

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: P554285

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-93-96-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: P554285
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-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

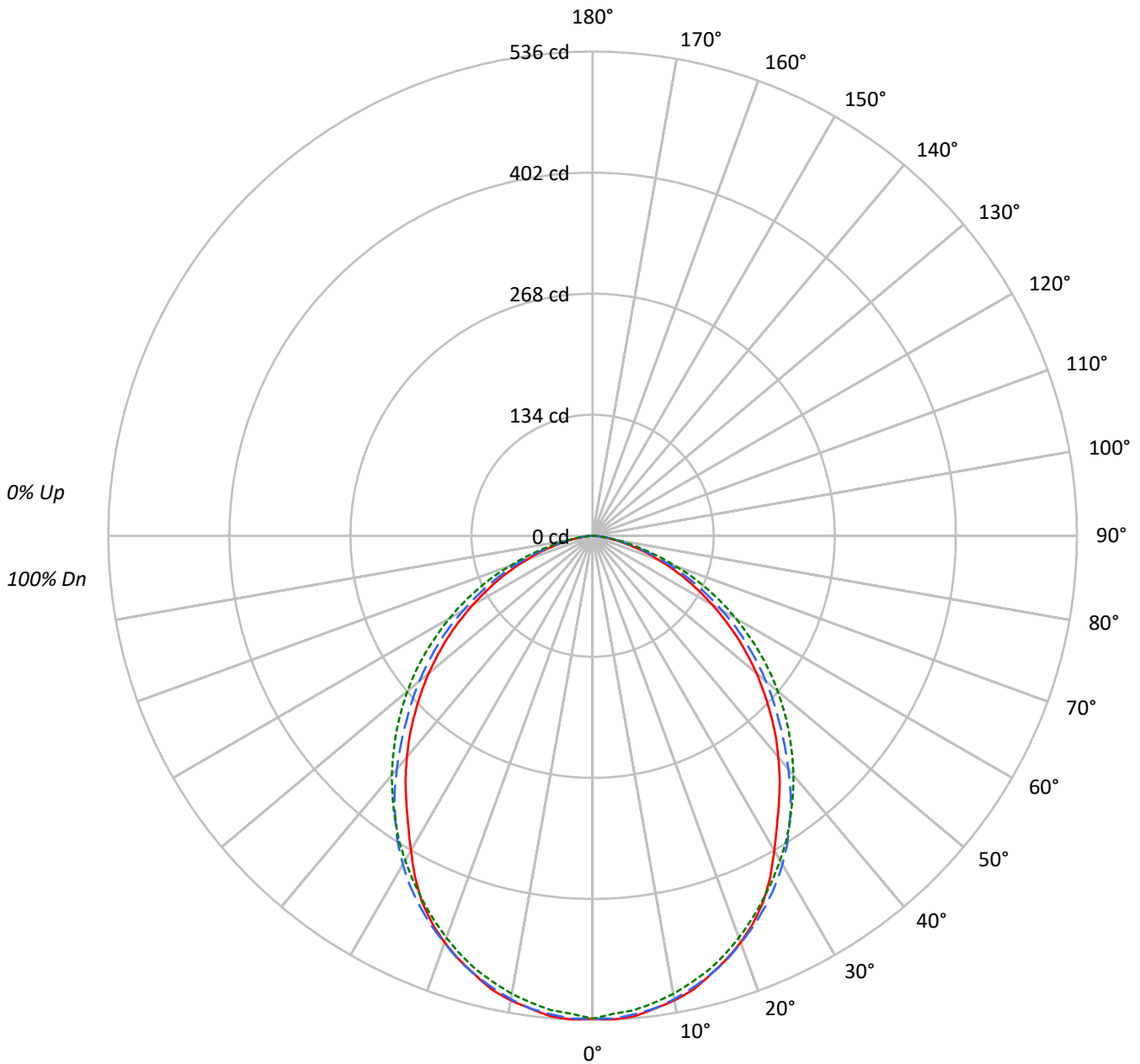
Lumens per Lamp: N/A
Luminaire Lumens: 1236.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2877	2877	2877
5°	2884	2873	2848
10°	2854	2846	2813
15°	2803	2803	2771
20°	2744	2747	2712
25°	2654	2687	2644
30°	2499	2611	2579
35°	2361	2503	2507
40°	2246	2368	2429
45°	2118	2224	2338
50°	1983	2096	2239
55°	1829	1950	2118
60°	1647	1779	1970
65°	1454	1582	1792
70°	1212	1347	1522
75°	952	1075	1192
80°	682	756	840
85°	445	445	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	4.1
10°-20°	141.4	11.4
20°-30°	206.6	16.7
30°-40°	234.5	19.0
40°-50°	226.4	18.3
50°-60°	186.8	15.1
60°-70°	124.4	10.1
70°-80°	55.7	4.5
80°-90°	10.0	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°	398.3	32.2
0°-40°	632.9	51.2
0°-60°	1046.0	84.6
0°-90°	1236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	534	534	532	529	527	51
15°	503	504	503	501	497	142
25°	447	450	452	449	445	205
35°	359	364	381	383	382	225
45°	278	283	292	306	307	215
55°	195	198	208	219	226	174
65°	114	117	124	133	141	113
75°	46	48	52	54	57	50
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	534.5	534.5	534.5	534.5	534.5
2.5°	536.0	536.2	534.9	531.7	529.6
5°	533.9	533.7	531.7	528.8	527.1
7.5°	528.0	528.4	527.8	523.7	521.4
10°	522.2	522.4	520.8	517.5	514.8
12.5°	514.8	514.6	512.4	510.7	506.4
15°	503.1	504.4	503.1	500.9	497.4
17.5°	491.8	491.8	492.6	488.7	486.1
20°	479.1	479.7	479.7	476.6	473.5
22.5°	464.3	466.2	466.8	463.5	459.8
25°	446.9	450.3	452.4	449.1	445.2
27.5°	425.7	431.0	437.2	434.7	430.4
30°	402.1	409.9	420.2	418.1	415.0
32.5°	379.7	387.5	401.7	400.9	399.2
35°	359.4	364.3	380.9	383.0	381.5
37.5°	340.1	344.6	360.2	364.9	363.7
40°	319.7	324.7	337.0	345.4	345.8
42.5°	299.6	304.3	314.4	326.5	326.5
45°	278.3	283.0	292.2	305.6	307.2
47.5°	257.3	262.2	271.3	284.6	287.3
50°	236.8	241.3	250.3	263.3	267.4
52.5°	215.4	220.3	229.2	241.1	247.0
55°	194.9	198.2	207.8	219.3	225.7
57.5°	173.5	176.6	187.5	197.3	203.9
60°	153.0	156.9	165.3	175.4	183.0
62.5°	133.3	137.4	144.6	153.4	162.0
65°	114.2	117.3	124.2	133.1	140.7
67.5°	95.7	98.4	105.3	111.5	119.5
70°	77.0	80.5	85.6	91.6	96.7
72.5°	62.0	63.5	67.8	72.1	77.4
75°	45.8	48.3	51.7	54.2	57.3
77.5°	32.9	34.3	36.3	38.4	41.3
80°	22.0	22.6	24.4	24.8	27.1
82.5°	13.3	13.8	14.2	14.4	15.2
85°	7.2	7.2	7.2	6.8	6.8
87.5°	4.1	4.1	3.5	2.9	2.1
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)