

Report No.: MSL-60

Test Time: 2019-03-16 11:06

Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Aplique De Emergencia Bifocal 2.4W

Luminous Length (mm): 260

Luminous Width (mm): 90

Luminous Height (mm): 0

Voltage: 0.0 V

Current: 0.000 A

Power: 0.00 W

Power Factor: 0.000

Photometric Results

CIE Class: Direct

Measurement Flux: 191.9 lm

Downward Ratio: 98%

Total Rated Lamp Lumens: 191.9 lm

Efficiency: 100%

Upward Ratio: 2%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.5, 163.2, 160.3, 162.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.2, 103.3, 104.5, 104.2

Luminaire Efficacy Rating (LER): 191.95

Central Intensity: 71.71 cd

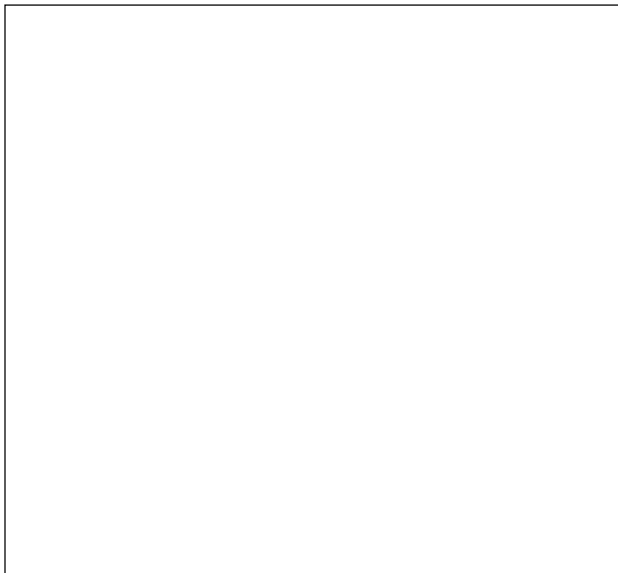
Max. Intensity: 72.38 cd

Pos of Max. Intensity: H0 V1

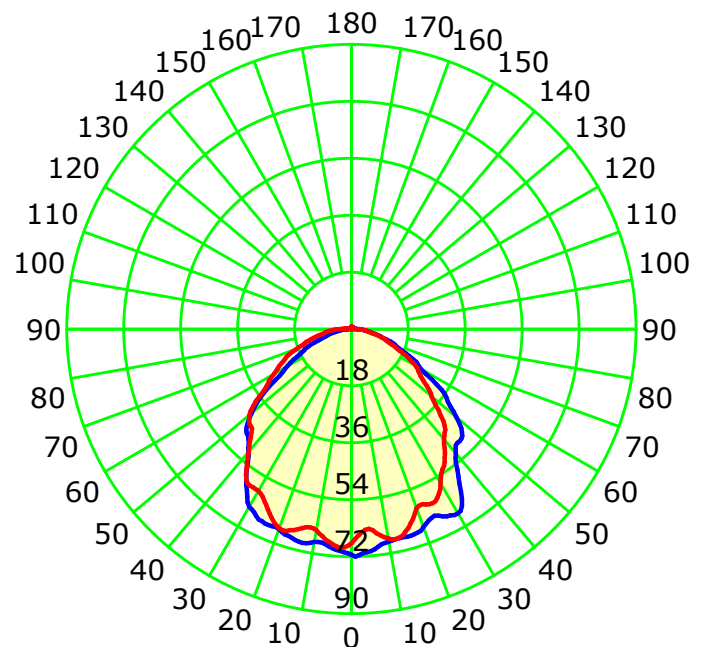
S/MH(C0/C180): 1.33

S/MH(C90/C270): 1.27

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

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 (°):0.0-180.0:1.0

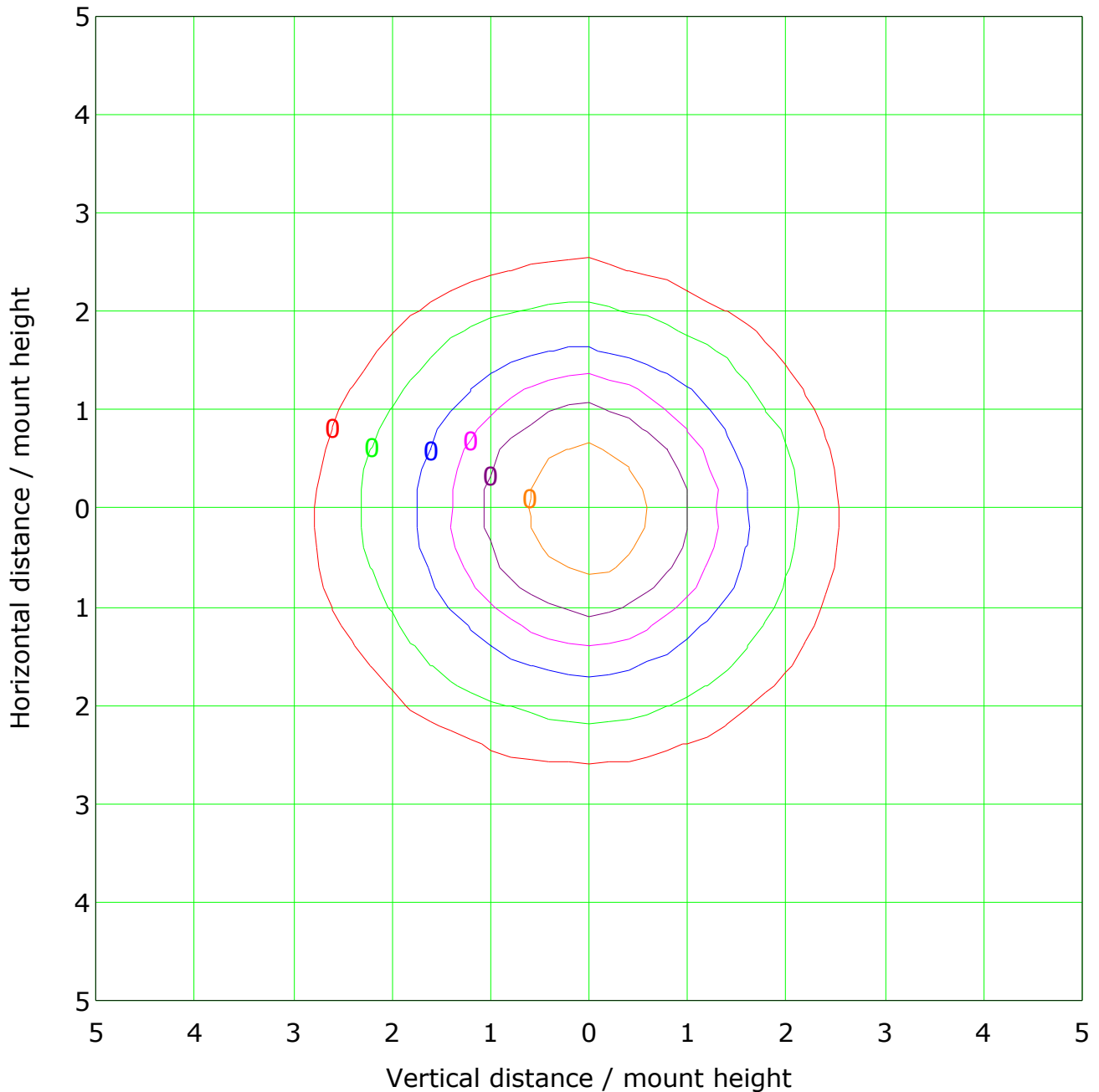
Test Device: LSG-1700B

Distance: 11.703 m — C90-C270

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 0.7 lx

— (1%): 0.0 lx

— (2%): 0.0 lx

— (5%): 0.0 lx

— (10%): 0.1 lx

C Plane (°):0.0-360.0: 10.0, \, 0.1 lx

Gamma Plane (°):0.0-180.0:1.0

Test Lab: LABORATORIO STAND (100%): 0.7 lx

Test Device: LSG-1700B lx

Test Type: TYPE C

Distance: 11.703 m

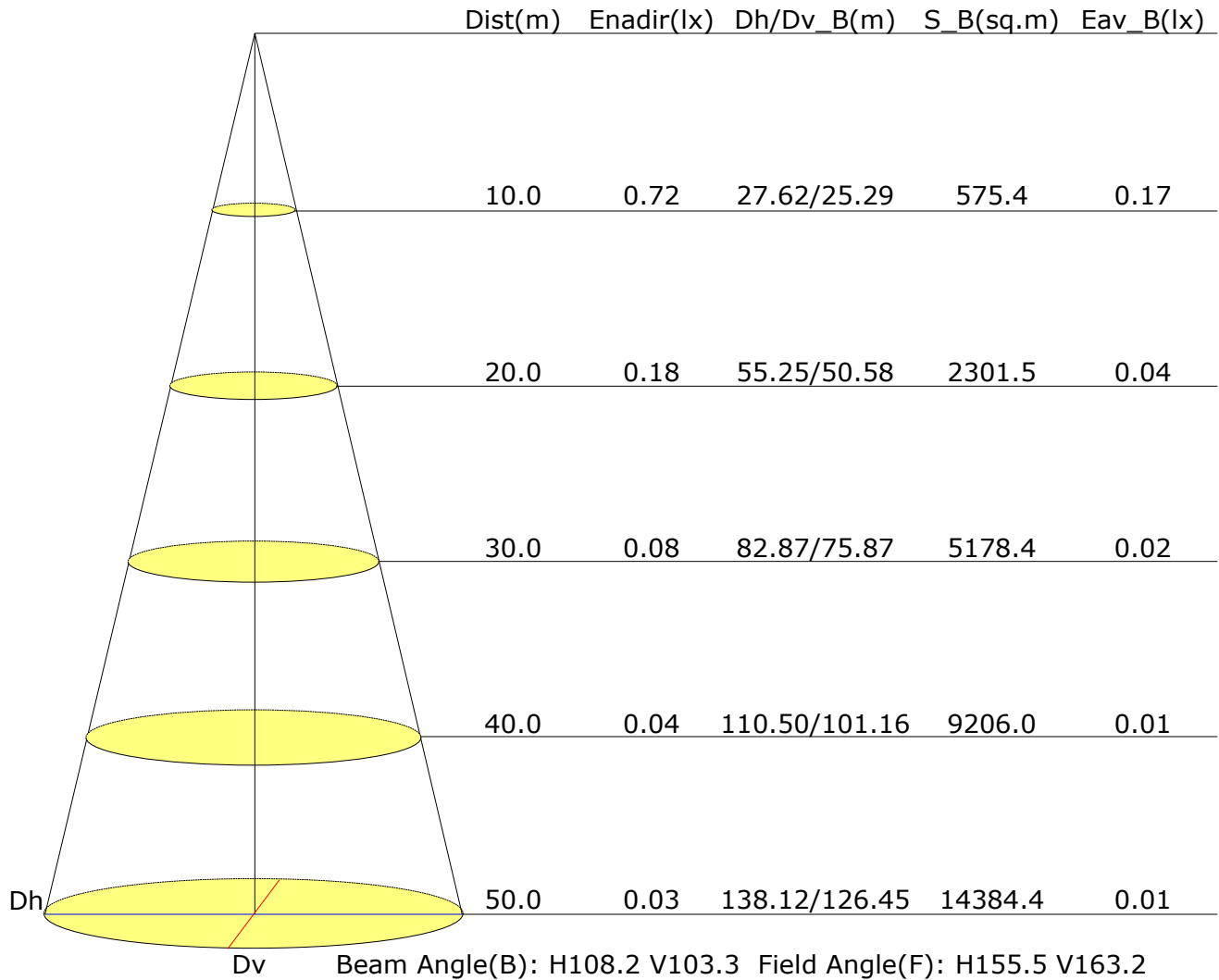
Temperature: 25.7

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

Illuminance at a Distance



Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	68.1	0.1	0.1	0.03	0.03
1.0-2.0	68.0	0.2	0.3	0.10	0.14
2.0-3.0	67.7	0.3	0.6	0.17	0.30
3.0-4.0	67.2	0.5	1.0	0.23	0.54
4.0-5.0	66.8	0.6	1.6	0.30	0.84
5.0-6.0	66.4	0.7	2.3	0.36	1.20
6.0-7.0	66.0	0.8	3.1	0.43	1.63
7.0-8.0	65.6	0.9	4.1	0.49	2.12
8.0-9.0	65.3	1.1	5.1	0.55	2.67
9.0-10.0	65.1	1.2	6.3	0.61	3.28
10.0-11.0	64.9	1.3	7.6	0.68	3.96
11.0-12.0	64.8	1.4	9.0	0.74	4.70
12.0-13.0	64.7	1.5	10.5	0.80	5.50
13.0-14.0	64.6	1.7	12.2	0.86	6.36
14.0-15.0	64.5	1.8	14.0	0.92	7.28
15.0-16.0	64.5	1.9	15.9	0.98	8.27
16.0-17.0	64.4	2.0	17.9	1.05	9.31
17.0-18.0	64.3	2.1	20.0	1.11	10.42
18.0-19.0	64.2	2.2	22.2	1.16	11.58
19.0-20.0	63.9	2.3	24.6	1.22	12.80
20.0-21.0	63.6	2.4	27.0	1.27	14.07
21.0-22.0	63.2	2.5	29.6	1.32	15.40
22.0-23.0	63.0	2.6	32.2	1.38	16.78
23.0-24.0	62.7	2.7	34.9	1.43	18.20
24.0-25.0	62.4	2.8	37.8	1.48	19.68
25.0-26.0	62.0	2.9	40.7	1.53	21.21
26.0-27.0	61.6	3.0	43.7	1.57	22.78
27.0-28.0	61.2	3.1	46.8	1.61	24.39
28.0-29.0	60.8	3.2	50.0	1.66	26.05
29.0-30.0	60.3	3.3	53.2	1.70	27.75
30.0-31.0	59.8	3.3	56.6	1.73	29.48
31.0-32.0	59.2	3.4	60.0	1.77	31.25
32.0-33.0	58.4	3.4	63.4	1.79	33.04
33.0-34.0	57.6	3.5	66.9	1.82	34.86
34.0-35.0	56.7	3.5	70.4	1.83	36.70
35.0-36.0	55.6	3.5	74.0	1.85	38.54

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 (°):0.0-180.0:1.0
 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	54.5	3.6	77.5	1.85	40.39
37.0-38.0	53.2	3.6	81.1	1.85	42.25
38.0-39.0	52.0	3.5	84.6	1.85	44.10
39.0-40.0	50.7	3.5	88.2	1.84	45.94
40.0-41.0	49.5	3.5	91.7	1.84	47.78
41.0-42.0	48.3	3.5	95.2	1.83	49.61
42.0-43.0	47.1	3.5	98.7	1.82	51.43
43.0-44.0	46.0	3.5	102.2	1.81	53.24
44.0-45.0	45.0	3.5	105.6	1.80	55.04
45.0-46.0	43.9	3.4	109.0	1.79	56.83
46.0-47.0	42.8	3.4	112.5	1.77	58.60
47.0-48.0	41.7	3.4	115.8	1.76	60.36
48.0-49.0	40.5	3.3	119.1	1.73	62.09
49.0-50.0	39.3	3.3	122.4	1.71	63.80
50.0-51.0	38.1	3.2	125.7	1.68	65.48
51.0-52.0	36.8	3.2	128.8	1.65	67.13
52.0-53.0	35.6	3.1	131.9	1.61	68.74
53.0-54.0	34.3	3.0	134.9	1.57	70.31
54.0-55.0	32.8	2.9	137.9	1.53	71.84
55.0-56.0	31.4	2.8	140.7	1.48	73.32
56.0-57.0	29.9	2.7	143.4	1.43	74.75
57.0-58.0	28.6	2.6	146.1	1.38	76.12
58.0-59.0	27.3	2.5	148.6	1.33	77.45
59.0-60.0	26.0	2.5	151.1	1.28	78.73
60.0-61.0	24.8	2.4	153.5	1.23	79.96
61.0-62.0	23.7	2.3	155.7	1.19	81.15
62.0-63.0	22.6	2.2	157.9	1.15	82.30
63.0-64.0	21.5	2.1	160.0	1.10	83.40
64.0-65.0	20.4	2.0	162.1	1.05	84.45
65.0-66.0	19.3	1.9	164.0	1.00	85.45
66.0-67.0	18.2	1.8	165.8	0.95	86.41
67.0-68.0	17.1	1.7	167.6	0.90	87.31
68.0-69.0	16.1	1.6	169.2	0.86	88.17
69.0-70.0	15.1	1.6	170.7	0.81	88.98
70.0-71.0	14.3	1.5	172.2	0.77	89.75
71.0-72.0	13.5	1.4	173.6	0.73	90.48

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 (°):0.0-180.0:1.0
 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	12.7	1.3	175.0	0.69	91.18
73.0-74.0	12.0	1.3	176.2	0.65	91.83
74.0-75.0	11.1	1.2	177.4	0.61	92.45
75.0-76.0	10.3	1.1	178.5	0.57	93.02
76.0-77.0	9.5	1.0	179.5	0.53	93.55
77.0-78.0	8.8	0.9	180.4	0.49	94.03
78.0-79.0	8.1	0.9	181.3	0.45	94.49
79.0-80.0	7.5	0.8	182.1	0.42	94.91
80.0-81.0	6.9	0.7	182.9	0.39	95.30
81.0-82.0	6.4	0.7	183.6	0.36	95.66
82.0-83.0	5.9	0.6	184.2	0.33	95.99
83.0-84.0	5.4	0.6	184.8	0.30	96.29
84.0-85.0	4.9	0.5	185.3	0.28	96.57
85.0-86.0	4.4	0.5	185.8	0.25	96.82
86.0-87.0	4.0	0.4	186.2	0.23	97.05
87.0-88.0	3.6	0.4	186.6	0.20	97.25
88.0-89.0	3.2	0.3	187.0	0.18	97.43
89.0-90.0	2.8	0.3	187.3	0.16	97.60
90.0-91.0	2.5	0.3	187.6	0.14	97.74
91.0-92.0	2.2	0.2	187.8	0.13	97.87
92.0-93.0	2.0	0.2	188.0	0.11	97.98
93.0-94.0	1.8	0.2	188.2	0.10	98.08
94.0-95.0	1.6	0.2	188.4	0.09	98.18
95.0-96.0	1.5	0.2	188.6	0.08	98.26
96.0-97.0	1.4	0.1	188.7	0.08	98.34
97.0-98.0	1.2	0.1	188.8	0.07	98.41
98.0-99.0	1.1	0.1	189.0	0.06	98.47
99.0-100.0	1.0	0.1	189.1	0.06	98.53
100.0-101.0	0.9	0.1	189.2	0.05	98.58
101.0-102.0	0.9	0.1	189.3	0.05	98.63
102.0-103.0	0.8	0.1	189.4	0.05	98.67
103.0-104.0	0.8	0.1	189.4	0.04	98.72
104.0-105.0	0.7	0.1	189.5	0.04	98.76
105.0-106.0	0.7	0.1	189.6	0.04	98.79
106.0-107.0	0.6	0.1	189.7	0.04	98.83
107.0-108.0	0.6	0.1	189.7	0.03	98.86

C Plane (°):0.0-360.0: 10.0
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 Temperature: 25.7
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1700B
 Distance: 11.703 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	0.6	0.1	189.8	0.03	98.89
109.0-110.0	0.6	0.1	189.8	0.03	98.92
110.0-111.0	0.5	0.1	189.9	0.03	98.95
111.0-112.0	0.5	0.1	189.9	0.03	98.98
112.0-113.0	0.5	0.1	190.0	0.03	99.01
113.0-114.0	0.5	0.0	190.0	0.03	99.03
114.0-115.0	0.5	0.0	190.1	0.03	99.06
115.0-116.0	0.5	0.0	190.1	0.02	99.08
116.0-117.0	0.5	0.0	190.2	0.02	99.11
117.0-118.0	0.5	0.0	190.2	0.02	99.13
118.0-119.0	0.4	0.0	190.3	0.02	99.15
119.0-120.0	0.4	0.0	190.3	0.02	99.18
120.0-121.0	0.4	0.0	190.4	0.02	99.20
121.0-122.0	0.4	0.0	190.4	0.02	99.22
122.0-123.0	0.4	0.0	190.4	0.02	99.24
123.0-124.0	0.4	0.0	190.5	0.02	99.26
124.0-125.0	0.4	0.0	190.5	0.02	99.28
125.0-126.0	0.4	0.0	190.6	0.02	99.30
126.0-127.0	0.4	0.0	190.6	0.02	99.32
127.0-128.0	0.4	0.0	190.6	0.02	99.34
128.0-129.0	0.4	0.0	190.7	0.02	99.36
129.0-130.0	0.4	0.0	190.7	0.02	99.38
130.0-131.0	0.4	0.0	190.7	0.02	99.40
131.0-132.0	0.4	0.0	190.8	0.02	99.42
132.0-133.0	0.4	0.0	190.8	0.02	99.44
133.0-134.0	0.5	0.0	190.9	0.02	99.45
134.0-135.0	0.5	0.0	190.9	0.02	99.47
135.0-136.0	0.5	0.0	190.9	0.02	99.49
136.0-137.0	0.5	0.0	191.0	0.02	99.51
137.0-138.0	0.5	0.0	191.0	0.02	99.53
138.0-139.0	0.5	0.0	191.0	0.02	99.55
139.0-140.0	0.5	0.0	191.1	0.02	99.57
140.0-141.0	0.5	0.0	191.1	0.02	99.58
141.0-142.0	0.5	0.0	191.1	0.02	99.60
142.0-143.0	0.5	0.0	191.2	0.02	99.62
143.0-144.0	0.5	0.0	191.2	0.02	99.64

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

Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1700B
 Distance: 11.703 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	0.5	0.0	191.2	0.02	99.65
145.0-146.0	0.5	0.0	191.3	0.02	99.67
146.0-147.0	0.5	0.0	191.3	0.02	99.69
147.0-148.0	0.5	0.0	191.3	0.02	99.70
148.0-149.0	0.5	0.0	191.4	0.02	99.72
149.0-150.0	0.5	0.0	191.4	0.02	99.74
150.0-151.0	0.6	0.0	191.4	0.02	99.75
151.0-152.0	0.6	0.0	191.5	0.02	99.77
152.0-153.0	0.6	0.0	191.5	0.01	99.78
153.0-154.0	0.6	0.0	191.5	0.01	99.80
154.0-155.0	0.6	0.0	191.5	0.01	99.81
155.0-156.0	0.6	0.0	191.6	0.01	99.82
156.0-157.0	0.6	0.0	191.6	0.01	99.84
157.0-158.0	0.6	0.0	191.6	0.01	99.85
158.0-159.0	0.6	0.0	191.6	0.01	99.86
159.0-160.0	0.6	0.0	191.7	0.01	99.88
160.0-161.0	0.6	0.0	191.7	0.01	99.89
161.0-162.0	0.6	0.0	191.7	0.01	99.90
162.0-163.0	0.6	0.0	191.7	0.01	99.91
163.0-164.0	0.6	0.0	191.7	0.01	99.92
164.0-165.0	0.6	0.0	191.8	0.01	99.93
165.0-166.0	0.6	0.0	191.8	0.01	99.94
166.0-167.0	0.6	0.0	191.8	0.01	99.95
167.0-168.0	0.6	0.0	191.8	0.01	99.95
168.0-169.0	0.6	0.0	191.8	0.01	99.96
169.0-170.0	0.6	0.0	191.8	0.01	99.97
170.0-171.0	0.6	0.0	191.8	0.01	99.97
171.0-172.0	0.7	0.0	191.9	0.01	99.98
172.0-173.0	0.7	0.0	191.9	0.00	99.98
173.0-174.0	0.7	0.0	191.9	0.00	99.99
174.0-175.0	0.7	0.0	191.9	0.00	99.99
175.0-176.0	0.7	0.0	191.9	0.00	99.99
176.0-177.0	0.7	0.0	191.9	0.00	100.00
177.0-178.0	0.7	0.0	191.9	0.00	100.00
178.0-179.0	0.7	0.0	191.9	0.00	100.00
179.0-180.0	0.7	0.0	191.9	0.00	100.00

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