

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: P556035

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-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: P556035
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

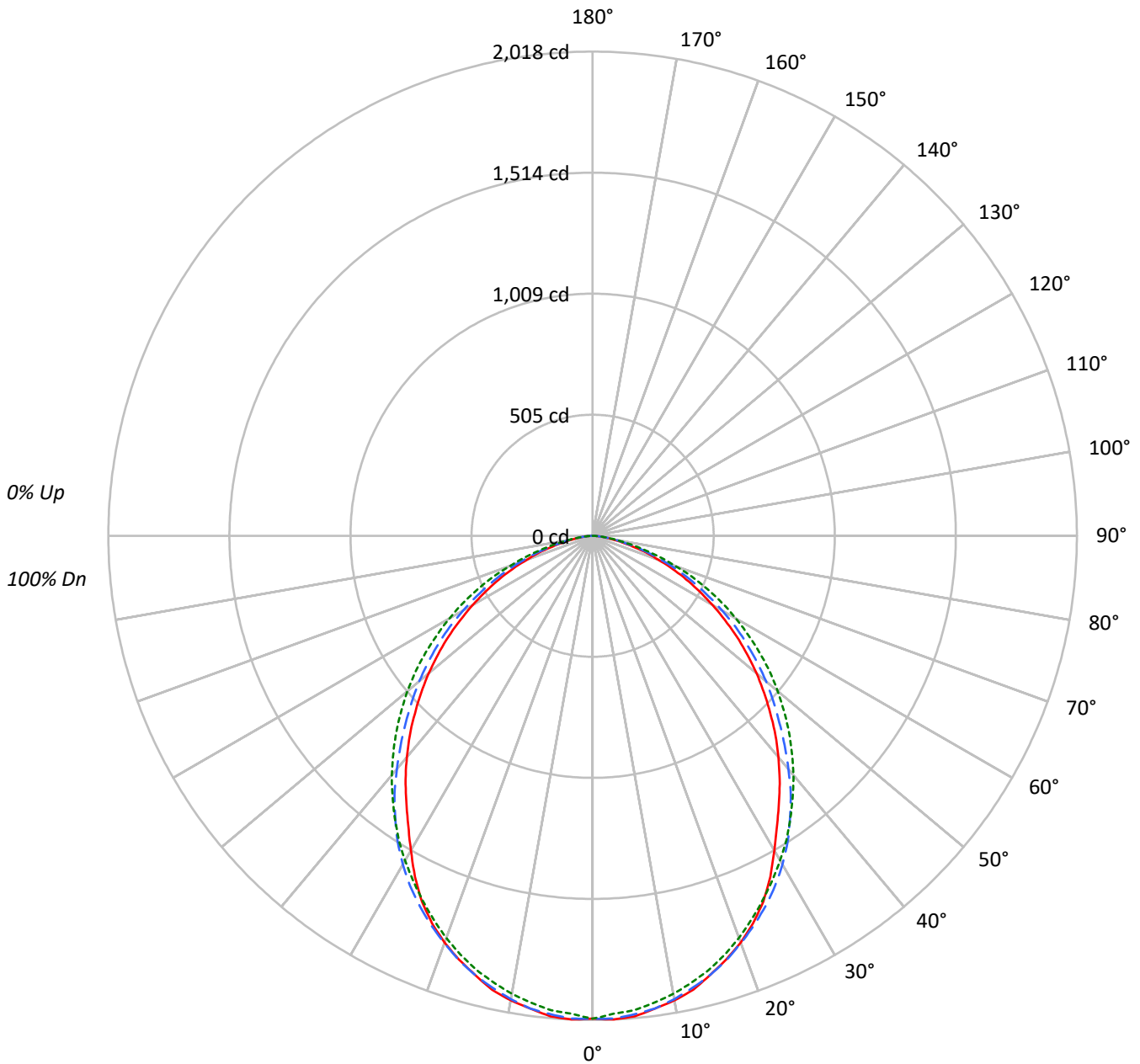
Lumens per Lamp: N/A
Luminaire Lumens: 4654.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	10832	10832	10832
5°	10861	10815	10723
10°	10746	10716	10594
15°	10555	10555	10435
20°	10332	10345	10212
25°	9992	10115	9955
30°	9409	9831	9711
35°	8891	9424	9439
40°	8458	8915	9148
45°	7974	8375	8805
50°	7464	7892	8430
55°	6885	7342	7974
60°	6201	6701	7416
65°	5475	5957	6746
70°	4563	5073	5731
75°	3585	4053	4485
80°	2563	2851	3164
85°	1673	1673	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	4.1
10°-20°	532.4	11.4
20°-30°	778.0	16.7
30°-40°	883.1	19.0
40°-50°	852.5	18.3
50°-60°	703.2	15.1
60°-70°	468.3	10.1
70°-80°	209.6	4.5
80°-90°	37.5	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°	1499.8	32.2
0°-40°	2382.9	51.2
0°-60°	3938.7	84.6
0°-90°	4654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2013	2013	2013	2013	2013	
5°	2010	2010	2002	1991	1985	190
15°	1894	1899	1894	1886	1873	534
25°	1683	1696	1703	1691	1676	771
35°	1353	1372	1434	1442	1437	848
45°	1048	1066	1100	1151	1157	808
55°	734	746	782	826	850	655
65°	430	442	468	501	530	426
75°	172	182	195	204	216	189
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2012.7	2012.7	2012.7	2012.7	2012.7
2.5°	2018.1	2018.9	2014.3	2001.9	1994.2
5°	2010.4	2009.6	2001.9	1991.1	1984.9
7.5°	1988.0	1989.5	1987.2	1971.8	1963.2
10°	1966.3	1967.1	1960.9	1948.6	1938.5
12.5°	1938.5	1937.7	1929.2	1923.0	1906.8
15°	1894.4	1899.1	1894.4	1885.9	1872.8
17.5°	1851.9	1851.9	1855.0	1840.3	1830.3
20°	1804.0	1806.3	1806.3	1794.7	1783.1
22.5°	1748.3	1755.2	1757.6	1745.2	1731.3
25°	1682.6	1695.7	1703.4	1691.1	1676.4
27.5°	1602.9	1623.0	1646.2	1636.9	1620.7
30°	1514.0	1543.4	1582.0	1574.3	1562.7
32.5°	1429.7	1459.1	1512.5	1509.4	1503.2
35°	1353.2	1371.7	1434.4	1442.1	1436.7
37.5°	1280.5	1297.5	1356.3	1374.0	1369.4
40°	1203.9	1222.5	1268.9	1300.6	1302.1
42.5°	1128.2	1145.9	1183.8	1229.4	1229.4
45°	1047.7	1065.5	1100.3	1150.6	1156.8
47.5°	968.9	987.4	1021.4	1071.7	1081.8
50°	891.5	908.6	942.6	991.3	1006.8
52.5°	811.1	829.7	862.9	907.8	930.2
55°	733.8	746.2	782.5	825.8	849.8
57.5°	653.4	665.0	706.0	743.1	767.8
60°	576.1	590.8	622.5	660.3	689.0
62.5°	501.8	517.3	544.4	577.6	610.1
65°	429.9	441.5	467.8	501.1	529.7
67.5°	360.3	370.4	396.7	419.9	450.0
70°	290.0	303.1	322.4	344.9	364.2
72.5°	233.5	238.9	255.2	271.4	291.5
75°	172.4	181.7	194.9	204.1	215.7
77.5°	123.7	129.1	136.9	144.6	155.4
80°	82.7	85.1	92.0	93.6	102.1
82.5°	50.3	51.8	53.4	54.1	57.2
85°	27.1	27.1	27.1	25.5	25.5
87.5°	15.5	15.5	13.1	10.8	7.7
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)