

Report No.: LG-8004

Test Time: 2016-06-02 12:44

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: LED

Lamp Catalog: CO

Lumens per Lamp: 1732

Luminous Width (mm): 70

Voltage: 110.0 V

Power: 21.77 W

Luminaire Description: AR-111

Number of Lamps: 1

Luminous Length (mm): 70

Luminous Height (mm): 3

Current: 0.200 A

Power Factor: 0.992

## Photometric Results

CIE Class: Direct

Measurement Flux: 1361.1 lm

Downward Ratio: 78.59%

Field Angle: H75.3 V74.8

Luminaire Efficacy Rating (LER): 63

Max. Intensity: 3061.29 cd

Total Rated Lamp Lumens: 1732.0 lm

Efficiency: 78.59%

Upward Ratio: 0.00%

Beam Angle: H26.9 V26.8

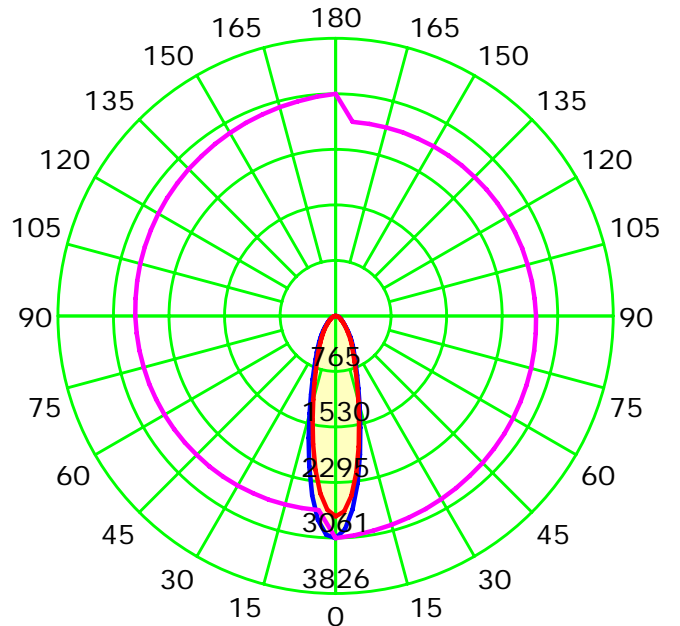
Central Intensity: 3061.28 cd

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

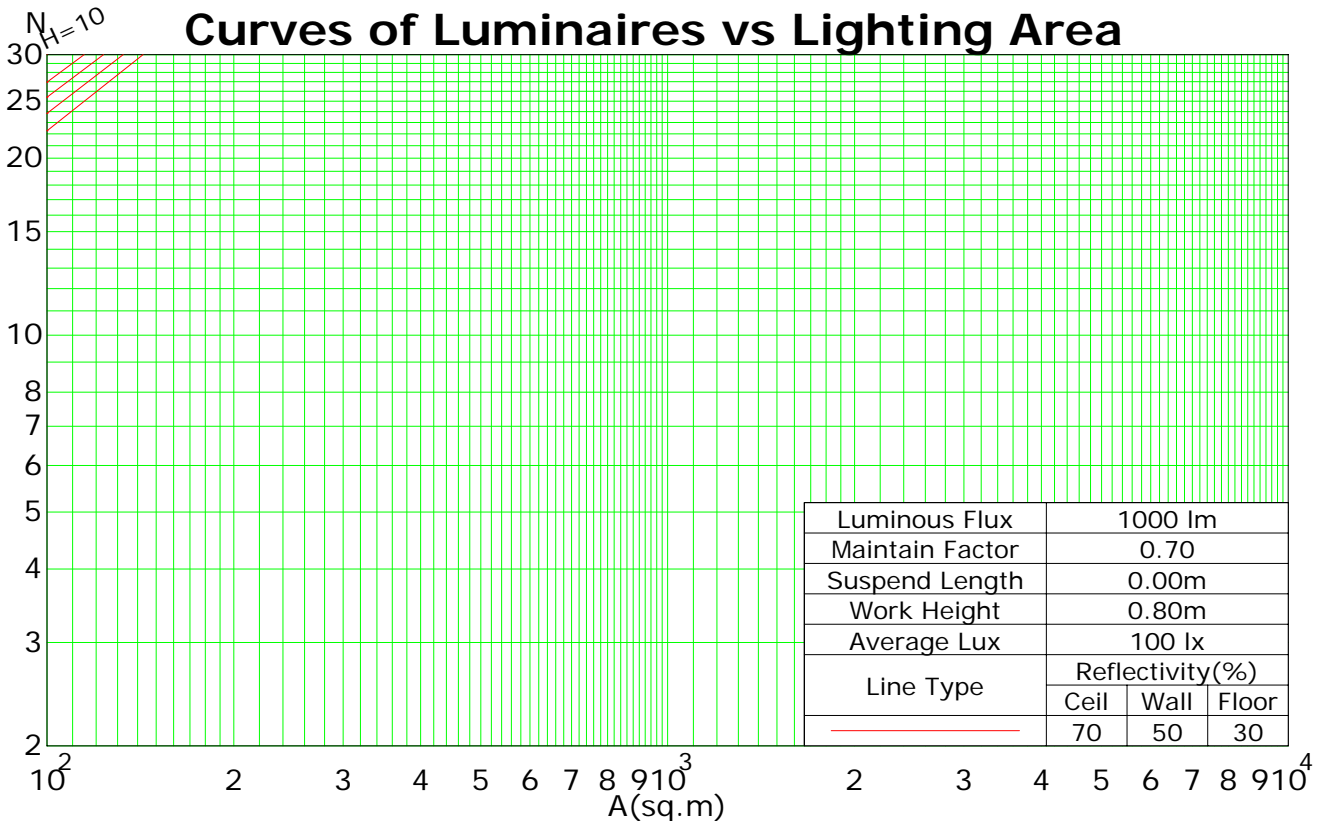
Humidity:

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
RCCR	RF = 0.2																	
0	94	94	94	94	91	91	91	91	87	87	87	84	84	84	80	80	80	79
1	88	86	83	81	86	84	82	80	81	79	78	78	76	75	75	74	73	72
2	83	79	75	72	81	77	74	71	75	72	69	72	70	68	70	68	66	65
3	78	73	68	65	77	71	67	64	69	66	63	67	64	62	65	63	61	60
4	74	67	62	59	72	66	62	58	65	61	58	63	60	57	61	59	56	55
5	70	63	58	54	69	62	57	54	61	56	53	59	56	53	58	55	52	51
6	66	59	54	50	65	58	53	50	57	53	49	56	52	49	55	51	49	48
7	63	55	50	47	62	55	50	47	54	49	46	53	49	46	52	48	46	45
8	60	52	47	44	59	52	47	44	51	47	44	50	46	43	49	46	43	42
9	57	49	45	41	57	49	44	41	48	44	41	48	44	41	47	43	41	40
10	55	47	42	39	54	47	42	39	46	42	39	45	42	39	45	41	39	38

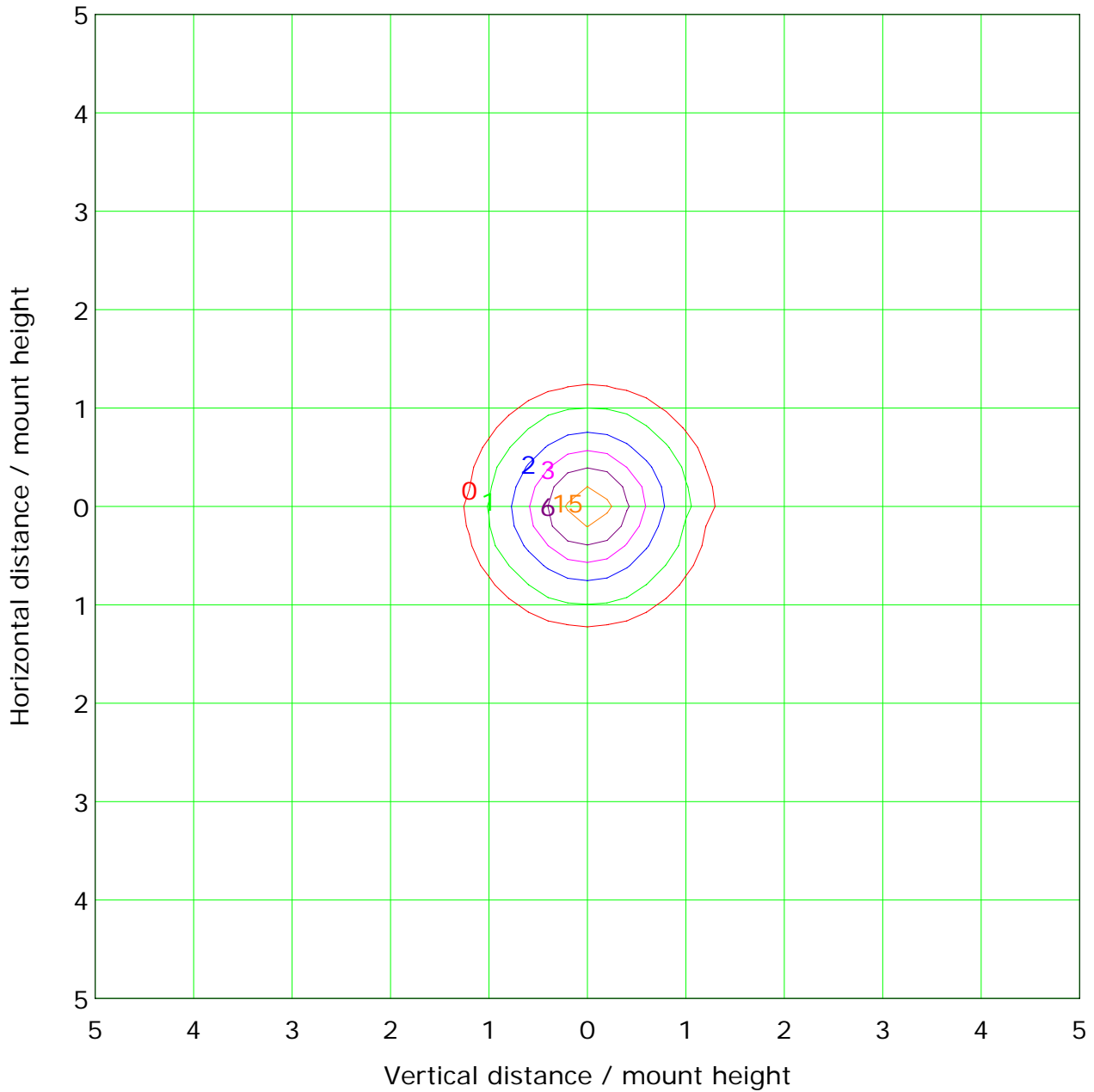
Spacing Criteria (0-180): 0.45  
 Spacing Criteria (90-270): 0.44  
 Spacing Criteria (Diagonal): 0.48



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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%): 30.6 lx	
— ( 1%):	0.3 lx	— ( 2%):	0.6 lx
— ( 5%):	1.5 lx	— ( 10%):	3.1 lx
— ( 20%):	6.1 lx	— ( 50%):	15.3 lx
— (100%):	30.6 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

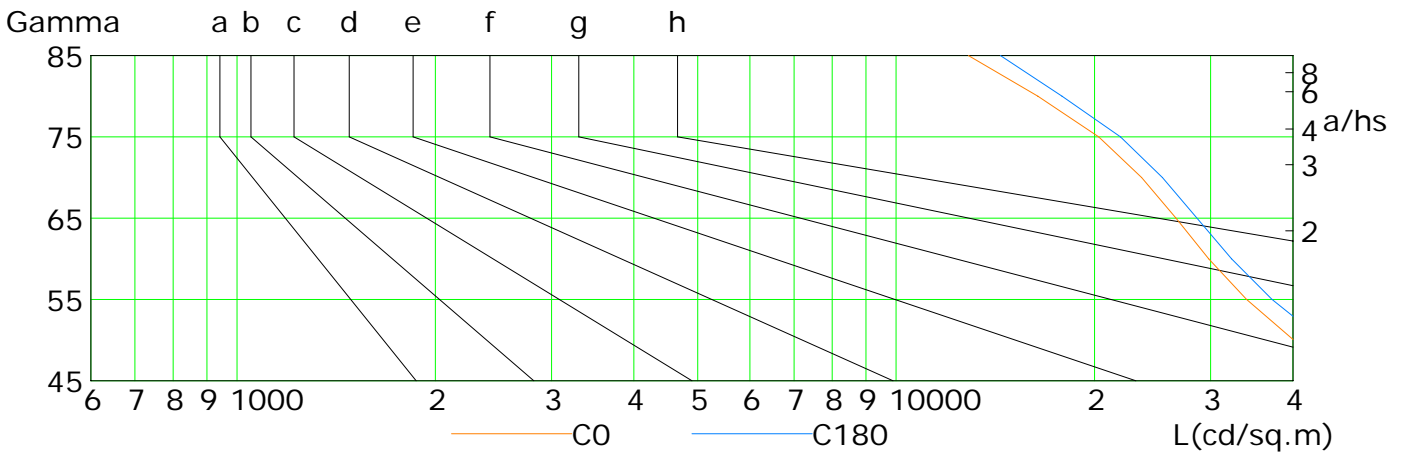
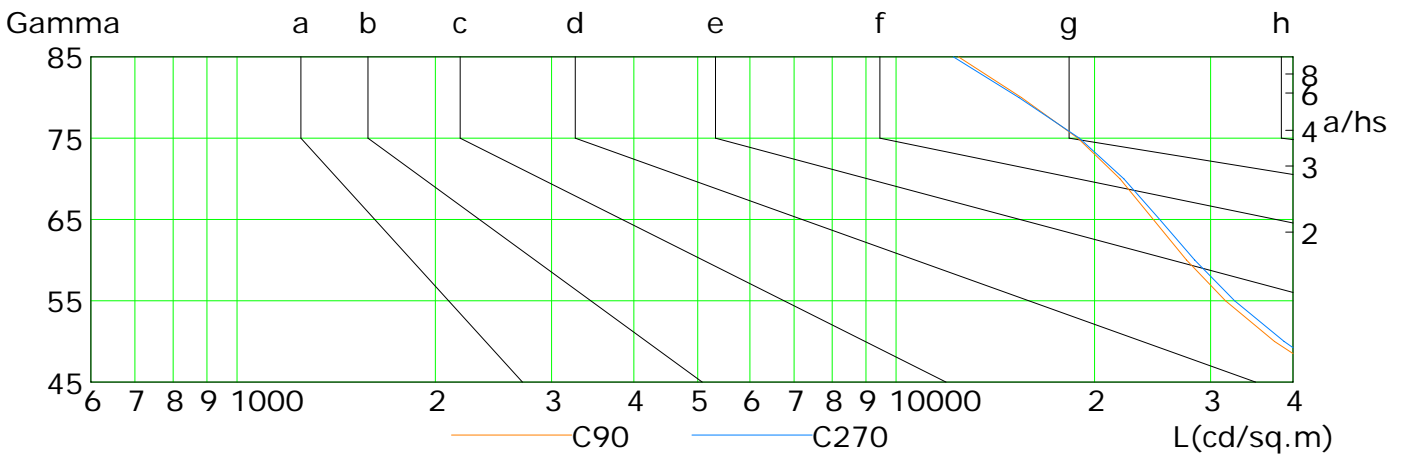
Humidity:

Inspector:

### 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	49791	40130	34025	29800	26584	23569	20292	16404	12872
C90	46641	37489	31604	27585	24558	21861	18871	15487	12432
C180	55016	44449	37190	32281	28609	25347	21896	17850	14397
C270	47754	38788	32626	28379	25111	22160	18966	15354	12212

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Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: 1

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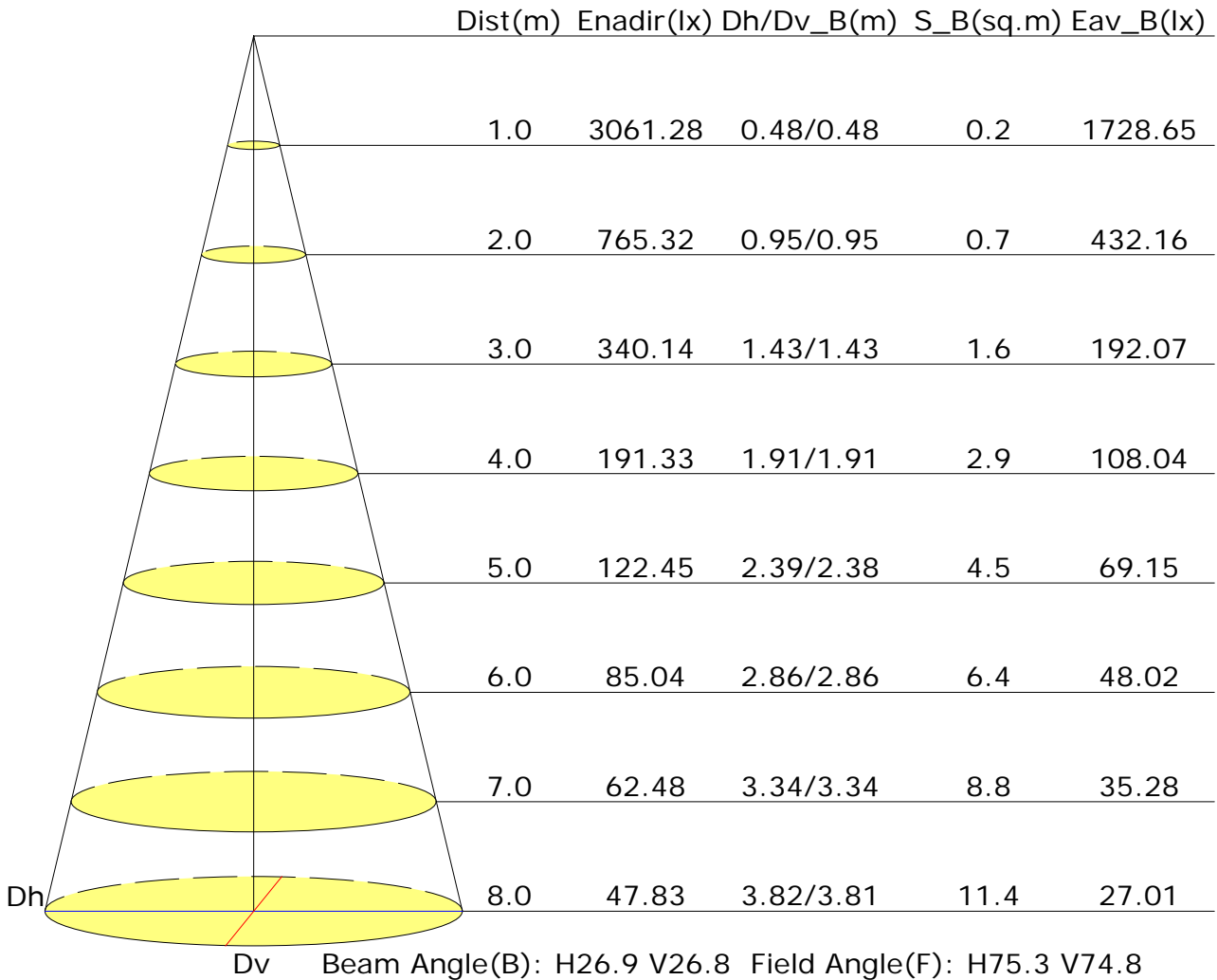
Test Device: GPM-1600L

Distance: 8.961 m

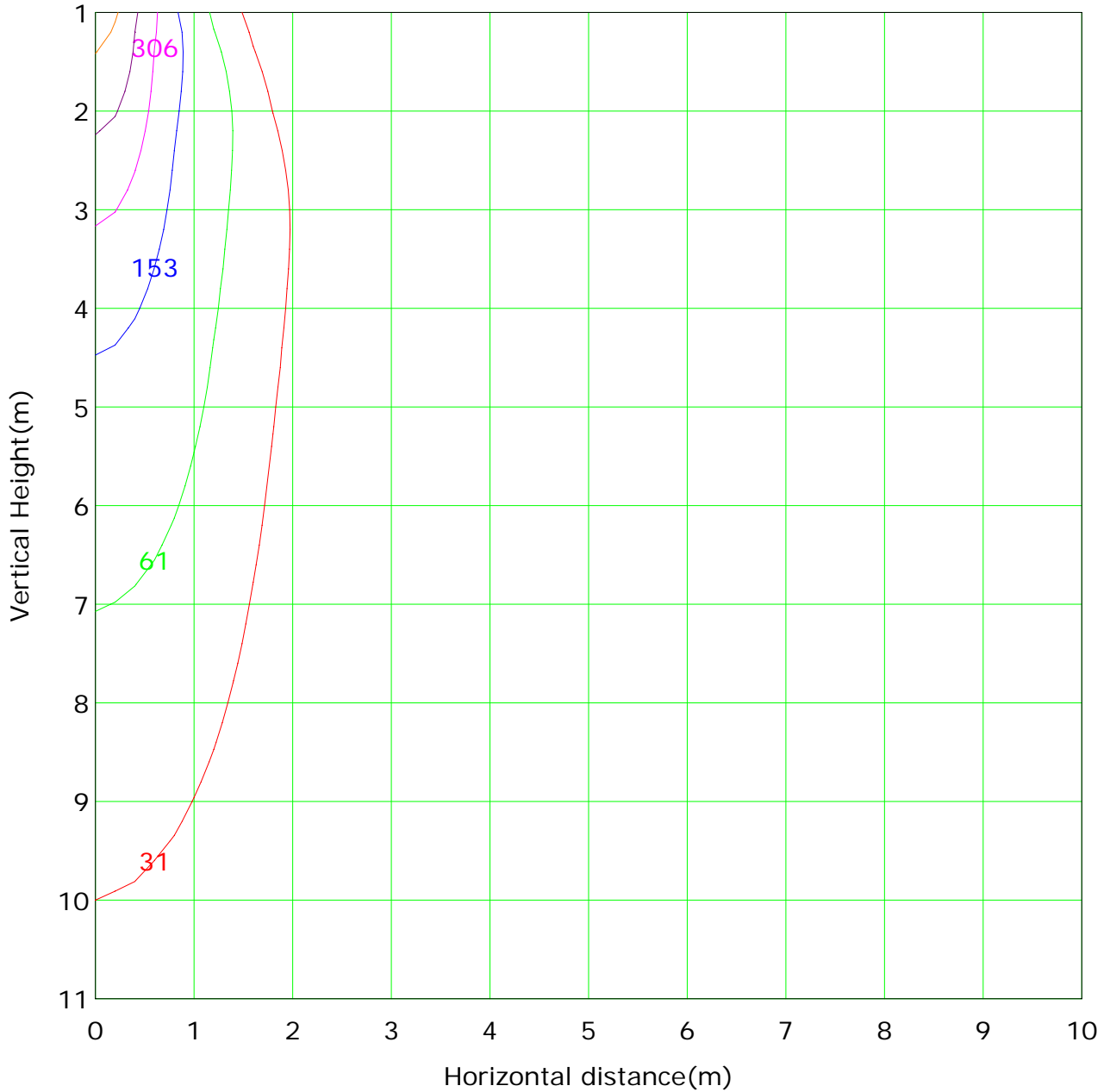
Humidity:

Inspector:

## Illuminance at a Distance



### Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 3061.3 lx  
— ( 1%): 30.6 lx                      — ( 2%): 61.2 lx  
— ( 5%): 153.1 lx                      — ( 10%): 306.1 lx  
— ( 20%): 612.3 lx                      — ( 50%): 1530.6 lx  
— (100%): 3061.3 lx

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Temperature: 25  
Operator: 1

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