

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: P555485

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-96-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: P555485
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-LD4-3HI-35-UNV-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

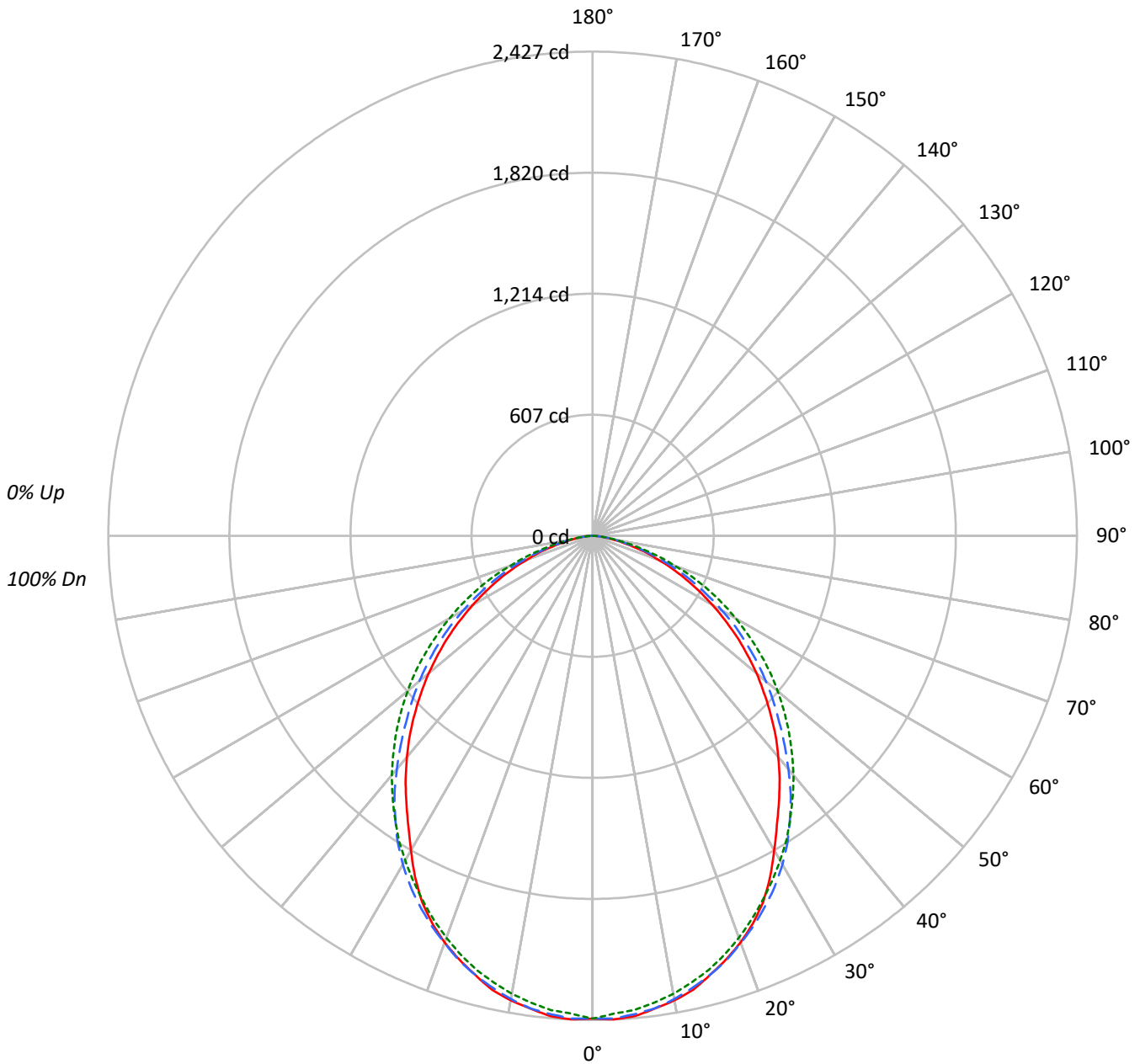
Lumens per Lamp: N/A
Luminaire Lumens: 5596.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	13025	13025	13025
5°	13060	13004	12894
10°	12921	12885	12738
15°	12692	12692	12547
20°	12423	12439	12279
25°	12014	12163	11970
30°	11313	11822	11677
35°	10690	11332	11350
40°	10170	10719	11000
45°	9589	10070	10586
50°	8976	9490	10135
55°	8279	8829	9588
60°	7456	8056	8917
65°	6583	7163	8111
70°	5487	6101	6891
75°	4311	4872	5394
80°	3084	3428	3803
85°	2007	2007	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	4.1
10°-20°	640.1	11.4
20°-30°	935.4	16.7
30°-40°	1061.8	19.0
40°-50°	1025.0	18.3
50°-60°	845.6	15.1
60°-70°	563.1	10.1
70°-80°	252.0	4.5
80°-90°	45.1	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°	1803.4	32.2
0°-40°	2865.3	51.2
0°-60°	4735.9	84.6
0°-90°	5596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2420	2420	2420	2420	2420	
5°	2417	2416	2407	2394	2387	229
15°	2278	2284	2278	2268	2252	642
25°	2023	2039	2048	2033	2016	926
35°	1627	1649	1725	1734	1728	1019
45°	1260	1281	1323	1384	1391	972
55°	882	897	941	993	1022	787
65°	517	531	562	602	637	513
75°	207	218	234	246	259	227
85°	32	32	32	31	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2420.1	2420.1	2420.1	2420.1	2420.1
2.5°	2426.6	2427.6	2422.0	2407.1	2397.8
5°	2417.3	2416.4	2407.1	2394.1	2386.7
7.5°	2390.4	2392.2	2389.4	2370.8	2360.6
10°	2364.3	2365.3	2357.8	2343.0	2330.9
12.5°	2330.9	2329.9	2319.7	2312.3	2292.8
15°	2277.9	2283.5	2277.9	2267.6	2251.8
17.5°	2226.7	2226.7	2230.5	2212.8	2200.7
20°	2169.1	2171.9	2171.9	2157.9	2144.0
22.5°	2102.2	2110.5	2113.3	2098.4	2081.7
25°	2023.1	2038.9	2048.2	2033.4	2015.7
27.5°	1927.4	1951.5	1979.4	1968.3	1948.7
30°	1820.4	1855.8	1902.3	1893.0	1879.0
32.5°	1719.1	1754.4	1818.6	1814.9	1807.4
35°	1627.1	1649.4	1724.7	1734.0	1727.5
37.5°	1539.7	1560.1	1630.8	1652.2	1646.6
40°	1447.6	1469.9	1525.7	1563.8	1565.7
42.5°	1356.5	1377.9	1423.4	1478.3	1478.3
45°	1259.8	1281.2	1323.0	1383.5	1390.9
47.5°	1165.0	1187.3	1228.2	1288.6	1300.7
50°	1072.0	1092.5	1133.4	1191.9	1210.5
52.5°	975.3	997.6	1037.6	1091.5	1118.5
55°	882.3	897.2	940.9	993.0	1021.8
57.5°	785.6	799.6	848.9	893.5	923.2
60°	692.7	710.3	748.4	794.0	828.4
62.5°	603.4	622.0	654.5	694.5	733.6
65°	516.9	530.9	562.5	602.5	636.9
67.5°	433.3	445.3	477.0	504.9	541.1
70°	348.7	364.5	387.7	414.7	437.9
72.5°	280.8	287.3	306.8	326.3	350.5
75°	207.3	218.5	234.3	245.5	259.4
77.5°	148.8	155.3	164.6	173.9	186.9
80°	99.5	102.3	110.6	112.5	122.7
82.5°	60.4	62.3	64.2	65.1	68.8
85°	32.5	32.5	32.5	30.7	30.7
87.5°	18.6	18.6	15.8	13.0	9.3
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)