

Report No.: MSL-283

Test Time: 2021-02-05 13:12

## Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Exterior

Luminaire Description: Lum Stil Led Bañador de muro 1m 24W RGB

Luminous Length (mm): 950

Luminous Width (mm): 25

Voltage: 119.9 V

Current: 0.285 A

Power: 20.43 W

Power Factor: 0.596

## Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 387.7 lm

Measurement Flux: 387.7 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 53.2, 51.4, 53.4, 52.4

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 15.0, 15.8, 16.2, 16.5

Luminaire Efficacy Rating (LER): 19.03

Central Intensity: 1493.99 cd

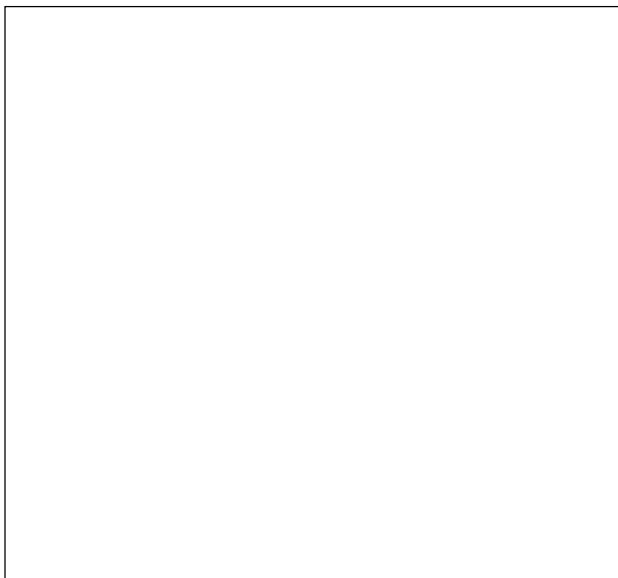
Max. Intensity: 1509.61 cd

Pos of Max. Intensity: H170 V1

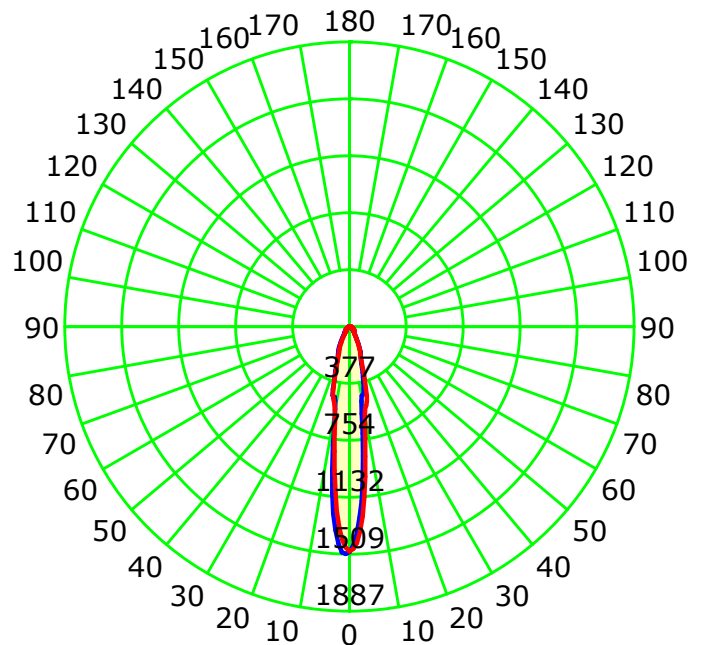
S/MH(C0/C180): 0.26

S/MH(C90/C270): 0.27

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 24.7

Operator: Cristian Herrera Arismendy

Average Diffuse Angle(50%): 15.4°

Gamma Plane (°):0.0-90.0:1.0

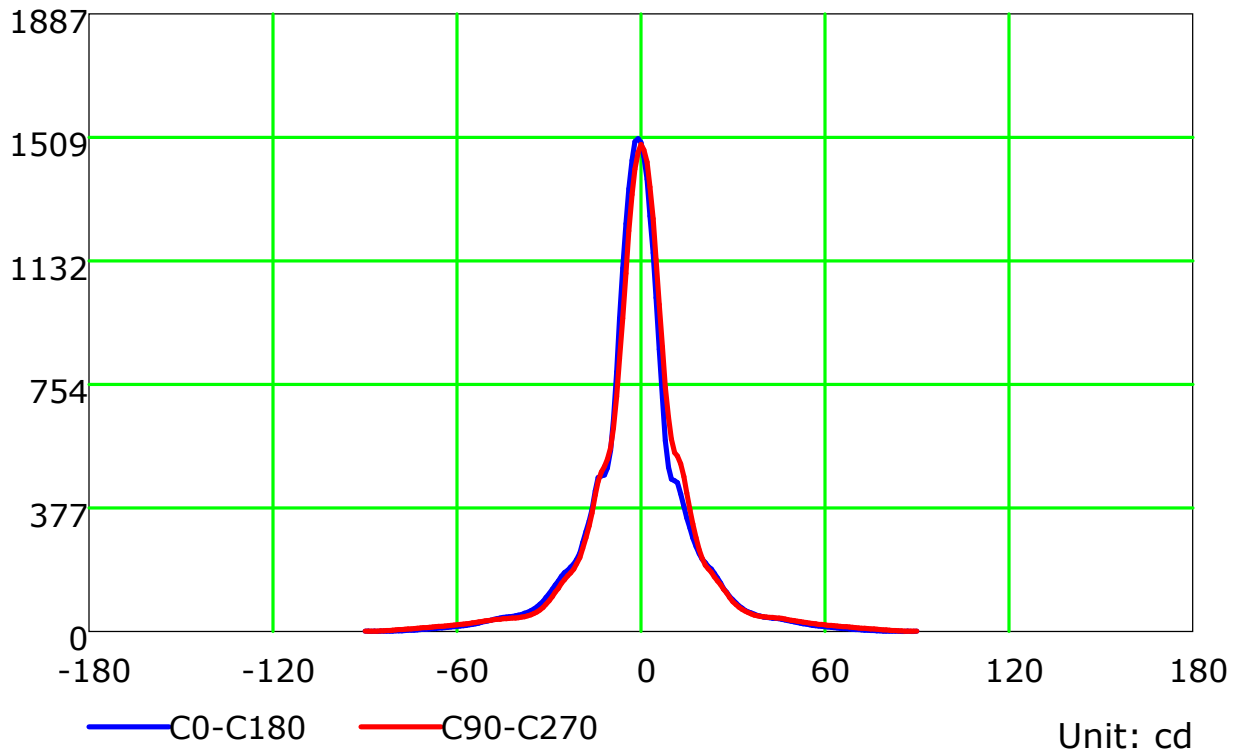
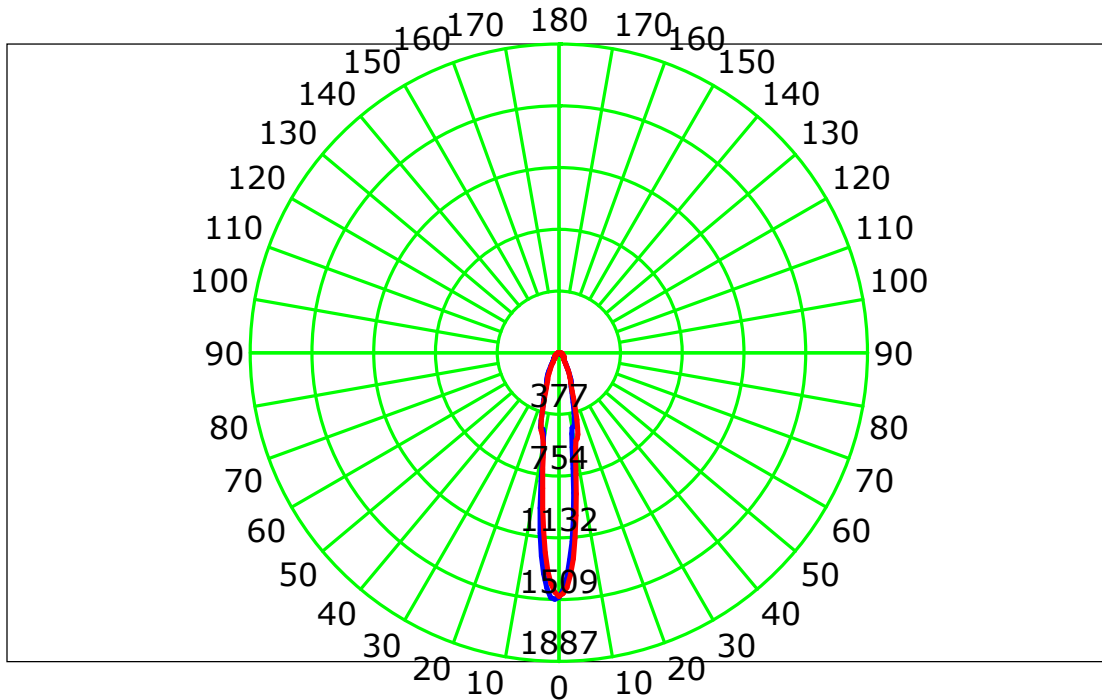
Test Device: LSG-1700B — C90-C270

Distance: 11.700 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 24.7

Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0

Test Device: LSG-1700B

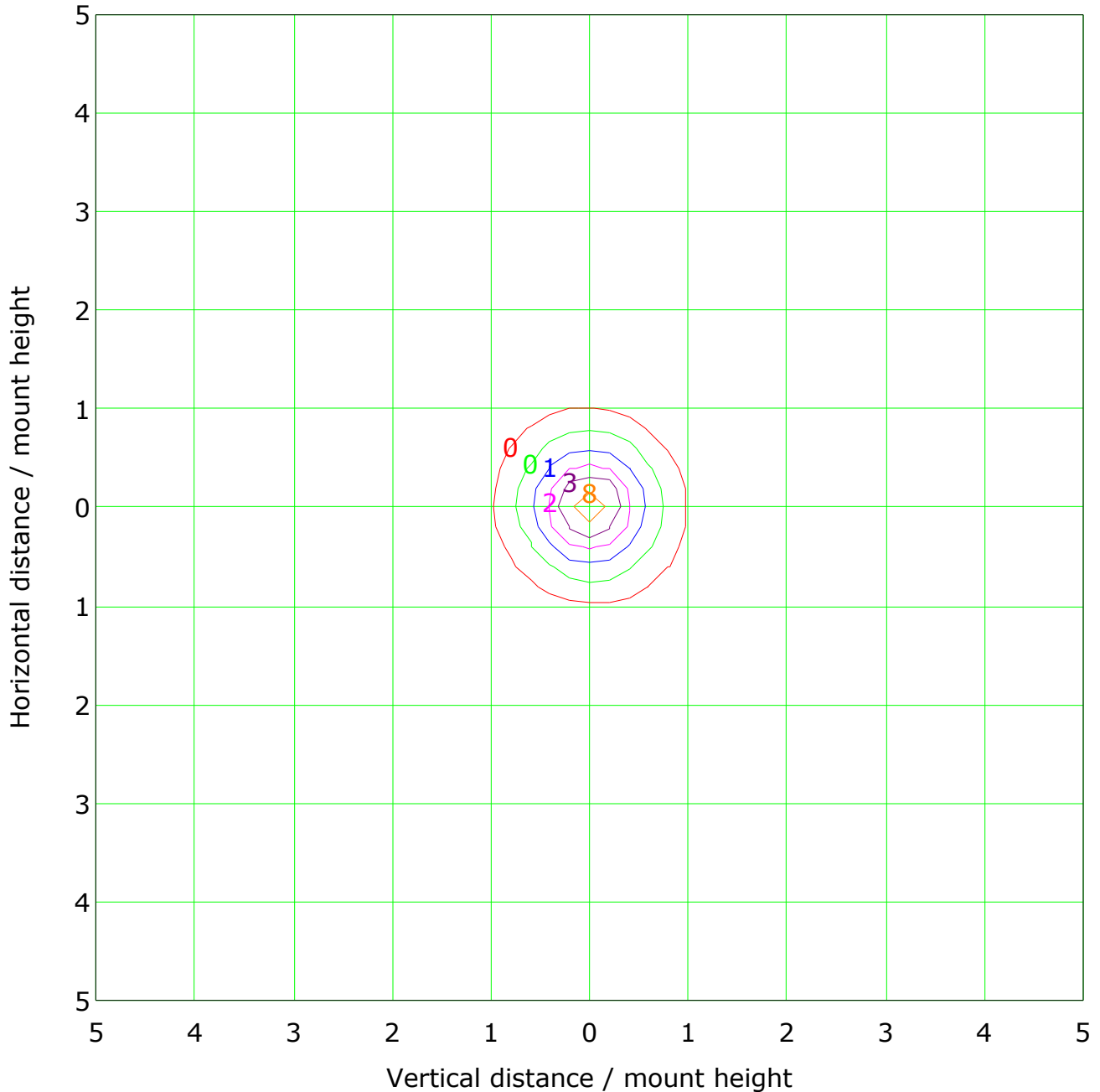
Distance: 11.700 m

Humidity:

Inspector:

Unit: cd

## IsoLux Plot



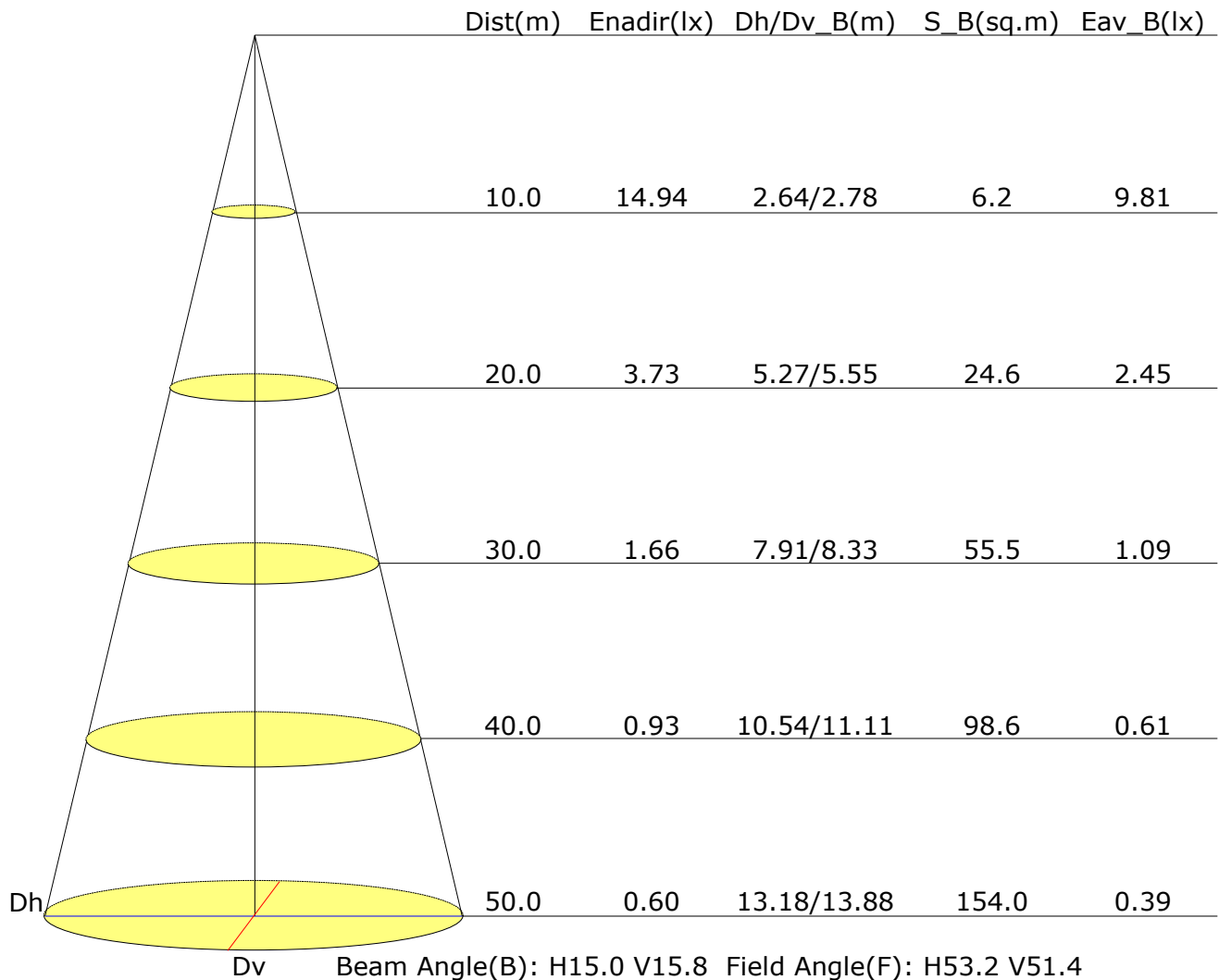
Mounting Height: 10.0m    Max Lux(100%): 15.1 lx

— ( 1%): 0.2 lx                      — ( 2%): 0.3 lx  
— ( 5%): 0.8 lx                        — ( 10%): 1.5 lx

C Plane (°):0.0-360.0: 10.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 24.7  
 Operator: Cristian Herrera Arismendy

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

## Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 24.7

Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0

Test Device: LSG-1700B

Distance: 11.700 m

Humidity:

Inspector:

## 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	11.0	11.8	11.2	12.0	12.2	11.8	12.7	12.1	12.9	13.1
3H	11.5	12.3	11.8	12.6	12.8	13.0	13.8	13.3	14.1	14.3
4H	11.7	12.4	12.0	12.7	13.0	13.5	14.3	13.8	14.5	14.8
6H	11.7	12.4	12.0	12.7	13.0	13.9	14.6	14.2	14.9	15.2
8H	11.7	12.4	12.0	12.7	13.0	14.0	14.7	14.3	15.0	15.3
12H	11.7	12.3	12.1	12.7	13.0	14.1	14.7	14.4	15.0	15.3
X=4H Y=2H	11.4	12.2	11.8	12.5	12.7	12.2	12.9	12.5	13.2	13.5
3H	12.1	12.8	12.5	13.1	13.4	13.5	14.2	13.9	14.5	14.8
4H	12.4	12.9	12.7	13.3	13.6	14.1	14.7	14.5	15.1	15.4
6H	12.4	13.0	12.8	13.3	13.7	14.6	15.1	15.0	15.5	15.9
8H	12.5	12.9	12.9	13.3	13.7	14.7	15.2	15.2	15.6	16.0
12H	12.5	12.9	12.9	13.3	13.7	14.8	15.3	15.3	15.7	16.1
X=8H Y=4H	12.5	13.0	12.9	13.4	13.8	14.2	14.6	14.6	15.0	15.4
6H	12.6	13.0	13.1	13.5	13.9	14.7	15.1	15.1	15.5	15.9
8H	12.7	13.0	13.2	13.5	14.0	14.9	15.2	15.3	15.7	16.1
12H	12.8	13.1	13.3	13.5	14.0	15.0	15.3	15.5	15.8	16.3
X=12H Y=4H	12.5	12.9	12.9	13.3	13.8	14.1	14.6	14.6	15.0	15.4
6H	12.7	13.0	13.1	13.4	13.9	14.7	15.0	15.1	15.4	15.9
8H	12.7	13.0	13.2	13.5	14.0	14.9	15.2	15.4	15.6	16.1
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.7					+0.3/-0.3				
S=1.5H	+0.8/-1.6					+0.4/-0.8				
S=2.0H	+1.6/-2.5					+0.9/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 388lm ( $8\log(F/F_0) = -3.3$ ).

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 24.7

Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0

Test Device: LSG-1700B

Distance: 11.700 m

Humidity:

Inspector:

## Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1482.0	1.4	1.4	0.37	0.37
1.0-2.0	1452.7	4.2	5.6	1.08	1.44
2.0-3.0	1393.6	6.7	12.3	1.72	3.16
3.0-4.0	1306.3	8.7	21.0	2.26	5.42
4.0-5.0	1198.5	10.3	31.3	2.66	8.08
5.0-6.0	1070.5	11.3	42.6	2.90	10.98
6.0-7.0	933.9	11.6	54.2	2.99	13.97
7.0-8.0	801.7	11.5	65.6	2.96	16.93
8.0-9.0	685.1	11.1	76.7	2.86	19.79
9.0-10.0	599.3	10.8	87.6	2.80	22.59
10.0-11.0	545.4	10.9	98.5	2.81	25.40
11.0-12.0	516.1	11.3	109.8	2.91	28.31
12.0-13.0	496.6	11.8	121.6	3.04	31.35
13.0-14.0	470.1	12.0	133.6	3.10	34.46
14.0-15.0	432.9	11.9	145.5	3.07	37.52
15.0-16.0	389.1	11.4	156.9	2.94	40.47
16.0-17.0	346.6	10.8	167.7	2.78	43.25
17.0-18.0	309.5	10.2	177.9	2.63	45.88
18.0-19.0	274.7	9.6	187.4	2.47	48.35
19.0-20.0	244.5	9.0	196.4	2.31	50.66
20.0-21.0	222.3	8.5	204.9	2.20	52.86
21.0-22.0	206.4	8.3	213.2	2.14	55.00
22.0-23.0	194.3	8.2	221.4	2.10	57.10
23.0-24.0	183.4	8.0	229.4	2.07	59.17
24.0-25.0	172.3	7.8	237.2	2.02	61.19
25.0-26.0	160.6	7.6	244.8	1.96	63.15
26.0-27.0	147.3	7.2	252.0	1.86	65.01
27.0-28.0	133.5	6.8	258.8	1.74	66.75
28.0-29.0	120.4	6.3	265.1	1.63	68.38
29.0-30.0	107.6	5.8	270.9	1.50	69.88
30.0-31.0	96.2	5.4	276.3	1.38	71.26
31.0-32.0	86.2	4.9	281.2	1.27	72.53
32.0-33.0	77.6	4.6	285.8	1.18	73.71
33.0-34.0	70.8	4.3	290.1	1.11	74.82
34.0-35.0	64.9	4.0	294.1	1.04	75.86
35.0-36.0	60.0	3.8	297.9	0.98	76.84

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 24.7

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 [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	56.0	3.7	301.5	0.94	77.78
37.0-38.0	52.6	3.5	305.1	0.90	78.69
38.0-39.0	49.8	3.4	308.5	0.88	79.57
39.0-40.0	47.6	3.3	311.8	0.86	80.42
40.0-41.0	45.8	3.3	315.0	0.84	81.26
41.0-42.0	44.6	3.2	318.3	0.84	82.10
42.0-43.0	43.5	3.2	321.5	0.83	82.93
43.0-44.0	42.6	3.2	324.7	0.83	83.76
44.0-45.0	41.7	3.2	327.9	0.83	84.58
45.0-46.0	40.6	3.2	331.1	0.82	85.40
46.0-47.0	39.3	3.1	334.2	0.81	86.21
47.0-48.0	37.8	3.1	337.3	0.79	87.00
48.0-49.0	36.1	3.0	340.2	0.76	87.76
49.0-50.0	34.4	2.9	343.1	0.74	88.50
50.0-51.0	32.6	2.8	345.9	0.71	89.21
51.0-52.0	30.8	2.6	348.5	0.68	89.90
52.0-53.0	29.0	2.5	351.0	0.65	90.55
53.0-54.0	27.3	2.4	353.4	0.62	91.17
54.0-55.0	25.7	2.3	355.7	0.59	91.76
55.0-56.0	24.1	2.2	357.9	0.56	92.32
56.0-57.0	22.6	2.1	360.0	0.53	92.85
57.0-58.0	21.4	2.0	362.0	0.51	93.36
58.0-59.0	20.2	1.9	363.8	0.49	93.85
59.0-60.0	19.1	1.8	365.6	0.46	94.31
60.0-61.0	18.0	1.7	367.4	0.44	94.76
61.0-62.0	17.1	1.6	369.0	0.42	95.18
62.0-63.0	16.2	1.6	370.6	0.41	95.59
63.0-64.0	15.2	1.5	372.1	0.39	95.97
64.0-65.0	14.3	1.4	373.5	0.37	96.34
65.0-66.0	13.5	1.3	374.8	0.35	96.69
66.0-67.0	12.6	1.3	376.1	0.33	97.01
67.0-68.0	11.7	1.2	377.3	0.31	97.32
68.0-69.0	10.8	1.1	378.4	0.28	97.60
69.0-70.0	10.0	1.0	379.4	0.27	97.87
70.0-71.0	9.3	1.0	380.4	0.25	98.12
71.0-72.0	8.5	0.9	381.3	0.23	98.34

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 24.7

Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0

Test Device: LSG-1700B

Distance: 11.700 m

Humidity:

Inspector:

