

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: P554256

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-82-84-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: P554256
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

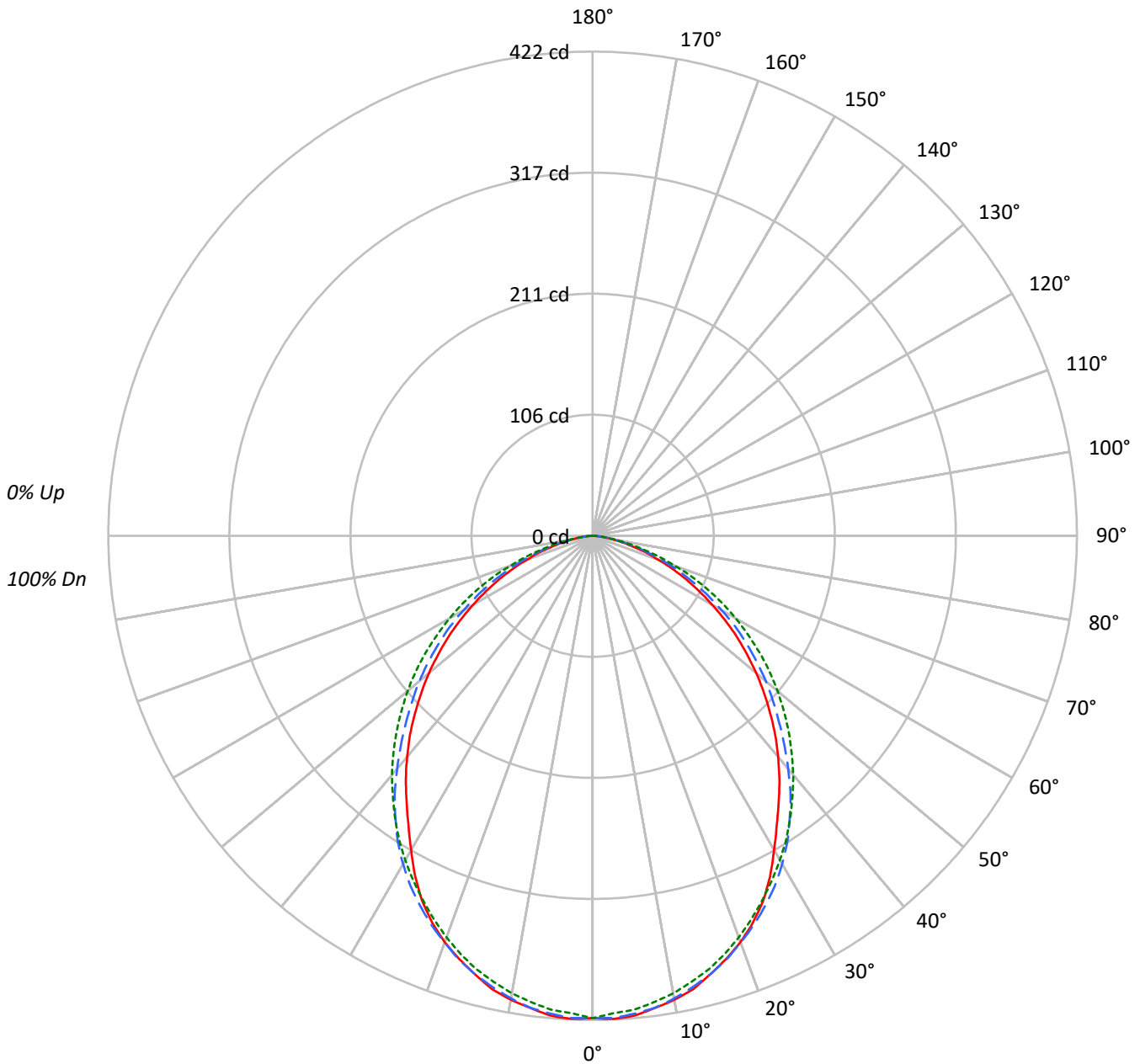
Lumens per Lamp: N/A
Luminaire Lumens: 972.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2263	2263	2263
5°	2269	2259	2240
10°	2244	2238	2213
15°	2205	2205	2179
20°	2158	2160	2133
25°	2087	2113	2079
30°	1965	2053	2028
35°	1857	1968	1972
40°	1766	1862	1911
45°	1665	1749	1839
50°	1559	1649	1761
55°	1438	1533	1666
60°	1295	1399	1549
65°	1144	1244	1408
70°	954	1059	1197
75°	749	846	938
80°	536	595	660
85°	352	352	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	4.1
10°-20°	111.2	11.4
20°-30°	162.5	16.7
30°-40°	184.4	19.0
40°-50°	178.0	18.3
50°-60°	146.9	15.1
60°-70°	97.8	10.1
70°-80°	43.8	4.5
80°-90°	7.8	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°	313.3	32.2
0°-40°	497.7	51.2
0°-60°	822.6	84.6
0°-90°	972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	420	420	420	420	420	
5°	420	420	418	416	415	40
15°	396	397	396	394	391	112
25°	351	354	356	353	350	161
35°	283	286	300	301	300	177
45°	219	222	230	240	242	169
55°	153	156	163	172	178	137
65°	90	92	98	105	111	89
75°	36	38	41	43	45	39
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	420.4	420.4	420.4	420.4	420.4
2.5°	421.5	421.7	420.7	418.1	416.5
5°	419.9	419.7	418.1	415.8	414.6
7.5°	415.2	415.5	415.0	411.8	410.0
10°	410.7	410.8	409.5	407.0	404.9
12.5°	404.9	404.7	402.9	401.6	398.2
15°	395.7	396.6	395.7	393.9	391.1
17.5°	386.8	386.8	387.4	384.4	382.3
20°	376.8	377.2	377.2	374.8	372.4
22.5°	365.1	366.6	367.1	364.5	361.6
25°	351.4	354.2	355.8	353.2	350.1
27.5°	334.8	339.0	343.8	341.9	338.5
30°	316.2	322.3	330.4	328.8	326.4
32.5°	298.6	304.7	315.9	315.2	313.9
35°	282.6	286.5	299.6	301.2	300.1
37.5°	267.4	271.0	283.3	287.0	286.0
40°	251.4	255.3	265.0	271.6	272.0
42.5°	235.6	239.3	247.2	256.8	256.8
45°	218.8	222.5	229.8	240.3	241.6
47.5°	202.4	206.2	213.3	223.8	225.9
50°	186.2	189.8	196.9	207.0	210.3
52.5°	169.4	173.3	180.2	189.6	194.3
55°	153.3	155.8	163.4	172.5	177.5
57.5°	136.5	138.9	147.4	155.2	160.4
60°	120.3	123.4	130.0	137.9	143.9
62.5°	104.8	108.0	113.7	120.6	127.4
65°	89.8	92.2	97.7	104.6	110.6
67.5°	75.3	77.4	82.8	87.7	94.0
70°	60.6	63.3	67.3	72.0	76.1
72.5°	48.8	49.9	53.3	56.7	60.9
75°	36.0	38.0	40.7	42.6	45.1
77.5°	25.8	27.0	28.6	30.2	32.5
80°	17.3	17.8	19.2	19.5	21.3
82.5°	10.5	10.8	11.1	11.3	12.0
85°	5.7	5.7	5.7	5.3	5.3
87.5°	3.2	3.2	2.7	2.3	1.6
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)