

Report No.: MSL-33

Test Time: 2019-03-05 12:18

Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Panel 30x120 40W Epistar

Number of Lamps: 1

Luminous Length (mm): 1145

Luminous Width (mm): 245

Luminous Height (mm): 0

Voltage: 120.1 V

Current: 0.332 A

Power: 39.71 W

Power Factor: 0.993

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 3586.3 lm

Measurement Flux: 3586.3 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 163.0, 162.0, 162.5, 162.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 113.4, 113.0, 113.1, 113.1

Luminaire Efficacy Rating (LER): 90.36

Central Intensity: 1244.33 cd

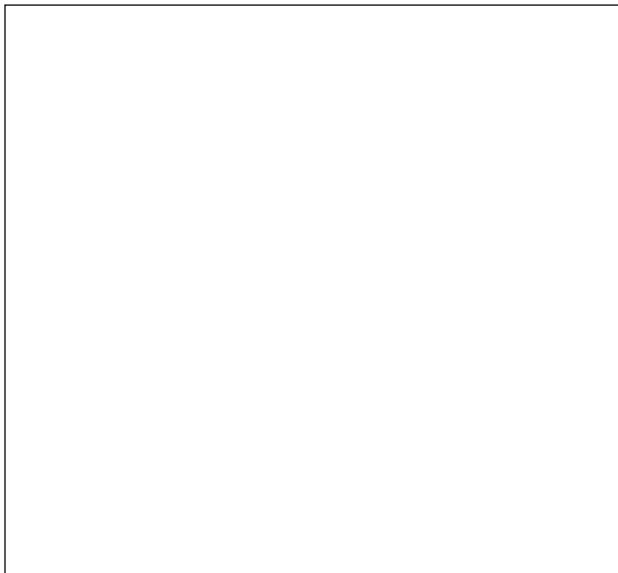
Max. Intensity: 1245.45 cd

Pos of Max. Intensity: H210 V1

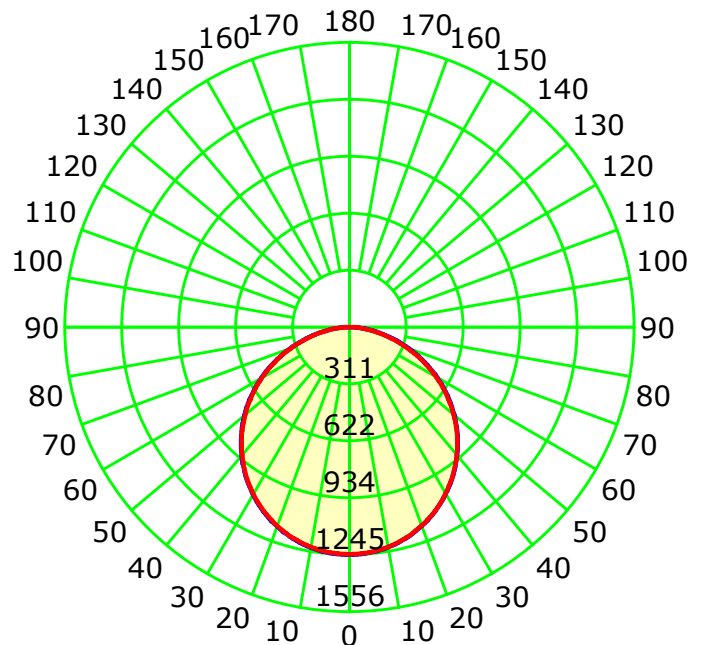
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.26

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: 11.703 m — C90-C270

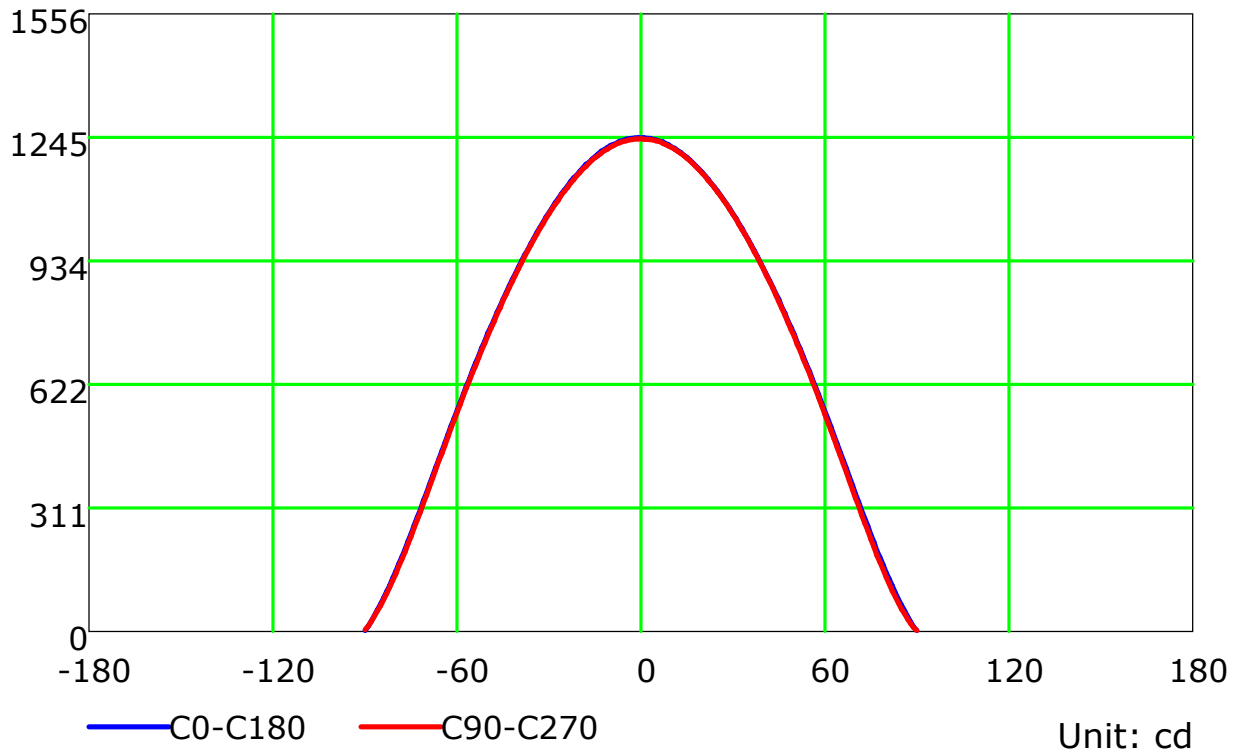
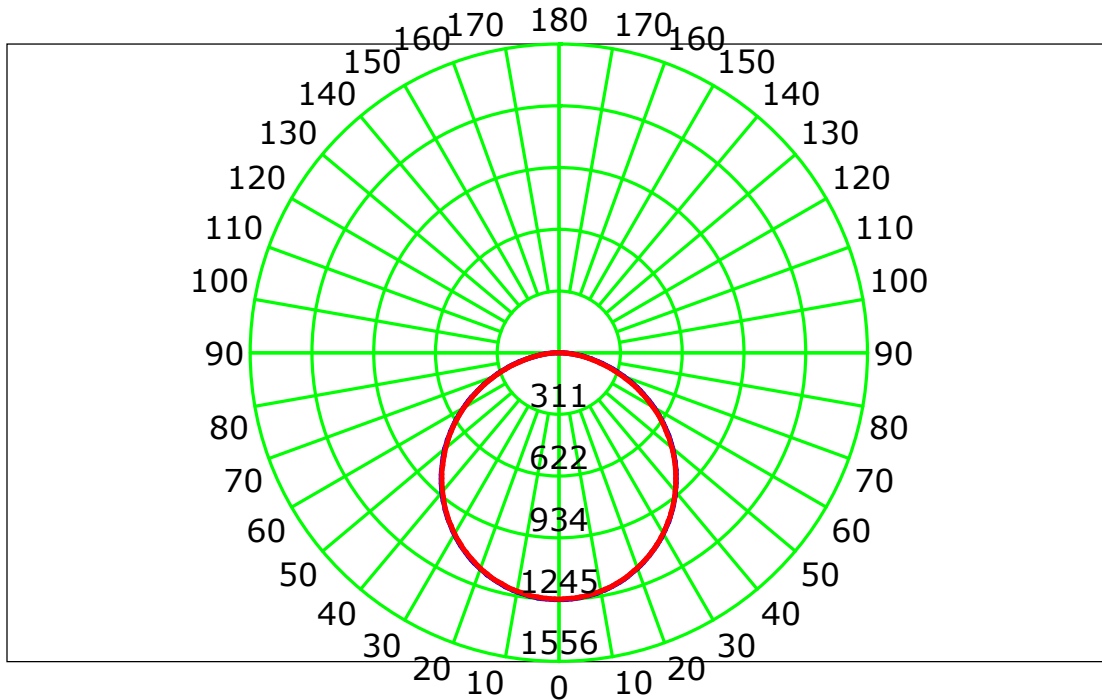
Temperature: 25

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

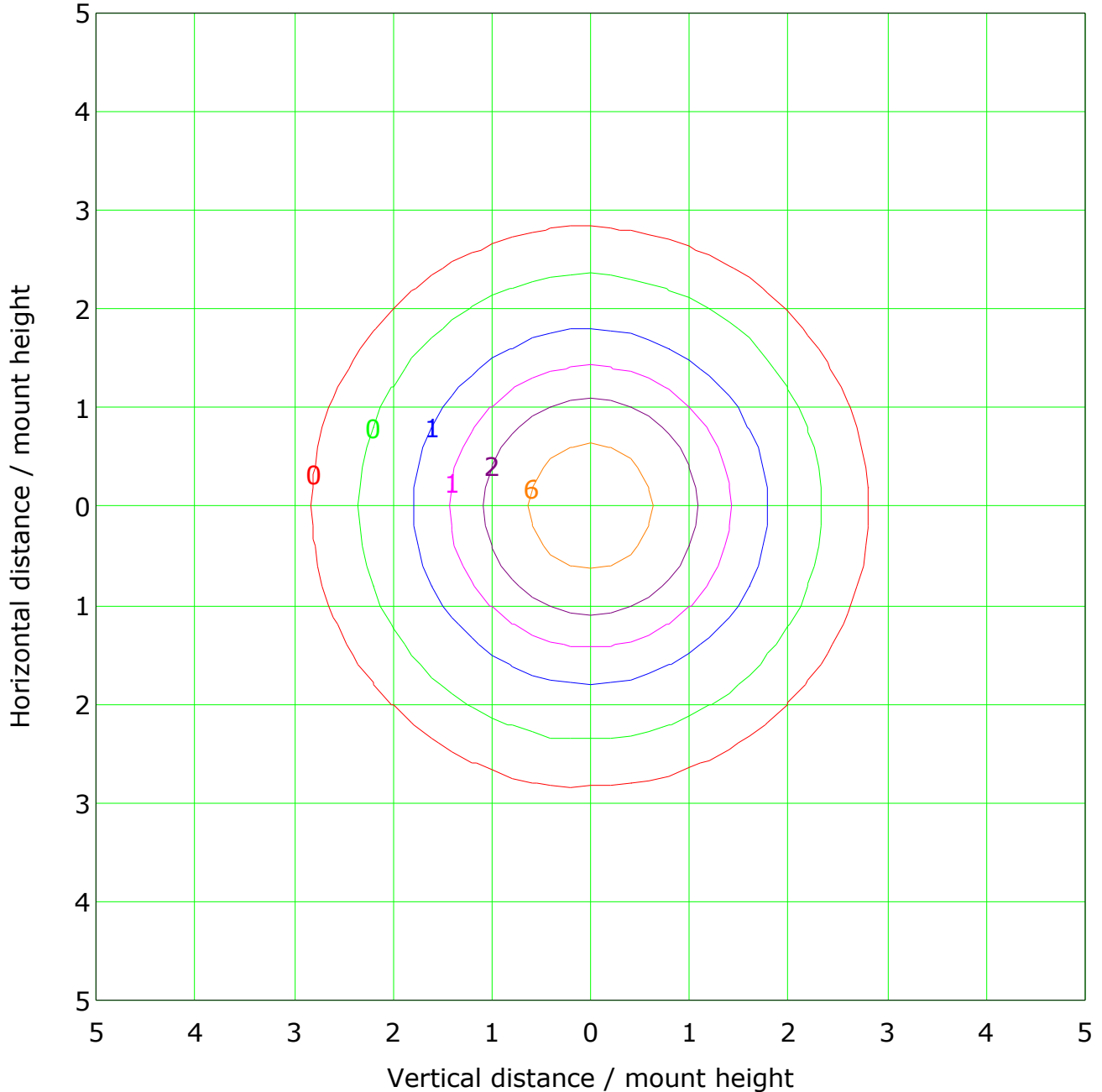
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.703 m
 Humidity:
 Inspector:

IsoLux Plot



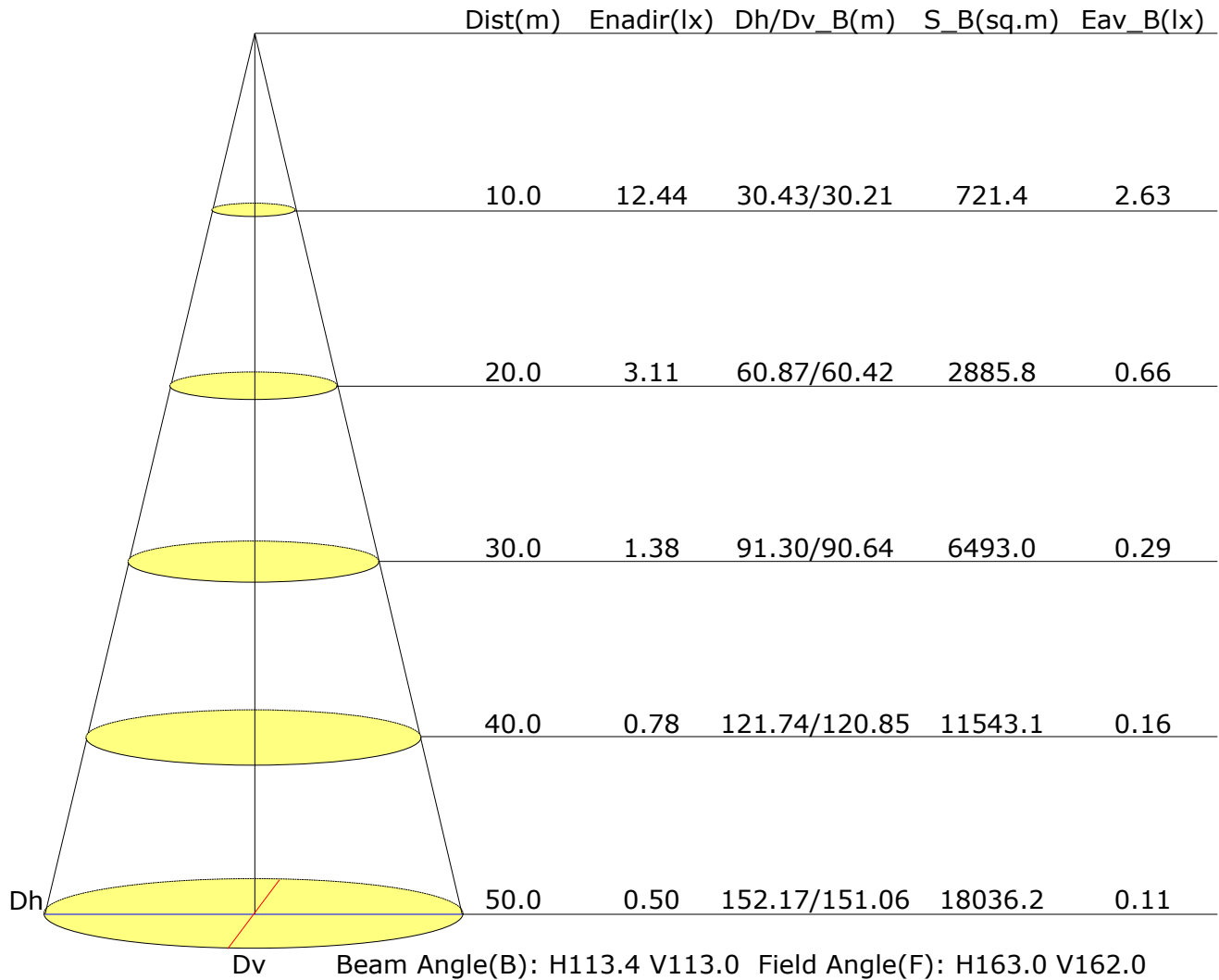
Mounting Height: 10.0m Max Lux(100%): 12.5 lx

— (1%): 0.1 lx	— (2%): 0.2 lx
— (5%): 0.6 lx	— (10%): 1.2 lx

C Plane (°): 0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25
 Operator: Cristian Herrera Arismendy

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: LSG-1700B IX
 Distance: 11.703 m
 Humidity:
 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	1243.0	1.2	1.2	0.03	0.03
1.0-2.0	1242.5	3.6	4.8	0.10	0.13
2.0-3.0	1241.6	5.9	10.7	0.17	0.30
3.0-4.0	1240.4	8.3	19.0	0.23	0.53
4.0-5.0	1238.8	10.7	29.7	0.30	0.83
5.0-6.0	1236.6	13.0	42.7	0.36	1.19
6.0-7.0	1233.9	15.3	58.0	0.43	1.62
7.0-8.0	1230.9	17.6	75.6	0.49	2.11
8.0-9.0	1227.4	19.9	95.5	0.55	2.66
9.0-10.0	1223.5	22.1	117.6	0.62	3.28
10.0-11.0	1219.1	24.4	142.0	0.68	3.96
11.0-12.0	1214.4	26.6	168.5	0.74	4.70
12.0-13.0	1209.4	28.7	197.2	0.80	5.50
13.0-14.0	1203.7	30.8	228.1	0.86	6.36
14.0-15.0	1197.6	32.9	260.9	0.92	7.28
15.0-16.0	1191.2	34.9	295.9	0.97	8.25
16.0-17.0	1184.2	36.9	332.7	1.03	9.28
17.0-18.0	1177.0	38.8	371.5	1.08	10.36
18.0-19.0	1169.3	40.7	412.2	1.13	11.49
19.0-20.0	1161.2	42.5	454.7	1.19	12.68
20.0-21.0	1153.0	44.3	499.0	1.23	13.91
21.0-22.0	1144.0	46.0	545.0	1.28	15.20
22.0-23.0	1134.7	47.6	592.6	1.33	16.52
23.0-24.0	1125.0	49.2	641.8	1.37	17.90
24.0-25.0	1115.0	50.7	692.5	1.41	19.31
25.0-26.0	1104.9	52.2	744.7	1.45	20.76
26.0-27.0	1093.9	53.5	798.2	1.49	22.26
27.0-28.0	1082.7	54.8	853.0	1.53	23.79
28.0-29.0	1071.6	56.1	909.1	1.56	25.35
29.0-30.0	1059.6	57.2	966.3	1.60	26.94
30.0-31.0	1047.4	58.3	1024.6	1.63	28.57
31.0-32.0	1034.7	59.3	1083.9	1.65	30.22
32.0-33.0	1021.7	60.2	1144.1	1.68	31.90
33.0-34.0	1009.0	61.1	1205.2	1.70	33.61
34.0-35.0	995.3	61.8	1267.0	1.72	35.33
35.0-36.0	981.2	62.5	1329.5	1.74	37.07

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 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	967.1	63.1	1392.6	1.76	38.83
37.0-38.0	952.5	63.6	1456.2	1.77	40.60
38.0-39.0	937.9	64.0	1520.2	1.79	42.39
39.0-40.0	922.7	64.4	1584.5	1.79	44.18
40.0-41.0	907.1	64.6	1649.1	1.80	45.98
41.0-42.0	891.9	64.8	1713.9	1.81	47.79
42.0-43.0	875.7	64.9	1778.8	1.81	49.60
43.0-44.0	859.2	64.9	1843.7	1.81	51.41
44.0-45.0	842.9	64.8	1908.5	1.81	53.22
45.0-46.0	825.9	64.6	1973.1	1.80	55.02
46.0-47.0	808.9	64.3	2037.4	1.79	56.81
47.0-48.0	791.3	64.0	2101.4	1.78	58.60
48.0-49.0	773.4	63.5	2164.9	1.77	60.37
49.0-50.0	755.9	63.0	2227.9	1.76	62.12
50.0-51.0	737.6	62.4	2290.4	1.74	63.86
51.0-52.0	719.0	61.7	2352.1	1.72	65.59
52.0-53.0	700.6	60.9	2413.0	1.70	67.28
53.0-54.0	681.5	60.1	2473.1	1.68	68.96
54.0-55.0	662.5	59.2	2532.2	1.65	70.61
55.0-56.0	643.0	58.1	2590.4	1.62	72.23
56.0-57.0	623.2	57.0	2647.3	1.59	73.82
57.0-58.0	604.1	55.9	2703.2	1.56	75.38
58.0-59.0	583.9	54.6	2757.8	1.52	76.90
59.0-60.0	563.5	53.2	2811.0	1.48	78.38
60.0-61.0	543.2	51.8	2862.9	1.45	79.83
61.0-62.0	522.6	50.4	2913.2	1.40	81.23
62.0-63.0	502.3	48.9	2962.1	1.36	82.60
63.0-64.0	481.3	47.2	3009.3	1.32	83.91
64.0-65.0	460.1	45.5	3054.9	1.27	85.18
65.0-66.0	439.7	43.9	3098.8	1.22	86.41
66.0-67.0	418.5	42.1	3140.8	1.17	87.58
67.0-68.0	397.3	40.3	3181.1	1.12	88.70
68.0-69.0	376.1	38.4	3219.5	1.07	89.77
69.0-70.0	354.9	36.5	3255.9	1.02	90.79
70.0-71.0	334.3	34.6	3290.5	0.96	91.75
71.0-72.0	313.4	32.6	3323.1	0.91	92.66

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.703 m
 Humidity:
 Inspector:



STAND ILUMINACIONES

<http://www.standiluminaciones.com>

Tel: +57-1 7440701

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	292.5	30.6	3353.7	0.85	93.51
73.0-74.0	272.4	28.6	3382.3	0.80	94.31
74.0-75.0	251.9	26.6	3408.9	0.74	95.05
75.0-76.0	231.8	24.6	3433.5	0.69	95.74
76.0-77.0	211.9	22.6	3456.1	0.63	96.37
77.0-78.0	192.3	20.6	3476.7	0.57	96.94
78.0-79.0	174.0	18.7	3495.4	0.52	97.47
79.0-80.0	155.5	16.8	3512.2	0.47	97.93
80.0-81.0	137.5	14.9	3527.0	0.41	98.35
81.0-82.0	120.3	13.1	3540.1	0.36	98.71
82.0-83.0	103.6	11.3	3551.4	0.31	99.03
83.0-84.0	87.8	9.6	3560.9	0.27	99.29
84.0-85.0	72.4	7.9	3568.8	0.22	99.51
85.0-86.0	57.6	6.3	3575.1	0.18	99.69
86.0-87.0	44.2	4.8	3580.0	0.13	99.82
87.0-88.0	30.9	3.4	3583.3	0.09	99.92
88.0-89.0	18.4	2.0	3585.4	0.06	99.97
89.0-90.0	8.3	0.9	3586.3	0.03	100.00

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 25
 Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0
 Test Device: LSG-1700B
 Distance: 11.703 m
 Humidity:
 Inspector: