

Report No.: MSL-151

Test Time: 2019-06-20 15:42

Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Bala Stil Led Flat 7" 16W

Luminous Length (mm): 155 Diametro

Luminous Width (mm): 155 Diametro

Voltage: 120.1 V

Current: 0.134 A

Power: 16.10 W

Power Factor: 0.993

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1597.9 lm

Measurement Flux: 1597.9 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 161.7, 162.2, 161.9, 162.1

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 109.5, 109.6, 109.6, 109.5

Luminaire Efficacy Rating (LER): 99.30

Central Intensity: 574.68 cd

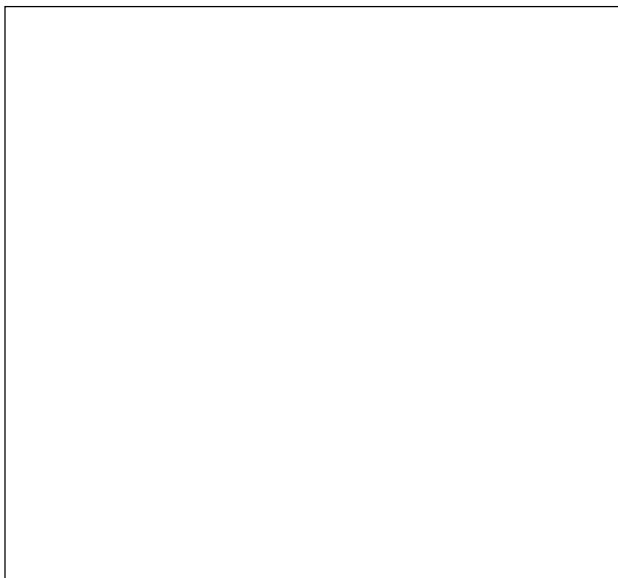
Max. Intensity: 576.08 cd

Pos of Max. Intensity: H240 V2

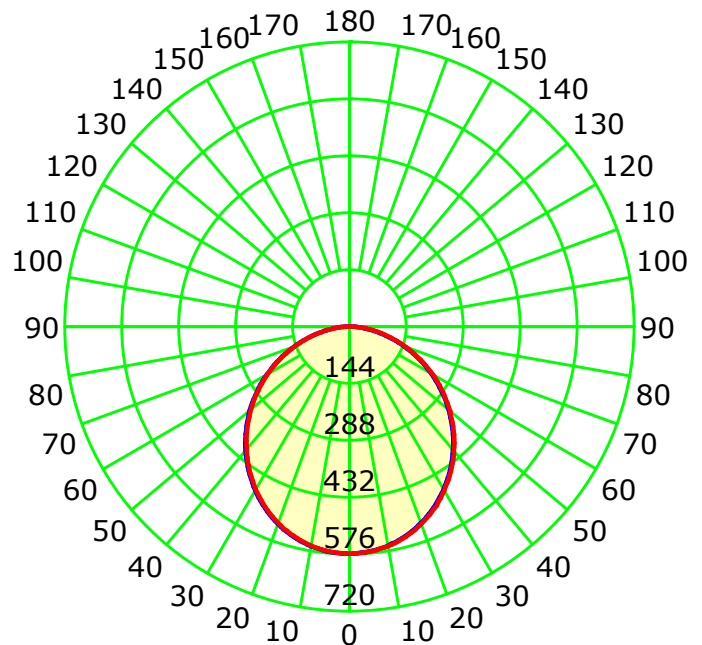
S/MH(C0/C180): 1.23

S/MH(C90/C270): 1.23

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

Operator: Cristian Herrera Arismendy

Gamma Plane (°):0.0-90.0:1.0

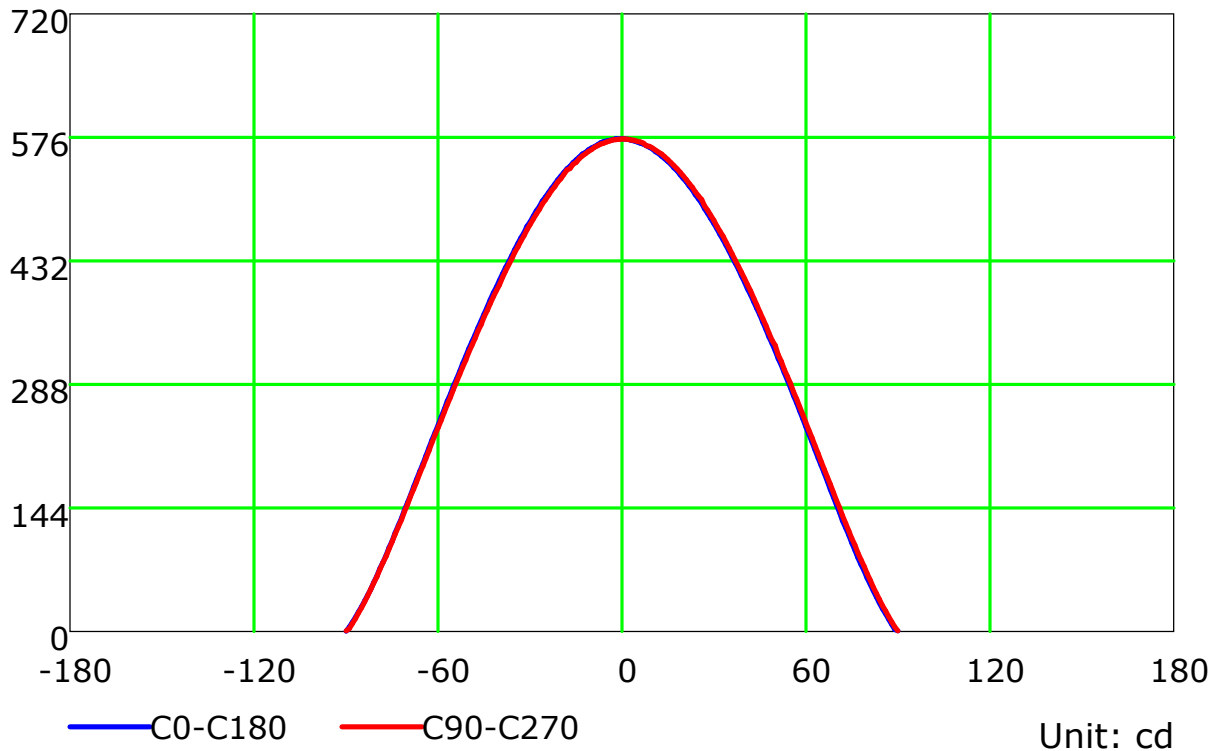
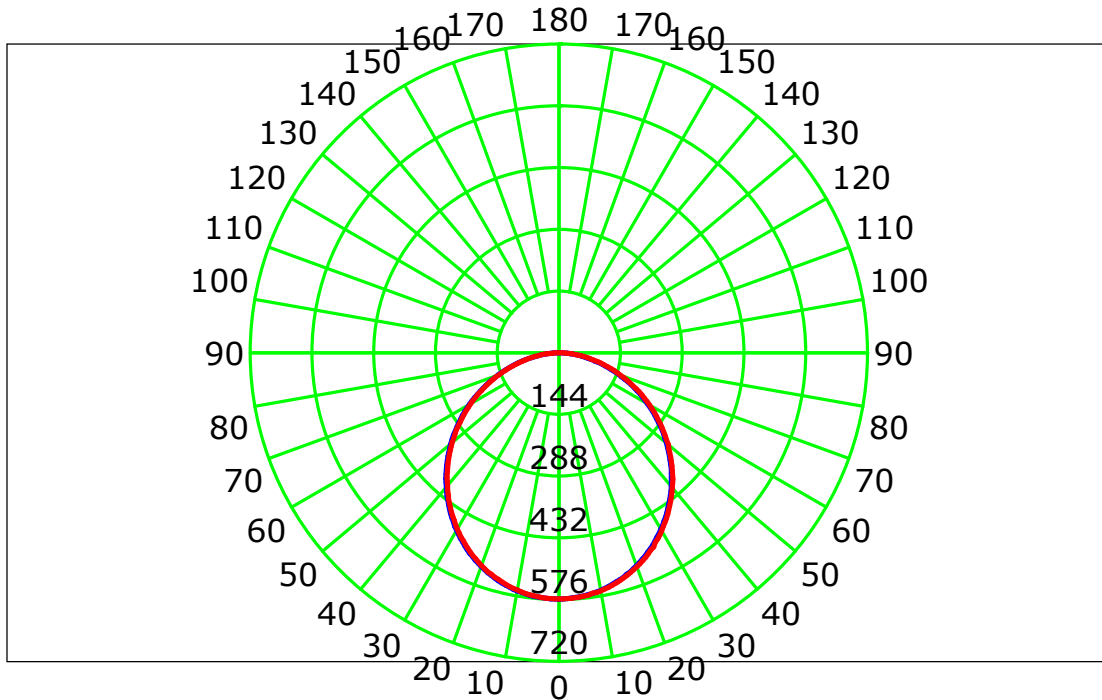
Test Device: LSG-1700B — C90-C270

Distance: 11.700 m

Humidity:

Inspector:

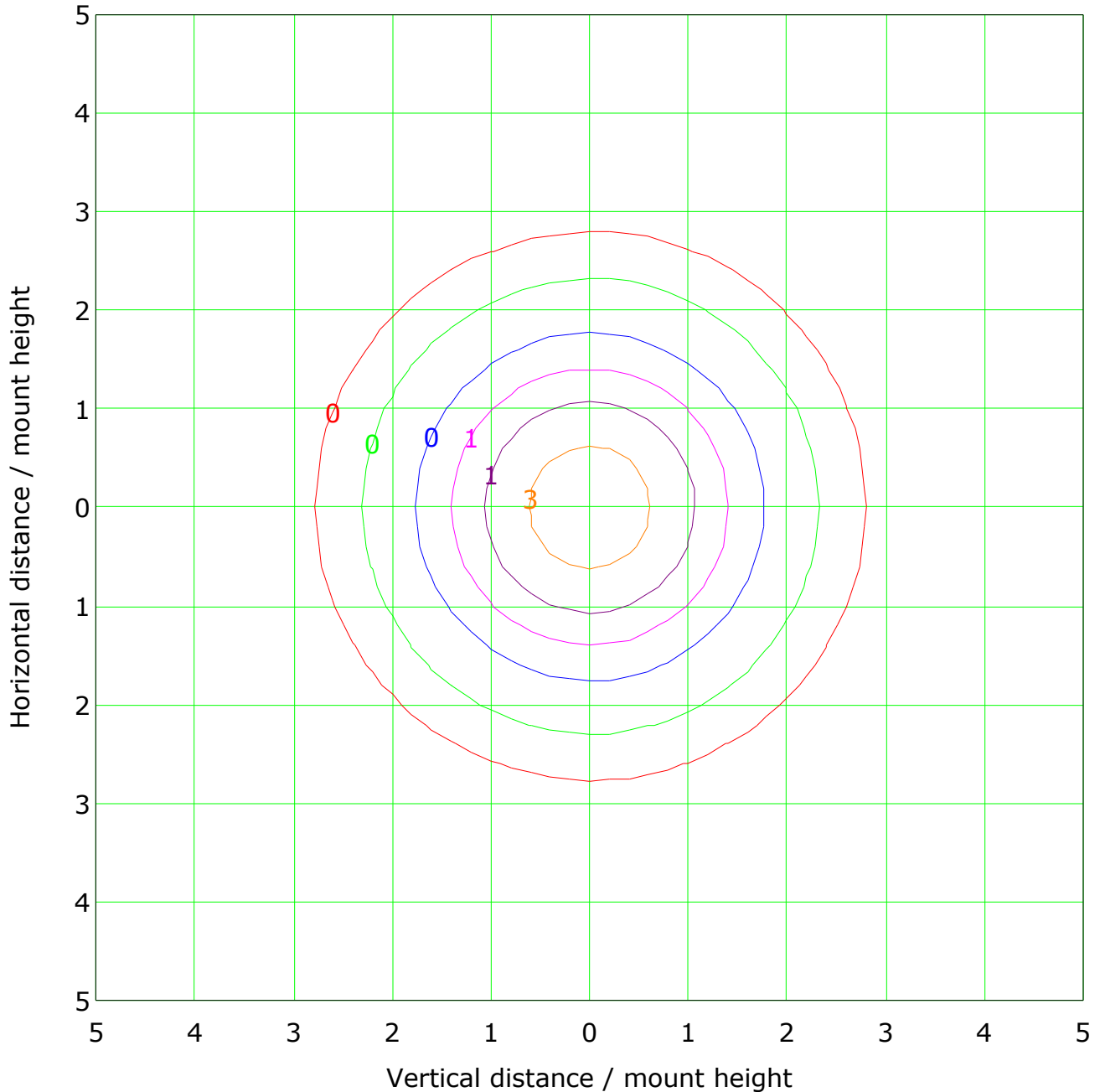
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
 Test Lab: 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: 11.700 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 5.8 lx

— (1%): 0.1 lx

— (2%): 0.1 lx

— (5%): 0.3 lx

— (10%): 1.2 lx

C Plane (°):0.0-360.0: 10.0, \

Gamma Plane (°):0.0-90.0:1.0

Test Lab: LABORATORIO STAND 1.2 lx

Test Device: LSG-1700B lx

Test Type: TYPE C (100%): 5.8 lx

Distance: 11.700 m

Temperature: 25

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

Zonal Lumen

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	574.3	0.5	0.5	0.03	0.03
1.0-2.0	574.1	1.6	2.2	0.10	0.14
2.0-3.0	573.6	2.7	4.9	0.17	0.31
3.0-4.0	572.9	3.8	8.8	0.24	0.55
4.0-5.0	572.0	4.9	13.7	0.31	0.86
5.0-6.0	570.9	6.0	19.7	0.38	1.23
6.0-7.0	569.5	7.1	26.8	0.44	1.68
7.0-8.0	567.9	8.1	34.9	0.51	2.18
8.0-9.0	566.1	9.2	44.1	0.57	2.76
9.0-10.0	564.1	10.2	54.3	0.64	3.40
10.0-11.0	561.8	11.2	65.5	0.70	4.10
11.0-12.0	559.3	12.2	77.7	0.77	4.86
12.0-13.0	556.7	13.2	90.9	0.83	5.69
13.0-14.0	553.7	14.2	105.1	0.89	6.58
14.0-15.0	550.6	15.1	120.2	0.95	7.52
15.0-16.0	547.3	16.0	136.3	1.00	8.53
16.0-17.0	543.7	16.9	153.2	1.06	9.59
17.0-18.0	540.0	17.8	171.0	1.11	10.70
18.0-19.0	536.1	18.7	189.7	1.17	11.87
19.0-20.0	531.9	19.5	209.1	1.22	13.09
20.0-21.0	527.6	20.3	229.4	1.27	14.36
21.0-22.0	523.0	21.0	250.4	1.32	15.67
22.0-23.0	518.2	21.7	272.2	1.36	17.03
23.0-24.0	513.3	22.4	294.6	1.40	18.44
24.0-25.0	508.2	23.1	317.7	1.45	19.88
25.0-26.0	503.0	23.7	341.5	1.49	21.37
26.0-27.0	497.5	24.3	365.8	1.52	22.89
27.0-28.0	491.7	24.9	390.7	1.56	24.45
28.0-29.0	486.1	25.4	416.1	1.59	26.04
29.0-30.0	480.0	25.9	442.1	1.62	27.66
30.0-31.0	473.9	26.4	468.4	1.65	29.32
31.0-32.0	467.5	26.8	495.2	1.68	30.99
32.0-33.0	461.0	27.2	522.4	1.70	32.69
33.0-34.0	454.6	27.5	549.9	1.72	34.41
34.0-35.0	447.9	27.8	577.7	1.74	36.15
35.0-36.0	440.9	28.1	605.8	1.76	37.91

C Plane (°):0.0-360.0: 10.0
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 Test Type: TYPE C
 Temperature: 25
 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	434.0	28.3	634.1	1.77	39.68
37.0-38.0	426.8	28.5	662.6	1.78	41.47
38.0-39.0	419.6	28.6	691.2	1.79	43.26
39.0-40.0	412.1	28.7	720.0	1.80	45.06
40.0-41.0	404.6	28.8	748.8	1.80	46.86
41.0-42.0	397.3	28.9	777.7	1.81	48.67
42.0-43.0	389.5	28.9	806.5	1.81	50.47
43.0-44.0	381.6	28.8	835.3	1.80	52.28
44.0-45.0	373.7	28.7	864.1	1.80	54.07
45.0-46.0	365.6	28.6	892.7	1.79	55.86
46.0-47.0	357.6	28.4	921.1	1.78	57.64
47.0-48.0	349.2	28.2	949.3	1.77	59.41
48.0-49.0	340.9	28.0	977.3	1.75	61.16
49.0-50.0	332.8	27.7	1005.1	1.74	62.90
50.0-51.0	324.2	27.4	1032.5	1.72	64.62
51.0-52.0	315.6	27.1	1059.6	1.70	66.31
52.0-53.0	307.1	26.7	1086.3	1.67	67.98
53.0-54.0	298.3	26.3	1112.6	1.65	69.63
54.0-55.0	289.7	25.9	1138.5	1.62	71.25
55.0-56.0	280.8	25.4	1163.9	1.59	72.83
56.0-57.0	271.9	24.9	1188.7	1.56	74.39
57.0-58.0	263.3	24.4	1213.1	1.52	75.91
58.0-59.0	254.2	23.8	1236.8	1.49	77.40
59.0-60.0	245.1	23.2	1260.0	1.45	78.85
60.0-61.0	236.1	22.5	1282.5	1.41	80.26
61.0-62.0	227.0	21.9	1304.4	1.37	81.63
62.0-63.0	218.1	21.2	1325.6	1.33	82.96
63.0-64.0	208.9	20.5	1346.1	1.28	84.24
64.0-65.0	199.7	19.8	1365.9	1.24	85.48
65.0-66.0	190.8	19.0	1384.9	1.19	86.67
66.0-67.0	181.6	18.3	1403.2	1.14	87.81
67.0-68.0	172.5	17.5	1420.7	1.09	88.91
68.0-69.0	163.4	16.7	1437.3	1.04	89.95
69.0-70.0	154.3	15.8	1453.2	0.99	90.94
70.0-71.0	145.5	15.0	1468.2	0.94	91.88
71.0-72.0	136.5	14.2	1482.4	0.89	92.77

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