

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: P555568

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-80-84-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: P555568
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-50-UNV-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

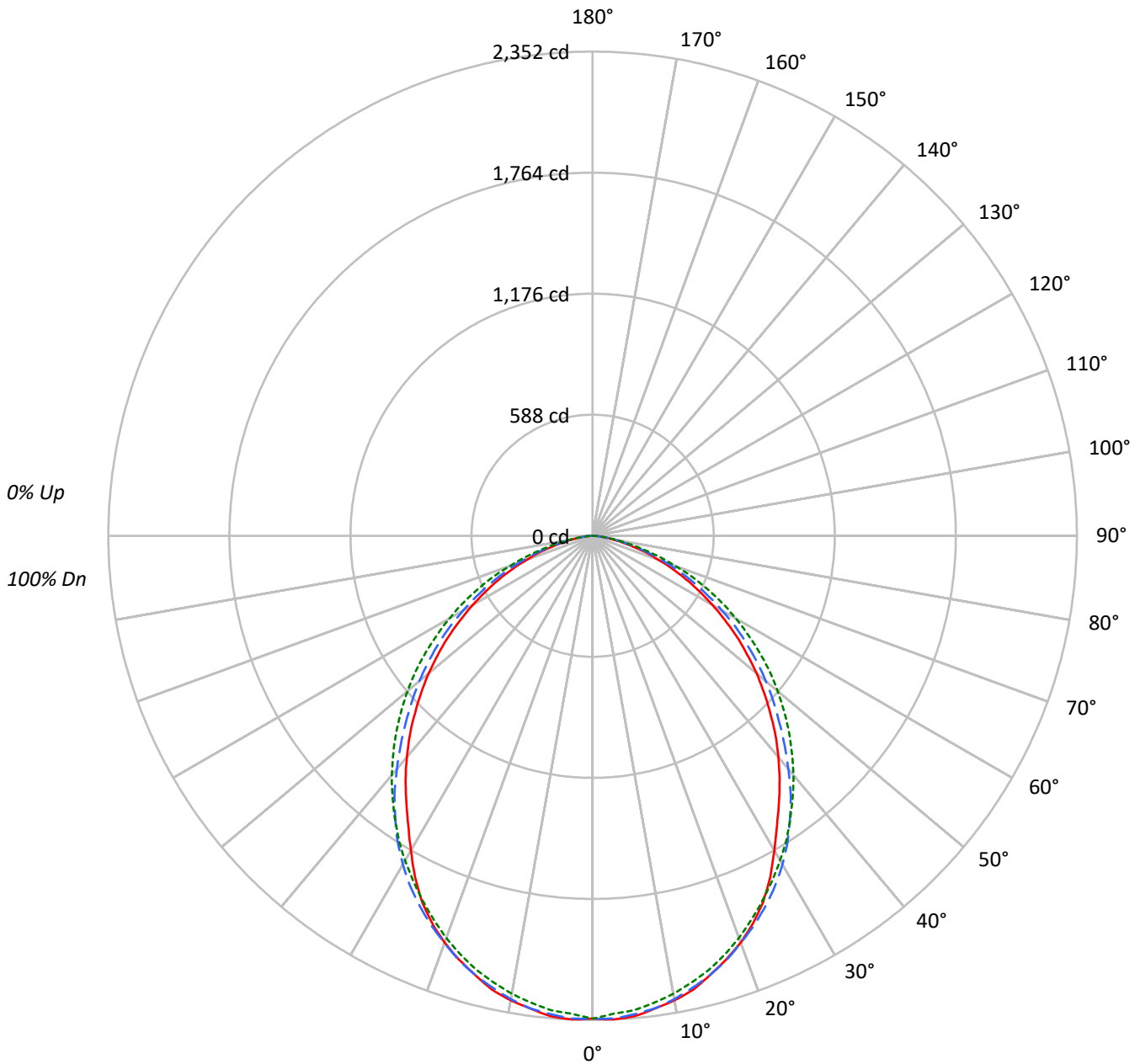
Lumens per Lamp: N/A
Luminaire Lumens: 5424.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555568

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-84-EDD-90

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°	12624	12624	12624
5°	12658	12605	12498
10°	12524	12490	12346
15°	12302	12302	12161
20°	12041	12057	11902
25°	11644	11789	11602
30°	10966	11458	11319
35°	10361	10983	11001
40°	9858	10390	10662
45°	9294	9761	10261
50°	8699	9198	9824
55°	8024	8557	9293
60°	7227	7808	8642
65°	6380	6943	7861
70°	5317	5914	6680
75°	4180	4722	5228
80°	2988	3322	3688
85°	1945	1945	1834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.9	4.1
10°-20°	620.5	11.4
20°-30°	906.7	16.7
30°-40°	1029.2	19.0
40°-50°	993.5	18.3
50°-60°	819.6	15.1
60°-70°	545.8	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°	1748.0	32.2
0°-40°	2777.2	51.2
0°-60°	4590.3	84.6
0°-90°	5424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2343	2342	2333	2320	2313	222
15°	2208	2213	2208	2198	2183	622
25°	1961	1976	1985	1971	1954	898
35°	1577	1599	1672	1681	1674	988
45°	1221	1242	1282	1341	1348	942
55°	855	870	912	962	990	763
65°	501	515	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°	2345.7	2345.7	2345.7	2345.7	2345.7
2.5°	2352.0	2352.9	2347.5	2333.1	2324.1
5°	2343.0	2342.1	2333.1	2320.5	2313.3
7.5°	2316.9	2318.7	2316.0	2298.0	2288.1
10°	2291.7	2292.6	2285.4	2270.9	2259.2
12.5°	2259.2	2258.3	2248.4	2241.2	2222.3
15°	2207.9	2213.3	2207.9	2197.9	2182.6
17.5°	2158.3	2158.3	2161.9	2144.8	2133.1
20°	2102.4	2105.1	2105.1	2091.6	2078.1
22.5°	2037.5	2045.7	2048.4	2033.9	2017.7
25°	1960.9	1976.3	1985.3	1970.9	1953.7
27.5°	1868.1	1891.6	1918.6	1907.8	1888.8
30°	1764.5	1798.7	1843.8	1834.8	1821.3
32.5°	1666.3	1700.5	1762.7	1759.1	1751.9
35°	1577.0	1598.7	1671.7	1680.7	1674.4
37.5°	1492.3	1512.2	1580.6	1601.4	1596.0
40°	1403.1	1424.7	1478.8	1515.8	1517.6
42.5°	1314.8	1335.5	1379.7	1432.9	1432.9
45°	1221.1	1241.8	1282.4	1340.9	1348.1
47.5°	1129.2	1150.8	1190.4	1249.0	1260.7
50°	1039.0	1058.9	1098.5	1155.3	1173.3
52.5°	945.3	967.0	1005.7	1058.0	1084.1
55°	855.2	869.6	912.0	962.4	990.4
57.5°	761.5	775.0	822.8	866.0	894.9
60°	671.4	688.5	725.4	769.6	802.9
62.5°	584.9	602.9	634.4	673.2	711.0
65°	501.0	514.6	545.2	584.0	617.3
67.5°	419.9	431.7	462.3	489.3	524.5
70°	337.9	353.3	375.8	401.9	424.5
72.5°	272.2	278.5	297.4	316.3	339.7
75°	201.0	211.8	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	119.0
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)