

Report No.: MSL-187

Test Time: 2021-02-15 16:10

Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Lum Stil Led Round 127cm 120W

Luminous Length (mm): 1270 Diametro

Luminous Width (mm): 1270 Diametro

Voltage: 119.9 V

Current: 0.991 A

Power: 118.54 W

Power Factor: 0.997

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 8450.5 lm

Measurement Flux: 8450.5 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 160.8, 160.7, 160.5, 161.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 107.6, 107.5, 107.4, 107.5

Luminaire Efficacy Rating (LER): 71.34

Central Intensity: 3116.91 cd

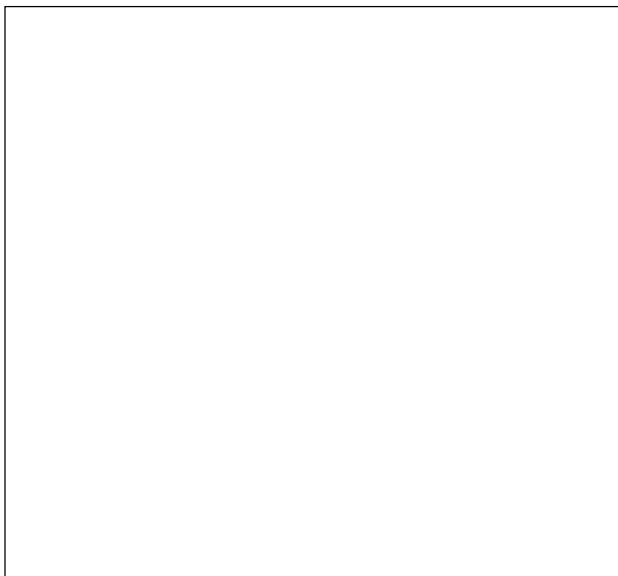
Max. Intensity: 3121.57 cd

Pos of Max. Intensity: H180 V2

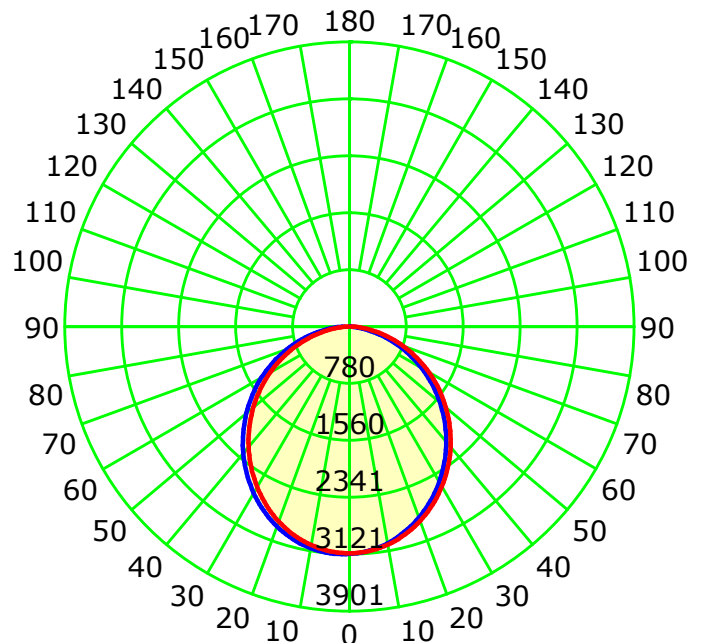
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.22

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 107.6°

C Plane (°):0.0-360.0: 10.0

Gamma Plane (°):0.0-90.0:1.0

Test Lab:

Test Device: LSG-1700B — C90-C270

Test Type: TYPE C

Distance: 11.700 m

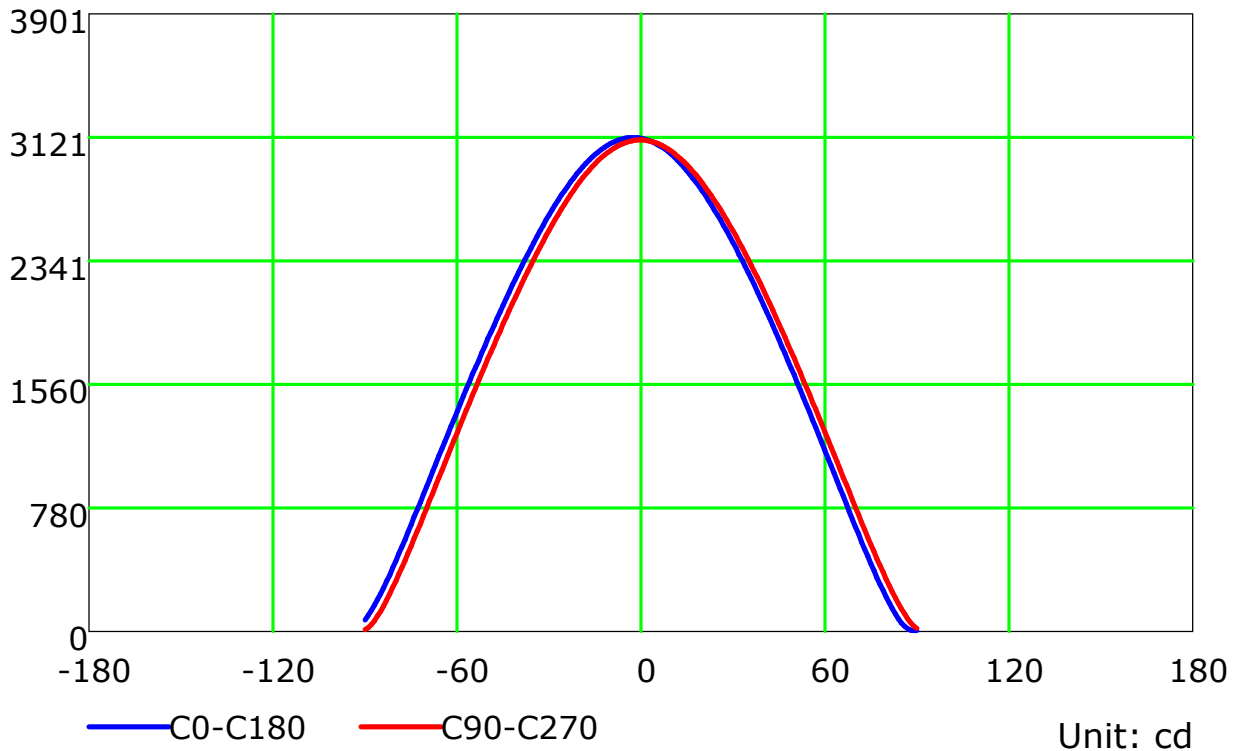
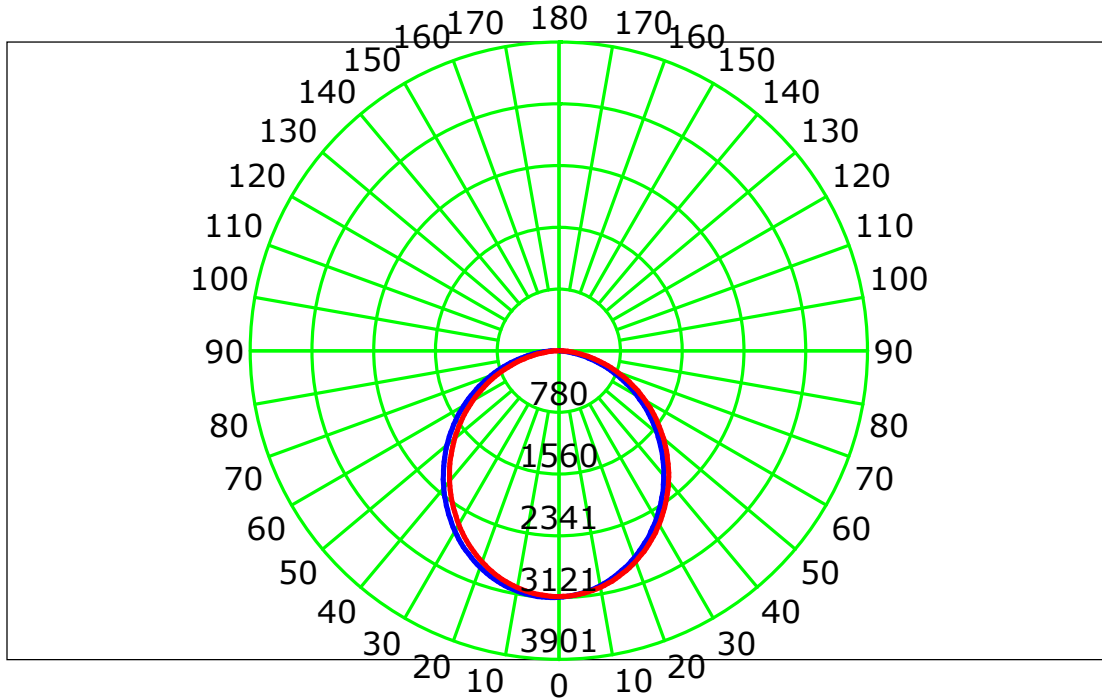
Temperature: 25.8

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25.8

Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0

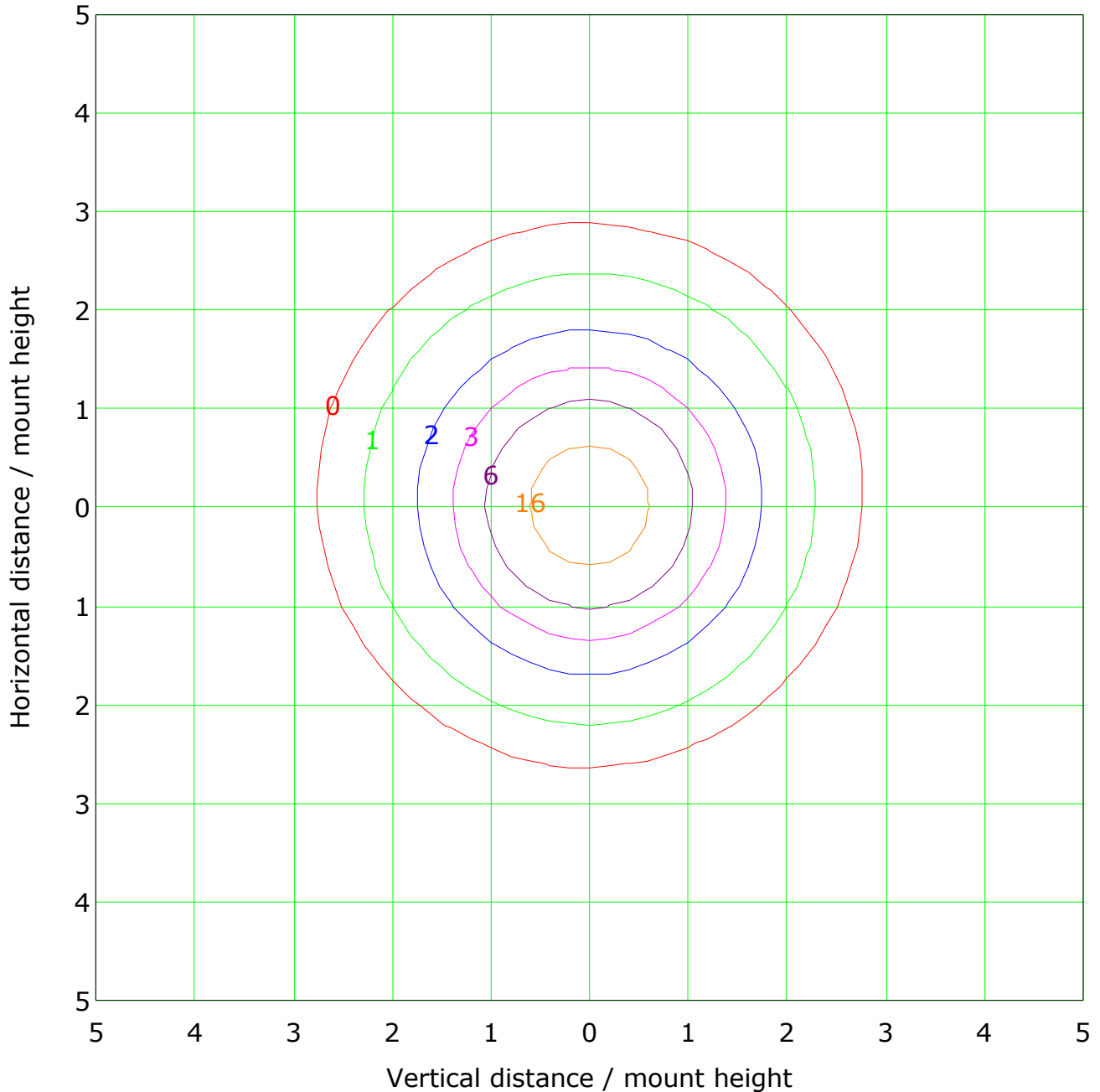
Test Device: LSG-1700B

Distance: 11.700 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 31.2 lx

(1%): 0.3 lx (2%): 0.6 lx

(5%): 1.6 lx (10%): 6.2 lx

(20%): 6.2 lx (100%): 31.2 lx

C Plane (°): 0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C
 Temperature: 25.8

Operator: Cristian Herrera Arismendy

Gamma Plane (°): 0.0-90.0: 1.0

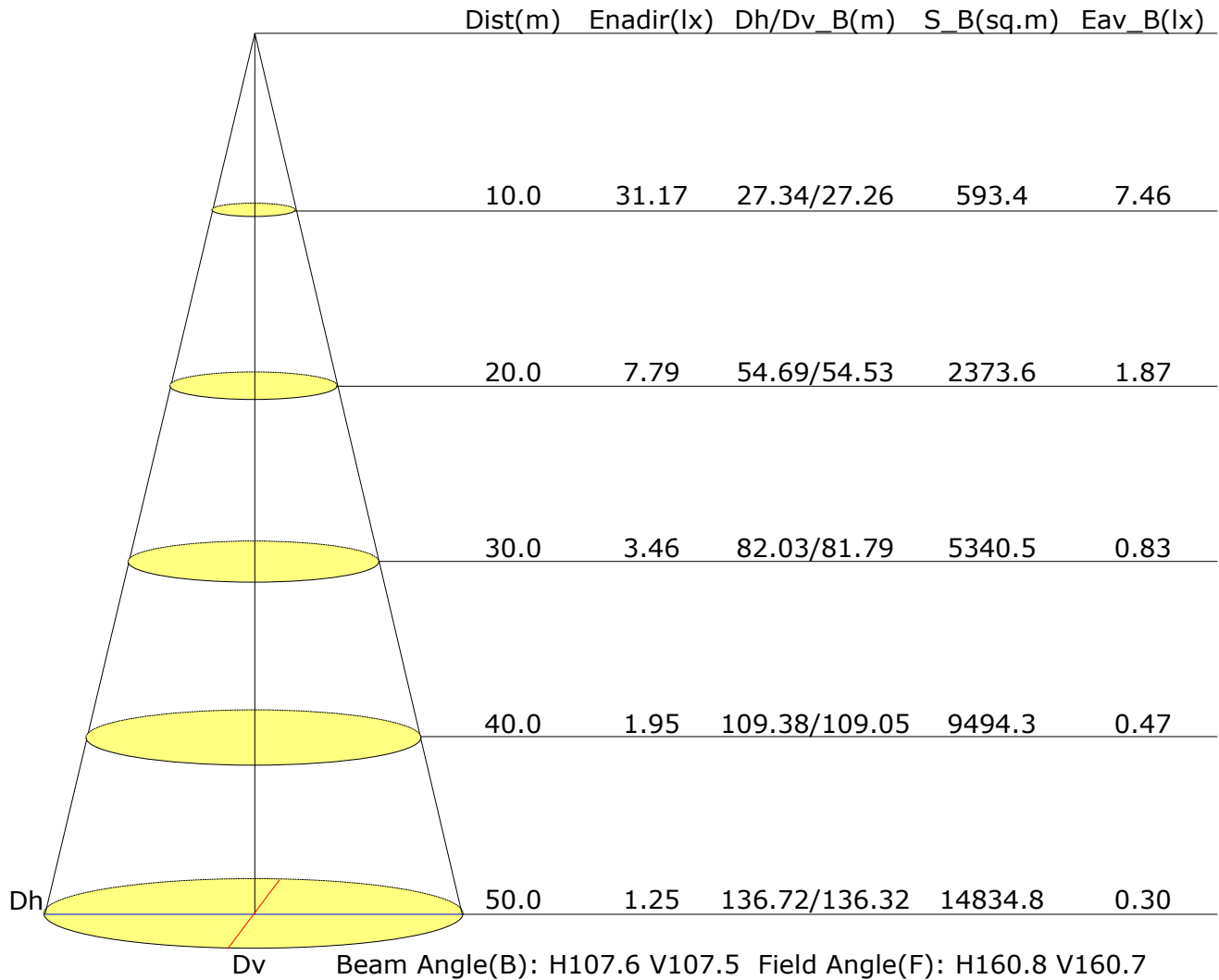
Test Device: LSG-1700B¹ lx

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: 25.8

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	13.6	15.0	13.9	15.3	15.5	14.0	15.4	14.3	15.6	15.9
3H	15.0	16.3	15.3	16.5	16.8	15.5	16.8	15.8	17.0	17.3
4H	15.5	16.7	15.8	17.0	17.3	16.1	17.3	16.5	17.6	17.9
6H	15.8	16.9	16.1	17.2	17.5	16.6	17.7	16.9	18.0	18.3
8H	15.8	16.9	16.2	17.2	17.5	16.7	17.8	17.1	18.1	18.4
12H	15.8	16.8	16.2	17.2	17.5	16.8	17.8	17.2	18.1	18.5
X=4H Y=2H	14.3	15.5	14.6	15.8	16.1	14.6	15.7	14.9	16.0	16.3
3H	15.8	16.8	16.2	17.2	17.5	16.2	17.3	16.6	17.6	18.0
4H	16.4	17.3	16.8	17.7	18.0	17.0	17.9	17.4	18.2	18.6
6H	16.8	17.6	17.2	18.0	18.4	17.5	18.3	17.9	18.7	19.1
8H	16.8	17.6	17.3	18.0	18.4	17.7	18.5	18.1	18.9	19.3
12H	16.9	17.5	17.3	18.0	18.4	17.8	18.5	18.3	18.9	19.4
X=8H Y=4H	16.6	17.4	17.1	17.8	18.2	17.2	17.9	17.6	18.3	18.7
6H	17.1	17.7	17.6	18.2	18.6	17.8	18.4	18.3	18.9	19.3
8H	17.2	17.8	17.7	18.2	18.7	18.1	18.6	18.5	19.1	19.5
12H	17.3	17.8	17.8	18.2	18.7	18.2	18.7	18.7	19.2	19.7
X=12H Y=4H	16.7	17.3	17.1	17.8	18.2	17.2	17.8	17.6	18.3	18.7
6H	17.2	17.7	17.6	18.1	18.6	17.8	18.4	18.3	18.8	19.3
8H	17.3	17.8	17.8	18.2	18.7	18.1	18.6	18.6	19.0	19.5
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.3/-0.4				
S=2.0H	+0.6/-1.0					+0.6/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 8450lm ($8\log(F/F_0) = 7.4$).

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25.8

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	3108.6	3.0	3.0	0.04	0.04
1.0-2.0	3107.2	8.9	11.9	0.11	0.14
2.0-3.0	3104.4	14.8	26.7	0.18	0.32
3.0-4.0	3100.2	20.8	47.5	0.25	0.56
4.0-5.0	3094.8	26.6	74.1	0.32	0.88
5.0-6.0	3087.8	32.5	106.6	0.38	1.26
6.0-7.0	3079.5	38.2	144.8	0.45	1.71
7.0-8.0	3070.2	43.9	188.8	0.52	2.23
8.0-9.0	3059.3	49.6	238.3	0.59	2.82
9.0-10.0	3047.2	55.2	293.5	0.65	3.47
10.0-11.0	3033.4	60.6	354.1	0.72	4.19
11.0-12.0	3018.2	66.0	420.1	0.78	4.97
12.0-13.0	3002.5	71.3	491.4	0.84	5.81
13.0-14.0	2984.8	76.4	567.8	0.90	6.72
14.0-15.0	2965.8	81.4	649.2	0.96	7.68
15.0-16.0	2945.8	86.3	735.5	1.02	8.70
16.0-17.0	2924.5	91.1	826.6	1.08	9.78
17.0-18.0	2902.7	95.7	922.3	1.13	10.91
18.0-19.0	2879.1	100.2	1022.5	1.19	12.10
19.0-20.0	2854.3	104.5	1127.0	1.24	13.34
20.0-21.0	2829.4	108.7	1235.7	1.29	14.62
21.0-22.0	2802.4	112.6	1348.3	1.33	15.96
22.0-23.0	2774.6	116.4	1464.7	1.38	17.33
23.0-24.0	2745.9	120.1	1584.8	1.42	18.75
24.0-25.0	2716.0	123.5	1708.3	1.46	20.22
25.0-26.0	2686.2	126.8	1835.1	1.50	21.72
26.0-27.0	2654.7	129.9	1965.0	1.54	23.25
27.0-28.0	2622.3	132.8	2097.8	1.57	24.82
28.0-29.0	2590.1	135.5	2233.3	1.60	26.43
29.0-30.0	2555.8	138.0	2371.4	1.63	28.06
30.0-31.0	2521.1	140.3	2511.7	1.66	29.72
31.0-32.0	2485.3	142.4	2654.1	1.69	31.41
32.0-33.0	2448.8	144.3	2798.4	1.71	33.11
33.0-34.0	2413.2	146.1	2944.4	1.73	34.84
34.0-35.0	2375.4	147.5	3092.0	1.75	36.59
35.0-36.0	2337.0	148.8	3240.8	1.76	38.35

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25.8

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	2298.7	149.9	3390.7	1.77	40.12
37.0-38.0	2259.3	150.8	3541.6	1.78	41.91
38.0-39.0	2220.1	151.6	3693.1	1.79	43.70
39.0-40.0	2179.4	152.0	3845.1	1.80	45.50
40.0-41.0	2138.1	152.3	3997.4	1.80	47.30
41.0-42.0	2097.8	152.4	4149.8	1.80	49.11
42.0-43.0	2055.2	152.3	4302.1	1.80	50.91
43.0-44.0	2012.3	151.9	4454.0	1.80	52.71
44.0-45.0	1970.0	151.4	4605.4	1.79	54.50
45.0-46.0	1926.4	150.7	4756.1	1.78	56.28
46.0-47.0	1883.1	149.8	4905.9	1.77	58.05
47.0-48.0	1838.5	148.6	5054.5	1.76	59.81
48.0-49.0	1793.6	147.3	5201.8	1.74	61.56
49.0-50.0	1750.3	146.0	5347.8	1.73	63.28
50.0-51.0	1704.9	144.3	5492.1	1.71	64.99
51.0-52.0	1659.2	142.4	5634.5	1.69	66.68
52.0-53.0	1614.1	140.4	5774.9	1.66	68.34
53.0-54.0	1567.7	138.2	5913.1	1.64	69.97
54.0-55.0	1521.9	135.9	6048.9	1.61	71.58
55.0-56.0	1474.9	133.3	6182.2	1.58	73.16
56.0-57.0	1428.0	130.6	6312.8	1.55	74.70
57.0-58.0	1383.0	127.9	6440.7	1.51	76.22
58.0-59.0	1335.2	124.8	6565.6	1.48	77.69
59.0-60.0	1287.1	121.6	6687.2	1.44	79.13
60.0-61.0	1239.6	118.3	6805.5	1.40	80.53
61.0-62.0	1191.4	114.8	6920.3	1.36	81.89
62.0-63.0	1144.7	111.3	7031.7	1.32	83.21
63.0-64.0	1096.1	107.6	7139.2	1.27	84.48
64.0-65.0	1047.6	103.7	7242.9	1.23	85.71
65.0-66.0	1000.6	99.8	7342.8	1.18	86.89
66.0-67.0	952.0	95.7	7438.5	1.13	88.02
67.0-68.0	904.1	91.6	7530.1	1.08	89.11
68.0-69.0	855.8	87.3	7617.4	1.03	90.14
69.0-70.0	807.2	82.9	7700.3	0.98	91.12
70.0-71.0	760.8	78.6	7779.0	0.93	92.05
71.0-72.0	712.8	74.1	7853.1	0.88	92.93

C Plane (°):0.0-360.0: 10.0

Test Lab:

Test Type: TYPE C

Temperature: 25.8

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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	665.2	69.6	7922.7	0.82	93.75
73.0-74.0	619.6	65.1	7987.8	0.77	94.53
74.0-75.0	572.3	60.5	8048.3	0.72	95.24
75.0-76.0	526.5	55.9	8104.2	0.66	95.90
76.0-77.0	480.9	51.3	8155.5	0.61	96.51
77.0-78.0	435.7	46.6	8202.1	0.55	97.06
78.0-79.0	393.4	42.3	8244.4	0.50	97.56
79.0-80.0	350.4	37.8	8282.2	0.45	98.01
80.0-81.0	308.5	33.4	8315.6	0.39	98.40
81.0-82.0	268.8	29.2	8344.7	0.34	98.75
82.0-83.0	229.7	25.0	8369.7	0.30	99.04
83.0-84.0	193.1	21.0	8390.7	0.25	99.29
84.0-85.0	158.1	17.3	8408.0	0.20	99.50
85.0-86.0	125.9	13.8	8421.7	0.16	99.66
86.0-87.0	98.2	10.7	8432.5	0.13	99.79
87.0-88.0	73.3	8.0	8440.5	0.10	99.88
88.0-89.0	53.0	5.8	8446.3	0.07	99.95
89.0-90.0	37.8	4.1	8450.5	0.05	100.00

C Plane (°):0.0-360.0: 10.0
Test Lab:
Test Type: TYPE C
Temperature: 25.8
Operator: Cristian Herrera Arismendy

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