

Report No.: MSL-76

Test Time: 2019-03-27 12:26

Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Aplique Stil Led De Muro UP-DOWN IP65 20W OSRAM

Luminous Length (mm): 88 Diametro

Luminous Width (mm): 88 Diametro

Luminous Height (mm): 0

Voltage: 120.1 V

Current: 0.171 A

Power: 20.23 W

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 948.0 lm

Measurement Flux: 948 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 18.1, 17.5, 17.9, 17.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 9.5, 9.3, 9.5, 9.3

Luminaire Efficacy Rating (LER): 46.91

Central Intensity: 11209.82 cd

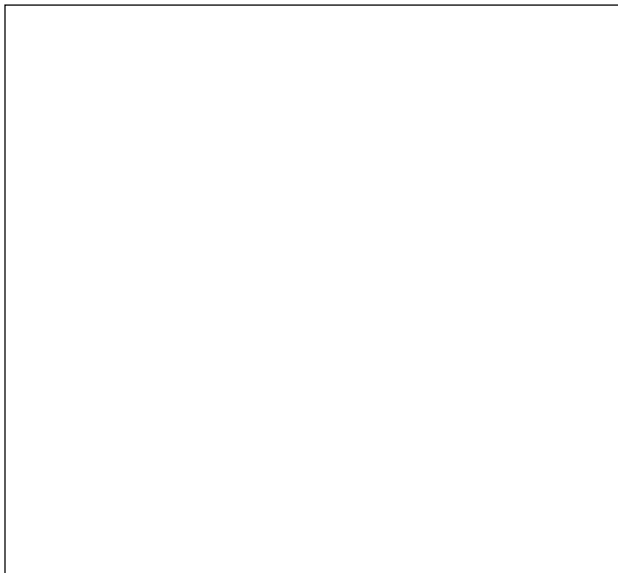
Max. Intensity: 11380.43 cd

Pos of Max. Intensity: H150 V0

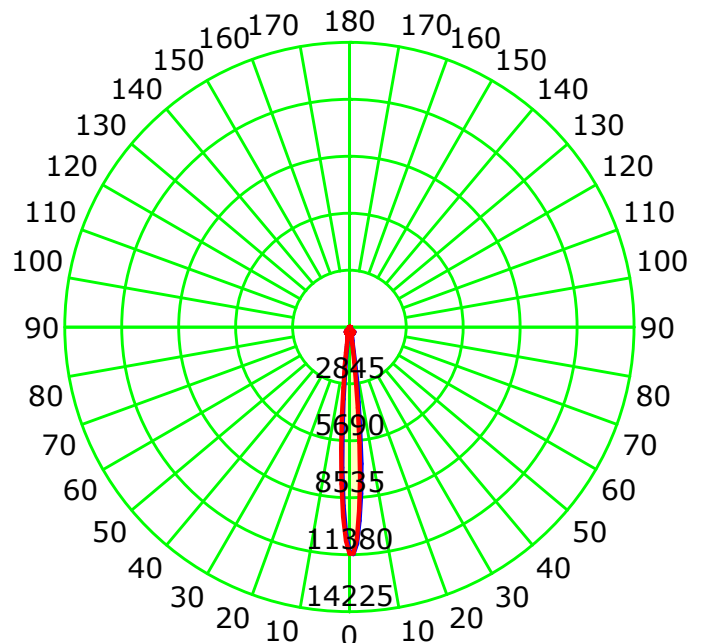
S/MH(C0/C180): 0.17

S/MH(C90/C270): 0.16

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 10.0

Gamma Plane (°):0.0-90.0:1.0

Test Lab: LABORATORIO STAND

Test Device: LSG-1700B

Test Type: TYPE C

Distance: 11.700 m — C90-C270

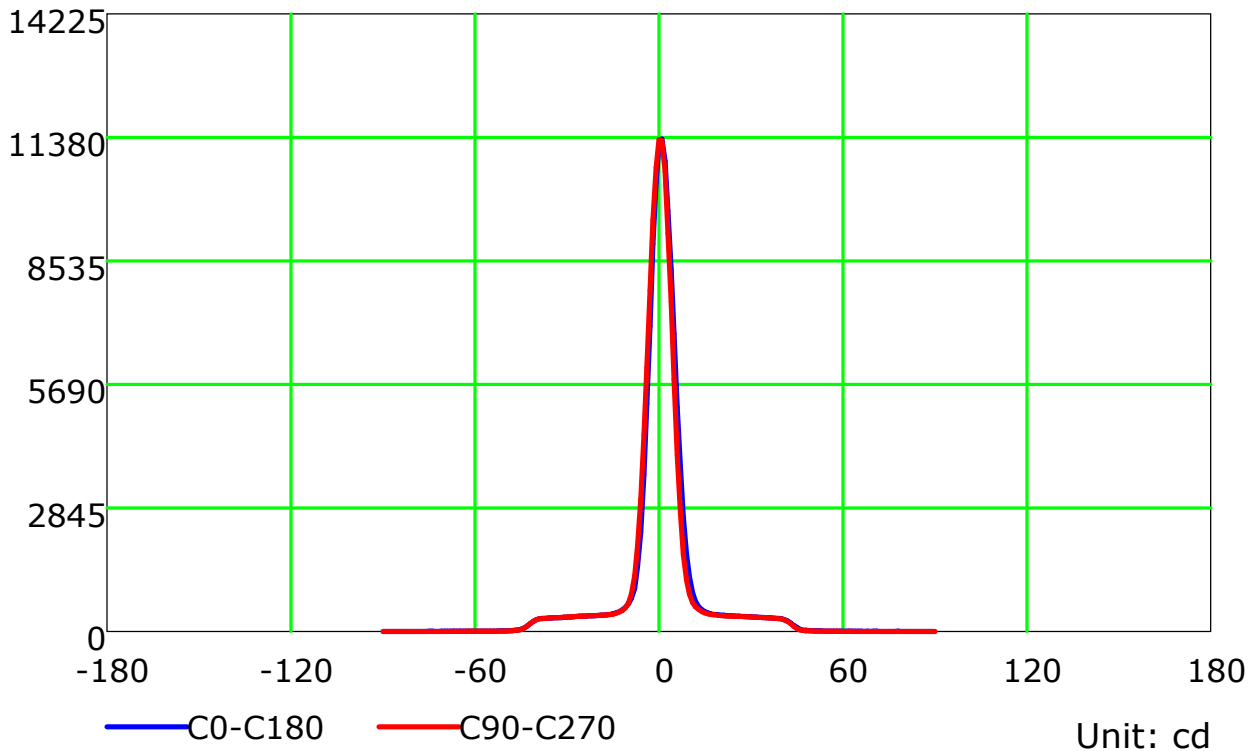
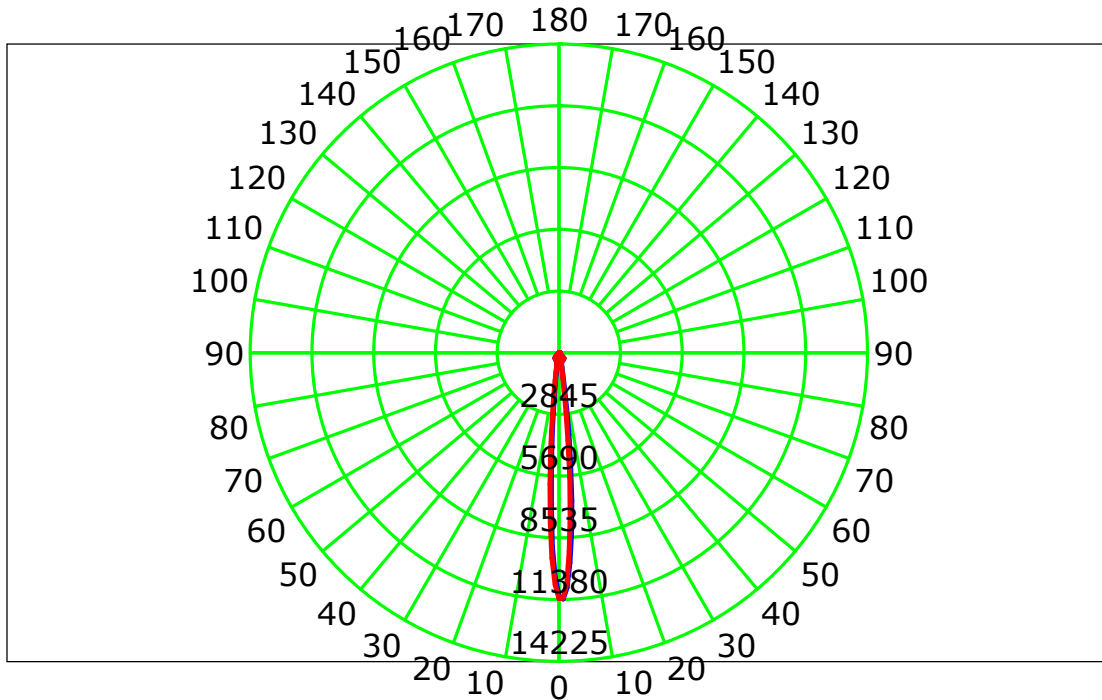
Temperature: 25.3

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

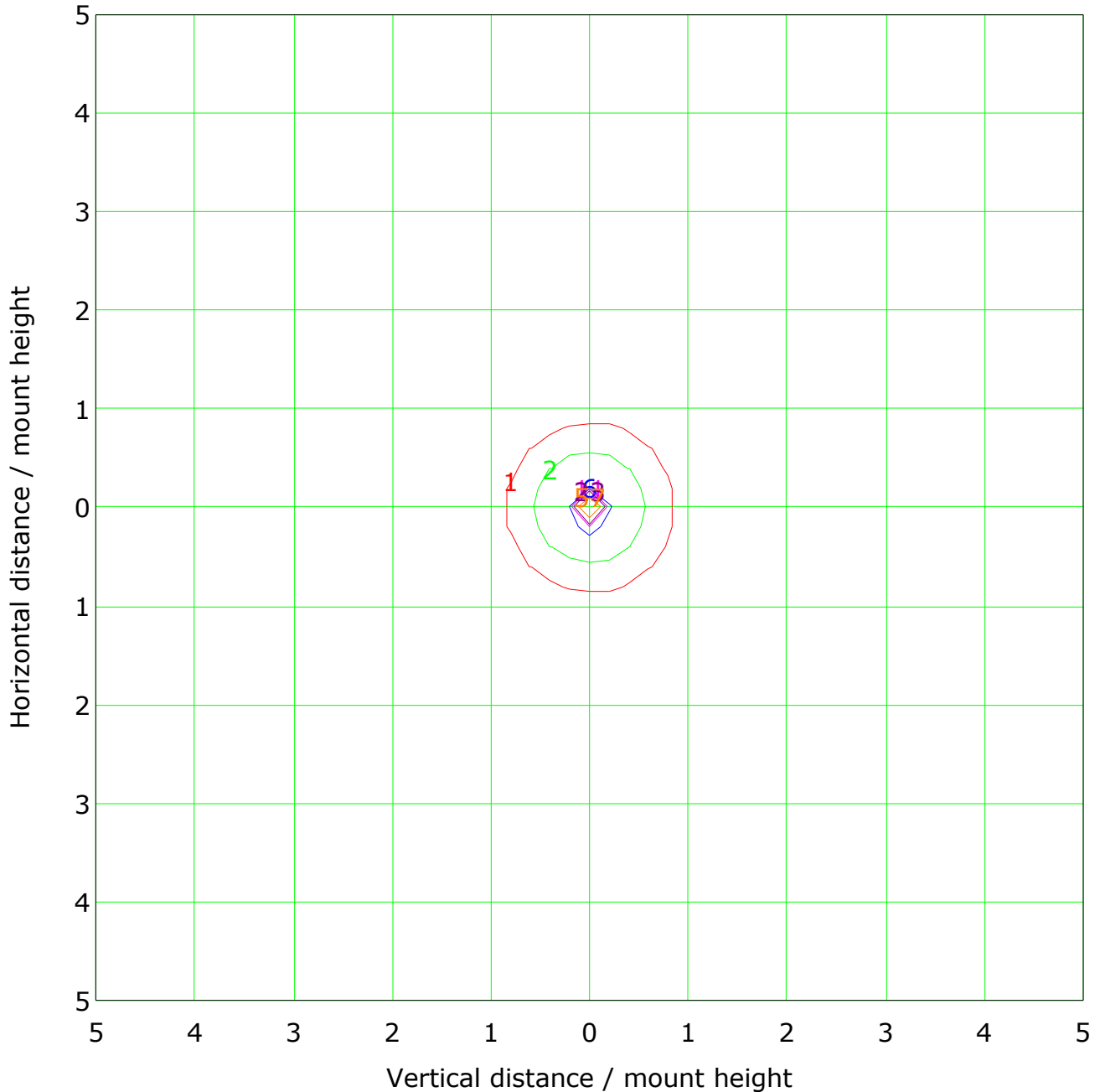
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25.3
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.700 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 113.8 lx

— (1%): 1.1 lx

— (2%): 2.3 lx

— (5%): 5.7 lx

— (100%): 113.8 lx

C Plane (°):0.0-360.0: 10.0, \, 22.8 lx

Gamma Plane (°):0.0-90.0:1.0

Test Lab: LABORATORIO STAND

Test Device: LSG-1700B' lx

Test Type: TYPE C (100%): 113.8 lx

Distance: 11.700 m

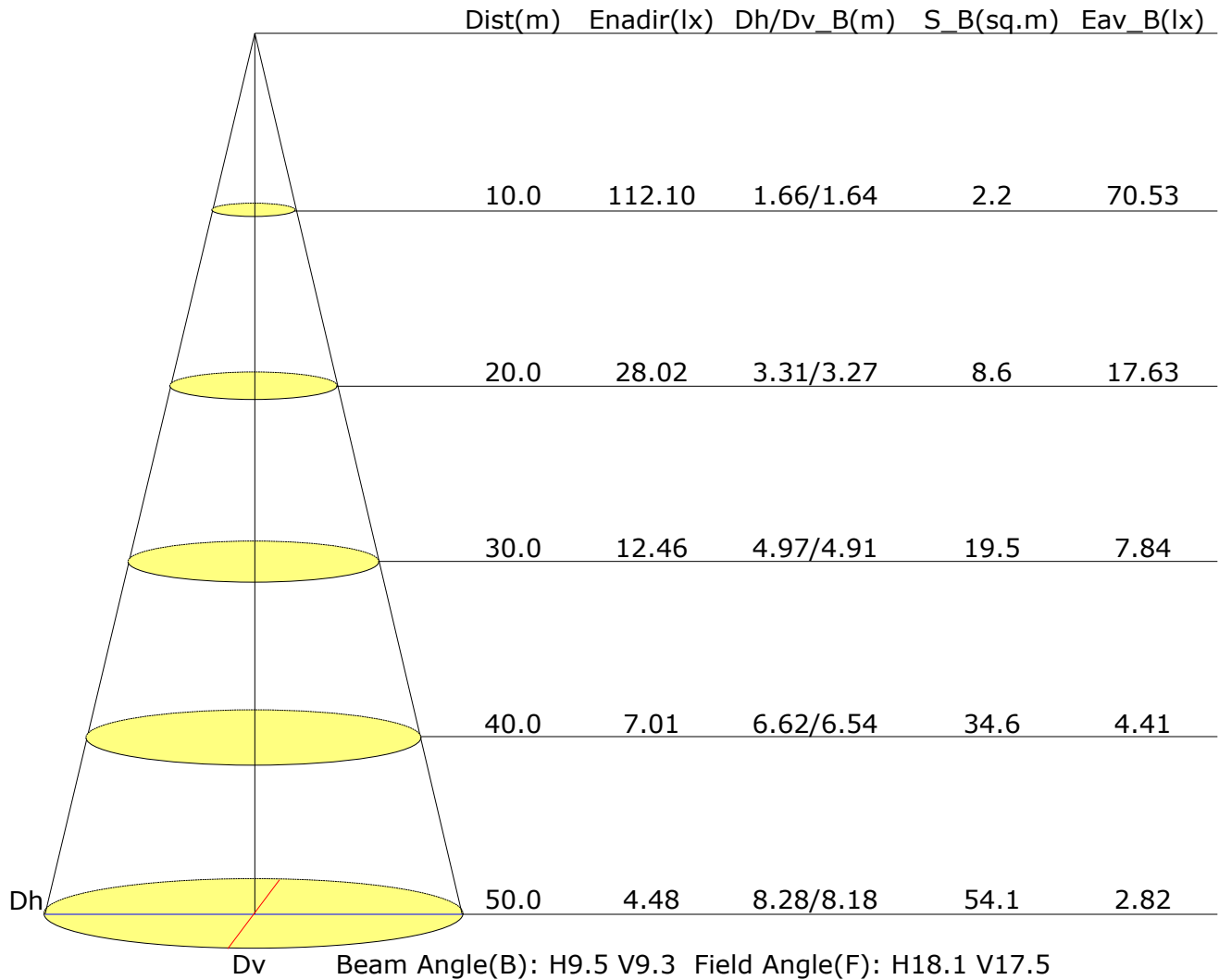
Temperature: 25.3

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

Illuminance at a Distance



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	11131.3	10.7	10.7	1.12	1.12
1.0-2.0	10489.8	30.1	40.8	3.18	4.30
2.0-3.0	9257.0	44.3	85.0	4.67	8.97
3.0-4.0	7667.6	51.3	136.4	5.42	14.39
4.0-5.0	6016.6	51.8	188.1	5.46	19.85
5.0-6.0	4396.0	46.2	234.3	4.87	24.72
6.0-7.0	3030.1	37.6	272.0	3.97	28.69
7.0-8.0	2043.3	29.2	301.2	3.09	31.77
8.0-9.0	1372.5	22.2	323.5	2.35	34.12
9.0-10.0	974.4	17.6	341.1	1.86	35.98
10.0-11.0	740.2	14.8	355.9	1.56	37.54
11.0-12.0	602.8	13.2	369.1	1.39	38.93
12.0-13.0	526.2	12.5	381.6	1.32	40.25
13.0-14.0	475.7	12.2	393.7	1.28	41.54
14.0-15.0	441.4	12.1	405.9	1.28	42.81
15.0-16.0	418.0	12.2	418.1	1.29	44.11
16.0-17.0	401.5	12.5	430.6	1.32	45.42
17.0-18.0	390.8	12.9	443.5	1.36	46.78
18.0-19.0	383.0	13.3	456.8	1.41	48.19
19.0-20.0	377.0	13.8	470.6	1.46	49.65
20.0-21.0	372.3	14.3	484.9	1.51	51.15
21.0-22.0	368.0	14.8	499.7	1.56	52.71
22.0-23.0	364.1	15.3	515.0	1.61	54.33
23.0-24.0	360.5	15.8	530.8	1.66	55.99
24.0-25.0	357.2	16.2	547.0	1.71	57.70
25.0-26.0	354.3	16.7	563.7	1.76	59.47
26.0-27.0	351.1	17.2	580.9	1.81	61.28
27.0-28.0	348.0	17.6	598.5	1.86	63.14
28.0-29.0	344.9	18.0	616.6	1.90	65.04
29.0-30.0	341.4	18.4	635.0	1.94	66.99
30.0-31.0	337.8	18.8	653.8	1.98	68.97
31.0-32.0	333.7	19.1	672.9	2.02	70.99
32.0-33.0	329.6	19.4	692.4	2.05	73.04
33.0-34.0	326.0	19.7	712.1	2.08	75.12
34.0-35.0	322.1	20.0	732.1	2.11	77.23
35.0-36.0	317.9	20.2	752.3	2.14	79.36

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25.3
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.700 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	313.3	20.4	772.8	2.16	81.52
37.0-38.0	308.0	20.6	793.3	2.17	83.69
38.0-39.0	302.7	20.7	814.0	2.18	85.87
39.0-40.0	293.5	20.5	834.5	2.16	88.03
40.0-41.0	271.6	19.3	853.8	2.04	90.07
41.0-42.0	234.8	17.1	870.9	1.80	91.87
42.0-43.0	187.0	13.9	884.7	1.46	93.33
43.0-44.0	136.8	10.3	895.0	1.09	94.42
44.0-45.0	91.5	7.0	902.1	0.74	95.16
45.0-46.0	56.5	4.4	906.5	0.47	95.63
46.0-47.0	37.5	3.0	909.5	0.31	95.94
47.0-48.0	29.1	2.4	911.8	0.25	96.19
48.0-49.0	23.9	2.0	913.8	0.21	96.40
49.0-50.0	20.0	1.7	915.4	0.18	96.57
50.0-51.0	17.4	1.5	916.9	0.16	96.73
51.0-52.0	15.7	1.3	918.3	0.14	96.87
52.0-53.0	14.5	1.3	919.5	0.13	97.00
53.0-54.0	13.5	1.2	920.7	0.13	97.13
54.0-55.0	12.6	1.1	921.8	0.12	97.25
55.0-56.0	11.8	1.1	922.9	0.11	97.36
56.0-57.0	11.3	1.0	923.9	0.11	97.47
57.0-58.0	10.8	1.0	924.9	0.11	97.57
58.0-59.0	10.5	1.0	925.9	0.10	97.68
59.0-60.0	10.0	0.9	926.9	0.10	97.78
60.0-61.0	9.6	0.9	927.8	0.10	97.87
61.0-62.0	9.5	0.9	928.7	0.10	97.97
62.0-63.0	9.3	0.9	929.6	0.10	98.07
63.0-64.0	8.9	0.9	930.5	0.09	98.16
64.0-65.0	8.6	0.9	931.3	0.09	98.25
65.0-66.0	8.6	0.9	932.2	0.09	98.34
66.0-67.0	8.6	0.9	933.1	0.09	98.43
67.0-68.0	8.1	0.8	933.9	0.09	98.52
68.0-69.0	7.6	0.8	934.7	0.08	98.60
69.0-70.0	7.5	0.8	935.4	0.08	98.68
70.0-71.0	7.6	0.8	936.2	0.08	98.76
71.0-72.0	7.4	0.8	937.0	0.08	98.84

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25.3
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.700 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	7.2	0.7	937.7	0.08	98.92
73.0-74.0	7.0	0.7	938.5	0.08	99.00
74.0-75.0	6.8	0.7	939.2	0.08	99.08
75.0-76.0	6.6	0.7	939.9	0.07	99.15
76.0-77.0	6.3	0.7	940.6	0.07	99.22
77.0-78.0	6.1	0.7	941.2	0.07	99.29
78.0-79.0	6.0	0.6	941.9	0.07	99.36
79.0-80.0	5.6	0.6	942.5	0.06	99.42
80.0-81.0	5.6	0.6	943.1	0.06	99.49
81.0-82.0	5.6	0.6	943.7	0.06	99.55
82.0-83.0	5.3	0.6	944.3	0.06	99.61
83.0-84.0	5.0	0.5	944.8	0.06	99.67
84.0-85.0	4.9	0.5	945.3	0.06	99.72
85.0-86.0	5.1	0.6	945.9	0.06	99.78
86.0-87.0	5.1	0.6	946.5	0.06	99.84
87.0-88.0	4.8	0.5	947.0	0.06	99.90
88.0-89.0	4.5	0.5	947.5	0.05	99.95
89.0-90.0	4.4	0.5	947.9	0.05	100.00

C Plane (°):0.0-360.0: 10.0
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Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.700 m
 Humidity:
 Inspector: