

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: P554262

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-82-87-EDD-90**

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: P554262
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-40-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

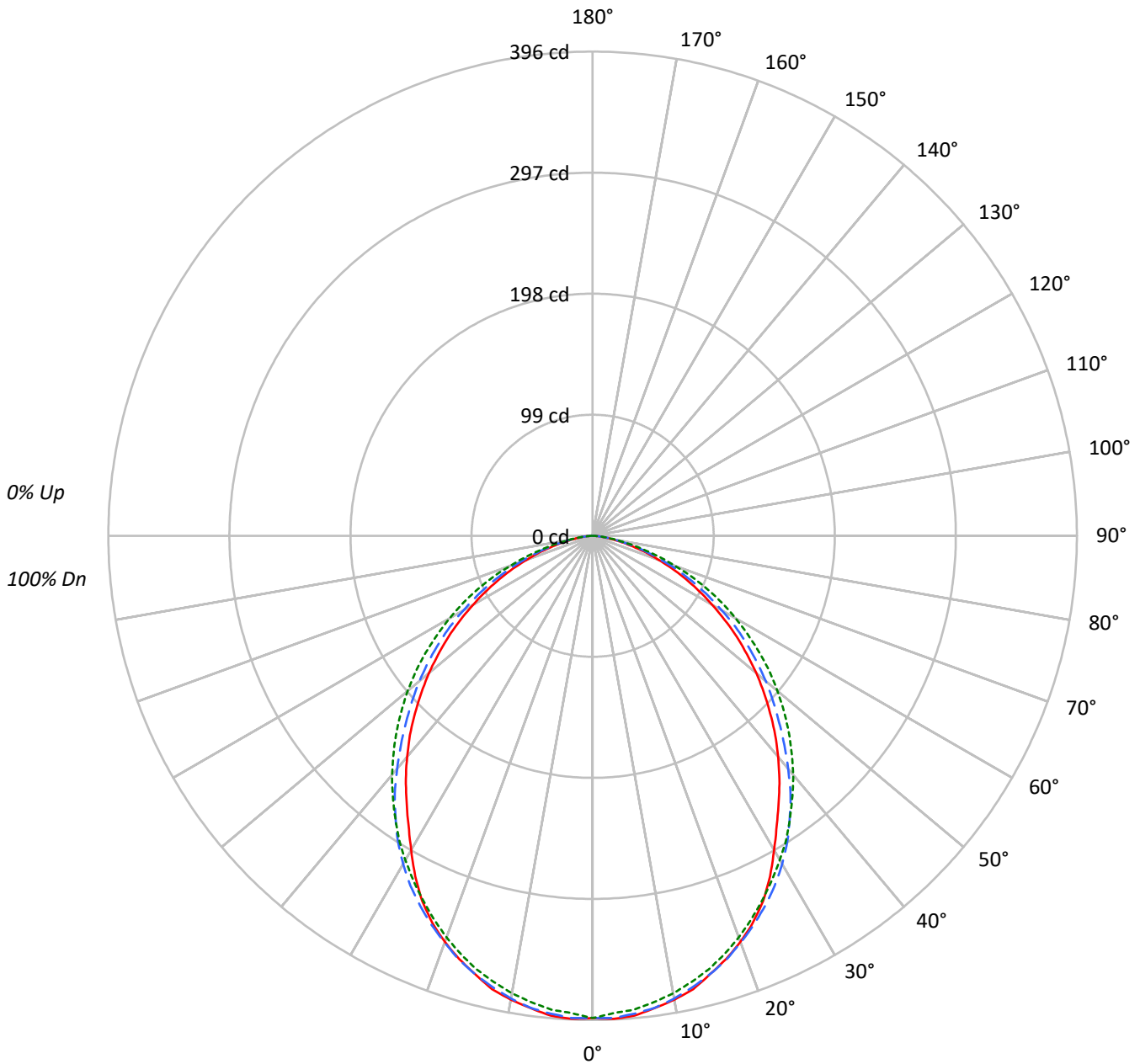
Lumens per Lamp: N/A
Luminaire Lumens: 912.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2123	2123	2123
5°	2129	2119	2102
10°	2106	2100	2076
15°	2068	2068	2045
20°	2025	2027	2001
25°	1958	1982	1951
30°	1844	1927	1903
35°	1742	1847	1849
40°	1657	1747	1793
45°	1563	1641	1725
50°	1463	1546	1652
55°	1349	1438	1562
60°	1215	1313	1453
65°	1072	1168	1322
70°	894	995	1124
75°	703	794	880
80°	502	558	620
85°	327	327	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	4.1
10°-20°	104.3	11.4
20°-30°	152.5	16.7
30°-40°	173.1	19.0
40°-50°	167.1	18.3
50°-60°	137.8	15.1
60°-70°	91.8	10.1
70°-80°	41.1	4.5
80°-90°	7.3	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°	293.9	32.2
0°-40°	467.0	51.2
0°-60°	771.8	84.6
0°-90°	912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	394	394	394	394	394	
5°	394	394	392	390	389	37
15°	371	372	371	370	367	105
25°	330	332	334	331	328	151
35°	265	269	281	283	282	166
45°	205	209	216	226	227	158
55°	144	146	153	162	166	128
65°	84	86	92	98	104	84
75°	34	36	38	40	42	37
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	394.4	394.4	394.4	394.4	394.4
2.5°	395.5	395.6	394.7	392.3	390.8
5°	394.0	393.8	392.3	390.2	389.0
7.5°	389.6	389.9	389.4	386.4	384.7
10°	385.3	385.5	384.3	381.8	379.9
12.5°	379.9	379.7	378.1	376.8	373.7
15°	371.2	372.1	371.2	369.6	367.0
17.5°	362.9	362.9	363.5	360.6	358.7
20°	353.5	354.0	354.0	351.7	349.4
22.5°	342.6	344.0	344.4	342.0	339.3
25°	329.7	332.3	333.8	331.4	328.5
27.5°	314.1	318.0	322.6	320.8	317.6
30°	296.7	302.4	310.0	308.5	306.2
32.5°	280.2	285.9	296.4	295.8	294.6
35°	265.2	268.8	281.1	282.6	281.5
37.5°	250.9	254.3	265.8	269.3	268.3
40°	235.9	239.6	248.7	254.9	255.2
42.5°	221.1	224.6	232.0	240.9	240.9
45°	205.3	208.8	215.6	225.5	226.7
47.5°	189.9	193.5	200.2	210.0	212.0
50°	174.7	178.0	184.7	194.3	197.3
52.5°	158.9	162.6	169.1	177.9	182.3
55°	143.8	146.2	153.3	161.8	166.5
57.5°	128.0	130.3	138.3	145.6	150.5
60°	112.9	115.8	122.0	129.4	135.0
62.5°	98.3	101.4	106.7	113.2	119.6
65°	84.2	86.5	91.7	98.2	103.8
67.5°	70.6	72.6	77.7	82.3	88.2
70°	56.8	59.4	63.2	67.6	71.4
72.5°	45.8	46.8	50.0	53.2	57.1
75°	33.8	35.6	38.2	40.0	42.3
77.5°	24.2	25.3	26.8	28.3	30.5
80°	16.2	16.7	18.0	18.3	20.0
82.5°	9.8	10.2	10.5	10.6	11.2
85°	5.3	5.3	5.3	5.0	5.0
87.5°	3.0	3.0	2.6	2.1	1.5
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)