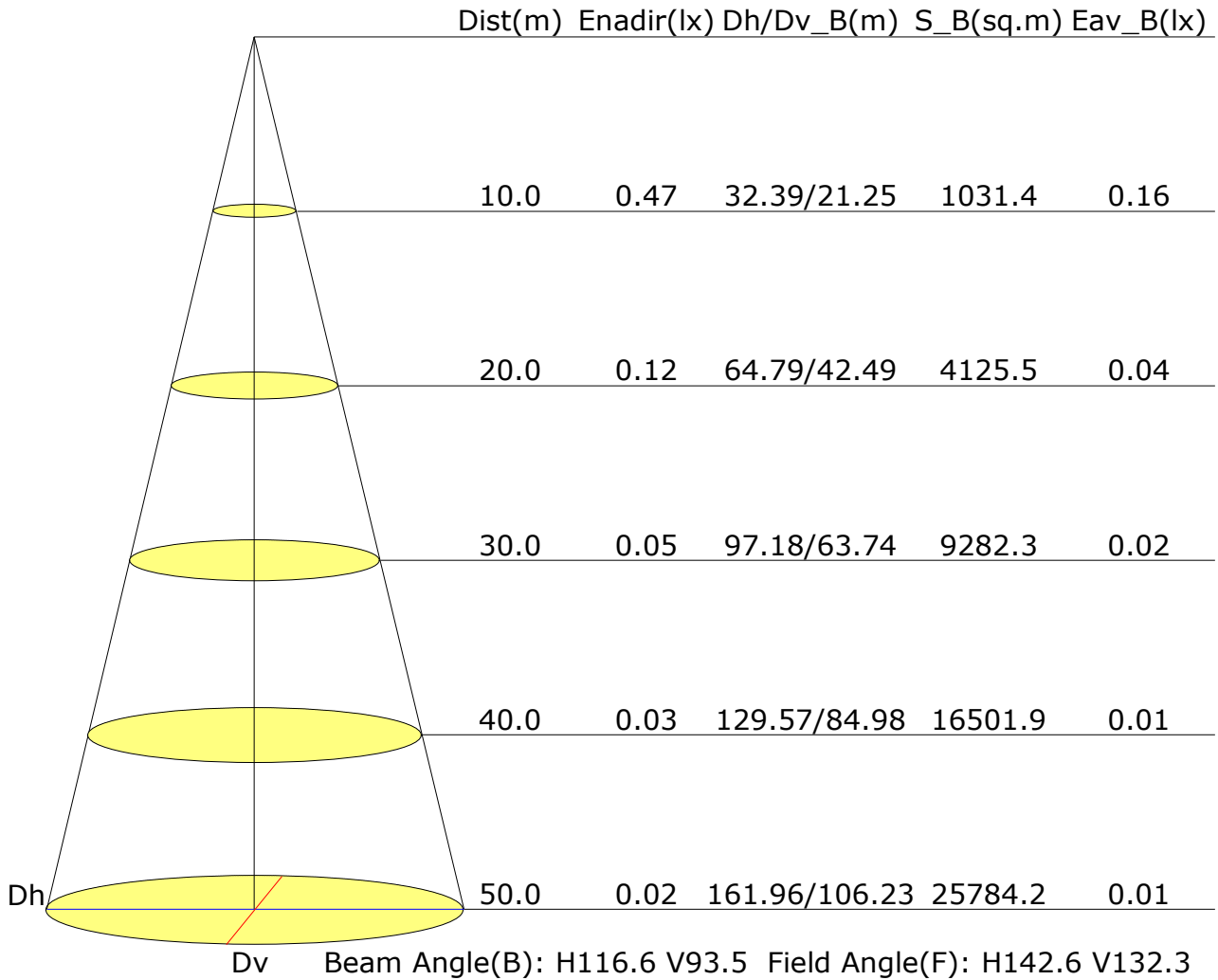
Test Device: GPM-1600L

Distance: 10.000 m

Humidity:

Inspector:

Illuminance at a Distance



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Test Lab:

Test Type: TYPE C

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Operator:

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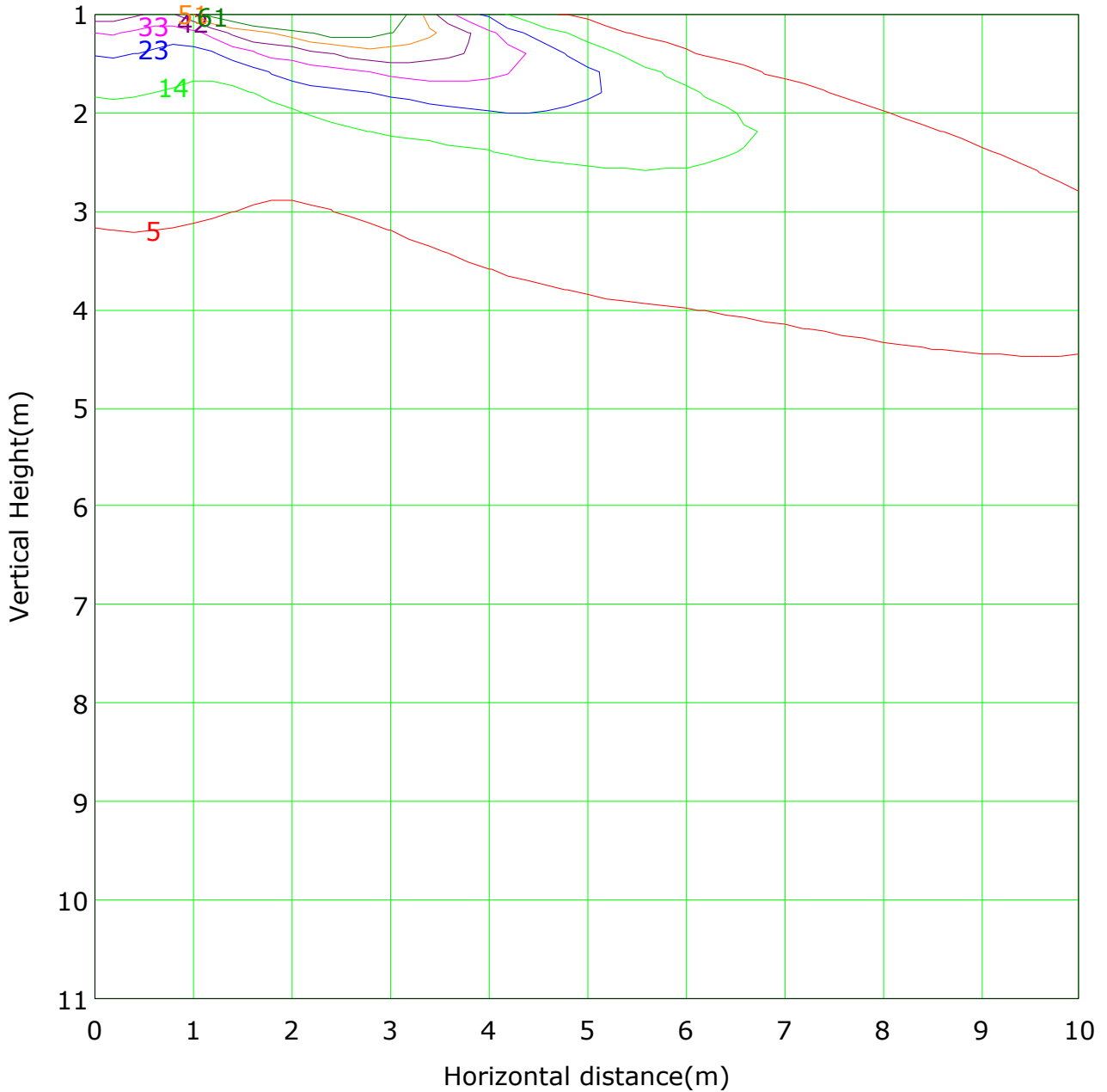
Test Device: GPM-1600L

Distance: 10.000 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 93.6 lx
— (5%): 4.7 lx	— (15%): 14.0 lx	
— (25%): 23.4 lx	— (35%): 32.7 lx	
— (45%): 42.1 lx	— (55%): 51.5 lx	
— (65%): 60.8 lx		

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Test Device: GPM-1600L

Distance: 10.000 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	92	95.5
	FL (0°-30°)	17	18.0
	FM (30°-60°)	36	37.9
	FH (60°-80°)	38	39.5
	FVH (80°-90°)	0	0.1
	BACK LIGHT	105	109.0
	BL (0°-30°)	18	18.8
	BM (30°-60°)	42	44.2
	BH (60°-80°)	44	45.9
	BVH (80°-90°)	0	0.1
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

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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