

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: P554233

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-80-88-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: P554233
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

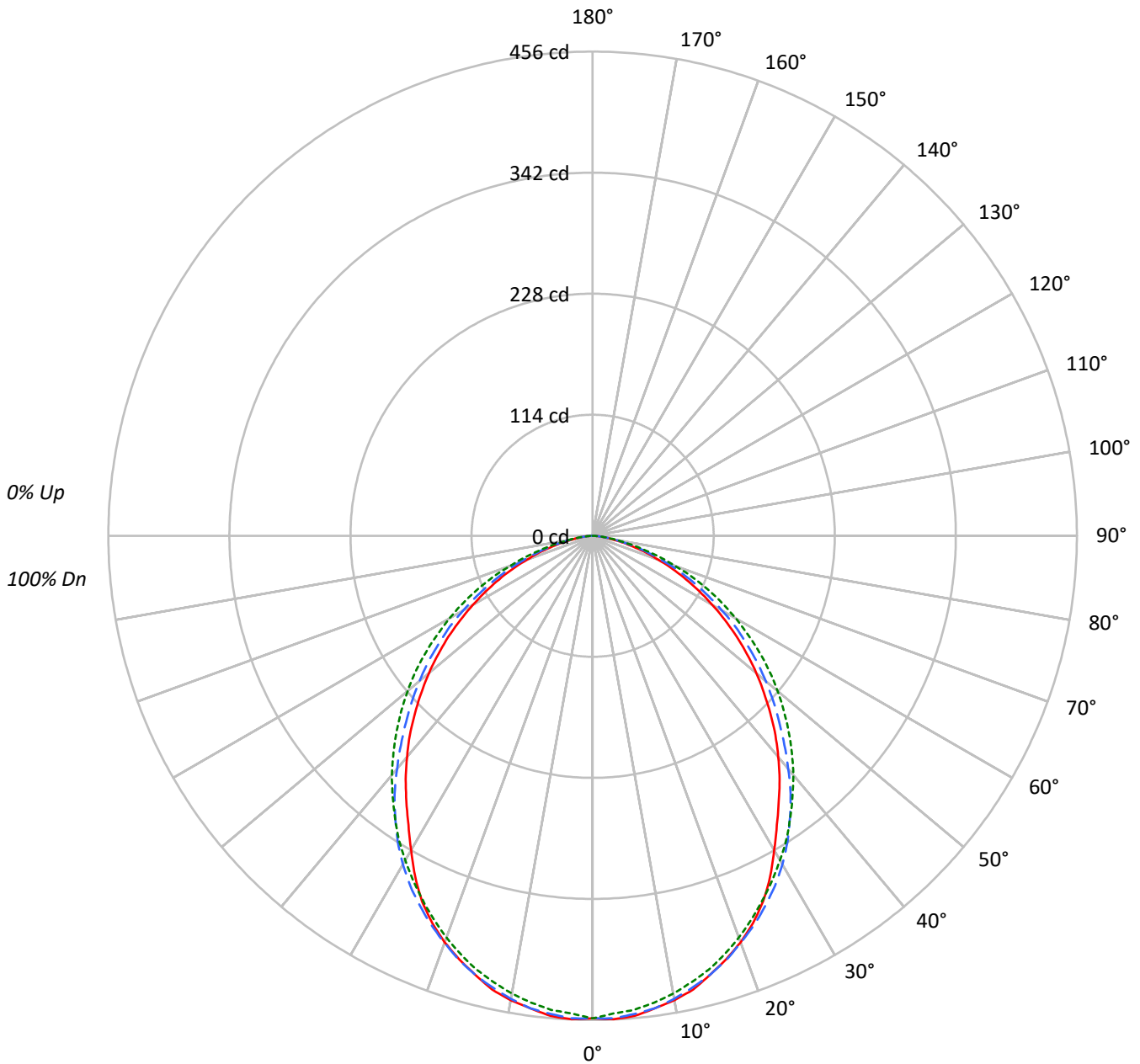
Lumens per Lamp: N/A
Luminaire Lumens: 1051.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554233

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-80-88-EDD

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°	2446	2446	2446
5°	2453	2442	2421
10°	2427	2420	2393
15°	2384	2384	2356
20°	2333	2336	2306
25°	2257	2284	2248
30°	2125	2220	2193
35°	2008	2128	2131
40°	1910	2013	2066
45°	1801	1891	1988
50°	1685	1783	1904
55°	1555	1658	1801
60°	1400	1513	1675
65°	1237	1345	1523
70°	1031	1146	1293
75°	809	915	1013
80°	580	645	713
85°	377	377	358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	4.1
10°-20°	120.2	11.4
20°-30°	175.7	16.7
30°-40°	199.4	19.0
40°-50°	192.5	18.3
50°-60°	158.8	15.1
60°-70°	105.7	10.1
70°-80°	47.3	4.5
80°-90°	8.5	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°	338.7	32.2
0°-40°	538.1	51.2
0°-60°	889.5	84.6
0°-90°	1051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	454	454	452	450	448	43
15°	428	429	428	426	423	121
25°	380	383	385	382	379	174
35°	306	310	324	326	324	191
45°	237	241	248	260	261	183
55°	166	168	177	186	192	148
65°	97	100	106	113	120	96
75°	39	41	44	46	49	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°	454.5	454.5	454.5	454.5	454.5
2.5°	455.8	455.9	454.9	452.1	450.3
5°	454.0	453.8	452.1	449.6	448.2
7.5°	448.9	449.3	448.8	445.3	443.4
10°	444.1	444.2	442.8	440.0	437.8
12.5°	437.8	437.6	435.7	434.3	430.6
15°	427.8	428.9	427.8	425.9	422.9
17.5°	418.2	418.2	418.9	415.6	413.3
20°	407.4	407.9	407.9	405.3	402.7
22.5°	394.8	396.4	396.9	394.1	391.0
25°	380.0	382.9	384.7	381.9	378.6
27.5°	362.0	366.5	371.8	369.7	366.0
30°	341.9	348.5	357.3	355.5	352.9
32.5°	322.9	329.5	341.6	340.9	339.5
35°	305.6	309.8	323.9	325.7	324.4
37.5°	289.2	293.0	306.3	310.3	309.2
40°	271.9	276.1	286.5	293.7	294.1
42.5°	254.8	258.8	267.3	277.6	277.6
45°	236.6	240.6	248.5	259.8	261.2
47.5°	218.8	223.0	230.7	242.0	244.3
50°	201.3	205.2	212.9	223.9	227.4
52.5°	183.2	187.4	194.9	205.0	210.1
55°	165.7	168.5	176.7	186.5	191.9
57.5°	147.6	150.2	159.4	167.8	173.4
60°	130.1	133.4	140.6	149.1	155.6
62.5°	113.3	116.8	122.9	130.4	137.8
65°	97.1	99.7	105.6	113.2	119.6
67.5°	81.4	83.6	89.6	94.8	101.6
70°	65.5	68.5	72.8	77.9	82.2
72.5°	52.7	54.0	57.6	61.3	65.8
75°	38.9	41.0	44.0	46.1	48.7
77.5°	27.9	29.2	30.9	32.7	35.1
80°	18.7	19.2	20.8	21.1	23.0
82.5°	11.4	11.7	12.0	12.2	12.9
85°	6.1	6.1	6.1	5.8	5.8
87.5°	3.5	3.5	3.0	2.4	1.7
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)