

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P554319

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-81-97-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P554319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-1LO-50-UNV-81-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

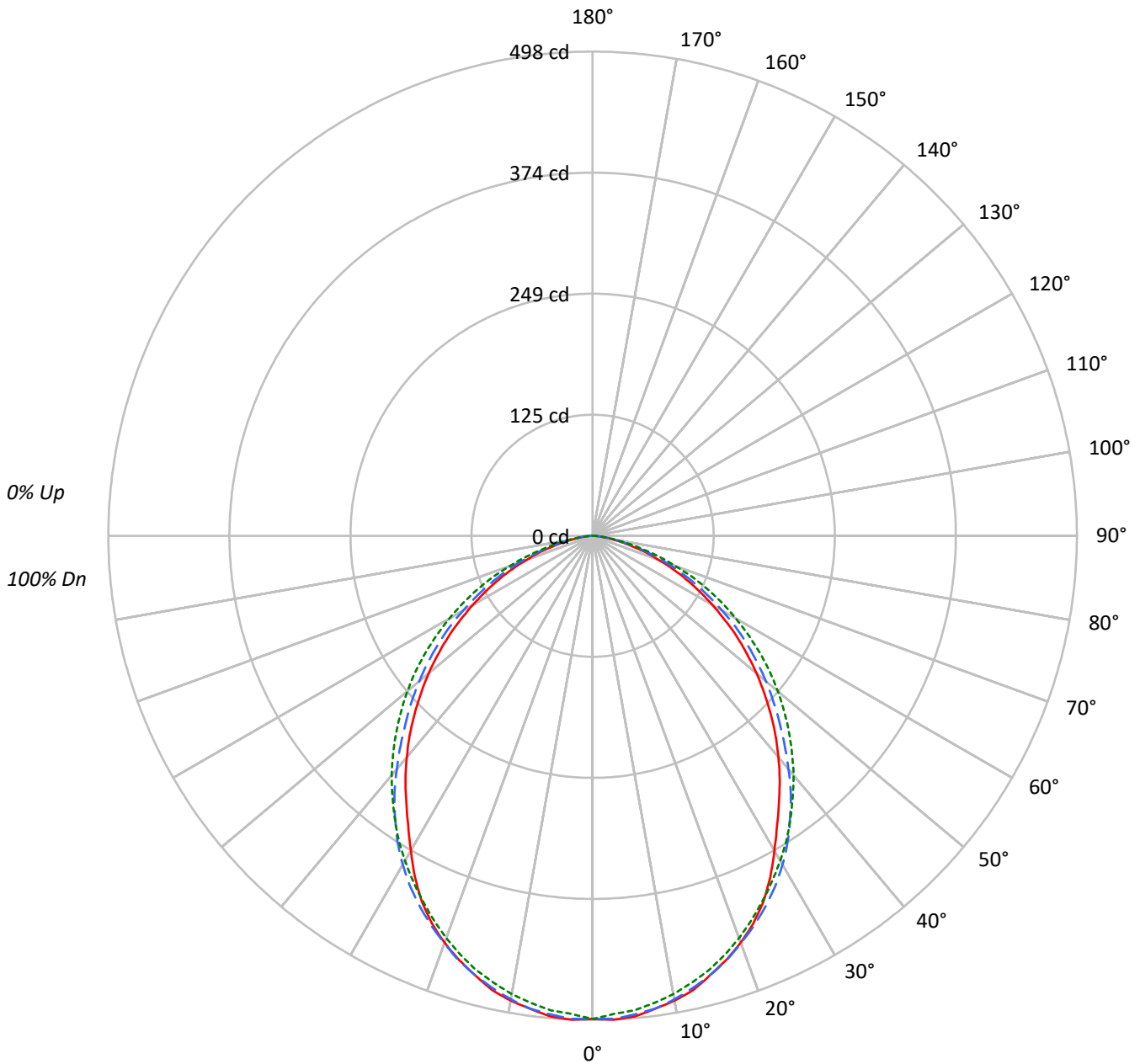
Lumens per Lamp: N/A
Luminaire Lumens: 1149.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P554319

CATALOG NUMBER: FUSL-12-2-LD4-1LO-50-UNV-81-97-EDD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2674	2674	2674
5°	2681	2670	2647
10°	2653	2646	2616
15°	2606	2606	2576
20°	2551	2554	2521
25°	2467	2498	2458
30°	2323	2427	2398
35°	2195	2326	2330
40°	2088	2201	2259
45°	1969	2068	2174
50°	1843	1948	2081
55°	1700	1813	1969
60°	1531	1654	1831
65°	1351	1471	1666
70°	1127	1253	1415
75°	886	1000	1108
80°	632	704	781
85°	414	414	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	4.1
10°-20°	131.4	11.4
20°-30°	192.1	16.7
30°-40°	218.0	19.0
40°-50°	210.5	18.3
50°-60°	173.6	15.1
60°-70°	115.6	10.1
70°-80°	51.7	4.5
80°-90°	9.3	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	370.3	32.2
0°-40°	588.3	51.2
0°-60°	972.4	84.6
0°-90°	1149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	497	497	497	497	497	
5°	496	496	494	492	490	47
15°	468	469	468	466	462	132
25°	415	419	421	418	414	190
35°	334	339	354	356	355	209
45°	259	263	272	284	286	200
55°	181	184	193	204	210	162
65°	106	109	116	124	131	105
75°	43	45	48	50	53	47
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	496.9	496.9	496.9	496.9	496.9
2.5°	498.2	498.4	497.3	494.2	492.3
5°	496.3	496.1	494.2	491.6	490.0
7.5°	490.8	491.2	490.6	486.8	484.7
10°	485.5	485.6	484.1	481.1	478.6
12.5°	478.6	478.4	476.3	474.8	470.8
15°	467.7	468.9	467.7	465.6	462.4
17.5°	457.2	457.2	458.0	454.3	451.9
20°	445.4	445.9	445.9	443.1	440.2
22.5°	431.6	433.3	433.9	430.9	427.4
25°	415.4	418.6	420.6	417.5	413.9
27.5°	395.7	400.7	406.4	404.1	400.1
30°	373.8	381.0	390.6	388.7	385.8
32.5°	353.0	360.2	373.4	372.6	371.1
35°	334.1	338.7	354.1	356.0	354.7
37.5°	316.1	320.3	334.8	339.2	338.1
40°	297.2	301.8	313.3	321.1	321.5
42.5°	278.5	282.9	292.3	303.5	303.5
45°	258.7	263.1	271.7	284.1	285.6
47.5°	239.2	243.8	252.2	264.6	267.1
50°	220.1	224.3	232.7	244.7	248.6
52.5°	200.3	204.8	213.0	224.1	229.7
55°	181.2	184.2	193.2	203.9	209.8
57.5°	161.3	164.2	174.3	183.5	189.6
60°	142.2	145.8	153.7	163.0	170.1
62.5°	123.9	127.7	134.4	142.6	150.6
65°	106.1	109.0	115.5	123.7	130.8
67.5°	89.0	91.4	97.9	103.7	111.1
70°	71.6	74.8	79.6	85.1	89.9
72.5°	57.7	59.0	63.0	67.0	72.0
75°	42.6	44.9	48.1	50.4	53.3
77.5°	30.5	31.9	33.8	35.7	38.4
80°	20.4	21.0	22.7	23.1	25.2
82.5°	12.4	12.8	13.2	13.4	14.1
85°	6.7	6.7	6.7	6.3	6.3
87.5°	3.8	3.8	3.2	2.7	1.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)