

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: P555588

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-86-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: P555588
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-81-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

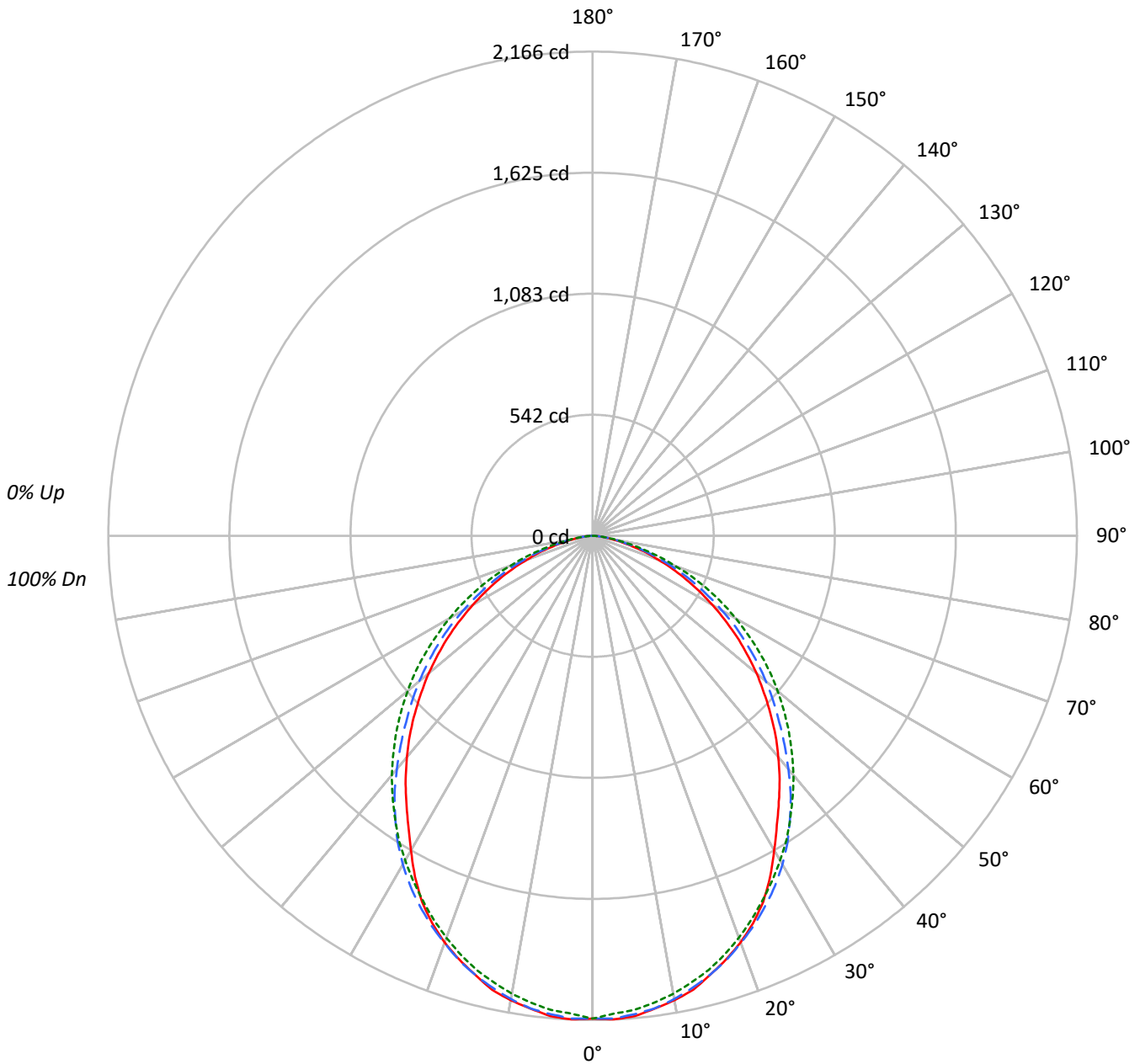
Lumens per Lamp: N/A
Luminaire Lumens: 4994.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11624	11624	11624
5°	11655	11606	11507
10°	11531	11499	11368
15°	11326	11326	11197
20°	11087	11101	10958
25°	10722	10855	10682
30°	10096	10550	10421
35°	9540	10112	10129
40°	9076	9566	9817
45°	8557	8987	9448
50°	8010	8468	9045
55°	7388	7879	8557
60°	6653	7189	7958
65°	5875	6393	7238
70°	4895	5445	6150
75°	3847	4348	4814
80°	2752	3059	3394
85°	1791	1791	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	4.1
10°-20°	571.3	11.4
20°-30°	834.8	16.7
30°-40°	947.6	19.0
40°-50°	914.8	18.3
50°-60°	754.6	15.1
60°-70°	502.5	10.1
70°-80°	224.9	4.5
80°-90°	40.2	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°	1609.4	32.2
0°-40°	2557.0	51.2
0°-60°	4226.4	84.6
0°-90°	4994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2157	2156	2148	2136	2130	204
15°	2033	2038	2033	2024	2010	573
25°	1806	1820	1828	1815	1799	827
35°	1452	1472	1539	1547	1542	910
45°	1124	1143	1181	1235	1241	867
55°	787	801	840	886	912	703
65°	461	474	502	538	568	457
75°	185	195	209	219	232	202
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2165.6	2166.4	2161.4	2148.2	2139.9
5°	2157.3	2156.5	2148.2	2136.5	2129.9
7.5°	2133.2	2134.9	2132.4	2115.8	2106.7
10°	2110.0	2110.8	2104.2	2090.9	2080.1
12.5°	2080.1	2079.3	2070.2	2063.5	2046.1
15°	2032.8	2037.8	2032.8	2023.7	2009.6
17.5°	1987.2	1987.2	1990.5	1974.7	1964.0
20°	1935.8	1938.2	1938.2	1925.8	1913.3
22.5°	1876.0	1883.5	1886.0	1872.7	1857.8
25°	1805.5	1819.6	1827.9	1814.6	1798.8
27.5°	1720.0	1741.6	1766.5	1756.5	1739.1
30°	1624.6	1656.1	1697.6	1689.3	1676.9
32.5°	1534.2	1565.7	1622.9	1619.6	1613.0
35°	1452.0	1471.9	1539.1	1547.4	1541.6
37.5°	1374.0	1392.3	1455.3	1474.4	1469.4
40°	1291.9	1311.8	1361.6	1395.6	1397.3
42.5°	1210.6	1229.7	1270.3	1319.3	1319.3
45°	1124.3	1143.4	1180.7	1234.6	1241.3
47.5°	1039.6	1059.6	1096.1	1150.0	1160.8
50°	956.7	974.9	1011.4	1063.7	1080.3
52.5°	870.4	890.3	926.0	974.1	998.2
55°	787.4	800.7	839.7	886.1	911.9
57.5°	701.1	713.6	757.5	797.4	823.9
60°	618.1	633.9	667.9	708.6	739.3
62.5°	538.5	555.1	584.1	619.8	654.7
65°	461.3	473.8	502.0	537.7	568.4
67.5°	386.7	397.4	425.6	450.5	482.9
70°	311.1	325.3	346.0	370.1	390.8
72.5°	250.6	256.4	273.8	291.2	312.8
75°	185.0	195.0	209.1	219.0	231.5
77.5°	132.8	138.6	146.9	155.2	166.8
80°	88.8	91.3	98.7	100.4	109.5
82.5°	53.9	55.6	57.3	58.1	61.4
85°	29.0	29.0	29.0	27.4	27.4
87.5°	16.6	16.6	14.1	11.6	8.3
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)