

Report No.: MSL-14

Test Time: 2019-02-23 08:41

## Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Bala Stil Led Recesada 8W Samsung

Number of Lamps: 1

Luminous Length (mm): 65 Diametro

Luminous Width (mm): 65 Diametro

Luminous Height (mm): 0

Voltage: 120.0 V

Current: 0.071 A

Power: 8.35 W

Power Factor: 0.977

## Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 705.7 lm

Measurement Flux: 705.7 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 129.2, 130.7, 130.3, 129.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 76.4, 77.6, 77.4, 77.1

Luminaire Efficacy Rating (LER): 84.56

Central Intensity: 419.2 cd

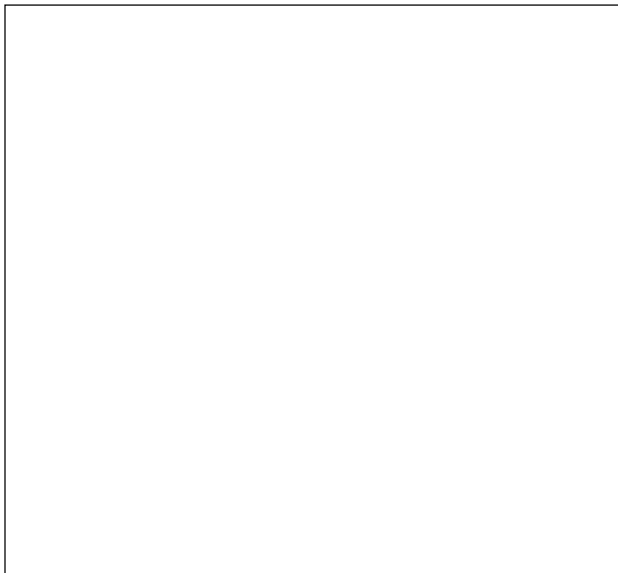
Max. Intensity: 420.27 cd

Pos of Max. Intensity: H250 V1

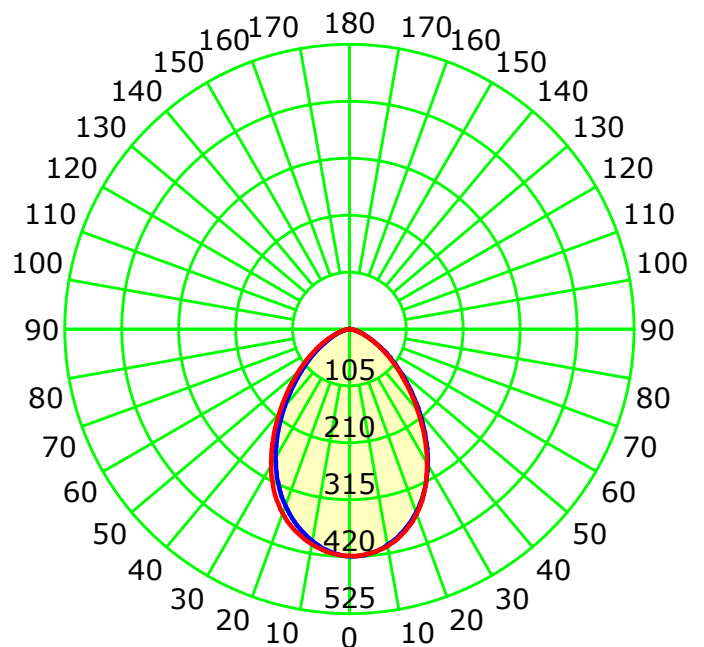
S/MH(C0/C180): 1.04

S/MH(C90/C270): 1.07

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: 11.772 m — C90-C270

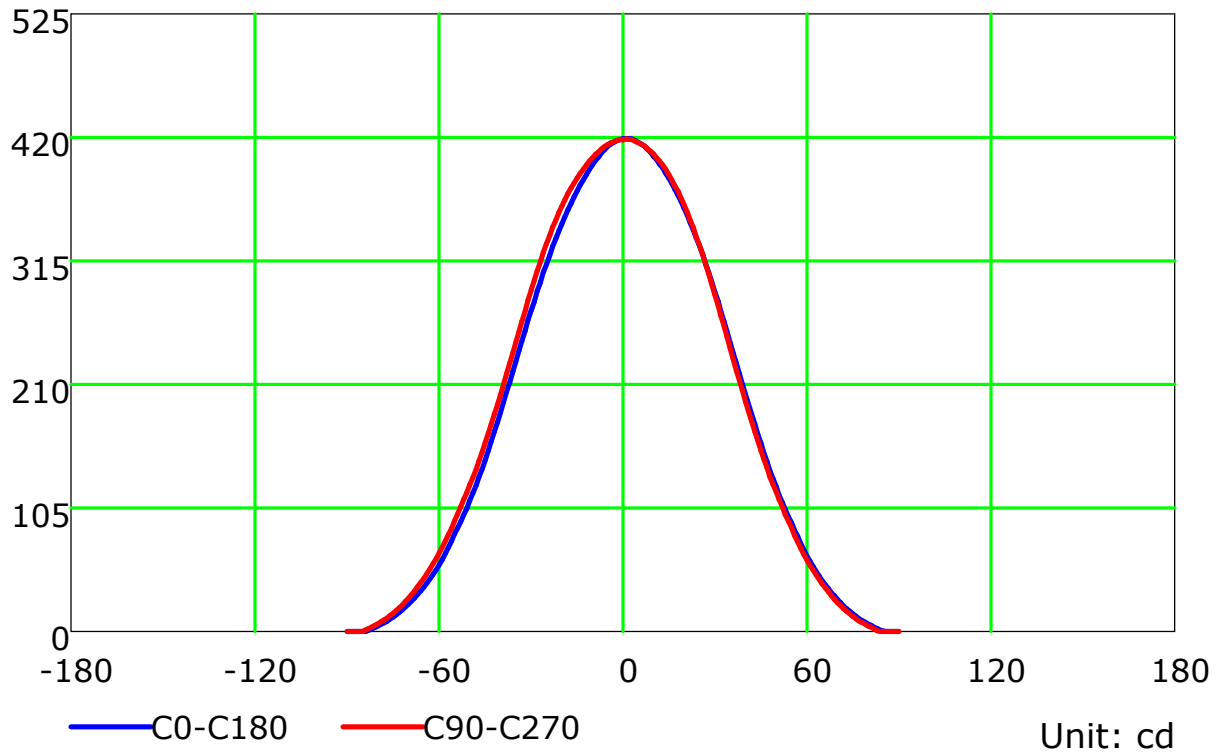
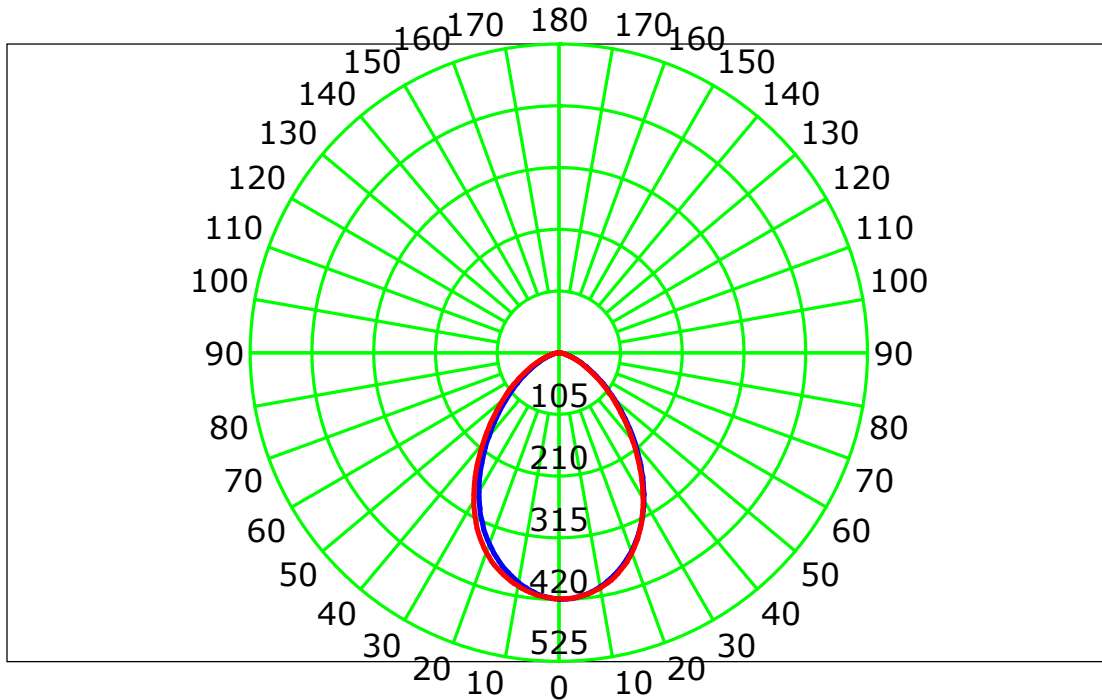
Temperature: 24.5

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

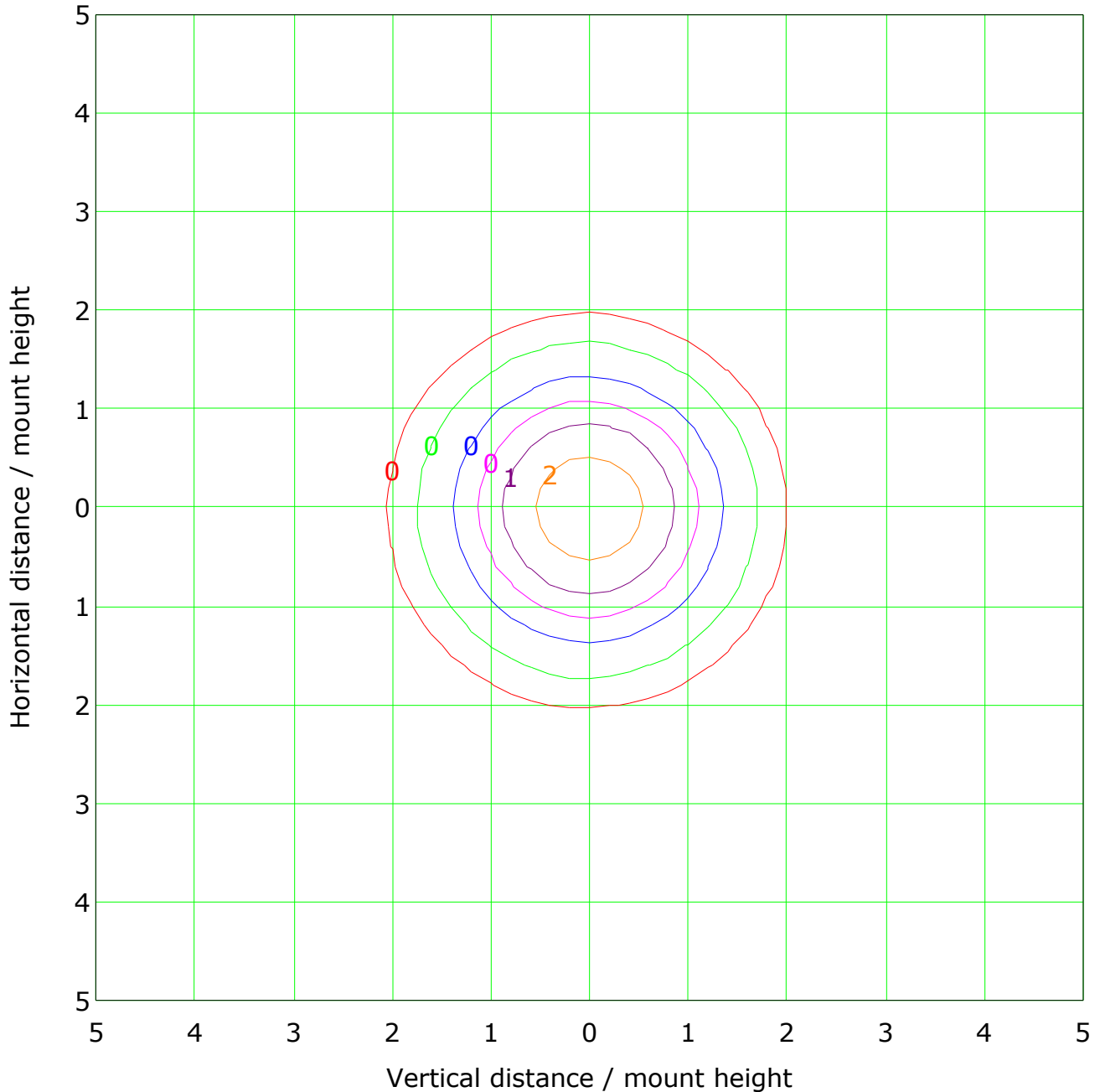
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0  
 Test Lab: LABORATORIO STAND  
 Test Type: TYPE C  
 Temperature: 24.5  
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1700B  
 Distance: 11.772 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 10.0m    Max Lux(100%): 4.2 lx

— ( 1%): 0.0 lx

— ( 2%): 0.1 lx

— ( 5%): 0.2 lx

— ( 10%): 0.4 lx

C Plane (°):0.0-360.0: 10.0, \, 0.8 lx

Gamma Plane (°):0.0-90.0:1.0

Test Lab: LABORATORIO STAND

Test Device: LSG-1700B lx

Test Type: TYPE C (100%): 4.2 lx

Distance: 11.772 m

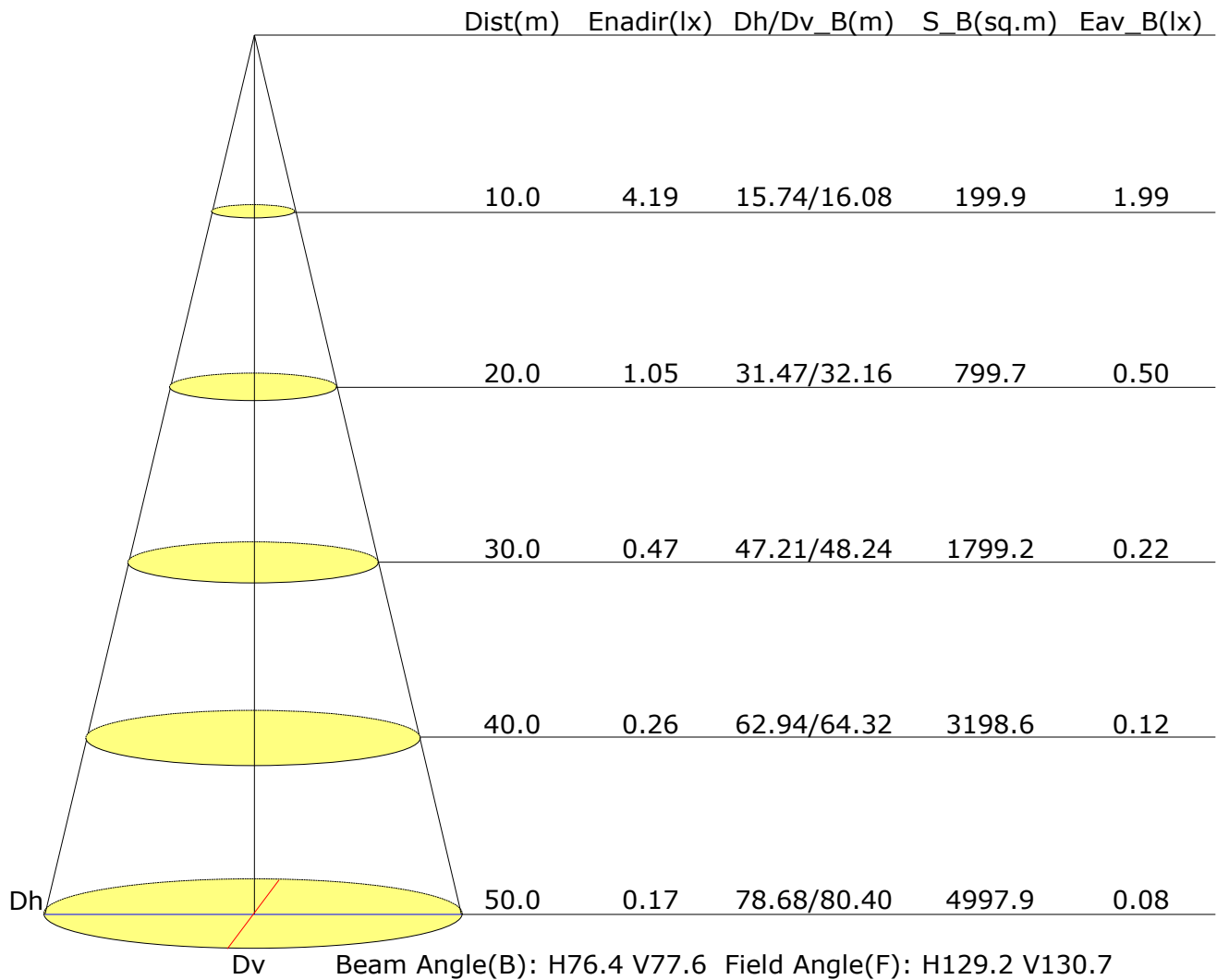
Temperature: 24.5

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	418.8	0.4	0.4	0.06	0.06
1.0-2.0	418.5	1.2	1.6	0.17	0.23
2.0-3.0	417.8	2.0	3.6	0.28	0.51
3.0-4.0	416.8	2.8	6.4	0.40	0.91
4.0-5.0	415.5	3.6	10.0	0.51	1.41
5.0-6.0	413.9	4.4	14.3	0.62	2.03
6.0-7.0	411.9	5.1	19.4	0.72	2.75
7.0-8.0	409.6	5.9	25.3	0.83	3.58
8.0-9.0	407.0	6.6	31.9	0.93	4.52
9.0-10.0	404.2	7.3	39.2	1.04	5.56
10.0-11.0	401.1	8.0	47.2	1.14	6.69
11.0-12.0	397.7	8.7	55.9	1.23	7.92
12.0-13.0	394.2	9.4	65.3	1.33	9.25
13.0-14.0	390.2	10.0	75.3	1.42	10.66
14.0-15.0	386.0	10.6	85.9	1.50	12.17
15.0-16.0	381.5	11.2	97.0	1.58	13.75
16.0-17.0	376.8	11.7	108.8	1.66	15.41
17.0-18.0	371.9	12.3	121.0	1.74	17.15
18.0-19.0	366.5	12.8	133.8	1.81	18.96
19.0-20.0	360.8	13.2	147.0	1.87	20.83
20.0-21.0	355.0	13.6	160.6	1.93	22.76
21.0-22.0	348.9	14.0	174.7	1.99	24.75
22.0-23.0	342.5	14.4	189.0	2.04	26.79
23.0-24.0	335.6	14.7	203.7	2.08	28.87
24.0-25.0	328.5	14.9	218.6	2.12	30.98
25.0-26.0	321.4	15.2	233.8	2.15	33.13
26.0-27.0	313.7	15.4	249.2	2.18	35.31
27.0-28.0	305.8	15.5	264.6	2.19	37.50
28.0-29.0	297.8	15.6	280.2	2.21	39.71
29.0-30.0	289.5	15.6	295.9	2.21	41.93
30.0-31.0	281.0	15.6	311.5	2.22	44.14
31.0-32.0	272.2	15.6	327.1	2.21	46.35
32.0-33.0	263.4	15.5	342.6	2.20	48.55
33.0-34.0	254.9	15.4	358.1	2.19	50.74
34.0-35.0	245.9	15.3	373.3	2.16	52.90
35.0-36.0	236.8	15.1	388.4	2.14	55.04

C Plane (°):0.0-360.0: 10.0  
 Test Lab: LABORATORIO STAND  
 Test Type: TYPE C  
 Temperature: 24.5  
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: LSG-1700B  
 Distance: 11.772 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	227.9	14.9	403.3	2.11	57.15
37.0-38.0	218.9	14.6	417.9	2.07	59.22
38.0-39.0	210.2	14.3	432.2	2.03	61.25
39.0-40.0	201.3	14.0	446.3	1.99	63.24
40.0-41.0	192.6	13.7	460.0	1.94	65.18
41.0-42.0	184.4	13.4	473.4	1.90	67.08
42.0-43.0	176.0	13.0	486.4	1.85	68.93
43.0-44.0	167.6	12.7	499.1	1.79	70.72
44.0-45.0	159.7	12.3	511.4	1.74	72.46
45.0-46.0	151.7	11.9	523.2	1.68	74.14
46.0-47.0	144.2	11.5	534.7	1.63	75.77
47.0-48.0	136.8	11.1	545.8	1.57	77.34
48.0-49.0	129.5	10.6	556.4	1.51	78.84
49.0-50.0	122.9	10.2	566.6	1.45	80.30
50.0-51.0	116.2	9.8	576.5	1.39	81.69
51.0-52.0	109.9	9.4	585.9	1.34	83.03
52.0-53.0	104.0	9.0	595.0	1.28	84.31
53.0-54.0	98.0	8.6	603.6	1.22	85.53
54.0-55.0	92.2	8.2	611.8	1.17	86.70
55.0-56.0	86.4	7.8	619.6	1.11	87.81
56.0-57.0	80.5	7.4	627.0	1.04	88.85
57.0-58.0	75.2	7.0	633.9	0.99	89.83
58.0-59.0	69.9	6.5	640.5	0.93	90.76
59.0-60.0	64.9	6.1	646.6	0.87	91.63
60.0-61.0	60.2	5.7	652.4	0.81	92.44
61.0-62.0	55.7	5.4	657.7	0.76	93.20
62.0-63.0	51.6	5.0	662.7	0.71	93.92
63.0-64.0	47.6	4.7	667.4	0.66	94.58
64.0-65.0	43.7	4.3	671.7	0.61	95.19
65.0-66.0	40.2	4.0	675.8	0.57	95.76
66.0-67.0	36.8	3.7	679.5	0.52	96.28
67.0-68.0	33.5	3.4	682.8	0.48	96.76
68.0-69.0	30.4	3.1	686.0	0.44	97.20
69.0-70.0	27.4	2.8	688.8	0.40	97.60
70.0-71.0	24.7	2.6	691.3	0.36	97.96
71.0-72.0	22.1	2.3	693.6	0.33	98.29

C Plane (°):0.0-360.0: 10.0  
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 Test Device: LSG-1700B  
 Distance: 11.772 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	19.6	2.0	695.7	0.29	98.58
73.0-74.0	17.3	1.8	697.5	0.26	98.84
74.0-75.0	15.1	1.6	699.1	0.23	99.06
75.0-76.0	13.1	1.4	700.5	0.20	99.26
76.0-77.0	11.2	1.2	701.7	0.17	99.43
77.0-78.0	9.4	1.0	702.7	0.14	99.57
78.0-79.0	7.9	0.8	703.5	0.12	99.69
79.0-80.0	6.4	0.7	704.2	0.10	99.79
80.0-81.0	5.1	0.5	704.8	0.08	99.87
81.0-82.0	3.7	0.4	705.2	0.06	99.93
82.0-83.0	2.4	0.3	705.4	0.04	99.96
83.0-84.0	1.3	0.1	705.6	0.02	99.98
84.0-85.0	0.5	0.1	705.6	0.01	99.99
85.0-86.0	0.2	0.0	705.6	0.00	99.99
86.0-87.0	0.1	0.0	705.6	0.00	99.99
87.0-88.0	0.1	0.0	705.7	0.00	100.00
88.0-89.0	0.1	0.0	705.7	0.00	100.00
89.0-90.0	0.1	0.0	705.7	0.00	100.00

C Plane (°):0.0-360.0: 10.0  
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 Test Device: LSG-1700B  
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 Humidity:  
 Inspector: