

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: P555383

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-87-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: P555383
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-30-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

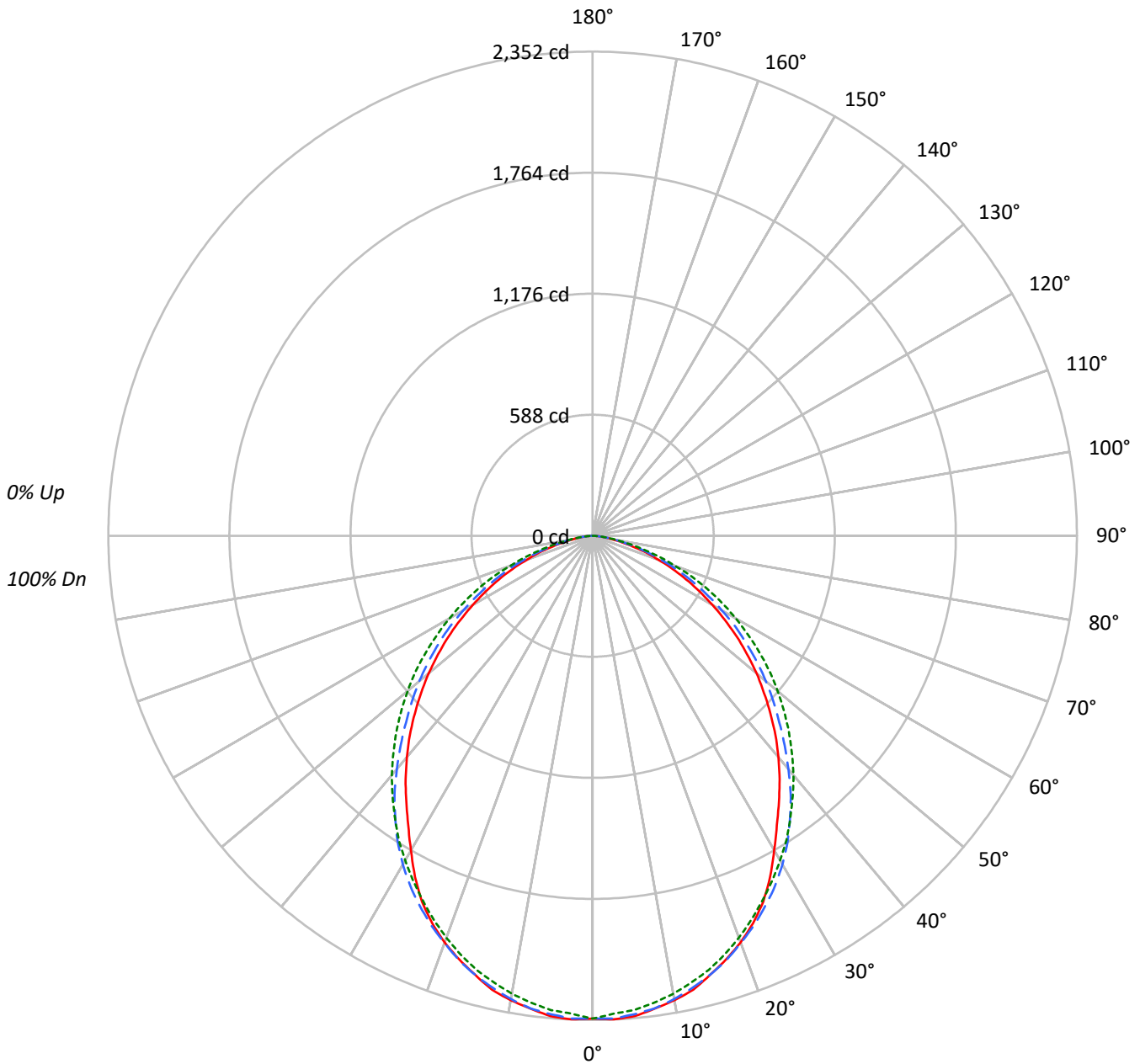
Lumens per Lamp: N/A
Luminaire Lumens: 5423.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	12622	12622	12622
5°	12656	12602	12495
10°	12521	12487	12344
15°	12300	12300	12159
20°	12039	12054	11900
25°	11643	11787	11600
30°	10964	11456	11316
35°	10360	10981	10999
40°	9856	10387	10660
45°	9293	9758	10259
50°	8699	9196	9822
55°	8024	8556	9291
60°	7225	7807	8641
65°	6380	6942	7860
70°	5317	5912	6678
75°	4178	4722	5228
80°	2988	3322	3685
85°	1945	1945	1834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	4.1
10°-20°	620.3	11.4
20°-30°	906.5	16.7
30°-40°	1029.0	19.0
40°-50°	993.3	18.3
50°-60°	819.4	15.1
60°-70°	545.7	10.1
70°-80°	244.2	4.5
80°-90°	43.7	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°	1747.7	32.2
0°-40°	2776.7	51.2
0°-60°	4589.5	84.6
0°-90°	5423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2345	2345	2345	2345	2345	
5°	2343	2342	2333	2320	2313	222
15°	2208	2213	2208	2198	2182	622
25°	1961	1976	1985	1970	1953	898
35°	1577	1598	1671	1680	1674	988
45°	1221	1242	1282	1341	1348	942
55°	855	870	912	962	990	763
65°	501	514	545	584	617	497
75°	201	212	227	238	251	220
85°	32	32	32	30	30	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2345.3	2345.3	2345.3	2345.3	2345.3
2.5°	2351.6	2352.5	2347.1	2332.7	2323.7
5°	2342.6	2341.7	2332.7	2320.1	2312.9
7.5°	2316.5	2318.3	2315.6	2297.6	2287.6
10°	2291.2	2292.1	2284.9	2270.5	2258.8
12.5°	2258.8	2257.9	2248.0	2240.8	2221.9
15°	2207.5	2212.9	2207.5	2197.5	2182.2
17.5°	2157.9	2157.9	2161.5	2144.4	2132.7
20°	2102.0	2104.7	2104.7	2091.2	2077.7
22.5°	2037.2	2045.3	2048.0	2033.6	2017.3
25°	1960.6	1975.9	1984.9	1970.5	1953.4
27.5°	1867.8	1891.2	1918.2	1907.4	1888.5
30°	1764.2	1798.4	1843.4	1834.4	1820.9
32.5°	1666.0	1700.2	1762.4	1758.8	1751.5
35°	1576.8	1598.4	1671.4	1680.4	1674.1
37.5°	1492.1	1511.9	1580.4	1601.1	1595.7
40°	1402.9	1424.5	1478.5	1515.5	1517.3
42.5°	1314.6	1335.3	1379.4	1432.6	1432.6
45°	1220.9	1241.6	1282.1	1340.7	1347.9
47.5°	1129.0	1150.6	1190.2	1248.8	1260.5
50°	1038.9	1058.7	1098.3	1155.1	1173.1
52.5°	945.2	966.8	1005.5	1057.8	1083.9
55°	855.1	869.5	911.8	962.3	990.2
57.5°	761.3	774.9	822.6	865.9	894.7
60°	671.2	688.4	725.3	769.5	802.8
62.5°	584.8	602.8	634.3	673.0	710.9
65°	501.0	514.5	545.1	583.8	617.2
67.5°	419.9	431.6	462.2	489.2	524.4
70°	337.9	353.2	375.7	401.8	424.4
72.5°	272.1	278.4	297.3	316.3	339.7
75°	200.9	211.7	227.1	237.9	251.4
77.5°	144.2	150.5	159.5	168.5	181.1
80°	96.4	99.1	107.2	109.0	118.9
82.5°	58.6	60.4	62.2	63.1	66.7
85°	31.5	31.5	31.5	29.7	29.7
87.5°	18.0	18.0	15.3	12.6	9.0
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)