

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: P554552

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-80-88-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: P554552
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-LD4-1STD-50-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

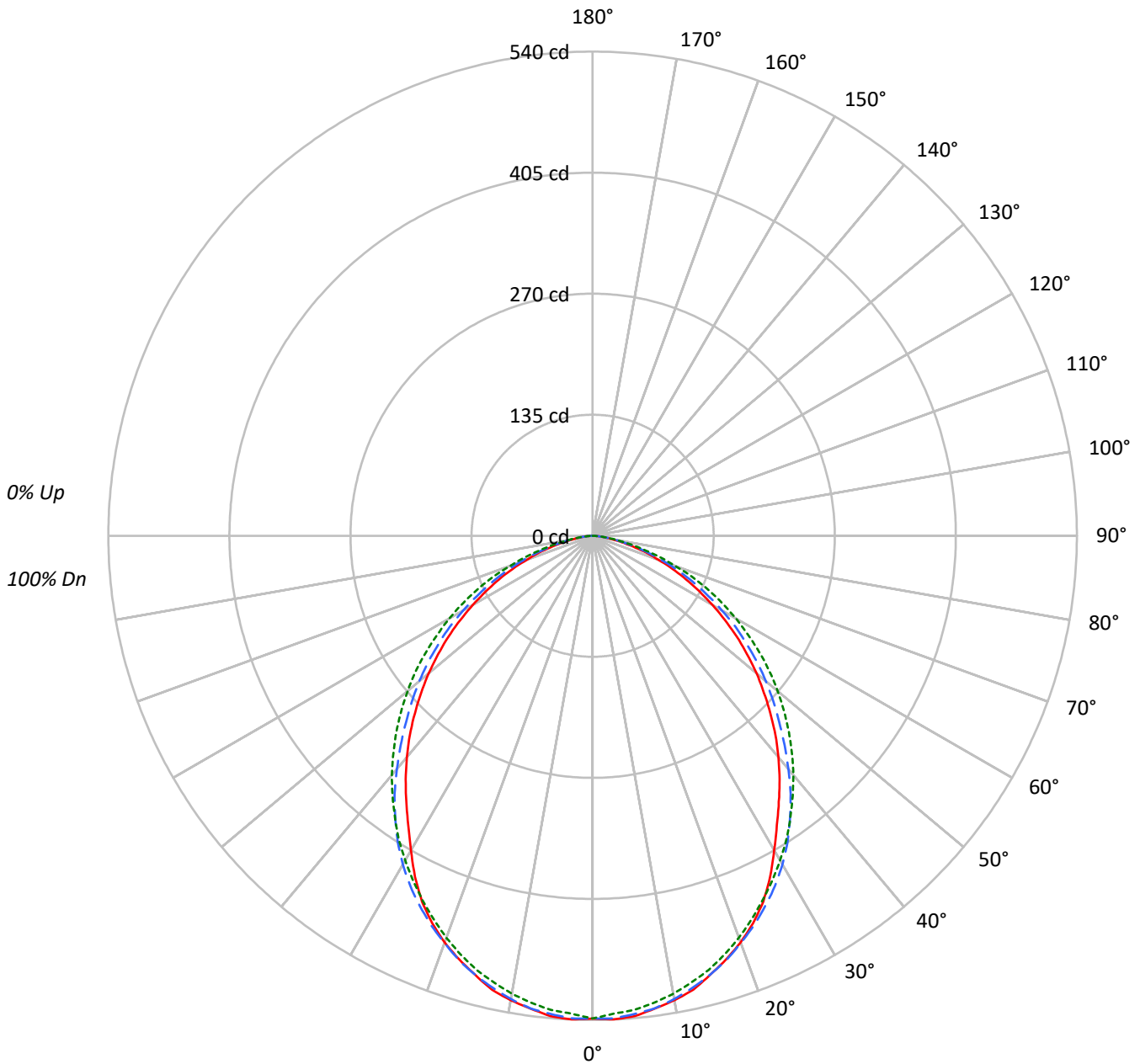
Lumens per Lamp: N/A
Luminaire Lumens: 1245.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	2898	2898	2898
5°	2905	2893	2869
10°	2875	2867	2834
15°	2824	2824	2791
20°	2764	2767	2732
25°	2673	2706	2663
30°	2517	2630	2598
35°	2378	2521	2525
40°	2263	2385	2447
45°	2133	2240	2355
50°	1997	2112	2255
55°	1842	1964	2133
60°	1659	1792	1984
65°	1465	1593	1805
70°	1221	1358	1533
75°	959	1083	1200
80°	685	762	846
85°	445	445	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	4.1
10°-20°	142.4	11.4
20°-30°	208.1	16.7
30°-40°	236.2	19.0
40°-50°	228.0	18.3
50°-60°	188.1	15.1
60°-70°	125.3	10.1
70°-80°	56.1	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°	401.2	32.2
0°-40°	637.5	51.2
0°-60°	1053.6	84.6
0°-90°	1245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	538	538	536	533	531	51
15°	507	508	507	504	501	143
25°	450	454	456	452	448	206
35°	362	367	384	386	384	227
45°	280	285	294	308	309	216
55°	196	200	209	221	227	175
65°	115	118	125	134	142	114
75°	46	49	52	55	58	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°	538.4	538.4	538.4	538.4	538.4
2.5°	539.9	540.1	538.8	535.5	533.5
5°	537.8	537.6	535.5	532.6	531.0
7.5°	531.8	532.2	531.6	527.5	525.2
10°	526.0	526.2	524.6	521.3	518.6
12.5°	518.6	518.4	516.1	514.4	510.1
15°	506.8	508.0	506.8	504.5	501.0
17.5°	495.4	495.4	496.2	492.3	489.6
20°	482.6	483.2	483.2	480.1	477.0
22.5°	467.7	469.5	470.2	466.9	463.1
25°	450.1	453.6	455.7	452.4	448.5
27.5°	428.8	434.2	440.4	437.9	433.6
30°	405.0	412.9	423.2	421.1	418.0
32.5°	382.5	390.3	404.6	403.8	402.1
35°	362.0	367.0	383.7	385.8	384.3
37.5°	342.5	347.1	362.8	367.6	366.3
40°	322.1	327.0	339.4	347.9	348.3
42.5°	301.8	306.6	316.7	328.9	328.9
45°	280.3	285.0	294.3	307.8	309.4
47.5°	259.2	264.1	273.2	286.7	289.4
50°	238.5	243.0	252.2	265.2	269.3
52.5°	217.0	221.9	230.8	242.8	248.8
55°	196.3	199.6	209.3	220.9	227.3
57.5°	174.8	177.9	188.9	198.8	205.4
60°	154.1	158.0	166.5	176.6	184.3
62.5°	134.2	138.4	145.6	154.5	163.2
65°	115.0	118.1	125.1	134.0	141.7
67.5°	96.4	99.1	106.1	112.3	120.4
70°	77.6	81.1	86.3	92.3	97.4
72.5°	62.5	63.9	68.3	72.6	78.0
75°	46.1	48.6	52.1	54.6	57.7
77.5°	33.1	34.5	36.6	38.7	41.6
80°	22.1	22.8	24.6	25.0	27.3
82.5°	13.4	13.9	14.3	14.5	15.3
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)