

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: P554183

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-81-87-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: P554183
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-35-UNV-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

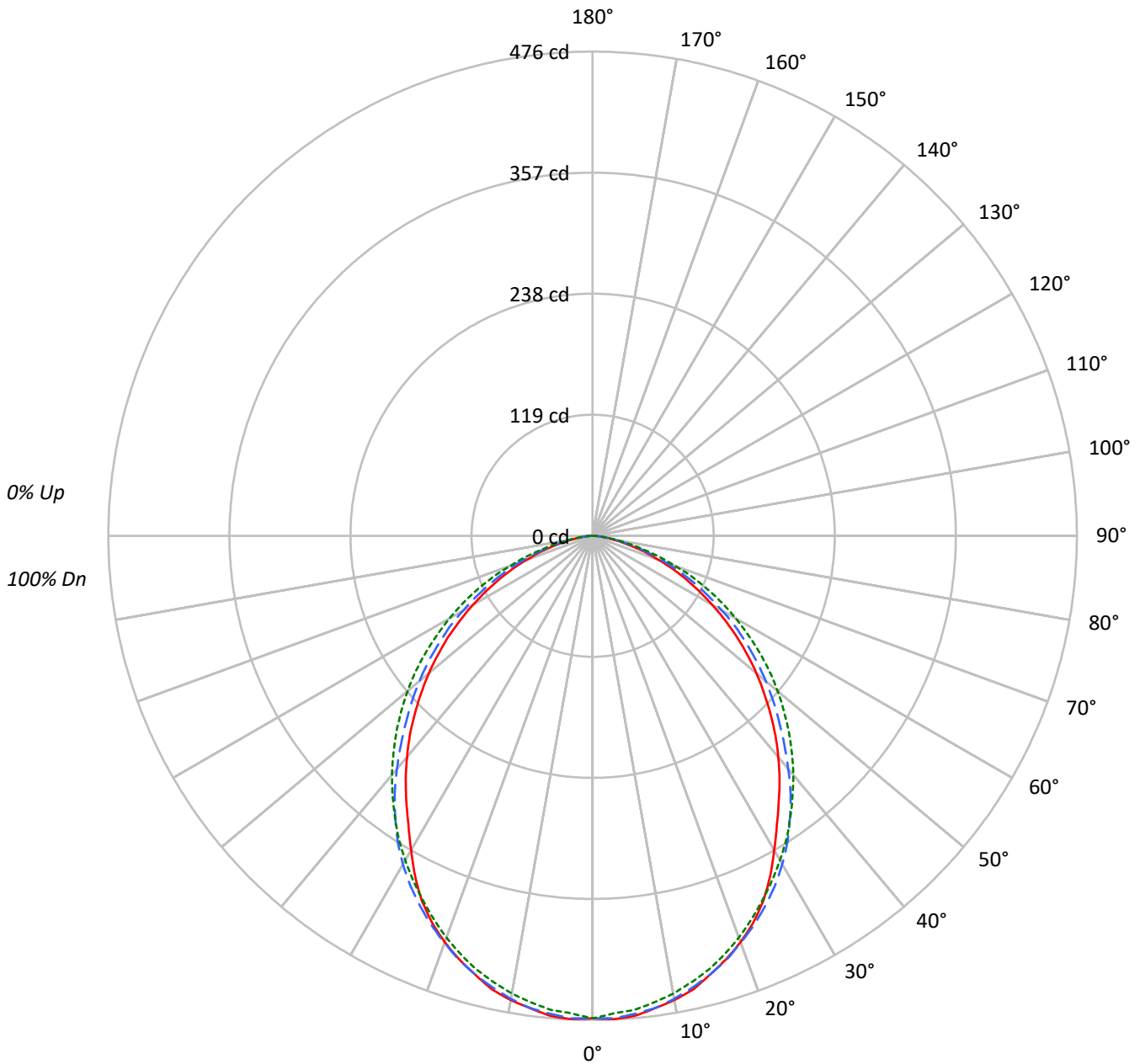
Lumens per Lamp: N/A
Luminaire Lumens: 1097.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (Ain): 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

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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°	2553	2553	2553
5°	2560	2549	2528
10°	2533	2526	2497
15°	2488	2488	2459
20°	2435	2439	2407
25°	2355	2384	2346
30°	2218	2317	2289
35°	2096	2221	2225
40°	1994	2101	2156
45°	1880	1974	2076
50°	1759	1860	1987
55°	1623	1730	1879
60°	1462	1579	1748
65°	1290	1405	1589
70°	1075	1196	1350
75°	844	954	1058
80°	604	673	747
85°	395	395	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	4.1
10°-20°	125.5	11.4
20°-30°	183.4	16.7
30°-40°	208.2	19.0
40°-50°	200.9	18.3
50°-60°	165.8	15.1
60°-70°	110.4	10.1
70°-80°	49.4	4.5
80°-90°	8.8	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°	353.5	32.2
0°-40°	561.7	51.2
0°-60°	928.4	84.6
0°-90°	1097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	474	474	472	469	468	45
15°	446	448	446	444	441	126
25°	397	400	402	399	395	182
35°	319	323	338	340	339	200
45°	247	251	259	271	273	191
55°	173	176	184	195	200	154
65°	101	104	110	118	125	100
75°	41	43	46	48	51	44
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	474.4	474.4	474.4	474.4	474.4
2.5°	475.7	475.9	474.8	471.9	470.0
5°	473.9	473.7	471.9	469.3	467.9
7.5°	468.6	469.0	468.4	464.8	462.8
10°	463.5	463.7	462.2	459.3	456.9
12.5°	456.9	456.7	454.7	453.3	449.5
15°	446.5	447.6	446.5	444.5	441.4
17.5°	436.5	436.5	437.2	433.8	431.4
20°	425.2	425.8	425.8	423.0	420.3
22.5°	412.1	413.7	414.3	411.4	408.1
25°	396.6	399.7	401.5	398.6	395.1
27.5°	377.8	382.6	388.0	385.8	382.0
30°	356.9	363.8	372.9	371.1	368.3
32.5°	337.0	343.9	356.5	355.8	354.3
35°	319.0	323.3	338.1	339.9	338.6
37.5°	301.8	305.8	319.7	323.9	322.8
40°	283.8	288.2	299.1	306.6	306.9
42.5°	265.9	270.1	279.0	289.8	289.8
45°	247.0	251.2	259.4	271.2	272.7
47.5°	228.4	232.7	240.8	252.6	255.0
50°	210.1	214.2	222.2	233.7	237.3
52.5°	191.2	195.6	203.4	214.0	219.3
55°	173.0	175.9	184.4	194.7	200.3
57.5°	154.0	156.7	166.4	175.2	181.0
60°	135.8	139.2	146.7	155.7	162.4
62.5°	118.3	121.9	128.3	136.1	143.8
65°	101.3	104.1	110.3	118.1	124.8
67.5°	84.9	87.3	93.5	99.0	106.1
70°	68.3	71.4	76.0	81.3	85.8
72.5°	55.0	56.3	60.1	64.0	68.7
75°	40.6	42.8	45.9	48.1	50.9
77.5°	29.2	30.4	32.3	34.1	36.6
80°	19.5	20.0	21.7	22.1	24.1
82.5°	11.8	12.2	12.6	12.8	13.5
85°	6.4	6.4	6.4	6.0	6.0
87.5°	3.6	3.6	3.1	2.6	1.8
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)