

Report No.: LG-8005/1

Test Time: 2016-06-02 15:35

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LED

Lamp Catalog: CO

Lumens per Lamp: 1822

Luminous Width (mm): 70

Voltage: 110.0 V

Power: 21.47 W

Luminaire Description: AR-111

Number of Lamps: 1

Luminous Length (mm): 70

Luminous Height (mm): 3

Current: 0.197 A

Power Factor: 0.993

## Photometric Results

CIE Class: Direct

Measurement Flux: 1459.2 lm

Downward Ratio: 80.09%

Field Angle: H76.2 V76.3

Luminaire Efficacy Rating (LER): 68

Max. Intensity: 2474.29 cd

Total Rated Lamp Lumens: 1822.0 lm

Efficiency: 80.09%

Upward Ratio: 0.00%

Beam Angle: H42.7 V42.9

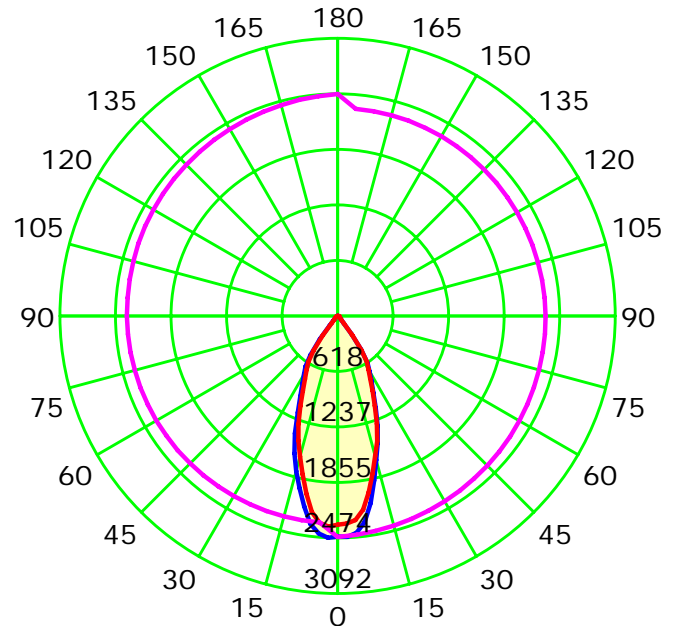
Central Intensity: 2456.93 cd

Pos of Max. Intensity: H180 V2.5

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G2.5

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

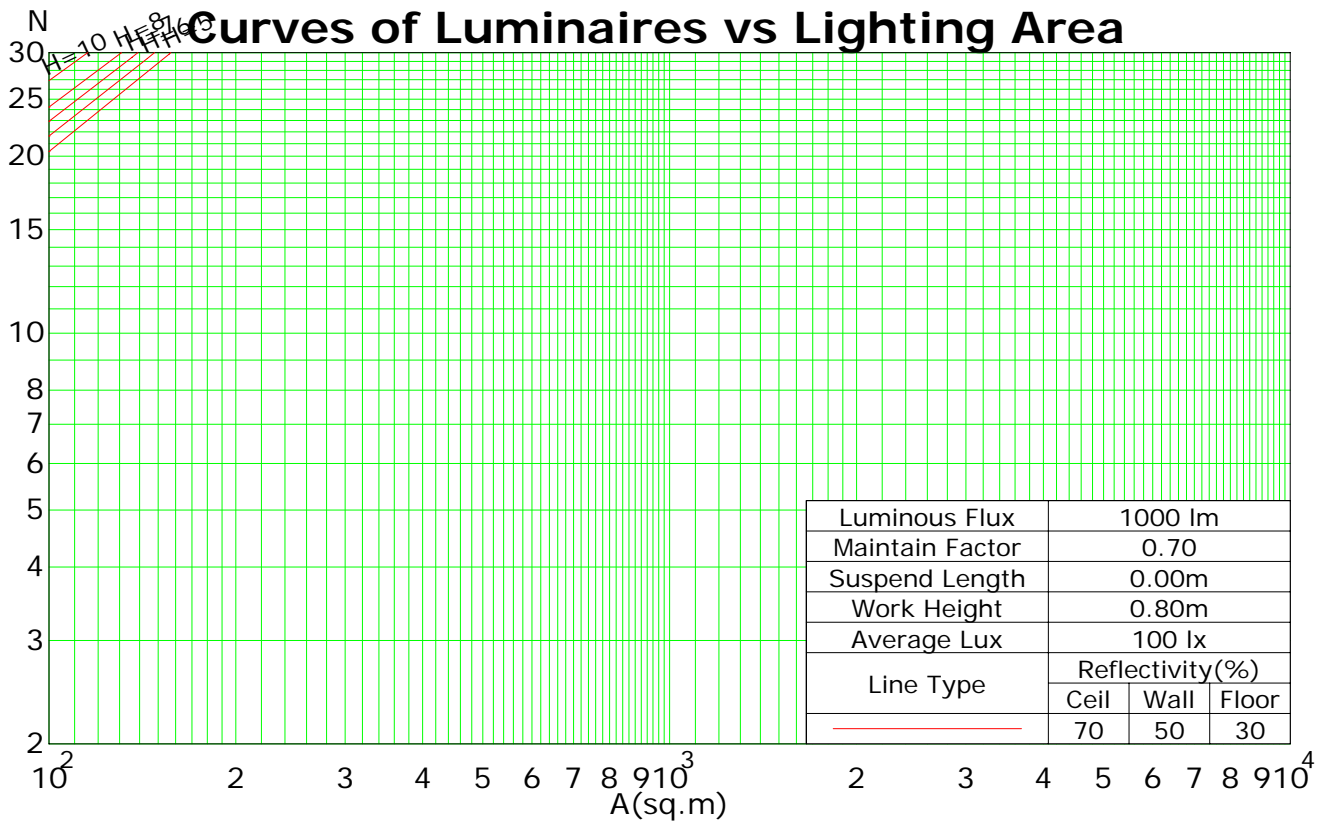
Humidity:

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
RCCR	RF = 0.2																	
0	95	95	95	95	93	93	93	93	89	89	89	85	85	85	82	82	82	80
1	91	89	87	85	89	87	85	84	84	82	81	81	80	79	78	77	76	75
2	87	83	80	77	85	81	79	76	79	77	75	77	75	73	74	73	71	70
3	83	78	74	71	81	76	73	70	74	71	69	72	70	68	71	69	67	66
4	79	73	69	65	77	72	68	65	70	67	64	69	66	63	67	65	63	61
5	75	69	64	61	74	68	64	60	66	63	60	65	62	59	64	61	59	58
6	71	65	60	57	70	64	60	57	63	59	56	62	58	56	61	58	55	54
7	68	61	57	53	67	61	56	53	60	56	53	59	55	53	58	55	52	51
8	65	58	53	50	64	58	53	50	57	53	50	56	52	50	55	52	50	49
9	62	55	51	48	62	55	50	47	54	50	47	53	50	47	53	49	47	46
10	60	52	48	45	59	52	48	45	51	48	45	51	47	45	50	47	45	44

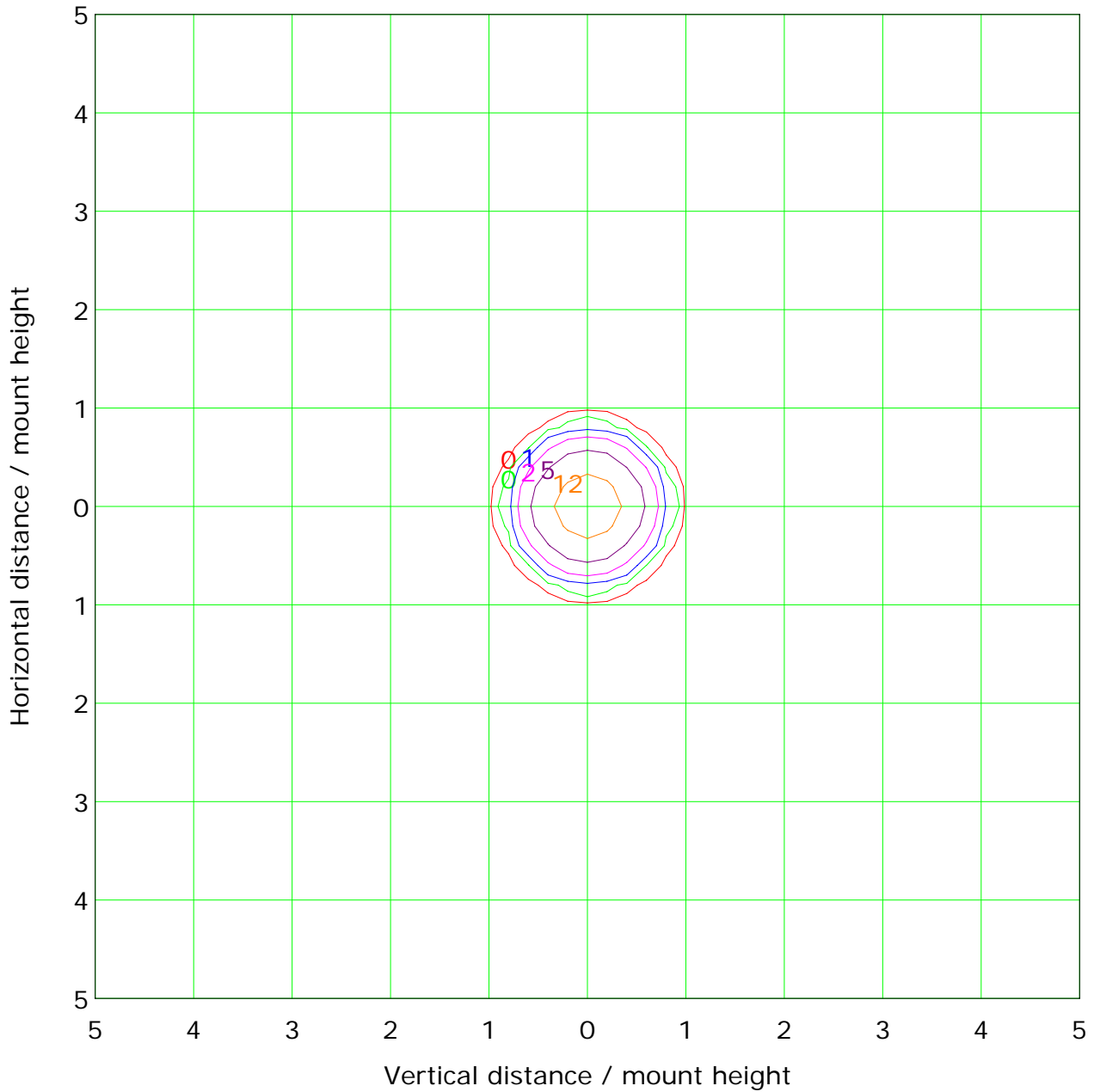
Spacing Criteria (0-180): 0.68  
 Spacing Criteria (90-270): 0.68  
 Spacing Criteria (Diagonal): 0.70



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:

### IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 24.7 lx	
— ( 1%):	0.2 lx	— ( 2%):	0.5 lx
— ( 5%):	1.2 lx	— ( 10%):	2.5 lx
— ( 20%):	4.9 lx	— ( 50%):	12.3 lx
— (100%):	24.7 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

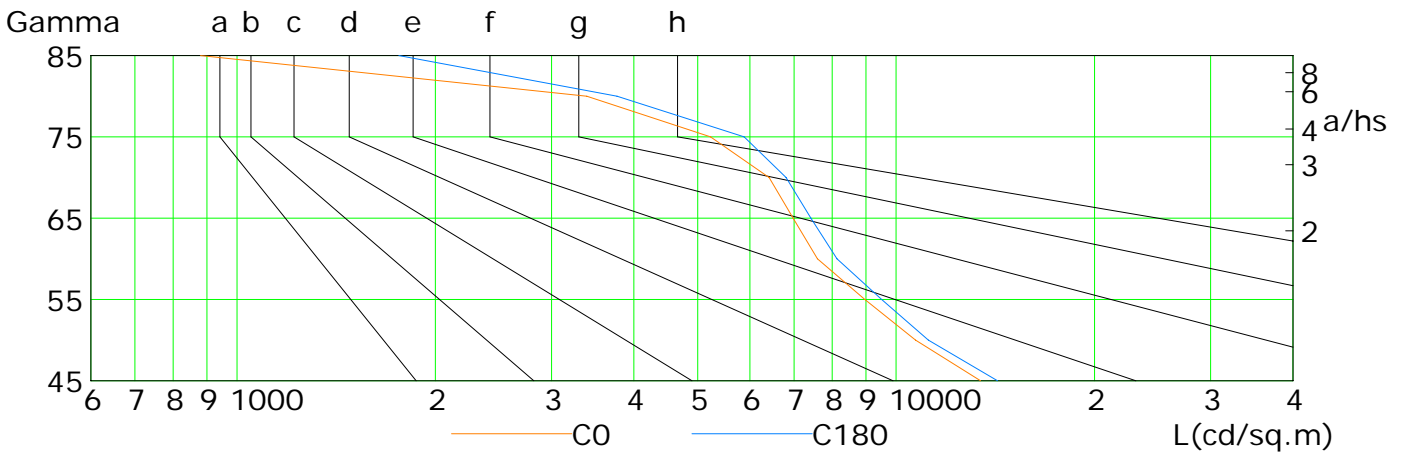
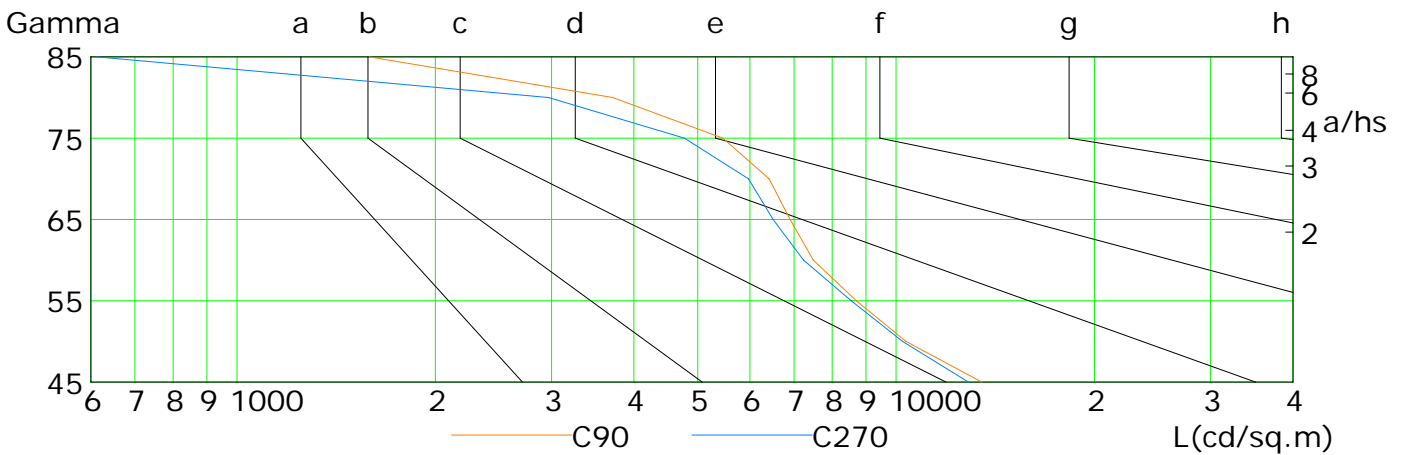
Humidity:

Inspector:

### Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A								
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	13428	10705	8962	7595	6979	6417	5228	3394	880
C90	13492	10349	8701	7489	6904	6417	5459	3716	1587
C180	14253	11195	9509	8131	7425	6806	5880	3772	1760
C270	12869	10228	8550	7234	6506	5968	4772	2969	613

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

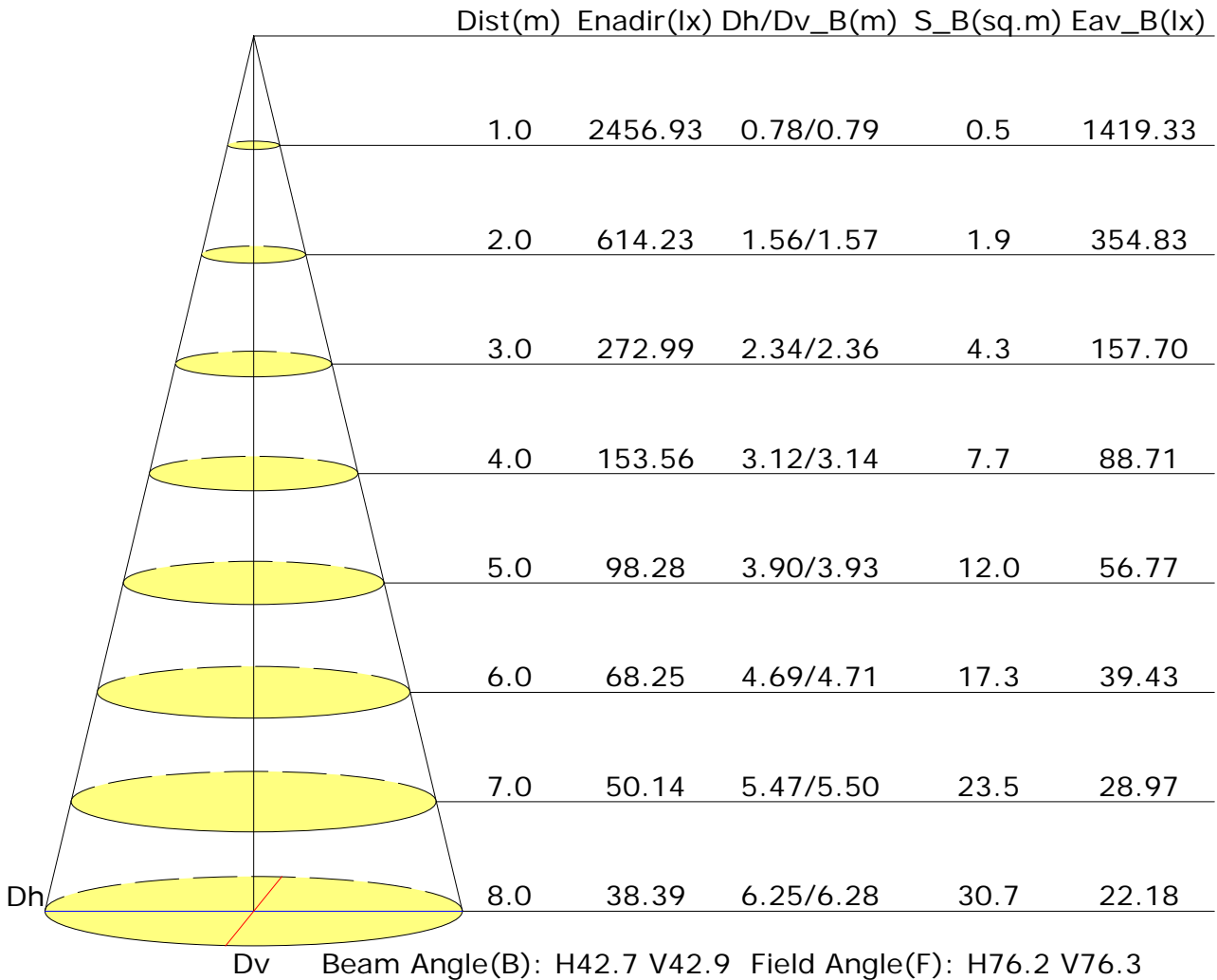
Test Device: GPM-1600L

Distance: 8.961 m

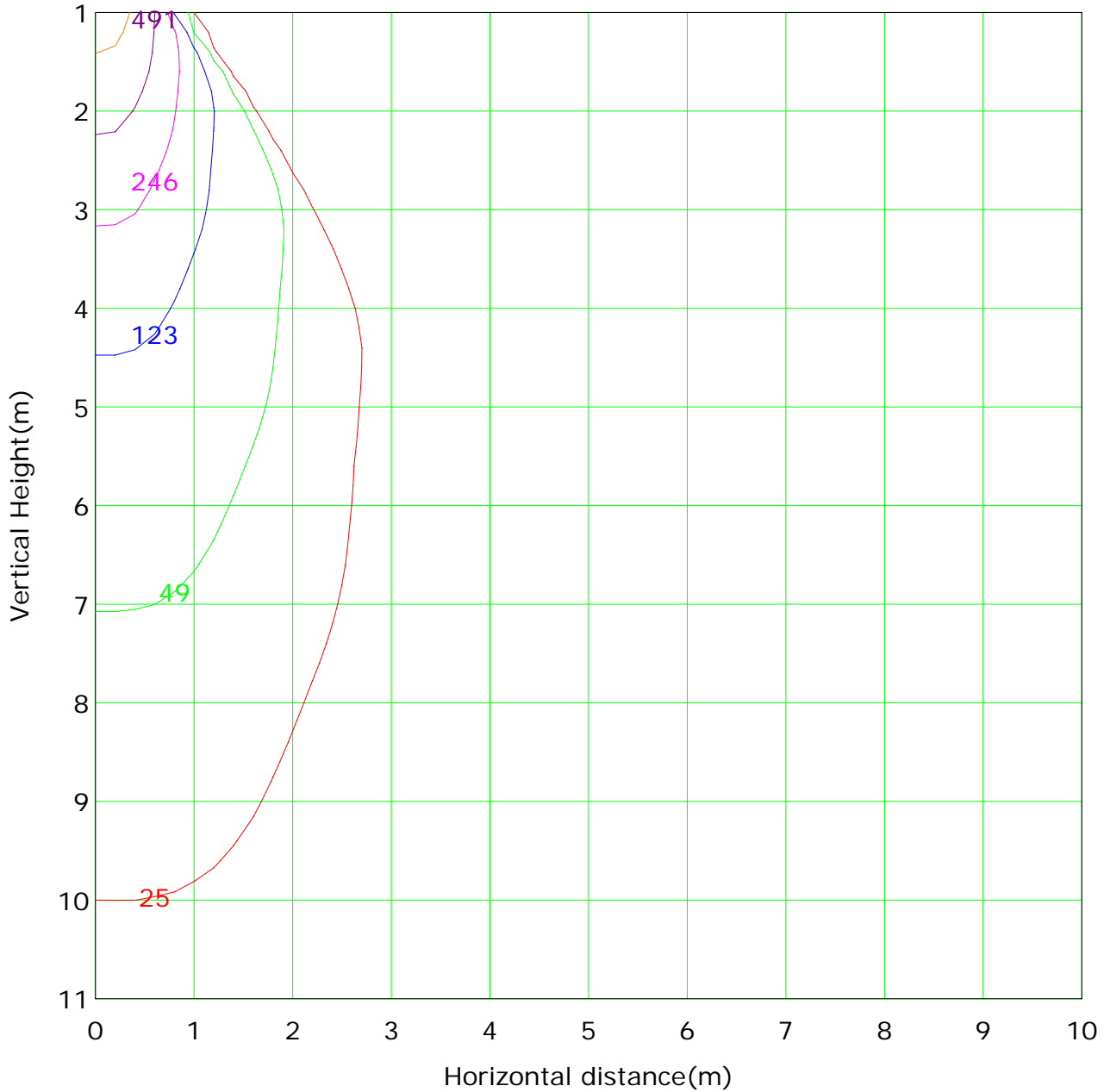
Humidity:

Inspector:

## Illuminance at a Distance



### Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 2456.9 lx  
— ( 1%): 24.6 lx                      — ( 2%): 49.1 lx  
— ( 5%): 122.8 lx                      — ( 10%): 245.7 lx  
— ( 20%): 491.4 lx                      — ( 50%): 1228.5 lx  
— (100%): 2456.9 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: