

Report No.: MSL-65

Test Time: 2019-03-18 15:01

## Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Aplique Emergencia Stil Led 5W

Luminous Length (mm): 5

Luminous Width (mm): 5

Voltage: 0.0 V

Current: 0.000 A

Power: 0.00 W

Power Factor: 0.000

## Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 414.9 lm

Measurement Flux: 414.9 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 145.6, 144.8, 141.6, 141.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 132.9, 132.3, 132.0, 132.2

Luminaire Efficacy Rating (LER): 414.98

Central Intensity: 136.89 cd

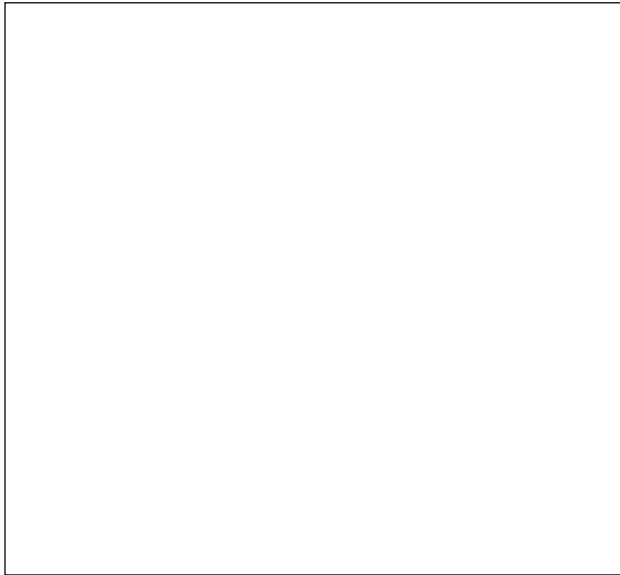
Max. Intensity: 137.23 cd

Pos of Max. Intensity: H0 V40

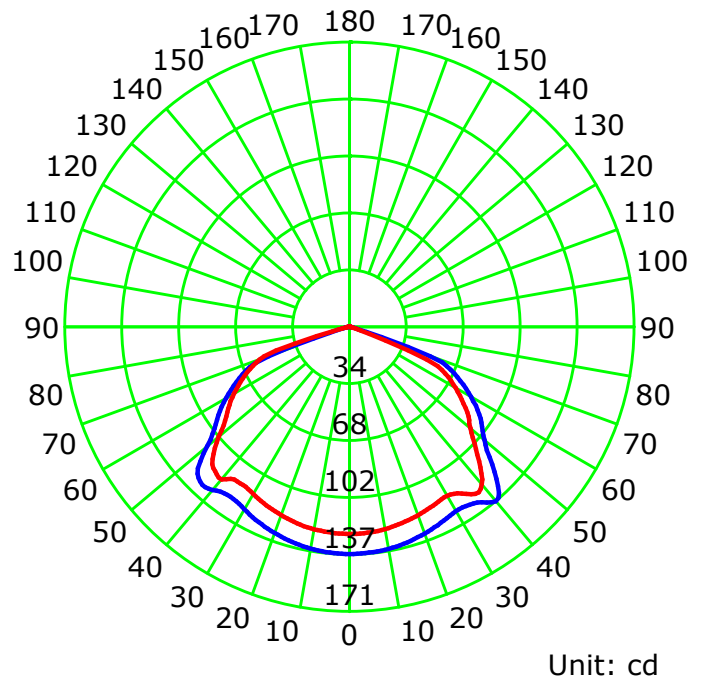
S/MH(C0/C180): 1.44

S/MH(C90/C270): 1.48

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 10.0

Test Lab: LABORATORIO STAND

Test Type: TYPE C

Temperature: 25.7

Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0

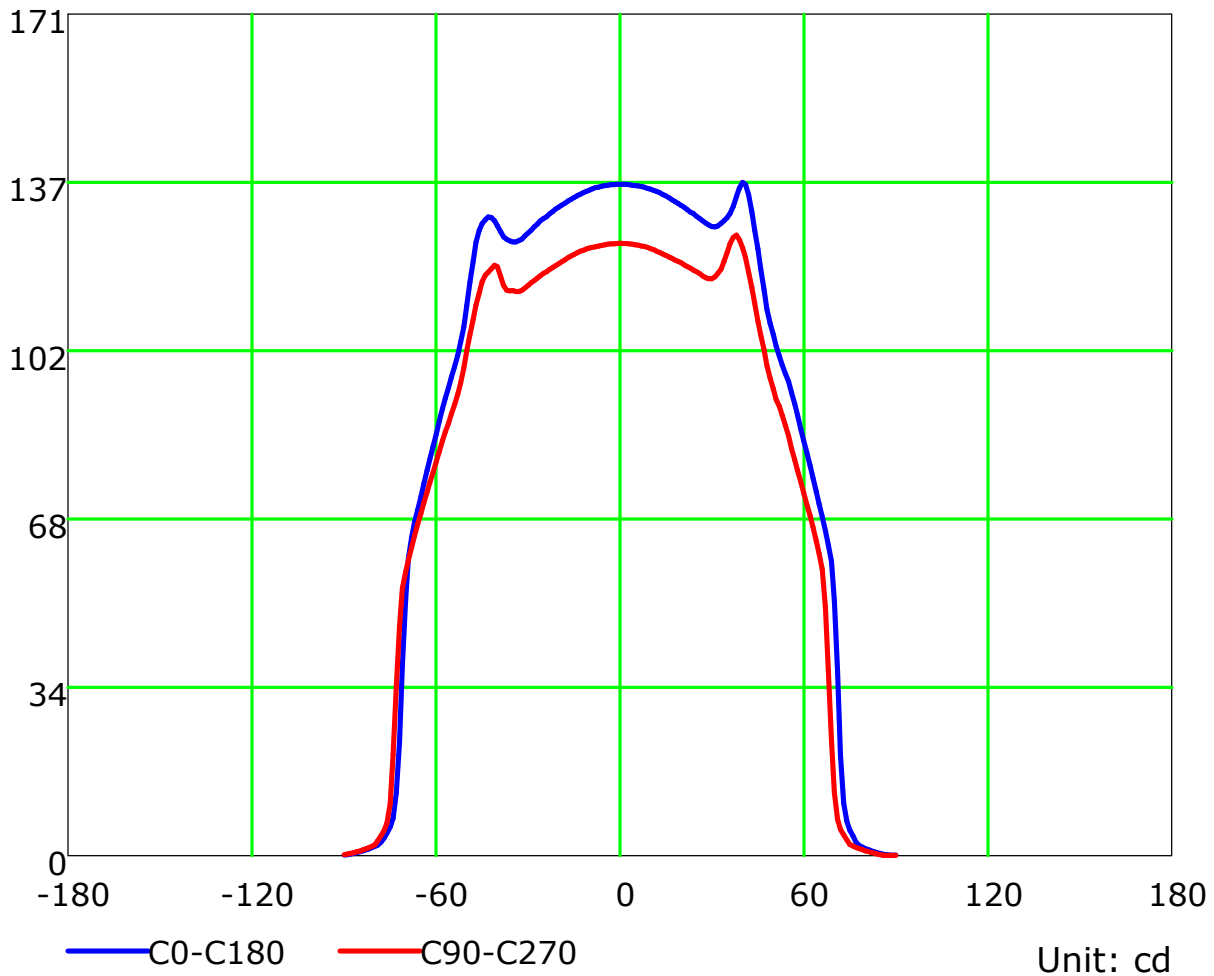
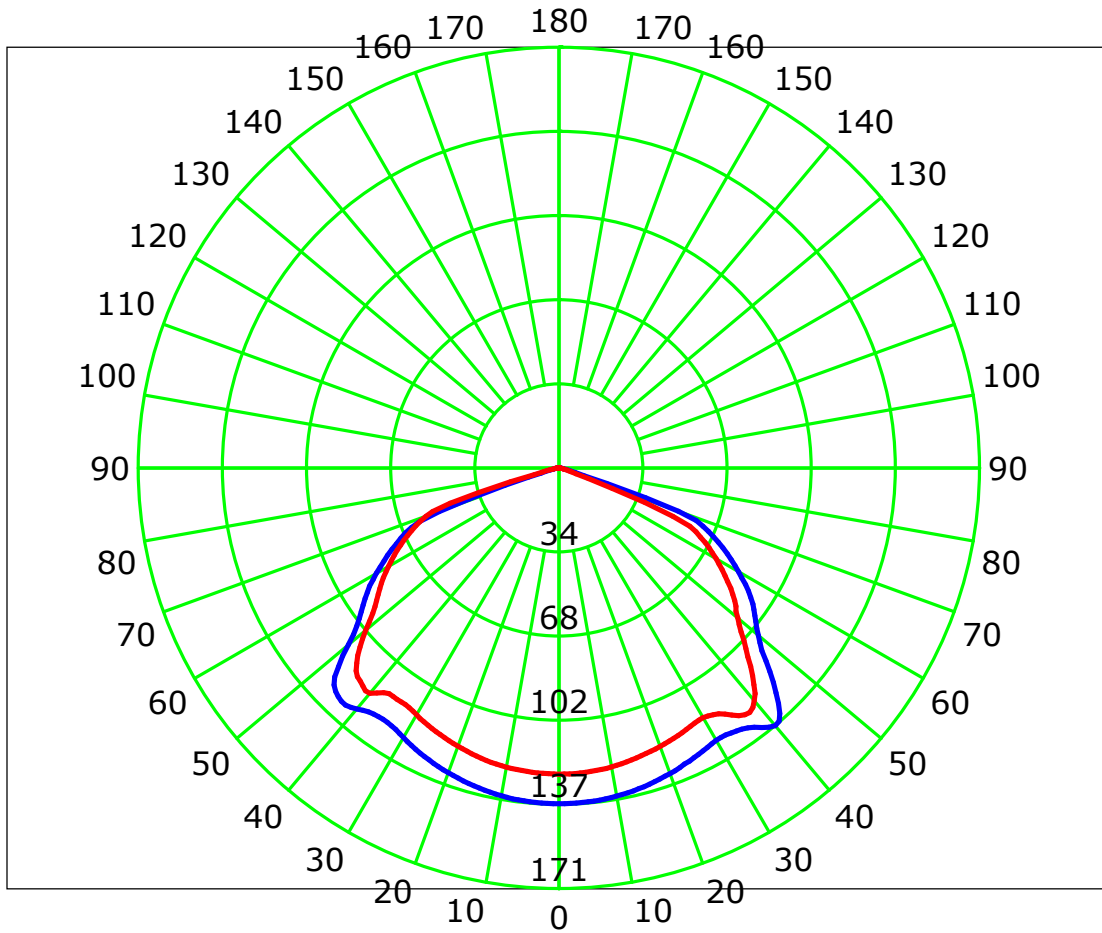
Test Device: LSG-1700B

Distance: 11.703 m

Humidity:

Inspector:

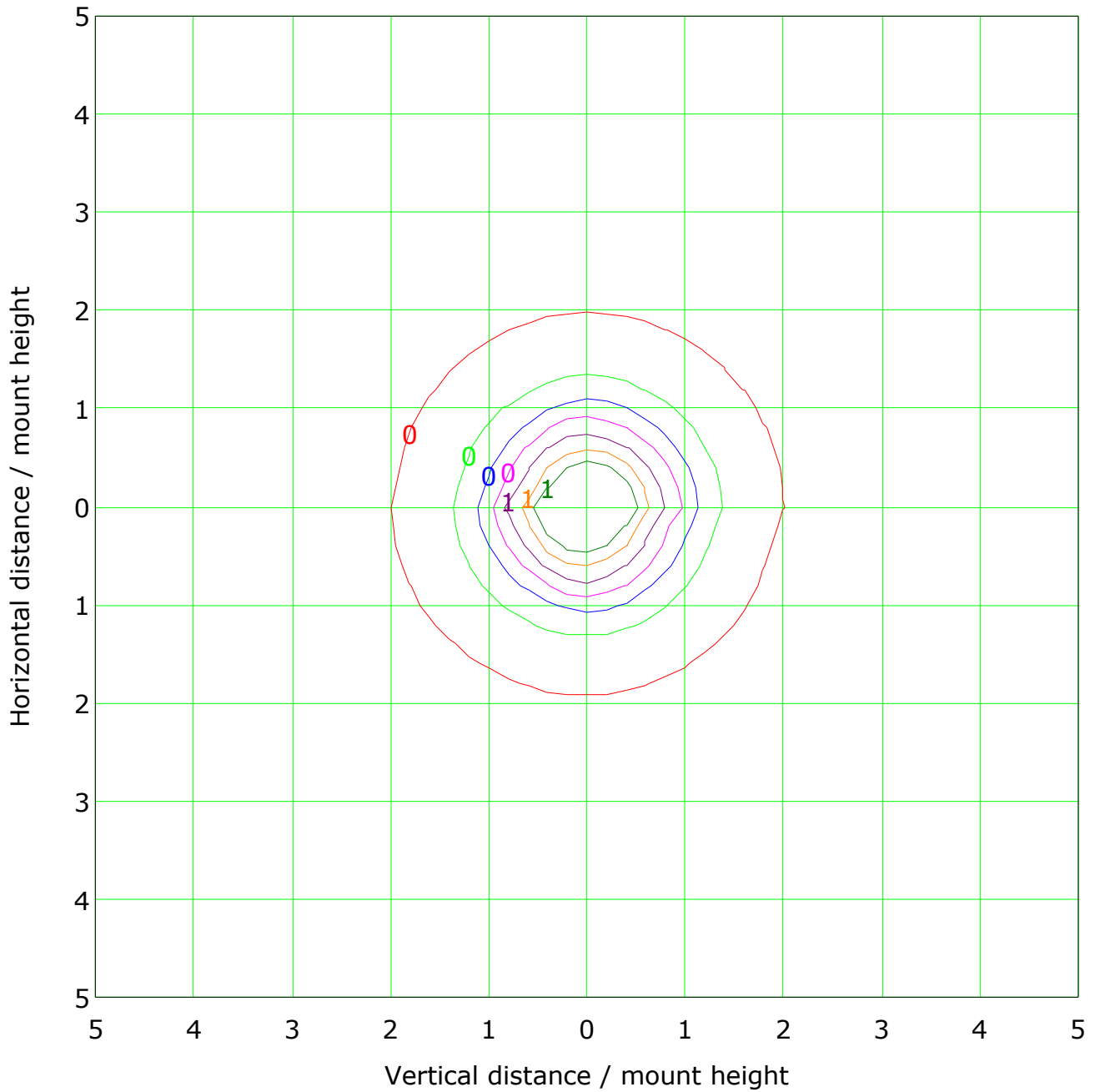
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0  
Test Lab: LABORATORIO STAND  
Test Type: TYPE C  
Temperature: 25.7  
Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0  
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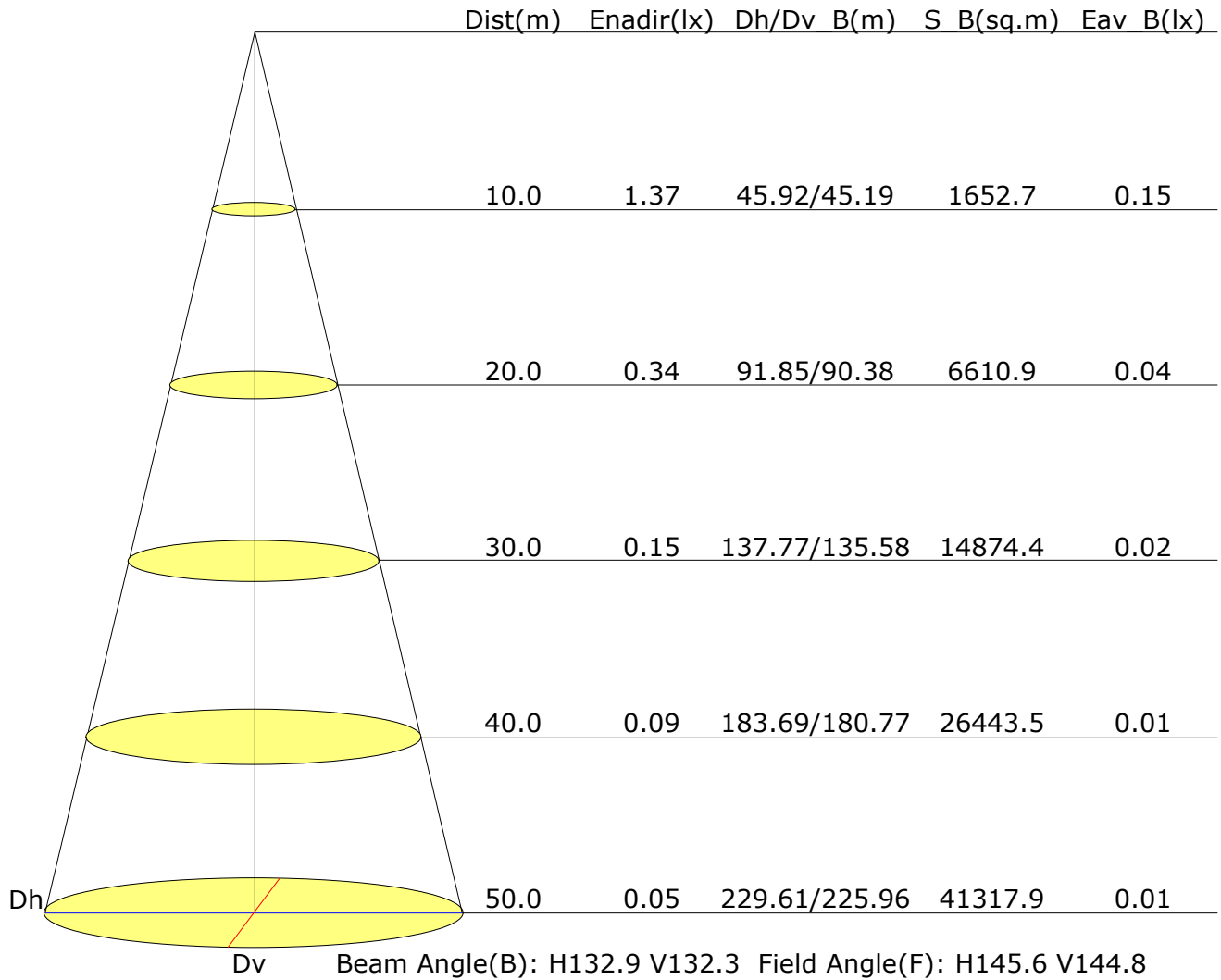
### IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 1.4 lx

— ( 5%): 0.1 lx	— ( 15%): 0.2 lx
— ( 25%): 0.3 lx	— ( 35%): 0.5 lx
— ( 45%): 0.6 lx	— ( 55%): 0.8 lx
— ( 65%): 0.9 lx	

## Illuminance at a Distance



## UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	43.8	45.1	44.1	45.4	45.6	43.6	44.9	43.9	45.2	45.4
3H	45.4	46.6	45.7	46.9	47.2	45.0	46.3	45.4	46.6	46.8
4H	45.4	46.5	45.7	46.8	47.1	45.1	46.3	45.5	46.6	46.9
6H	45.3	46.4	45.6	46.7	47.0	45.1	46.2	45.4	46.5	46.8
8H	45.2	46.3	45.6	46.6	46.9	45.0	46.1	45.4	46.4	46.7
12H	45.2	46.2	45.6	46.5	46.9	45.0	46.0	45.4	46.3	46.7
X=4H Y=2H	44.4	45.6	44.8	45.9	46.2	44.3	45.5	44.6	45.8	46.0
3H	46.0	47.0	46.3	47.3	47.6	45.7	46.8	46.1	47.1	47.4
4H	45.9	46.8	46.4	47.2	47.6	45.8	46.7	46.2	47.1	47.5
6H	45.9	46.7	46.3	47.0	47.5	45.8	46.6	46.2	46.9	47.3
8H	45.9	46.6	46.3	47.0	47.4	45.8	46.5	46.2	46.9	47.3
12H	45.8	46.5	46.3	46.9	47.3	45.7	46.4	46.2	46.8	47.2
X=8H Y=4H	45.9	46.6	46.3	47.0	47.4	45.8	46.5	46.2	46.9	47.3
6H	45.9	46.4	46.3	46.9	47.3	45.8	46.3	46.2	46.8	47.2
8H	45.8	46.3	46.3	46.8	47.3	45.7	46.2	46.2	46.7	47.2
12H	45.8	46.2	46.3	46.7	47.2	45.7	46.1	46.2	46.6	47.1
X=12H Y=4H	45.9	46.5	46.3	46.9	47.4	45.8	46.4	46.2	46.8	47.3
6H	45.8	46.3	46.3	46.8	47.3	45.7	46.2	46.2	46.7	47.2
8H	45.8	46.2	46.3	46.7	47.2	45.7	46.1	46.2	46.6	47.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.6/-0.7					+0.5/-0.5				
S=2.0H	+0.9/-1.8					+0.7/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 415lm ( $8\log(F/F_0) = -3.1$ ).

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	126.6	0.1	0.1	0.03	0.03
1.0-2.0	126.5	0.4	0.5	0.09	0.12
2.0-3.0	126.5	0.6	1.1	0.15	0.26
3.0-4.0	126.4	0.8	1.9	0.20	0.47
4.0-5.0	126.4	1.1	3.0	0.26	0.73
5.0-6.0	126.3	1.3	4.4	0.32	1.05
6.0-7.0	126.2	1.6	5.9	0.38	1.43
7.0-8.0	126.0	1.8	7.7	0.43	1.86
8.0-9.0	125.9	2.0	9.8	0.49	2.35
9.0-10.0	125.7	2.3	12.0	0.55	2.90
10.0-11.0	125.4	2.5	14.5	0.60	3.50
11.0-12.0	125.2	2.7	17.3	0.66	4.16
12.0-13.0	124.9	3.0	20.2	0.71	4.88
13.0-14.0	124.7	3.2	23.4	0.77	5.65
14.0-15.0	124.3	3.4	26.8	0.82	6.47
15.0-16.0	124.0	3.6	30.5	0.88	7.35
16.0-17.0	123.7	3.9	34.3	0.93	8.27
17.0-18.0	123.3	4.1	38.4	0.98	9.26
18.0-19.0	122.9	4.3	42.7	1.03	10.29
19.0-20.0	122.5	4.5	47.2	1.08	11.37
20.0-21.0	122.1	4.7	51.9	1.13	12.50
21.0-22.0	121.7	4.9	56.7	1.18	13.68
22.0-23.0	121.3	5.1	61.8	1.23	14.90
23.0-24.0	120.8	5.3	67.1	1.27	16.18
24.0-25.0	120.3	5.5	72.6	1.32	17.49
25.0-26.0	119.8	5.7	78.2	1.36	18.86
26.0-27.0	119.4	5.8	84.1	1.41	20.27
27.0-28.0	118.9	6.0	90.1	1.45	21.72
28.0-29.0	118.4	6.2	96.3	1.49	23.21
29.0-30.0	118.1	6.4	102.7	1.54	24.75
30.0-31.0	117.9	6.6	109.2	1.58	26.33
31.0-32.0	117.7	6.7	116.0	1.63	27.95
32.0-33.0	117.7	6.9	122.9	1.67	29.63
33.0-34.0	117.8	7.1	130.1	1.72	31.34
34.0-35.0	117.9	7.3	137.4	1.77	33.11
35.0-36.0	118.2	7.5	144.9	1.81	34.92

C Plane (°):0.0-360.0: 10.0  
Test Lab: LABORATORIO STAND  
Test Type: TYPE C  
Temperature: 25.7  
Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0  
Test Device: LSG-1700B  
Distance: 11.703 m  
Humidity:  
Inspector:

## Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	118.4	7.7	152.6	1.86	36.78
37.0-38.0	118.7	7.9	160.5	1.91	38.69
38.0-39.0	118.9	8.1	168.7	1.96	40.65
39.0-40.0	118.9	8.3	177.0	2.00	42.65
40.0-41.0	118.5	8.4	185.4	2.03	44.68
41.0-42.0	117.8	8.6	193.9	2.06	46.74
42.0-43.0	116.5	8.6	202.6	2.08	48.82
43.0-44.0	114.8	8.7	211.2	2.09	50.91
44.0-45.0	112.8	8.7	219.9	2.09	53.00
45.0-46.0	110.5	8.6	228.6	2.08	55.08
46.0-47.0	108.0	8.6	237.1	2.07	57.15
47.0-48.0	105.3	8.5	245.7	2.05	59.21
48.0-49.0	102.6	8.4	254.1	2.03	61.24
49.0-50.0	100.2	8.4	262.4	2.01	63.25
50.0-51.0	97.9	8.3	270.7	2.00	65.25
51.0-52.0	95.8	8.2	278.9	1.98	67.23
52.0-53.0	93.9	8.2	287.1	1.97	69.20
53.0-54.0	92.0	8.1	295.2	1.96	71.15
54.0-55.0	90.2	8.1	303.3	1.94	73.09
55.0-56.0	88.3	8.0	311.3	1.92	75.02
56.0-57.0	86.3	7.9	319.2	1.90	76.92
57.0-58.0	84.3	7.8	327.0	1.88	78.80
58.0-59.0	82.2	7.7	334.6	1.85	80.65
59.0-60.0	79.9	7.5	342.2	1.82	82.47
60.0-61.0	77.6	7.4	349.6	1.79	84.26
61.0-62.0	75.3	7.3	356.9	1.75	86.01
62.0-63.0	73.0	7.1	364.0	1.71	87.72
63.0-64.0	70.6	6.9	370.9	1.67	89.39
64.0-65.0	67.8	6.7	377.6	1.62	91.01
65.0-66.0	64.5	6.4	384.0	1.55	92.56
66.0-67.0	59.8	6.0	390.1	1.45	94.01
67.0-68.0	53.6	5.4	395.5	1.31	95.32
68.0-69.0	46.2	4.7	400.2	1.14	96.45
69.0-70.0	38.2	3.9	404.1	0.95	97.40
70.0-71.0	30.3	3.1	407.3	0.76	98.15
71.0-72.0	22.2	2.3	409.6	0.56	98.71

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Test Lab: LABORATORIO STAND  
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Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0  
Test Device: LSG-1700B  
Distance: 11.703 m  
Humidity:  
Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	14.5	1.5	411.1	0.37	99.08
73.0-74.0	9.0	0.9	412.0	0.23	99.31
74.0-75.0	5.8	0.6	412.7	0.15	99.45
75.0-76.0	4.3	0.5	413.1	0.11	99.56
76.0-77.0	3.3	0.4	413.5	0.09	99.65
77.0-78.0	2.6	0.3	413.8	0.07	99.72
78.0-79.0	2.1	0.2	414.0	0.06	99.77
79.0-80.0	1.8	0.2	414.2	0.05	99.82
80.0-81.0	1.5	0.2	414.3	0.04	99.86
81.0-82.0	1.3	0.1	414.5	0.03	99.89
82.0-83.0	1.0	0.1	414.6	0.03	99.92
83.0-84.0	0.9	0.1	414.7	0.02	99.94
84.0-85.0	0.7	0.1	414.8	0.02	99.96
85.0-86.0	0.5	0.1	414.8	0.01	99.97
86.0-87.0	0.4	0.0	414.9	0.01	99.98
87.0-88.0	0.3	0.0	414.9	0.01	99.99
88.0-89.0	0.2	0.0	414.9	0.01	100.00
89.0-90.0	0.2	0.0	414.9	0.00	100.00

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