

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: P554169

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-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: P554169
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-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

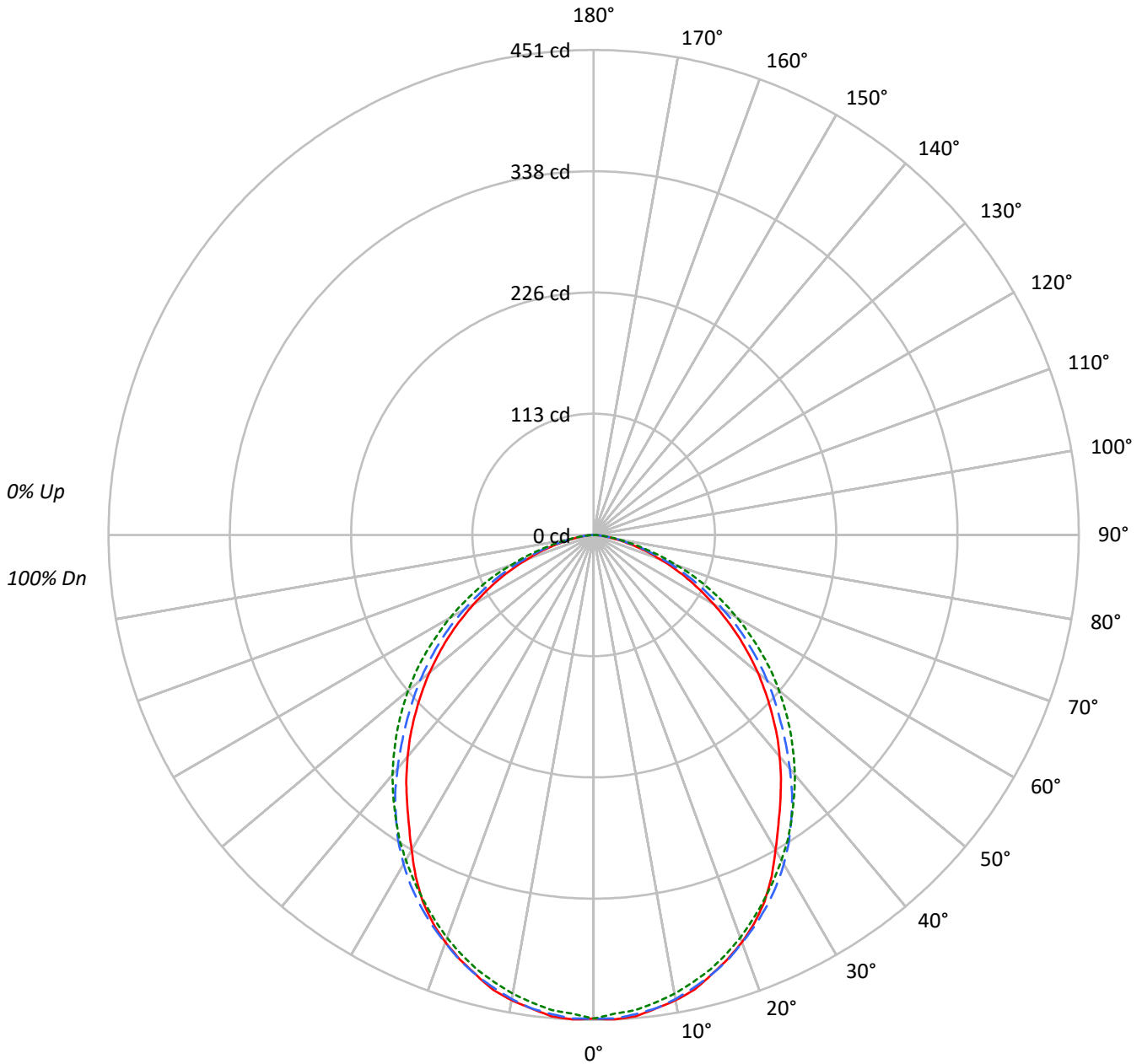
Lumens per Lamp: N/A
Luminaire Lumens: 1040.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	2421	2421	2421
5°	2427	2417	2397
10°	2401	2395	2367
15°	2359	2359	2332
20°	2309	2312	2282
25°	2233	2261	2224
30°	2102	2197	2170
35°	1987	2106	2109
40°	1890	1992	2044
45°	1782	1872	1968
50°	1668	1763	1884
55°	1539	1641	1782
60°	1385	1497	1658
65°	1224	1331	1508
70°	1020	1135	1281
75°	801	905	1002
80°	573	638	707
85°	371	371	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	4.1
10°-20°	119.0	11.4
20°-30°	173.9	16.7
30°-40°	197.3	19.0
40°-50°	190.5	18.3
50°-60°	157.2	15.1
60°-70°	104.7	10.1
70°-80°	46.8	4.5
80°-90°	8.4	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°	335.2	32.2
0°-40°	532.5	51.2
0°-60°	880.1	84.6
0°-90°	1040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	449	449	447	445	444	43
15°	423	424	423	421	418	119
25°	376	379	381	378	375	172
35°	302	306	320	322	321	189
45°	234	238	246	257	258	181
55°	164	167	175	184	190	146
65°	96	99	104	112	118	95
75°	38	41	44	46	48	42
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°	449.8	449.8	449.8	449.8	449.8
2.5°	451.0	451.2	450.1	447.4	445.6
5°	449.3	449.1	447.4	444.9	443.6
7.5°	444.2	444.6	444.1	440.6	438.7
10°	439.4	439.6	438.2	435.4	433.2
12.5°	433.2	433.0	431.1	429.7	426.1
15°	423.3	424.4	423.3	421.4	418.5
17.5°	413.8	413.8	414.5	411.2	409.0
20°	403.1	403.6	403.6	401.0	398.5
22.5°	390.7	392.2	392.8	390.0	386.9
25°	376.0	378.9	380.7	377.9	374.6
27.5°	358.2	362.7	367.9	365.8	362.2
30°	338.3	344.9	353.5	351.8	349.2
32.5°	319.5	326.1	338.0	337.3	335.9
35°	302.4	306.5	320.5	322.3	321.0
37.5°	286.1	289.9	303.1	307.0	306.0
40°	269.0	273.2	283.5	290.6	291.0
42.5°	252.1	256.1	264.5	274.7	274.7
45°	234.1	238.1	245.9	257.1	258.5
47.5°	216.5	220.7	228.3	239.5	241.7
50°	199.2	203.0	210.6	221.5	225.0
52.5°	181.3	185.4	192.8	202.9	207.9
55°	164.0	166.7	174.9	184.5	189.9
57.5°	146.0	148.6	157.8	166.1	171.6
60°	128.7	132.0	139.1	147.6	154.0
62.5°	112.1	115.6	121.6	129.1	136.3
65°	96.1	98.7	104.5	112.0	118.4
67.5°	80.5	82.8	88.6	93.8	100.6
70°	64.8	67.7	72.1	77.1	81.4
72.5°	52.2	53.4	57.0	60.6	65.1
75°	38.5	40.6	43.5	45.6	48.2
77.5°	27.6	28.9	30.6	32.3	34.7
80°	18.5	19.0	20.6	20.9	22.8
82.5°	11.2	11.6	11.9	12.1	12.8
85°	6.0	6.0	6.0	5.7	5.7
87.5°	3.5	3.5	2.9	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)