

Report No.: MSL-88

Test Time: 2019-04-03 10:30

Luminaire Property

Luminaire Manufacturer: Stand Iluminaciones S.A.S

Luminaire Category: Interior

Luminaire Description: Perfil STPL045-R 62.5CM 20W

Luminous Length (mm): 625

Luminous Width (mm): 45

Luminous Height (mm): 0

Voltage: 119.9 V

Current: 0.163 A

Power: 19.35 W

Power Factor: 0.985

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 1319.6 lm

Measurement Flux: 1319.6 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.6, 158.2, 157.9, 157.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 101.3, 105.3, 103.2, 103.2

Luminaire Efficacy Rating (LER): 68.25

Central Intensity: 513.13 cd

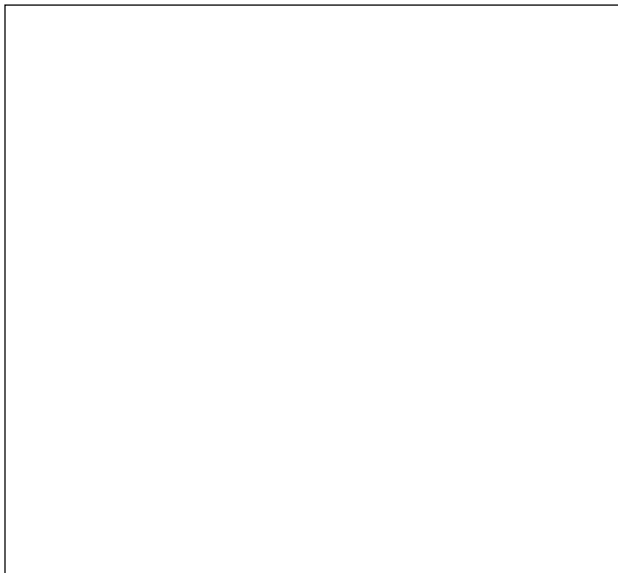
Max. Intensity: 513.2 cd

Pos of Max. Intensity: H50 V0

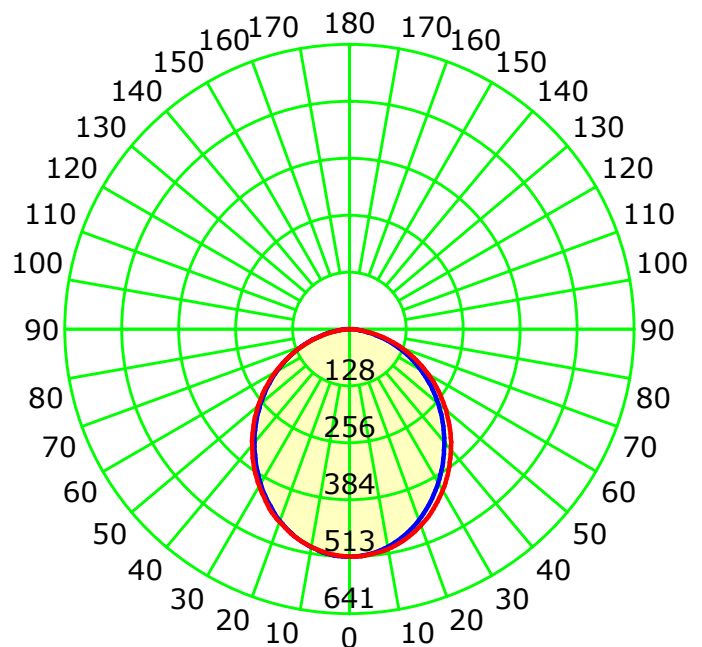
S/MH(C0/C180): 1.17

S/MH(C90/C270): 1.20

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: 11.700 m — C90-C270

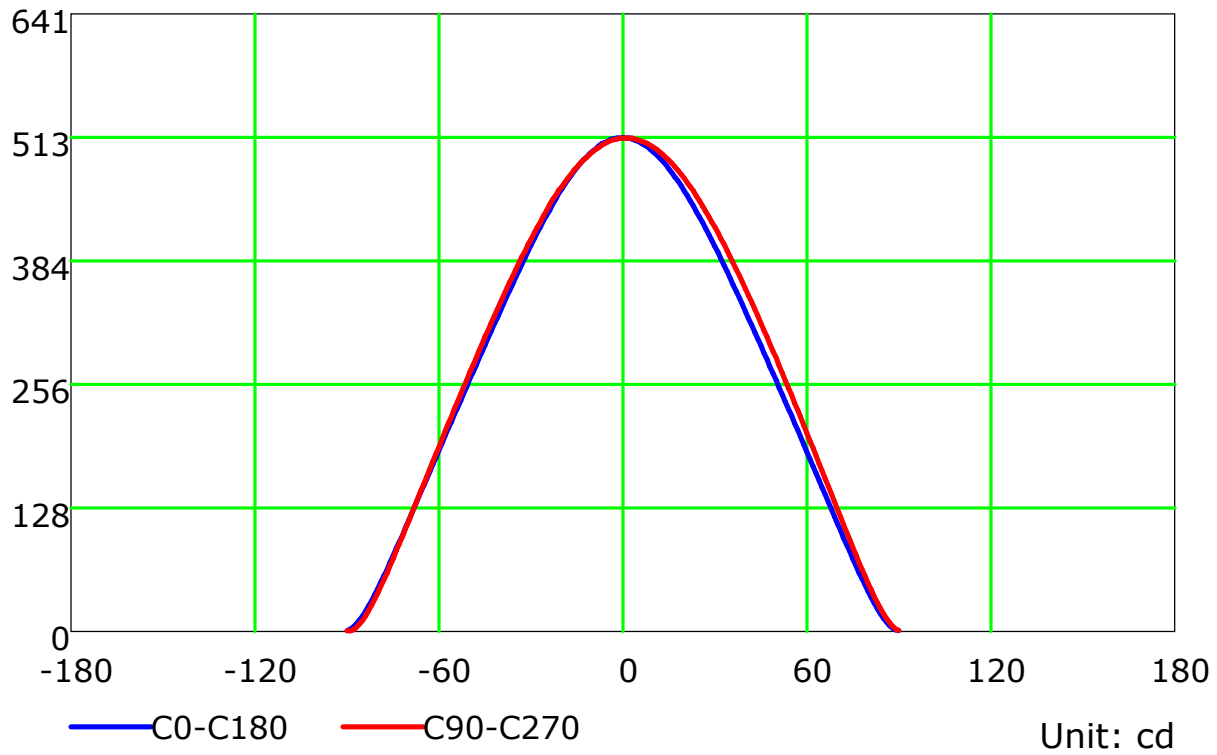
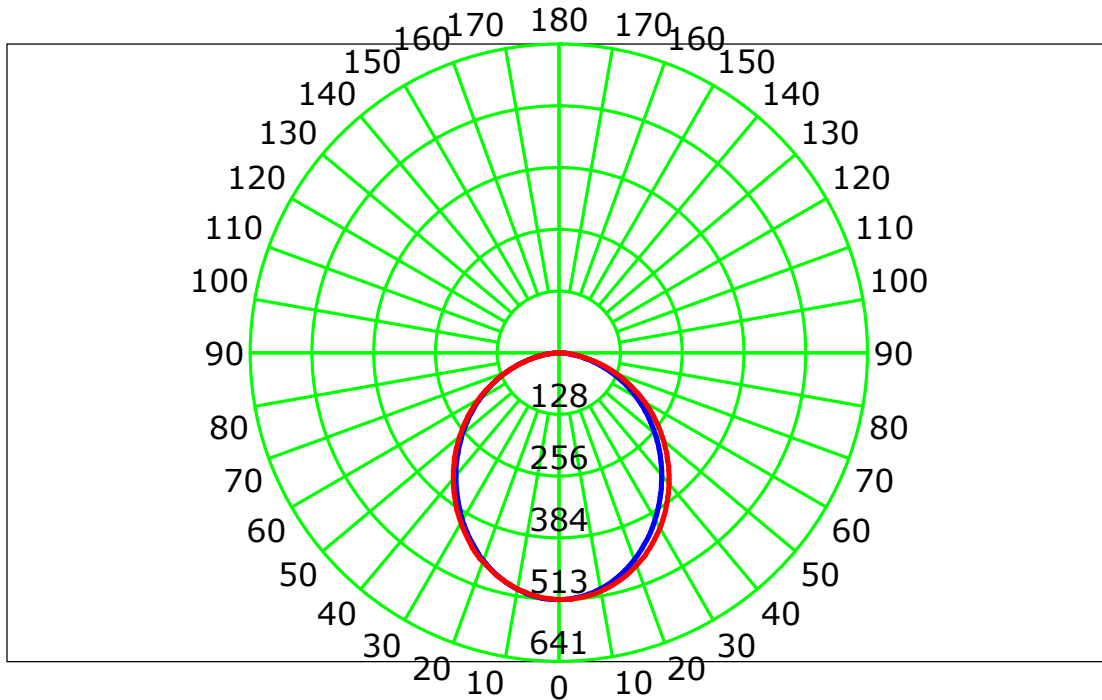
Temperature: 24.9

Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

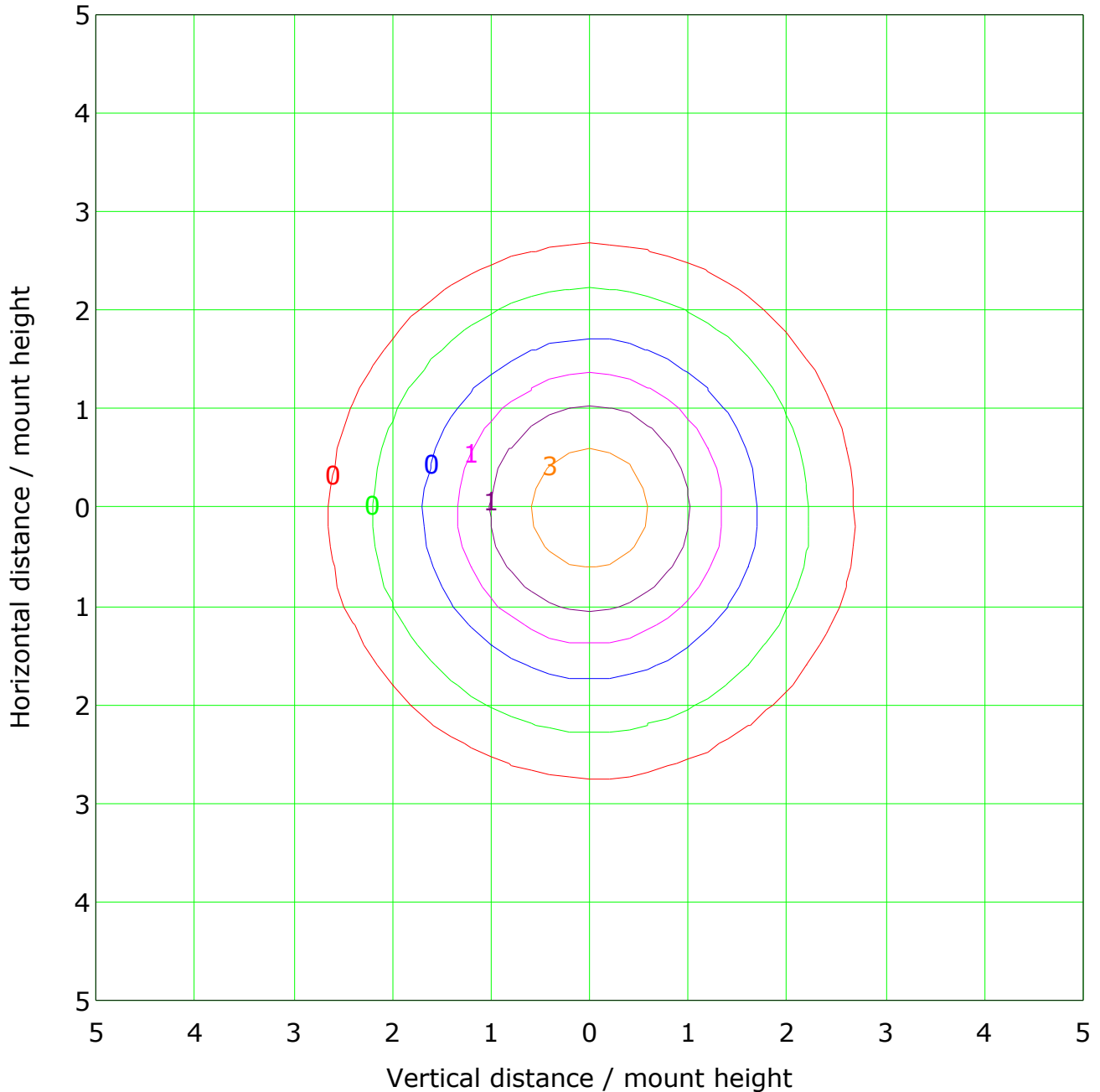
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 24.9
 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%): 5.1 lx

— (1%): 0.1 lx

— (2%): 0.1 lx

— (5%): 0.3 lx

— (10%): 1.0 lx

C Plane (°):0.0-360.0: 10.0, \

Gamma Plane (°):0.0-90.0:1.0

Test Lab: LABORATORIO STAND 1.0 lx

Test Device: LSG-1700B IX

Test Type: TYPE C (100%): 5.1 lx

Distance: 11.700 m

Temperature: 24.9

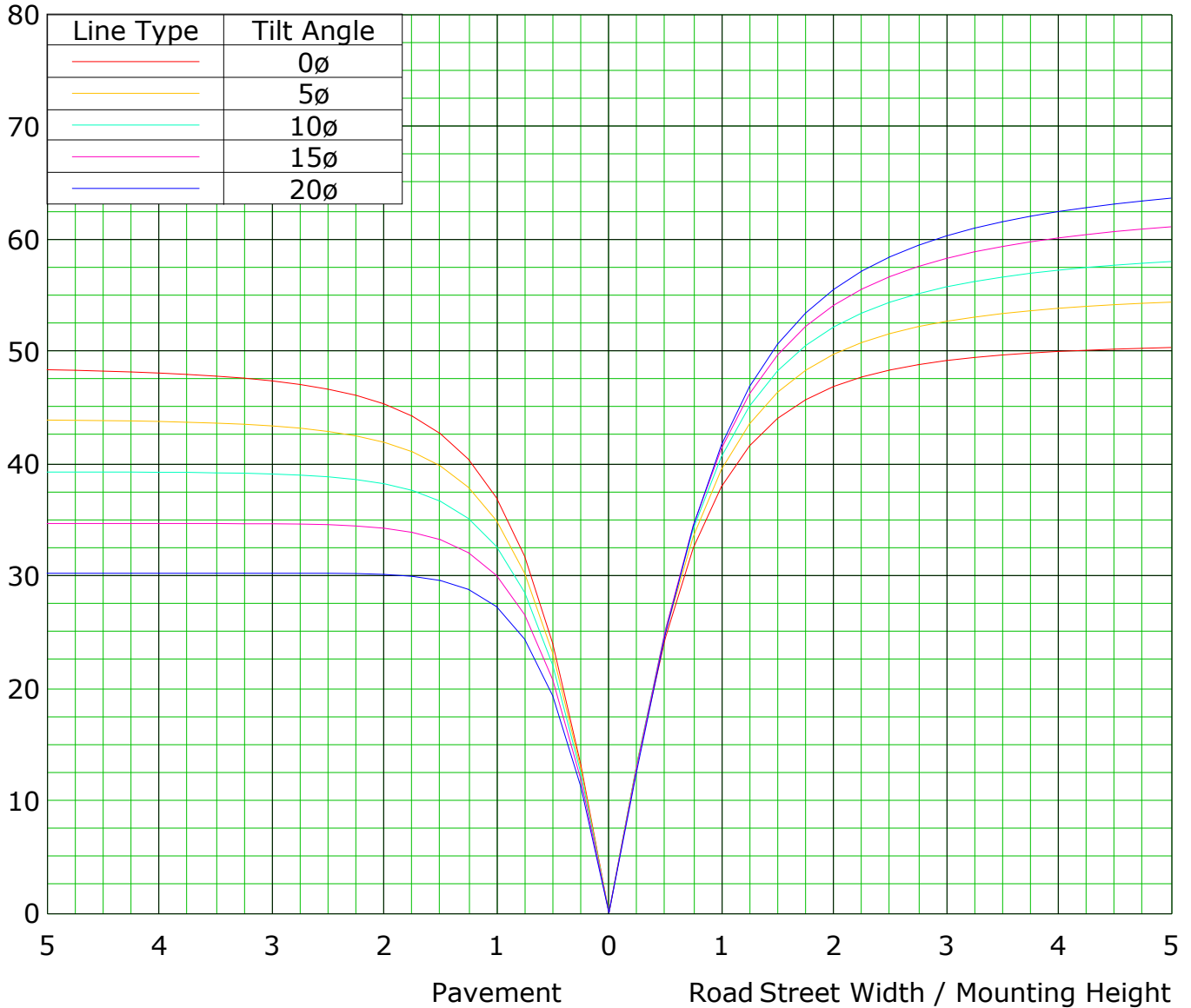
Humidity:

Operator: Cristian Herrera Arismendy

Inspector:

Roadway CU Curve

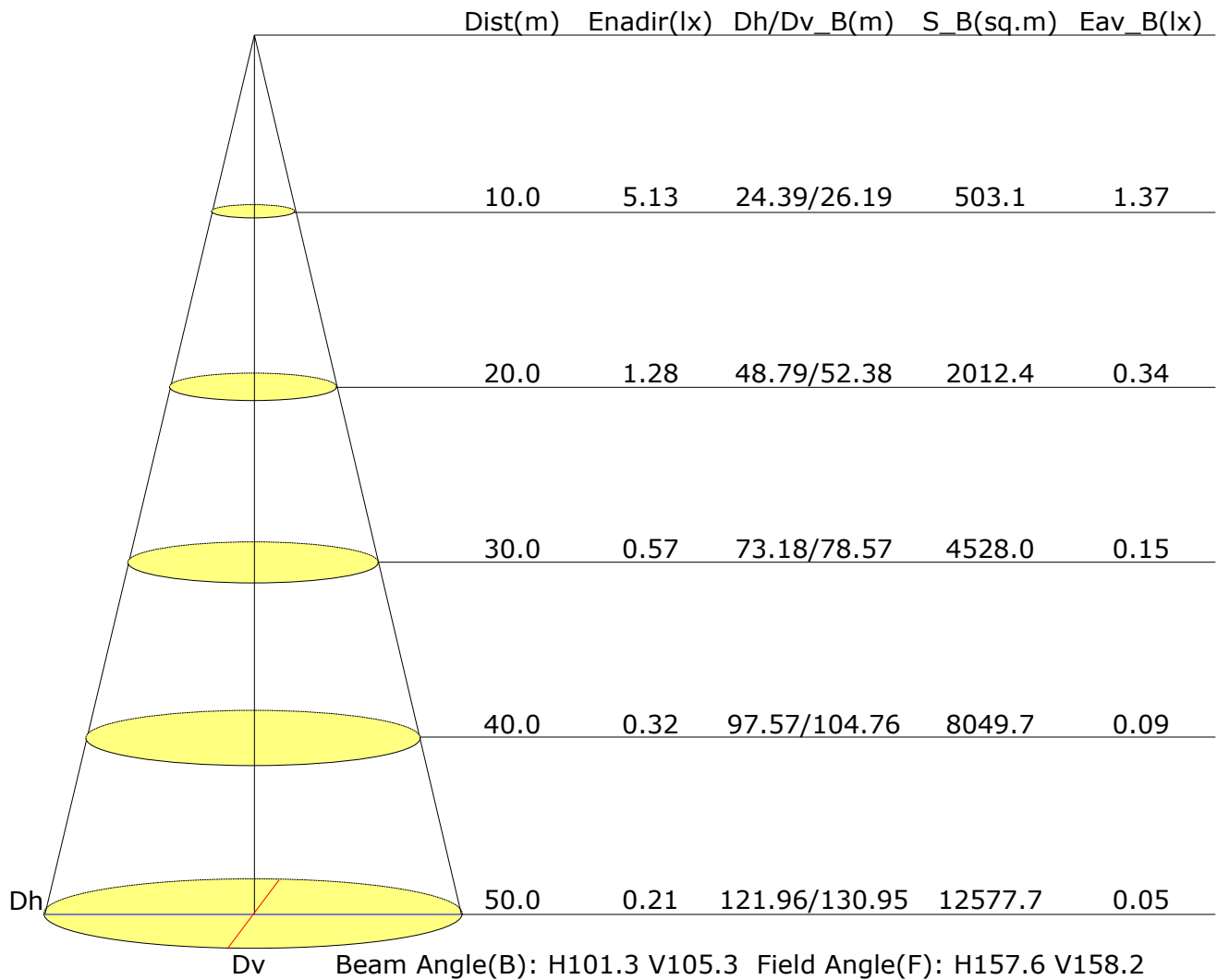
Efficiency(%)



C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 24.9
 Operator: Cristian Herrera Arismendy

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

Illuminance at a Distance



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	512.7	0.5	0.5	0.04	0.04
1.0-2.0	512.5	1.5	2.0	0.11	0.15
2.0-3.0	511.9	2.4	4.4	0.19	0.33
3.0-4.0	511.1	3.4	7.8	0.26	0.59
4.0-5.0	510.1	4.4	12.2	0.33	0.93
5.0-6.0	508.7	5.3	17.6	0.41	1.33
6.0-7.0	507.2	6.3	23.9	0.48	1.81
7.0-8.0	505.3	7.2	31.1	0.55	2.36
8.0-9.0	503.2	8.2	39.3	0.62	2.97
9.0-10.0	500.9	9.1	48.3	0.69	3.66
10.0-11.0	498.3	10.0	58.3	0.75	4.42
11.0-12.0	495.4	10.8	69.1	0.82	5.24
12.0-13.0	492.5	11.7	80.8	0.89	6.12
13.0-14.0	489.2	12.5	93.3	0.95	7.07
14.0-15.0	485.6	13.3	106.7	1.01	8.08
15.0-16.0	481.9	14.1	120.8	1.07	9.15
16.0-17.0	477.9	14.9	135.7	1.13	10.28
17.0-18.0	473.9	15.6	151.3	1.18	11.46
18.0-19.0	469.5	16.3	167.6	1.24	12.70
19.0-20.0	464.9	17.0	184.6	1.29	13.99
20.0-21.0	460.3	17.7	202.3	1.34	15.33
21.0-22.0	455.4	18.3	220.6	1.39	16.72
22.0-23.0	450.3	18.9	239.5	1.43	18.15
23.0-24.0	445.1	19.5	259.0	1.47	19.63
24.0-25.0	439.6	20.0	279.0	1.51	21.14
25.0-26.0	434.1	20.5	299.5	1.55	22.69
26.0-27.0	428.4	21.0	320.4	1.59	24.28
27.0-28.0	422.5	21.4	341.8	1.62	25.90
28.0-29.0	416.7	21.8	363.6	1.65	27.56
29.0-30.0	410.5	22.2	385.8	1.68	29.24
30.0-31.0	404.3	22.5	408.3	1.71	30.94
31.0-32.0	397.9	22.8	431.1	1.73	32.67
32.0-33.0	391.5	23.1	454.2	1.75	34.42
33.0-34.0	385.2	23.3	477.5	1.77	36.18
34.0-35.0	378.5	23.5	501.0	1.78	37.96
35.0-36.0	371.7	23.7	524.7	1.79	39.76

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 24.9
 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	365.0	23.8	548.5	1.80	41.56
37.0-38.0	358.1	23.9	572.4	1.81	43.37
38.0-39.0	351.4	24.0	596.4	1.82	45.19
39.0-40.0	344.3	24.0	620.4	1.82	47.01
40.0-41.0	337.3	24.0	644.4	1.82	48.83
41.0-42.0	330.5	24.0	668.4	1.82	50.65
42.0-43.0	323.2	23.9	692.4	1.81	52.47
43.0-44.0	316.0	23.9	716.2	1.81	54.28
44.0-45.0	308.9	23.7	740.0	1.80	56.07
45.0-46.0	301.6	23.6	763.5	1.79	57.86
46.0-47.0	294.4	23.4	787.0	1.77	59.64
47.0-48.0	287.0	23.2	810.2	1.76	61.39
48.0-49.0	279.5	23.0	833.1	1.74	63.13
49.0-50.0	272.4	22.7	855.8	1.72	64.86
50.0-51.0	264.9	22.4	878.3	1.70	66.56
51.0-52.0	257.5	22.1	900.4	1.67	68.23
52.0-53.0	250.1	21.8	922.1	1.65	69.88
53.0-54.0	242.5	21.4	943.5	1.62	71.50
54.0-55.0	235.1	21.0	964.5	1.59	73.09
55.0-56.0	227.5	20.6	985.0	1.56	74.65
56.0-57.0	219.9	20.1	1005.2	1.52	76.17
57.0-58.0	212.7	19.7	1024.8	1.49	77.66
58.0-59.0	205.0	19.2	1044.0	1.45	79.11
59.0-60.0	197.3	18.6	1062.6	1.41	80.53
60.0-61.0	189.7	18.1	1080.7	1.37	81.90
61.0-62.0	182.0	17.5	1098.3	1.33	83.23
62.0-63.0	174.5	17.0	1115.2	1.29	84.51
63.0-64.0	166.7	16.4	1131.6	1.24	85.75
64.0-65.0	159.0	15.7	1147.3	1.19	86.95
65.0-66.0	151.6	15.1	1162.5	1.15	88.09
66.0-67.0	143.8	14.5	1176.9	1.10	89.19
67.0-68.0	136.1	13.8	1190.7	1.05	90.23
68.0-69.0	128.5	13.1	1203.8	0.99	91.23
69.0-70.0	120.7	12.4	1216.2	0.94	92.17
70.0-71.0	113.3	11.7	1227.9	0.89	93.05
71.0-72.0	105.6	11.0	1238.9	0.83	93.89

C Plane (°):0.0-360.0: 10.0
 Test Lab: LABORATORIO STAND
 Test Type: TYPE C
 Temperature: 24.9
 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	98.0	10.2	1249.2	0.78	94.66
73.0-74.0	90.7	9.5	1258.7	0.72	95.39
74.0-75.0	83.1	8.8	1267.5	0.67	96.05
75.0-76.0	75.8	8.0	1275.5	0.61	96.66
76.0-77.0	68.4	7.3	1282.8	0.55	97.21
77.0-78.0	61.2	6.5	1289.4	0.50	97.71
78.0-79.0	54.4	5.8	1295.2	0.44	98.15
79.0-80.0	47.6	5.1	1300.4	0.39	98.54
80.0-81.0	40.9	4.4	1304.8	0.34	98.88
81.0-82.0	34.6	3.8	1308.5	0.28	99.16
82.0-83.0	28.5	3.1	1311.6	0.24	99.40
83.0-84.0	22.9	2.5	1314.1	0.19	99.59
84.0-85.0	17.7	1.9	1316.1	0.15	99.73
85.0-86.0	12.9	1.4	1317.5	0.11	99.84
86.0-87.0	9.0	1.0	1318.5	0.07	99.91
87.0-88.0	5.6	0.6	1319.1	0.05	99.96
88.0-89.0	3.1	0.3	1319.4	0.03	99.99
89.0-90.0	1.6	0.2	1319.6	0.01	100.00

C Plane (°):0.0-360.0: 10.0
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 Operator: Cristian Herrera Arismendy

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