

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: P556099

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-81-85-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: P556099
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-50-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

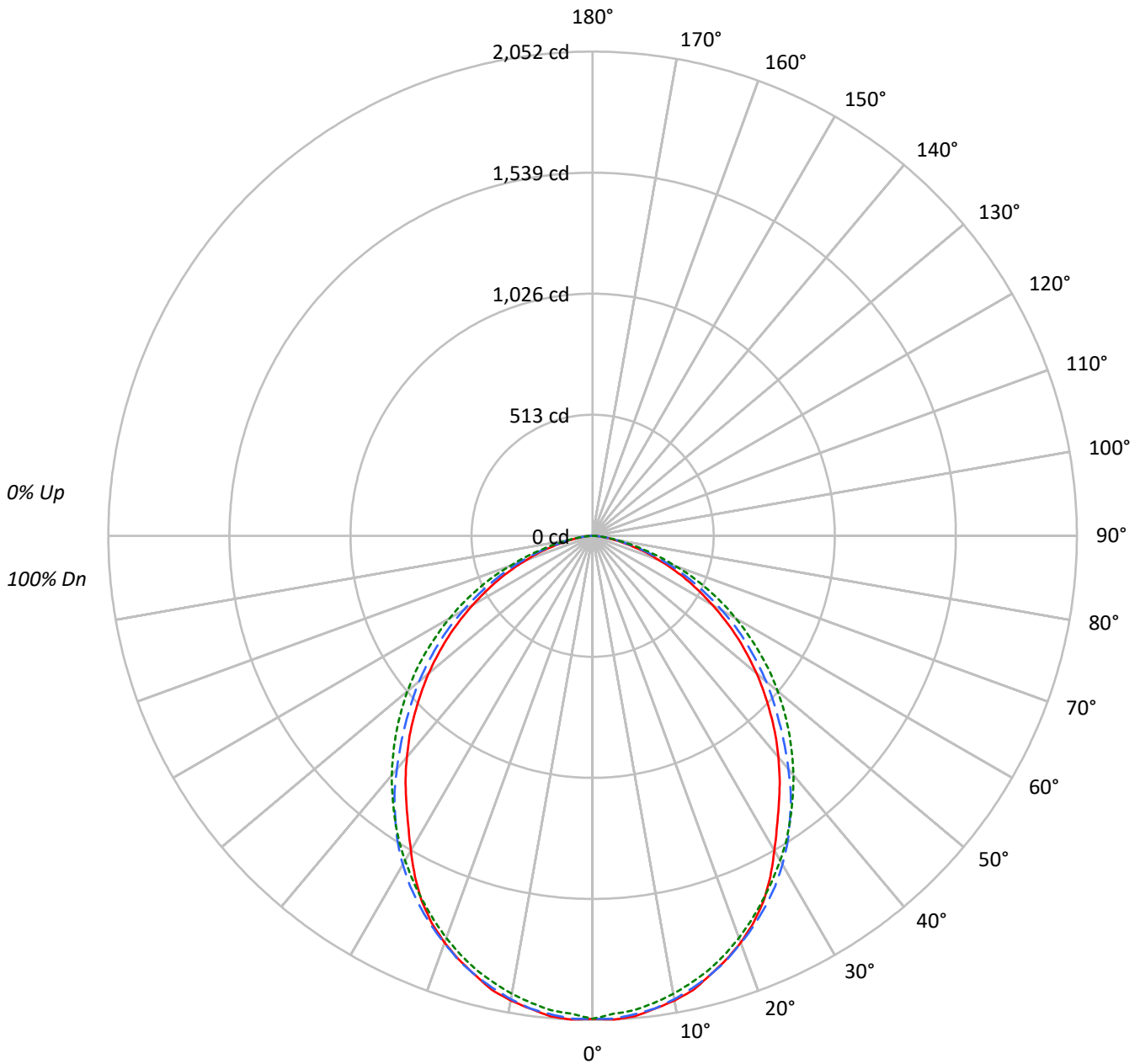
Lumens per Lamp: N/A
Luminaire Lumens: 4733.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	11016	11016	11016
5°	11045	10999	10906
10°	10928	10898	10774
15°	10735	10735	10612
20°	10507	10521	10386
25°	10161	10288	10124
30°	9569	9999	9876
35°	9041	9584	9600
40°	8602	9066	9303
45°	8110	8517	8954
50°	7592	8026	8572
55°	7003	7467	8109
60°	6306	6814	7541
65°	5568	6058	6860
70°	4640	5160	5829
75°	3647	4121	4562
80°	2607	2901	3217
85°	1698	1698	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	4.1
10°-20°	541.4	11.4
20°-30°	791.2	16.7
30°-40°	898.1	19.0
40°-50°	866.9	18.3
50°-60°	715.2	15.1
60°-70°	476.2	10.1
70°-80°	213.1	4.5
80°-90°	38.1	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°	1525.3	32.2
0°-40°	2423.4	51.2
0°-60°	4005.5	84.6
0°-90°	4733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2047	2047	2047	2047	2047	
5°	2044	2044	2036	2025	2019	194
15°	1927	1931	1927	1918	1905	543
25°	1711	1724	1732	1720	1705	784
35°	1376	1395	1459	1467	1461	862
45°	1066	1084	1119	1170	1176	822
55°	746	759	796	840	864	666
65°	437	449	476	510	539	433
75°	175	185	198	208	219	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°	2046.9	2046.9	2046.9	2046.9	2046.9
2.5°	2052.4	2053.2	2048.5	2035.9	2028.0
5°	2044.5	2043.8	2035.9	2024.9	2018.6
7.5°	2021.7	2023.3	2021.0	2005.2	1996.6
10°	1999.7	2000.5	1994.2	1981.6	1971.4
12.5°	1971.4	1970.6	1962.0	1955.7	1939.2
15°	1926.6	1931.3	1926.6	1917.9	1904.6
17.5°	1883.3	1883.3	1886.5	1871.5	1861.3
20°	1834.6	1836.9	1836.9	1825.1	1813.4
22.5°	1778.0	1785.0	1787.4	1774.8	1760.7
25°	1711.1	1724.5	1732.4	1719.8	1704.8
27.5°	1630.1	1650.6	1674.2	1664.7	1648.2
30°	1539.7	1569.6	1608.9	1601.0	1589.2
32.5°	1454.0	1483.9	1538.1	1535.0	1528.7
35°	1376.1	1395.0	1458.7	1466.6	1461.1
37.5°	1302.2	1319.5	1379.3	1397.4	1392.6
40°	1224.4	1243.2	1290.4	1322.7	1324.2
42.5°	1147.3	1165.4	1203.9	1250.3	1250.3
45°	1065.5	1083.6	1119.0	1170.1	1176.4
47.5°	985.3	1004.2	1038.8	1089.9	1100.1
50°	906.7	924.0	958.6	1008.1	1023.8
52.5°	824.9	843.8	877.6	923.2	946.0
55°	746.3	758.8	795.8	839.8	864.2
57.5°	664.5	676.3	717.9	755.7	780.9
60°	585.8	600.8	633.0	671.6	700.6
62.5°	510.3	526.1	553.6	587.4	620.4
65°	437.2	449.0	475.7	509.6	538.7
67.5°	366.4	376.7	403.4	427.0	457.7
70°	294.9	308.3	327.9	350.7	370.4
72.5°	237.5	243.0	259.5	276.0	296.5
75°	175.4	184.8	198.2	207.6	219.4
77.5°	125.8	131.3	139.2	147.0	158.1
80°	84.1	86.5	93.6	95.1	103.8
82.5°	51.1	52.7	54.3	55.0	58.2
85°	27.5	27.5	27.5	25.9	25.9
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)