

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: P556015

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-93-97-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: P556015
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-LD4-3STD-35-UNV-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

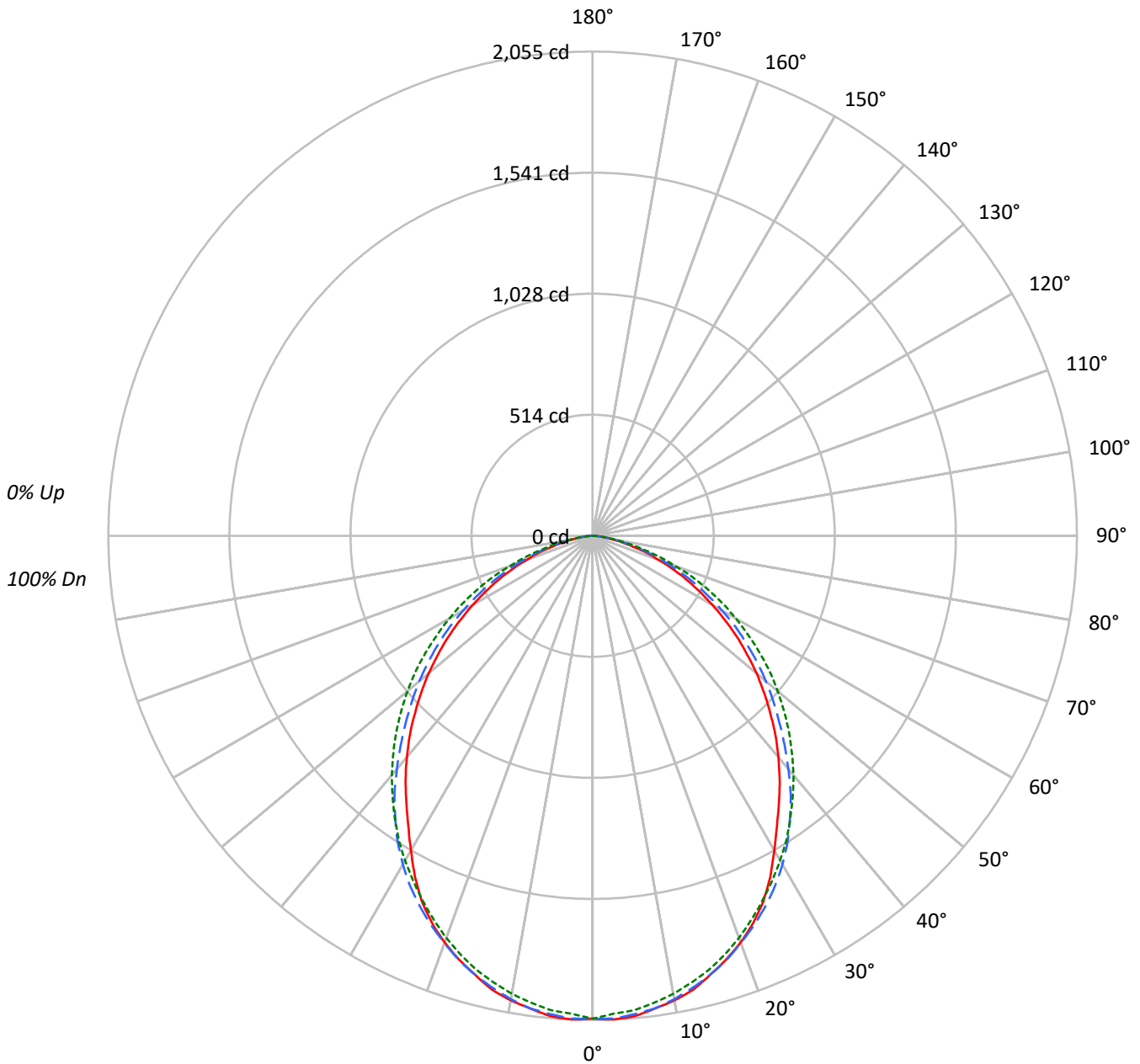
Lumens per Lamp: N/A
Luminaire Lumens: 4739.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (A_{in}): 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°	11030	11030	11030
5°	11059	11013	10920
10°	10943	10912	10787
15°	10748	10748	10625
20°	10521	10534	10399
25°	10174	10301	10137
30°	9580	10011	9889
35°	9053	9596	9611
40°	8613	9078	9315
45°	8120	8528	8965
50°	7601	8036	8583
55°	7011	7476	8119
60°	6314	6822	7551
65°	5575	6067	6868
70°	4647	5166	5835
75°	3651	4126	4569
80°	2610	2904	3220
85°	1704	1704	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	4.1
10°-20°	542.1	11.4
20°-30°	792.2	16.7
30°-40°	899.2	19.0
40°-50°	868.1	18.3
50°-60°	716.1	15.1
60°-70°	476.8	10.1
70°-80°	213.4	4.5
80°-90°	38.2	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°	1527.3	32.2
0°-40°	2426.5	51.2
0°-60°	4010.6	84.6
0°-90°	4739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	2047	2046	2038	2027	2021	194
15°	1929	1934	1929	1920	1907	544
25°	1713	1727	1735	1722	1707	785
35°	1378	1397	1461	1468	1463	863
45°	1067	1085	1120	1172	1178	823
55°	747	760	797	841	865	667
65°	438	450	476	510	539	434
75°	176	185	198	208	220	192
85°	28	28	28	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2049.5	2049.5	2049.5	2049.5	2049.5
2.5°	2055.0	2055.8	2051.1	2038.5	2030.6
5°	2047.1	2046.3	2038.5	2027.4	2021.2
7.5°	2024.3	2025.9	2023.5	2007.8	1999.1
10°	2002.3	2003.0	1996.7	1984.1	1973.9
12.5°	1973.9	1973.1	1964.5	1958.2	1941.6
15°	1929.0	1933.8	1929.0	1920.4	1907.0
17.5°	1885.7	1885.7	1888.9	1873.9	1863.7
20°	1836.9	1839.3	1839.3	1827.5	1815.6
22.5°	1780.2	1787.3	1789.7	1777.1	1762.9
25°	1713.3	1726.7	1734.6	1722.0	1707.0
27.5°	1632.2	1652.7	1676.3	1666.8	1650.3
30°	1541.6	1571.6	1610.9	1603.1	1591.3
32.5°	1455.8	1485.7	1540.1	1536.9	1530.6
35°	1377.9	1396.8	1460.6	1468.4	1462.9
37.5°	1303.9	1321.2	1381.0	1399.1	1394.4
40°	1225.9	1244.8	1292.1	1324.3	1325.9
42.5°	1148.8	1166.9	1205.4	1251.9	1251.9
45°	1066.9	1085.0	1120.4	1171.6	1177.9
47.5°	986.6	1005.5	1040.1	1091.3	1101.5
50°	907.8	925.1	959.8	1009.4	1025.1
52.5°	825.9	844.8	878.7	924.4	947.2
55°	747.2	759.8	796.8	840.9	865.3
57.5°	665.3	677.1	718.9	756.7	781.8
60°	586.6	601.5	633.8	672.4	701.5
62.5°	511.0	526.7	554.3	588.2	621.2
65°	437.8	449.6	476.4	510.2	539.3
67.5°	366.9	377.1	403.9	427.5	458.2
70°	295.3	308.6	328.3	351.2	370.8
72.5°	237.8	243.3	259.8	276.4	296.8
75°	175.6	185.0	198.4	207.9	219.7
77.5°	126.0	131.5	139.4	147.2	158.3
80°	84.2	86.6	93.7	95.3	103.9
82.5°	51.2	52.8	54.3	55.1	58.3
85°	27.6	27.6	27.6	26.0	26.0
87.5°	15.7	15.7	13.4	11.0	7.9
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)