

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: P554292

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-80-86-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: P554292
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-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

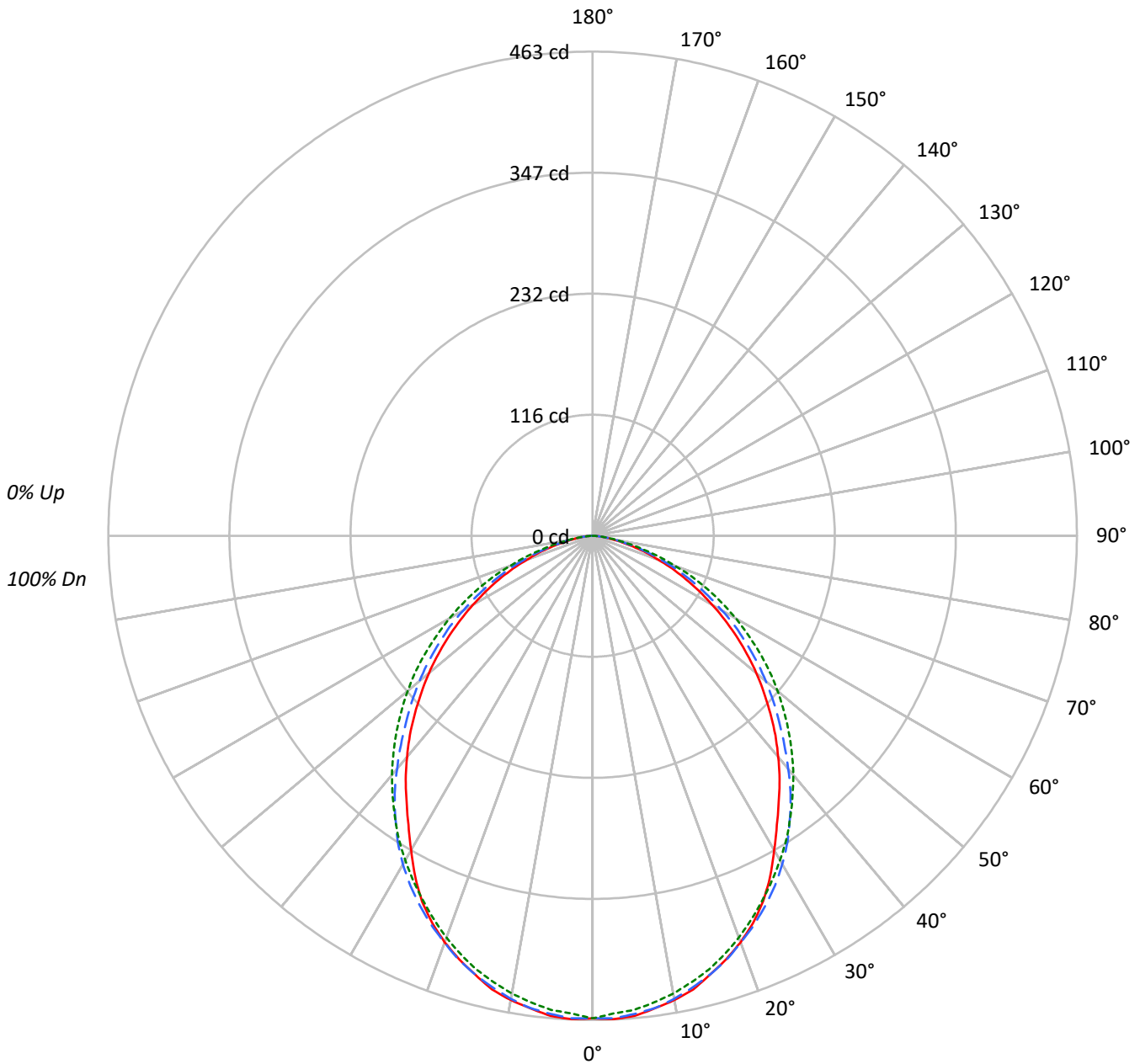
Lumens per Lamp: N/A
Luminaire Lumens: 1067.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2483	2483	2483
5°	2490	2480	2459
10°	2464	2457	2429
15°	2420	2420	2393
20°	2369	2372	2341
25°	2291	2319	2282
30°	2157	2254	2227
35°	2038	2160	2164
40°	1939	2044	2097
45°	1828	1920	2019
50°	1711	1809	1932
55°	1578	1683	1828
60°	1422	1536	1701
65°	1256	1366	1546
70°	1046	1163	1314
75°	821	930	1029
80°	589	654	725
85°	383	383	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	4.1
10°-20°	122.1	11.4
20°-30°	178.4	16.7
30°-40°	202.5	19.0
40°-50°	195.4	18.3
50°-60°	161.2	15.1
60°-70°	107.4	10.1
70°-80°	48.1	4.5
80°-90°	8.6	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°	343.9	32.2
0°-40°	546.3	51.2
0°-60°	903.0	84.6
0°-90°	1067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	461	459	456	455	44
15°	434	435	434	432	429	122
25°	386	389	390	388	384	177
35°	310	314	329	331	329	194
45°	240	244	252	264	265	185
55°	168	171	179	189	195	150
65°	99	101	107	115	121	98
75°	40	42	45	47	50	43
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.4	461.4	461.4	461.4	461.4
2.5°	462.7	462.9	461.8	459.0	457.2
5°	460.9	460.7	459.0	456.5	455.1
7.5°	455.8	456.1	455.6	452.1	450.1
10°	450.8	451.0	449.6	446.7	444.4
12.5°	444.4	444.3	442.3	440.9	437.2
15°	434.3	435.4	434.3	432.4	429.4
17.5°	424.6	424.6	425.3	421.9	419.6
20°	413.6	414.1	414.1	411.5	408.8
22.5°	400.8	402.4	402.9	400.1	396.9
25°	385.8	388.8	390.5	387.7	384.3
27.5°	367.5	372.1	377.4	375.3	371.6
30°	347.1	353.8	362.7	360.9	358.3
32.5°	327.8	334.5	346.8	346.0	344.6
35°	310.2	314.5	328.8	330.6	329.4
37.5°	293.6	297.5	310.9	315.0	314.0
40°	276.0	280.3	290.9	298.2	298.5
42.5°	258.6	262.7	271.4	281.9	281.9
45°	240.2	244.3	252.3	263.8	265.2
47.5°	222.1	226.4	234.2	245.7	248.0
50°	204.4	208.3	216.1	227.3	230.8
52.5°	186.0	190.2	197.8	208.1	213.3
55°	168.2	171.1	179.4	189.3	194.8
57.5°	149.8	152.5	161.9	170.4	176.0
60°	132.1	135.4	142.7	151.4	158.0
62.5°	115.1	118.6	124.8	132.4	139.9
65°	98.6	101.2	107.3	114.9	121.4
67.5°	82.6	84.9	90.9	96.3	103.2
70°	66.5	69.5	73.9	79.1	83.5
72.5°	53.5	54.8	58.5	62.2	66.8
75°	39.5	41.7	44.7	46.8	49.5
77.5°	28.4	29.6	31.4	33.2	35.6
80°	19.0	19.5	21.1	21.5	23.4
82.5°	11.5	11.9	12.2	12.4	13.1
85°	6.2	6.2	6.2	5.9	5.9
87.5°	3.5	3.5	3.0	2.5	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)