

Report No.:

Test Time: 2023-08-11 10:40

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 110823-ARANDELA CIRCULO 8W

Lamp Catalog: LED DRIVER 200mA

Number of Lamps: 1

Luminous Width (mm): -20

Voltage: 220.9 V

Power: 10.61 W

Lamp Description: LED 1203

Luminous Length (mm): -55

Luminous Height (mm): 0

Current: 0.089 A

Power Factor: 0.540

## Photometric Results

CIE Class: Direct

Measurement Flux: 733.7 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 174.5, 28.7, 39.8, 39.7

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 144.8, 15.1, 19.1, 18.8

Luminaire Efficacy Rating (LER): 69.20

Max. Intensity: 1505.05 cd/klm

S/MH(C0/C180): 1.44

Total Rated Lamp Lumens: 733.7 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 1484.33 cd/klm

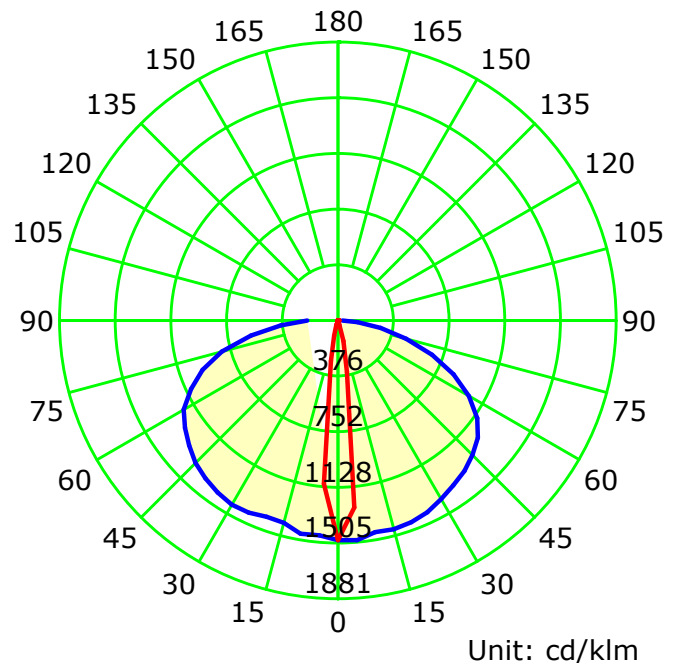
Pos of Max. Intensity: H345 V5

S/MH(C90/C270): 0.26

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 15.0

Test Lab: Alloy

Test Type: TYPE C

Temperature: 19°

Operator: FELIPE

Gamma Plane (°):0.0-90.0:5.0

Test Device: LSG-1700B

Distance: 6.549 m

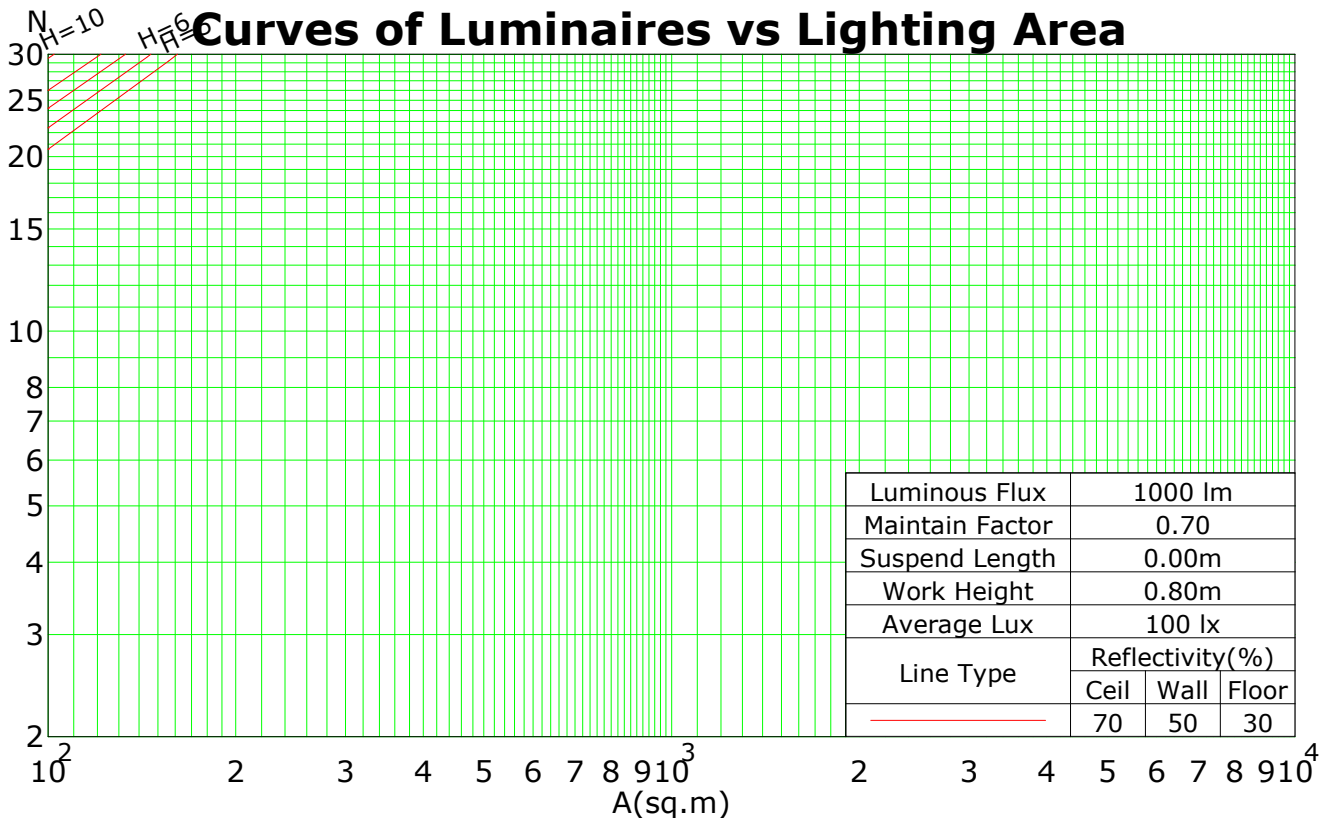
Humidity: 55%

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	58	50	45	69	57	50	45	56	49	44	55	48	44	53	48	44	42
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	60	48	41	36	59	47	41	36	47	40	36	46	40	36	45	39	36	34

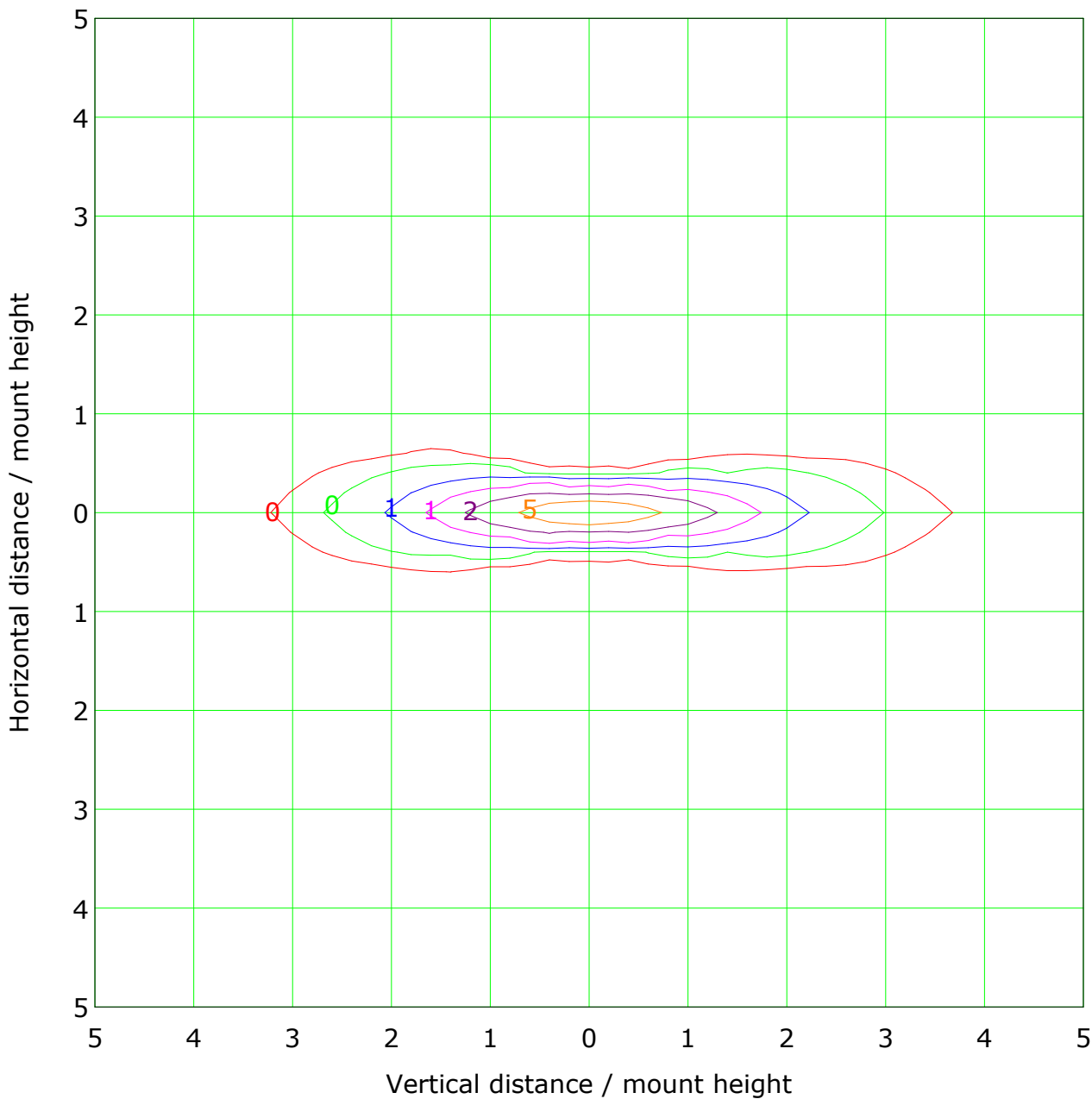
Spacing Criteria (0-180): 1.44  
 Spacing Criteria (90-270): 0.26  
 Spacing Criteria (Diagonal): 0.34



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 Test Lab: Alloy  
 Test Type: TYPE C  
 Temperature: 19°  
 Operator: FELIPE

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: LSG-1700B  
 Distance: 6.549 m  
 Humidity: 55%  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 10.9 lx	
— ( 1%):	0.1 lx	— ( 2%):	0.2 lx
— ( 5%):	0.5 lx	— ( 10%):	1.1 lx
— ( 20%):	2.2 lx	— ( 50%):	5.5 lx
— (100%):	10.9 lx		

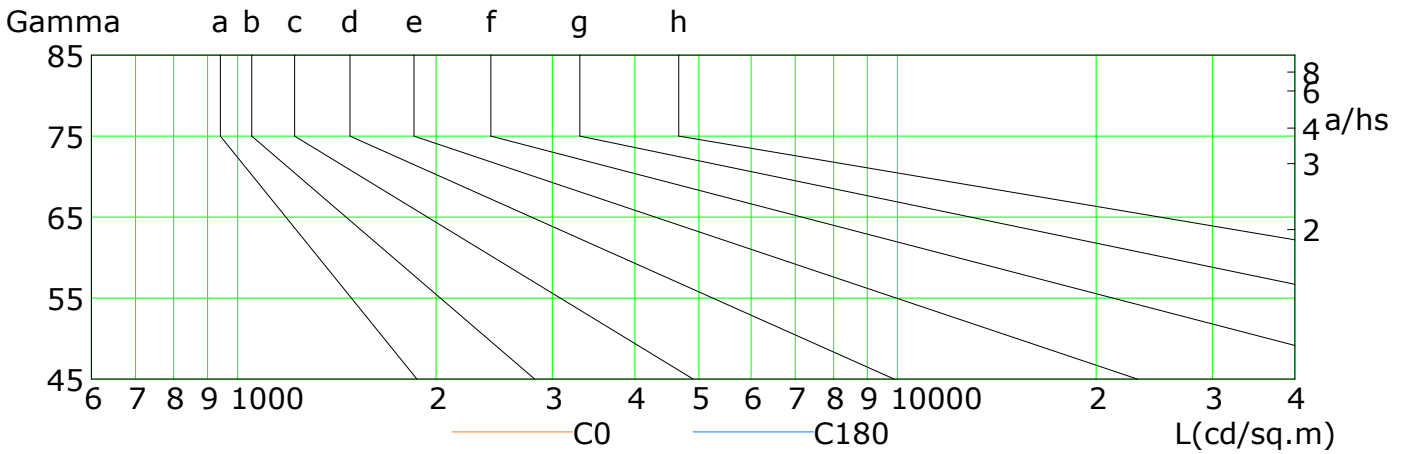
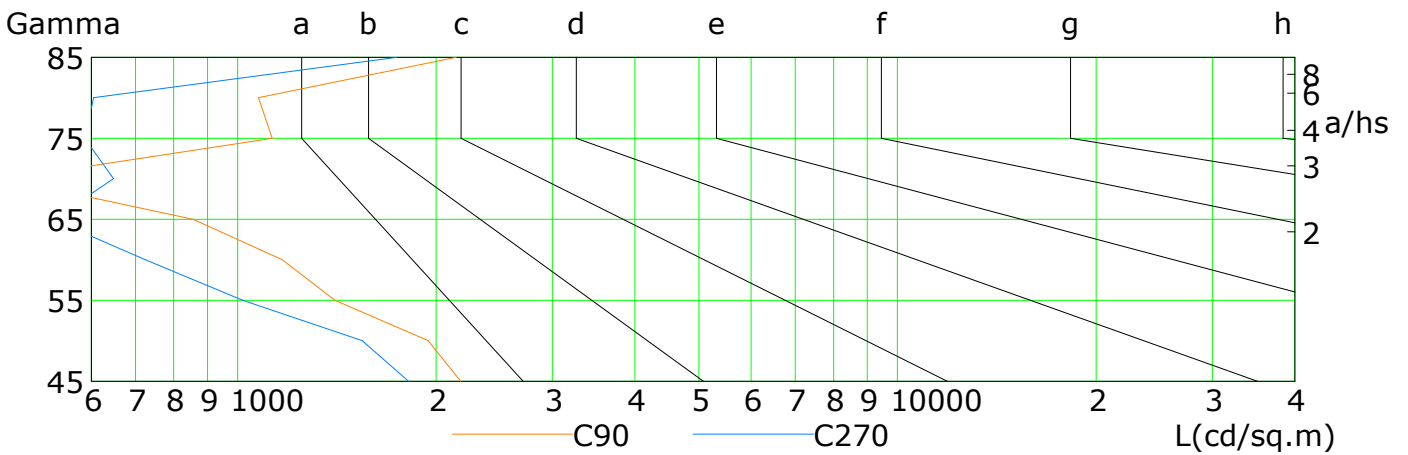
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Test Type: TYPE C  
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Inspector:

## 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

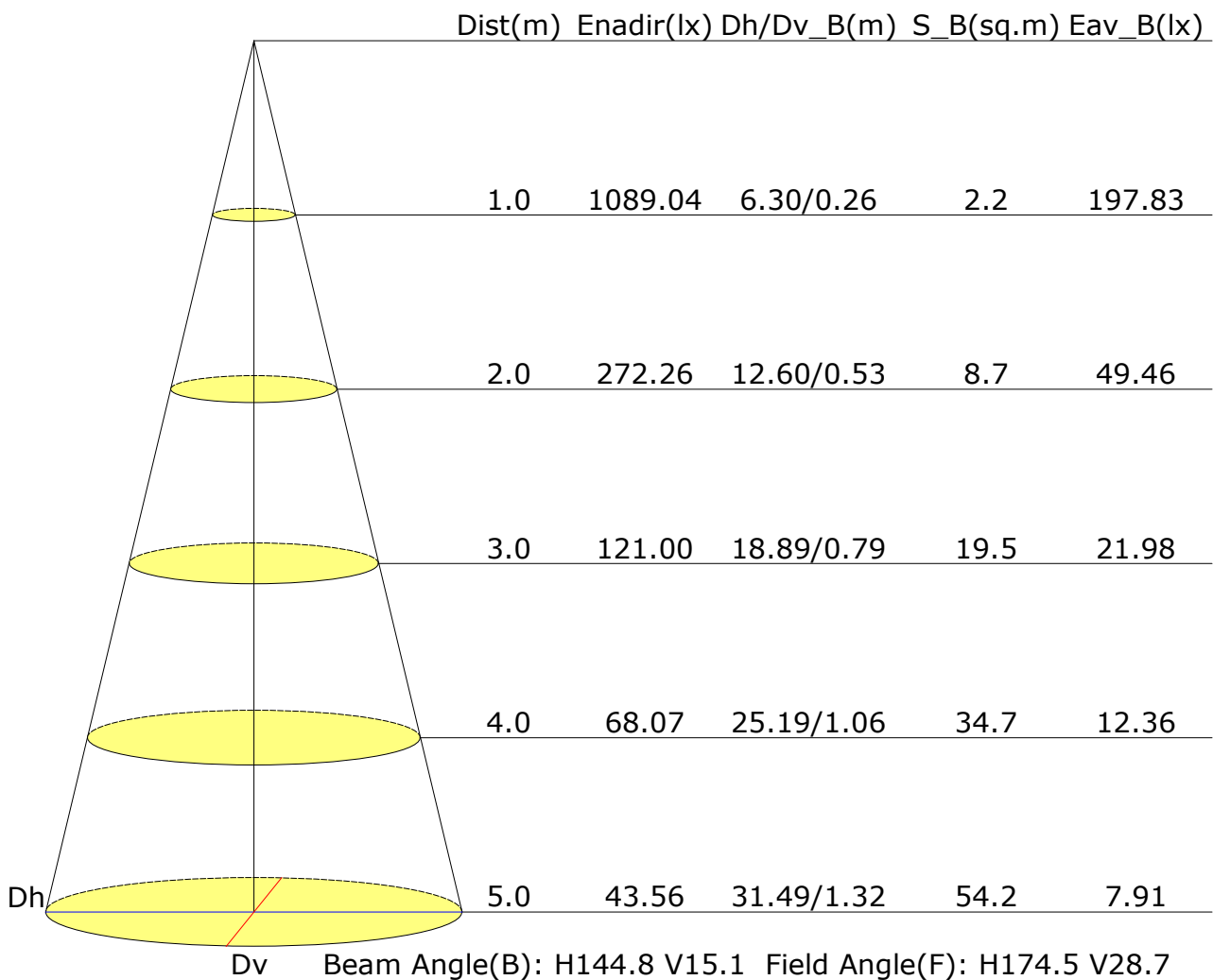


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	1545974	1631052	1703333	1738736	1730957	1682560	1567193	1438129	1292213
C90	2180	1944	1405	1168	856	444	1128	1076	2144
C180	1635106	1735873	1872181	2044267	2205354	2419080	2667131	2922852	3781550
C270	1816	1544	1018	724	525	649	586	605	1742

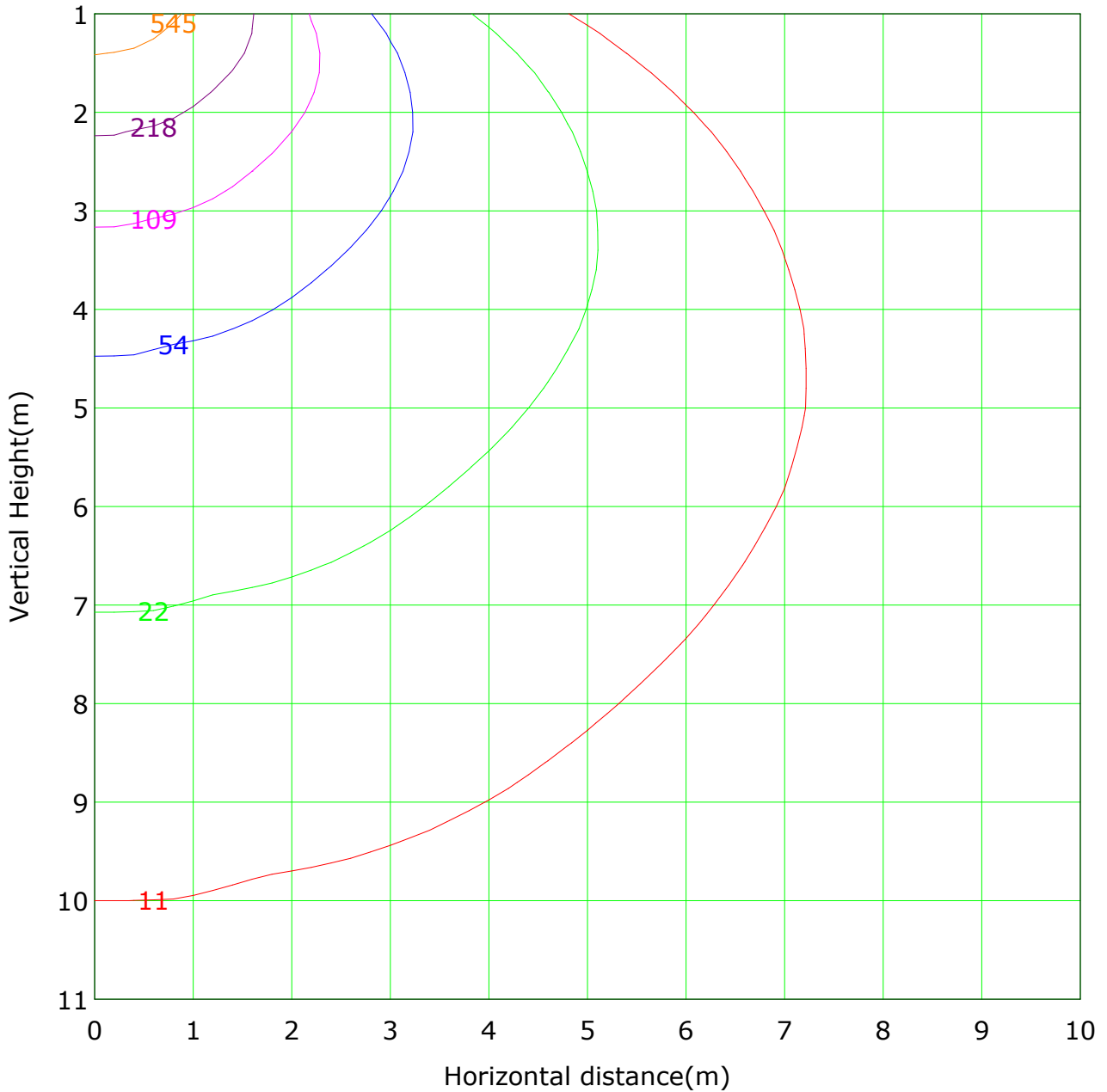
C Plane (°):0.0-360.0: 15.0  
 Test Lab: Alloy  
 Test Type: TYPE C  
 Temperature: 19°  
 Operator: FELIPE

Gamma Plane (°):0.0-90.0:5.0  
 Test Device: LSG-1700B  
 Distance: 6.549 m  
 Humidity: 55%  
 Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 1089.0 lx

— ( 1%): 10.9 lx	— ( 2%): 21.8 lx
— ( 5%): 54.5 lx	— ( 10%): 108.9 lx
— ( 20%): 217.8 lx	— ( 50%): 544.5 lx
— (100%):1089.0 lx	

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Temperature: 19°  
Operator: FELIPE

Gamma Plane (°):0.0-90.0:5.0  
Test Device: LSG-1700B  
Distance: 6.549 m  
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