

Report No.: LG-8005/3

Test Time: 2016-06-04 11:18

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LED

Lamp Catalog: CO

Lumens per Lamp: 1732

Luminous Width (mm): 70

Voltage: 110.0 V

Power: 21.42 W

Luminaire Description: AR-111

Number of Lamps: 1

Luminous Length (mm): 70

Luminous Height (mm): 3

Current: 0.196 A

Power Factor: 0.993

## Photometric Results

CIE Class: Direct

Measurement Flux: 1309.7 lm

Downward Ratio: 75.62%

Field Angle: H76.7 V77.0

Luminaire Efficacy Rating (LER): 61

Max. Intensity: 2686.57 cd

Total Rated Lamp Lumens: 1732.0 lm

Efficiency: 75.62%

Upward Ratio: 0.00%

Beam Angle: H28.3 V28.3

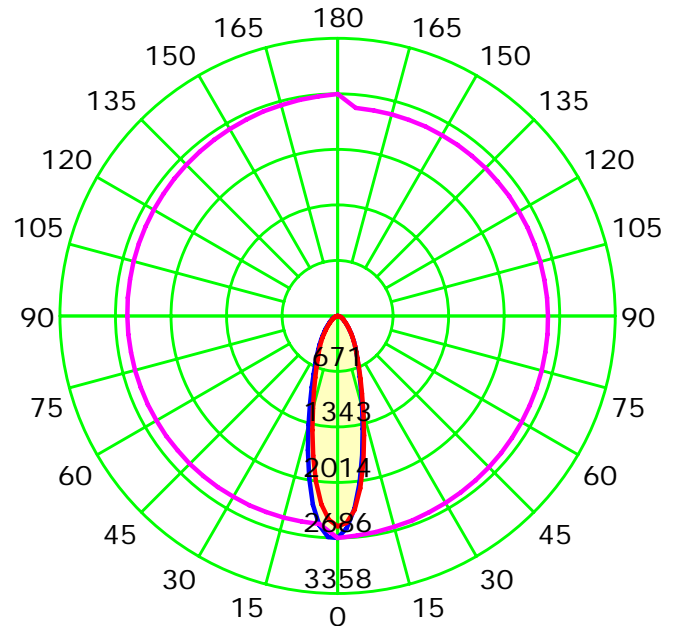
Central Intensity: 2686.56 cd

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: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: 1

Gamma Plane (°):0.0-90.0:2.5

Test Device: GPM-1600L

Distance: 8.961 m

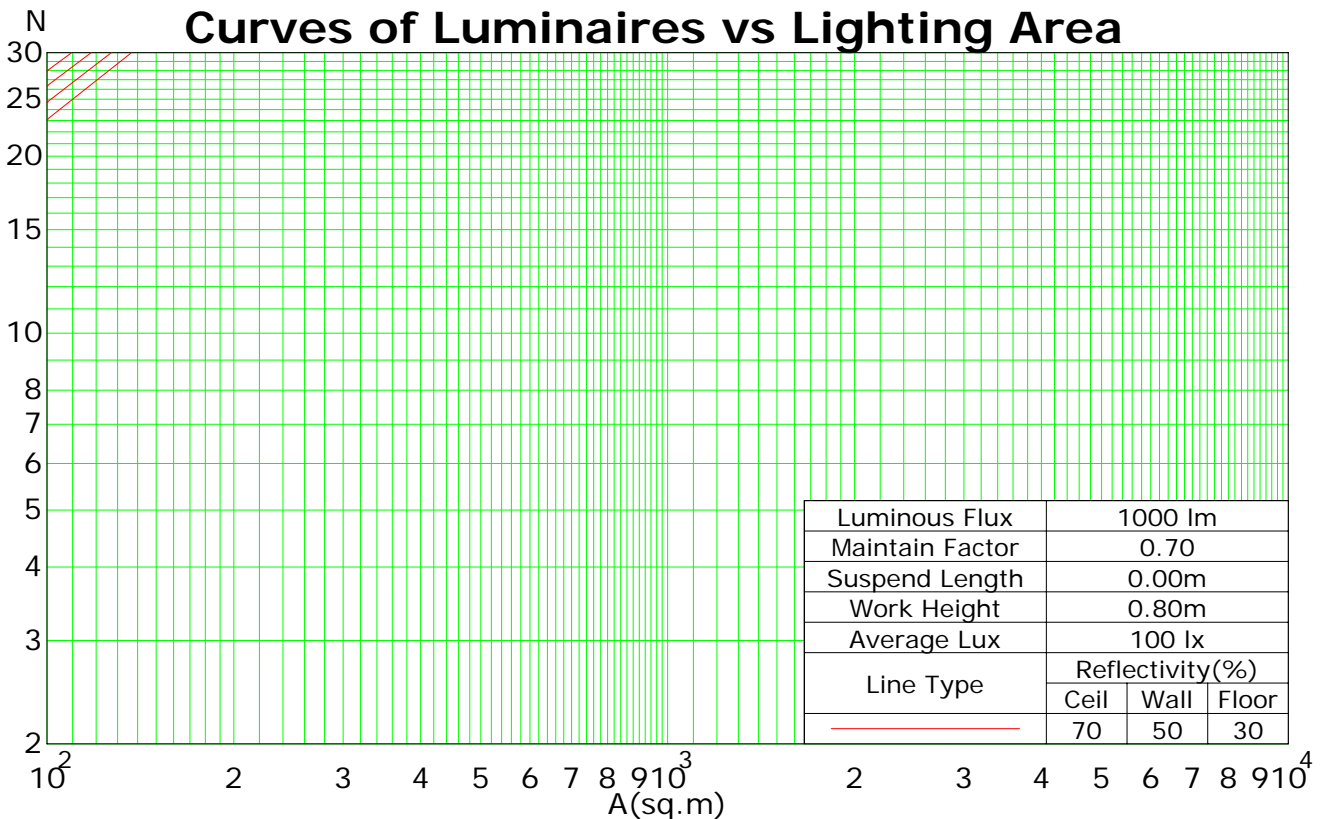
Humidity:

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	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	76
1	85	83	80	78	83	81	79	77	78	76	75	75	74	73	72	71	70	69
2	80	76	72	69	78	74	71	69	72	69	67	70	67	66	68	66	64	63
3	75	70	66	62	74	69	65	62	67	64	61	65	62	60	63	61	59	58
4	71	65	60	57	70	64	60	56	62	59	56	61	58	55	59	57	54	53
5	67	61	56	52	66	60	55	52	58	54	51	57	54	51	56	53	50	49
6	64	57	52	48	63	56	51	48	55	51	48	54	50	47	53	50	47	46
7	61	53	48	45	60	53	48	45	52	48	45	51	47	44	50	47	44	43
8	58	50	46	42	57	50	45	42	49	45	42	48	45	42	48	44	42	41
9	55	48	43	40	54	47	43	40	47	42	40	46	42	39	45	42	39	38
10	53	45	41	38	52	45	41	38	44	40	38	44	40	37	43	40	37	36

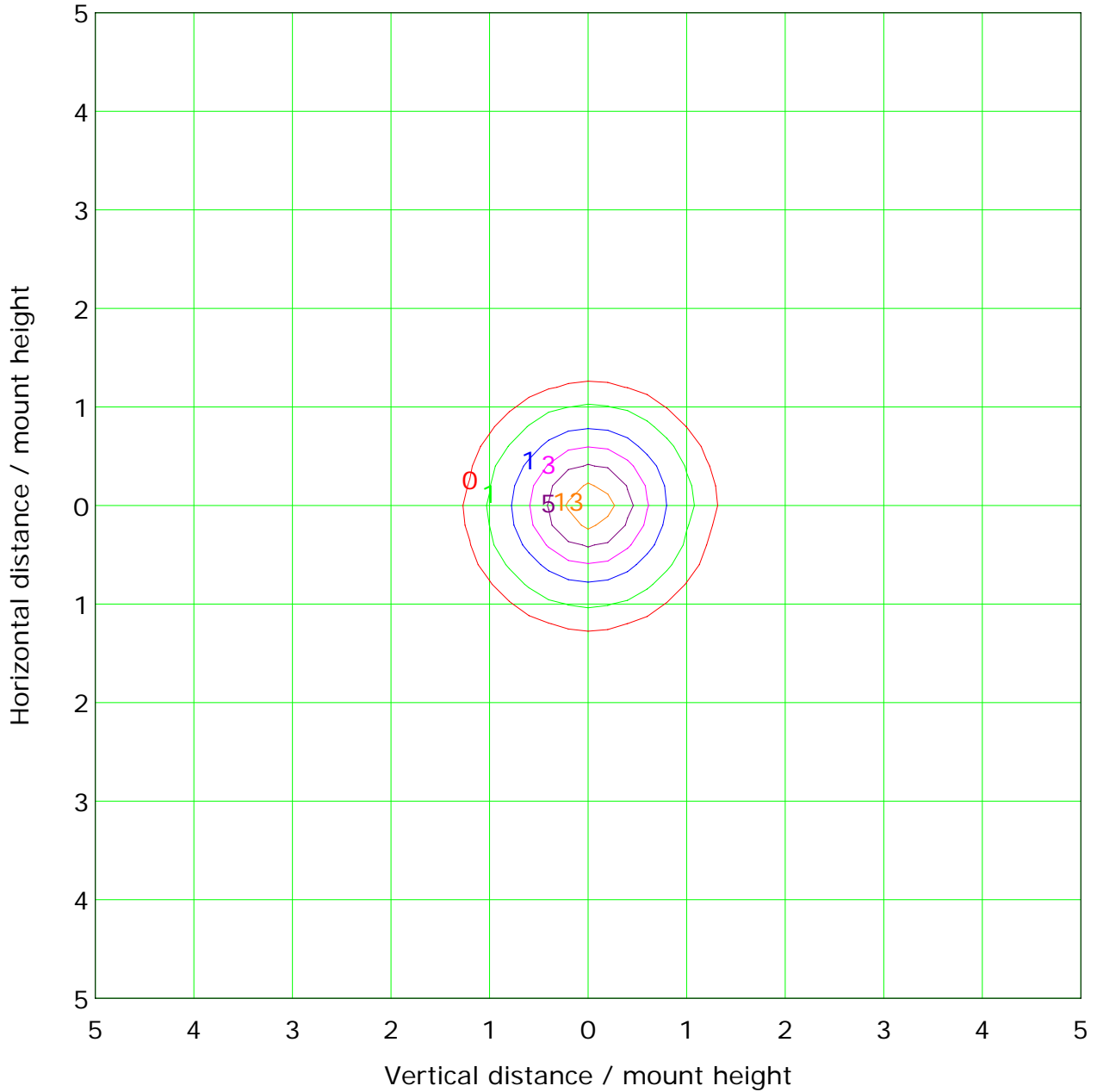
Spacing Criteria (0-180): 0.47  
 Spacing Criteria (90-270): 0.47  
 Spacing Criteria (Diagonal): 0.51



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 Test Device: GPM-1600L  
 Distance: 8.961 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 26.9 lx	
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> ( 1%): 0.3 lx</li> <li><span style="color: blue;">—</span> ( 5%): 1.3 lx</li> <li><span style="color: purple;">—</span> ( 20%): 5.4 lx</li> <li><span style="color: green;">—</span> (100%): 26.9 lx</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: green;">—</span> ( 2%): 0.5 lx</li> <li><span style="color: magenta;">—</span> ( 10%): 2.7 lx</li> <li><span style="color: orange;">—</span> ( 50%): 13.4 lx</li> </ul>		

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: 1

Gamma Plane (°):0.0-90.0:2.5

Test Device: GPM-1600L

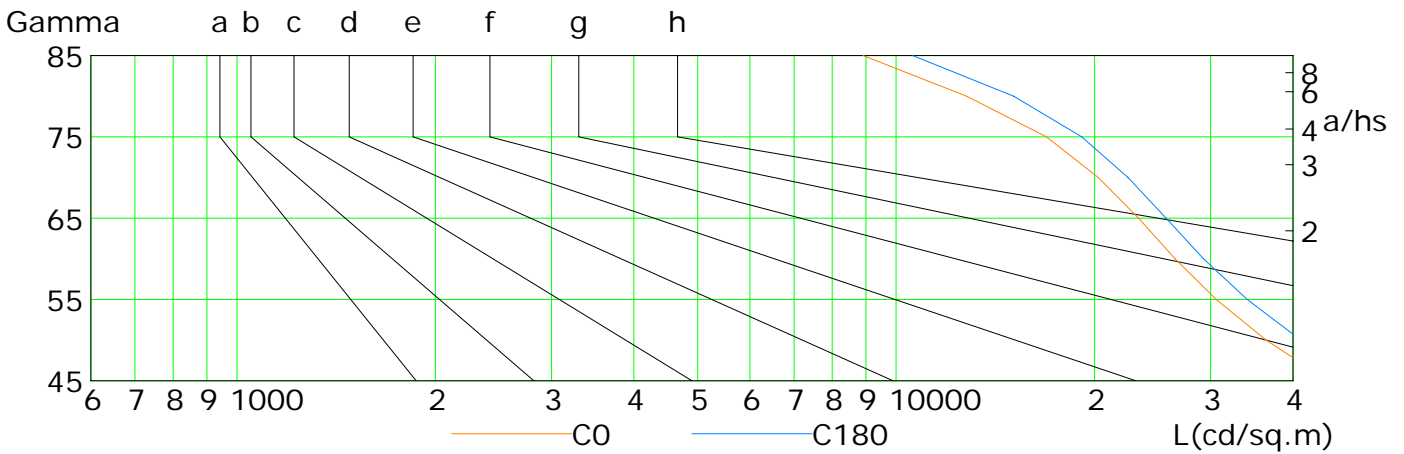
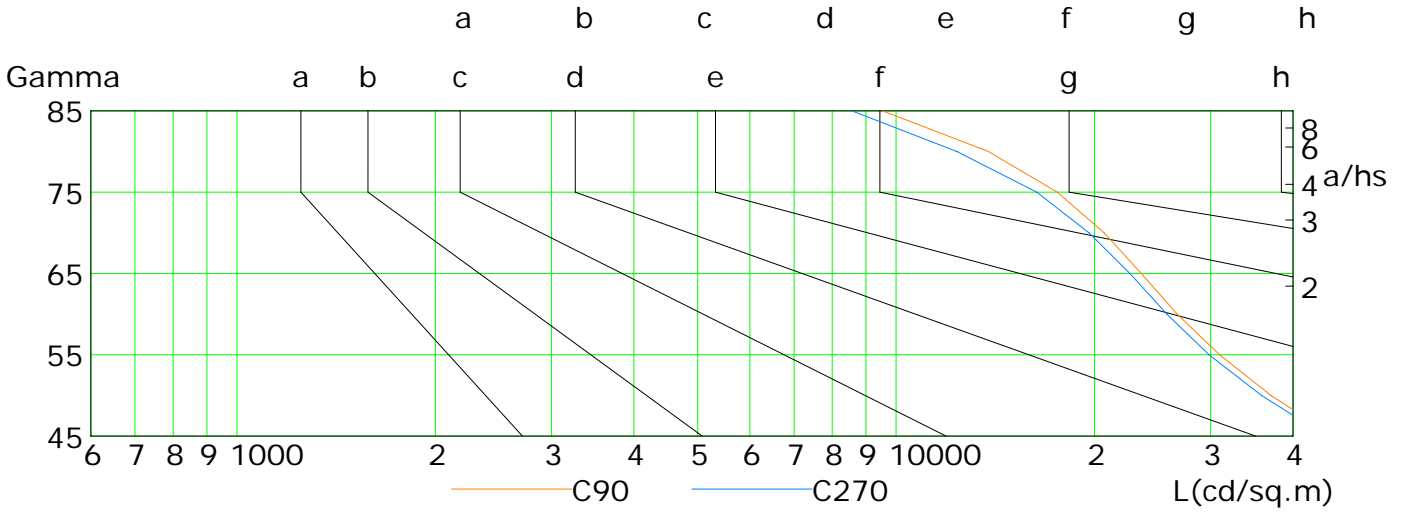
Distance: 8.961 m

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	45244	36420	30598	26502	23320	20264	16913	12792	8911
C90	46207	37048	30953	26692	23545	20686	17559	13804	9540
C180	51429	41154	34098	29276	25682	22485	19129	15080	10593
C270	44978	35828	29824	25754	22626	19608	16342	12367	8566

C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: 1

Gamma Plane (°):0.0-90.0:2.5

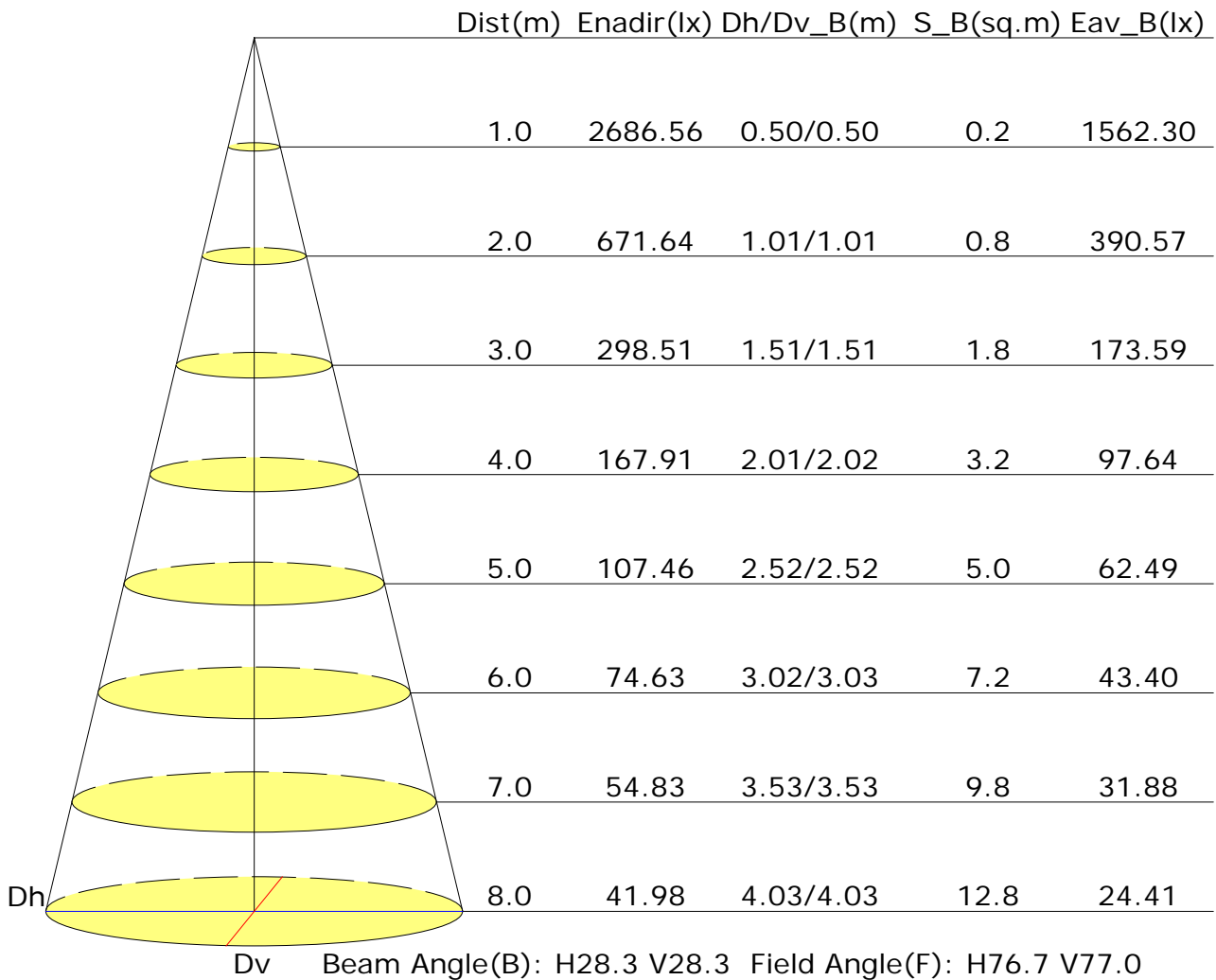
Test Device: GPM-1600L

Distance: 8.961 m

Humidity:

Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 5.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: 1

Gamma Plane (°):0.0-90.0:2.5

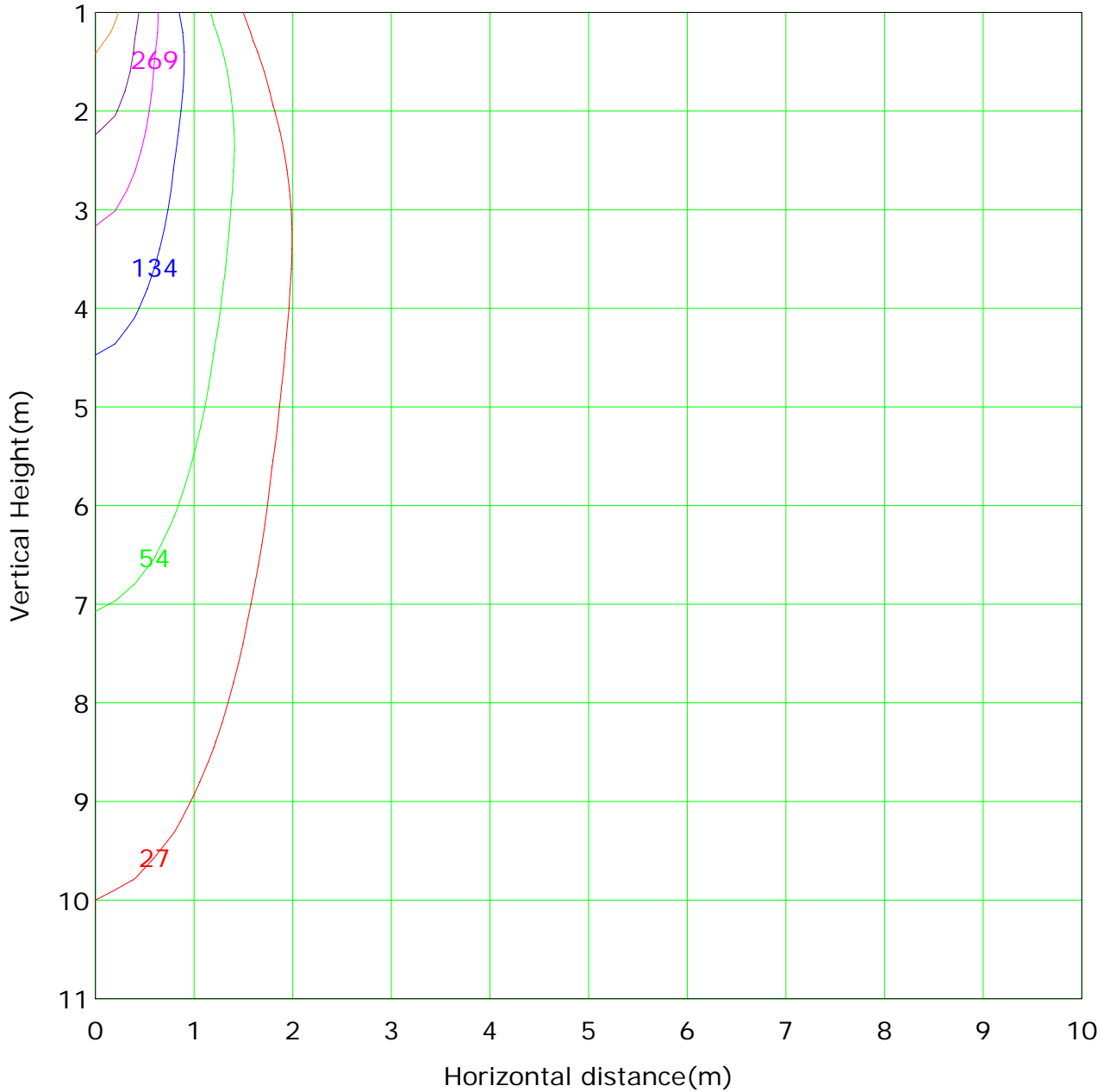
Test Device: GPM-1600L

Distance: 8.961 m

Humidity:

Inspector:

### Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 2686.6 lx  
— ( 1%): 26.9 lx                      — ( 2%): 53.7 lx  
— ( 5%): 134.3 lx                      — ( 10%): 268.7 lx  
— ( 20%): 537.3 lx                      — ( 50%): 1343.3 lx  
— (100%): 2686.6 lx

C Plane (°): 0.0-360.0: 5.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: 1

Gamma Plane (°): 0.0-90.0: 2.5  
Test Device: GPM-1600L  
Distance: 8.961 m  
Humidity:  
Inspector: