

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: P554181

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-81-86-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: P554181
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-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

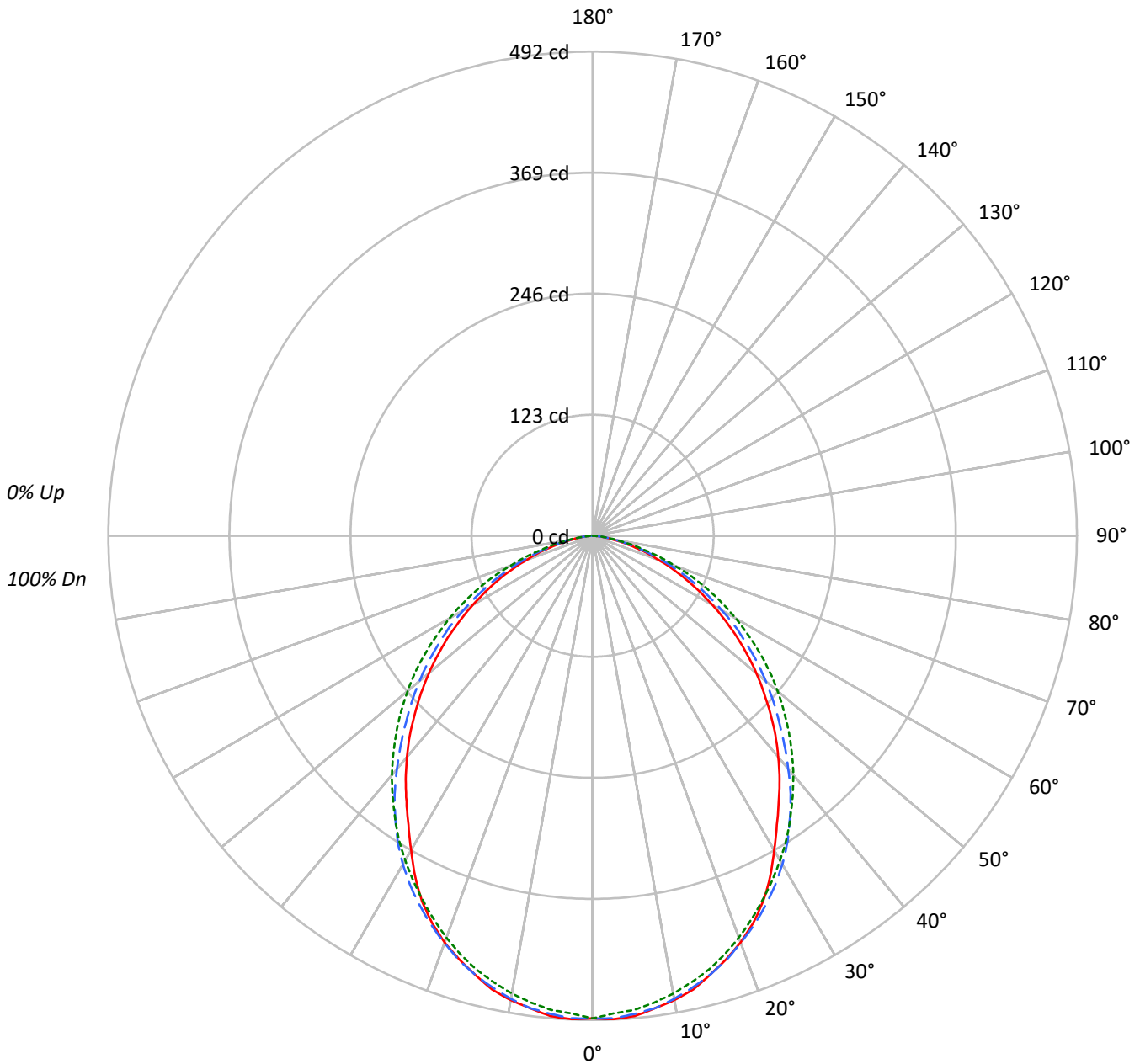
Lumens per Lamp: N/A
Luminaire Lumens: 1134.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2639	2639	2639
5°	2647	2635	2613
10°	2618	2611	2581
15°	2572	2572	2542
20°	2518	2521	2489
25°	2435	2465	2426
30°	2293	2396	2367
35°	2166	2296	2300
40°	2061	2172	2229
45°	1943	2041	2146
50°	1819	1923	2054
55°	1678	1789	1943
60°	1511	1633	1807
65°	1335	1452	1644
70°	1113	1237	1396
75°	873	988	1094
80°	626	694	772
85°	408	408	383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	4.1
10°-20°	129.7	11.4
20°-30°	189.6	16.7
30°-40°	215.2	19.0
40°-50°	207.7	18.3
50°-60°	171.4	15.1
60°-70°	114.1	10.1
70°-80°	51.1	4.5
80°-90°	9.1	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°	365.5	32.2
0°-40°	580.6	51.2
0°-60°	959.7	84.6
0°-90°	1134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	490	490	490	490	490	
5°	490	490	488	485	484	46
15°	462	463	462	460	456	130
25°	410	413	415	412	408	188
35°	330	334	350	351	350	207
45°	255	260	268	280	282	197
55°	179	182	191	201	207	160
65°	105	108	114	122	129	104
75°	42	44	48	50	53	46
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°	490.4	490.4	490.4	490.4	490.4
2.5°	491.7	491.9	490.8	487.8	485.9
5°	489.9	489.7	487.8	485.2	483.6
7.5°	484.4	484.8	484.2	480.4	478.4
10°	479.1	479.3	477.8	474.8	472.3
12.5°	472.3	472.2	470.1	468.6	464.6
15°	461.6	462.7	461.6	459.5	456.3
17.5°	451.2	451.2	452.0	448.4	446.0
20°	439.6	440.1	440.1	437.3	434.5
22.5°	426.0	427.7	428.3	425.2	421.8
25°	410.0	413.2	415.1	412.0	408.5
27.5°	390.6	395.5	401.1	398.9	394.9
30°	368.9	376.1	385.5	383.6	380.8
32.5°	348.4	355.5	368.5	367.8	366.3
35°	329.7	334.2	349.5	351.4	350.1
37.5°	312.0	316.1	330.5	334.8	333.7
40°	293.4	297.9	309.2	316.9	317.3
42.5°	274.9	279.2	288.5	299.6	299.6
45°	255.3	259.6	268.1	280.4	281.9
47.5°	236.1	240.6	248.9	261.1	263.6
50°	217.2	221.4	229.7	241.5	245.3
52.5°	197.6	202.2	210.3	221.2	226.7
55°	178.8	181.8	190.7	201.2	207.1
57.5°	159.2	162.0	172.0	181.1	187.1
60°	140.4	143.9	151.7	160.9	167.9
62.5°	122.3	126.0	132.6	140.7	148.7
65°	104.8	107.6	114.0	122.1	129.1
67.5°	87.8	90.2	96.7	102.3	109.7
70°	70.7	73.9	78.6	84.0	88.7
72.5°	56.9	58.2	62.2	66.1	71.0
75°	42.0	44.3	47.5	49.7	52.6
77.5°	30.1	31.5	33.3	35.2	37.9
80°	20.2	20.7	22.4	22.8	24.9
82.5°	12.2	12.6	13.0	13.2	13.9
85°	6.6	6.6	6.6	6.2	6.2
87.5°	3.8	3.8	3.2	2.6	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)