

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: P554289

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-80-84-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: P554289
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-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

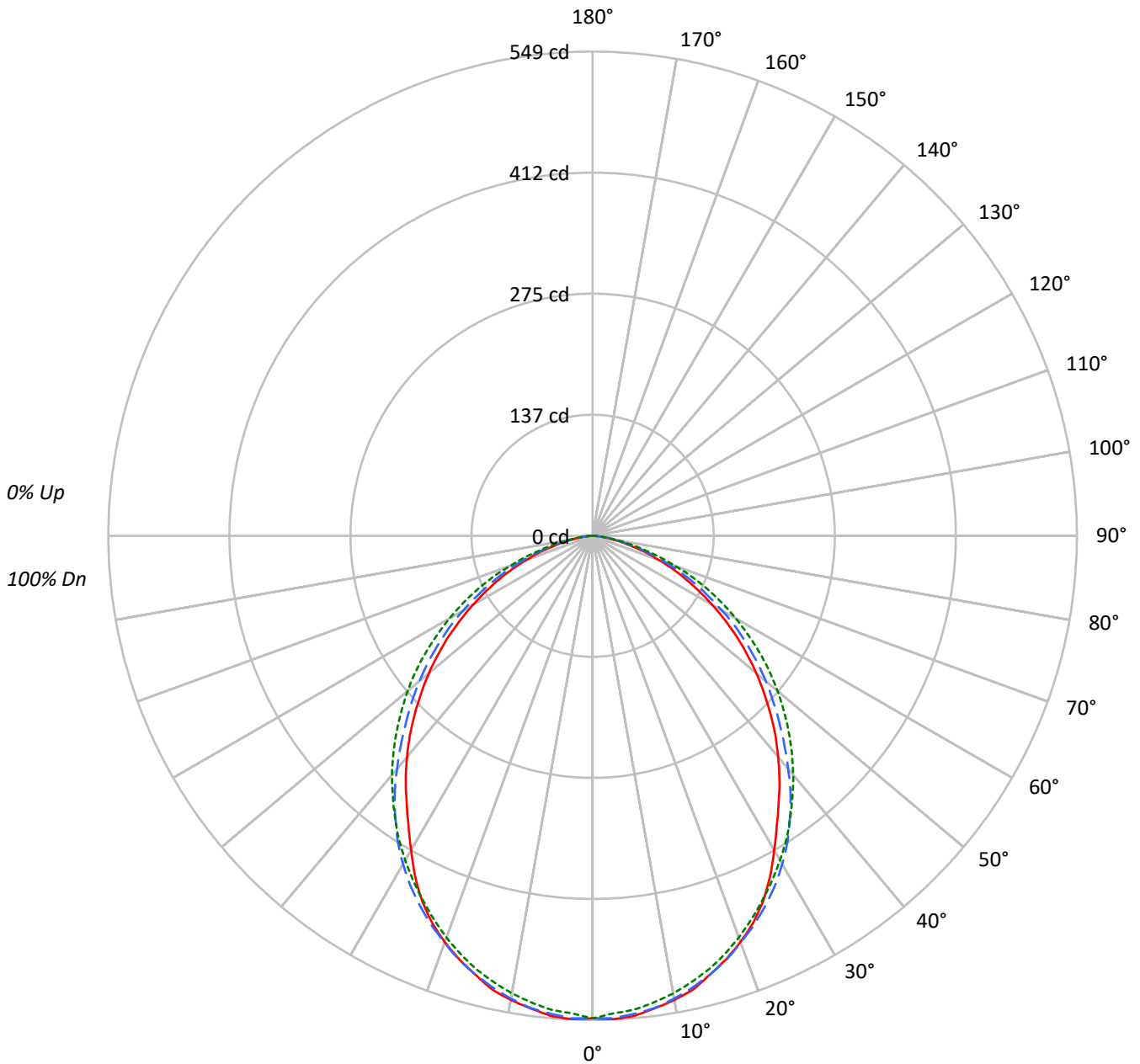
Lumens per Lamp: N/A
Luminaire Lumens: 1265.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2944	2944	2944
5°	2952	2940	2915
10°	2921	2913	2879
15°	2869	2869	2836
20°	2808	2812	2776
25°	2716	2749	2706
30°	2557	2672	2640
35°	2417	2562	2566
40°	2299	2423	2486
45°	2168	2277	2393
50°	2029	2145	2291
55°	1872	1996	2168
60°	1686	1821	2016
65°	1489	1620	1834
70°	1240	1378	1558
75°	975	1102	1219
80°	697	775	859
85°	457	457	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	4.1
10°-20°	144.7	11.4
20°-30°	211.5	16.7
30°-40°	240.0	19.0
40°-50°	231.7	18.3
50°-60°	191.1	15.1
60°-70°	127.3	10.1
70°-80°	57.0	4.5
80°-90°	10.2	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°	407.7	32.2
0°-40°	647.7	51.2
0°-60°	1070.6	84.6
0°-90°	1265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	546	544	541	540	52
15°	515	516	515	513	509	145
25°	457	461	463	460	456	209
35°	368	373	390	392	390	230
45°	285	290	299	313	314	220
55°	200	203	213	224	231	178
65°	117	120	127	136	144	116
75°	47	49	53	56	59	51
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°	547.1	547.1	547.1	547.1	547.1
2.5°	548.6	548.8	547.5	544.1	542.0
5°	546.4	546.2	544.1	541.2	539.5
7.5°	540.4	540.8	540.1	535.9	533.6
10°	534.5	534.7	533.0	529.6	526.9
12.5°	526.9	526.7	524.4	522.7	518.3
15°	514.9	516.2	514.9	512.6	509.0
17.5°	503.4	503.4	504.2	500.2	497.5
20°	490.3	491.0	491.0	487.8	484.7
22.5°	475.2	477.1	477.7	474.4	470.6
25°	457.3	460.9	463.0	459.6	455.7
27.5°	435.7	441.2	447.5	444.9	440.5
30°	411.5	419.5	430.0	427.9	424.8
32.5°	388.6	396.6	411.1	410.3	408.6
35°	367.8	372.8	389.9	392.0	390.5
37.5°	348.0	352.7	368.6	373.5	372.2
40°	327.2	332.3	344.9	353.5	353.9
42.5°	306.6	311.5	321.8	334.2	334.2
45°	284.8	289.6	299.1	312.7	314.4
47.5°	263.3	268.4	277.6	291.3	294.0
50°	242.3	247.0	256.2	269.4	273.6
52.5°	220.5	225.5	234.6	246.7	252.8
55°	199.5	202.8	212.7	224.5	231.0
57.5°	177.6	180.7	191.9	202.0	208.7
60°	156.6	160.6	169.2	179.5	187.3
62.5°	136.4	140.6	148.0	157.0	165.8
65°	116.9	120.0	127.2	136.2	144.0
67.5°	97.9	100.7	107.8	114.1	122.3
70°	78.8	82.4	87.6	93.7	99.0
72.5°	63.5	64.9	69.4	73.8	79.2
75°	46.9	49.4	53.0	55.5	58.6
77.5°	33.6	35.1	37.2	39.3	42.2
80°	22.5	23.1	25.0	25.4	27.7
82.5°	13.7	14.1	14.5	14.7	15.6
85°	7.4	7.4	7.4	6.9	6.9
87.5°	4.2	4.2	3.6	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)