

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: P556113

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-82-84-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: P556113
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-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

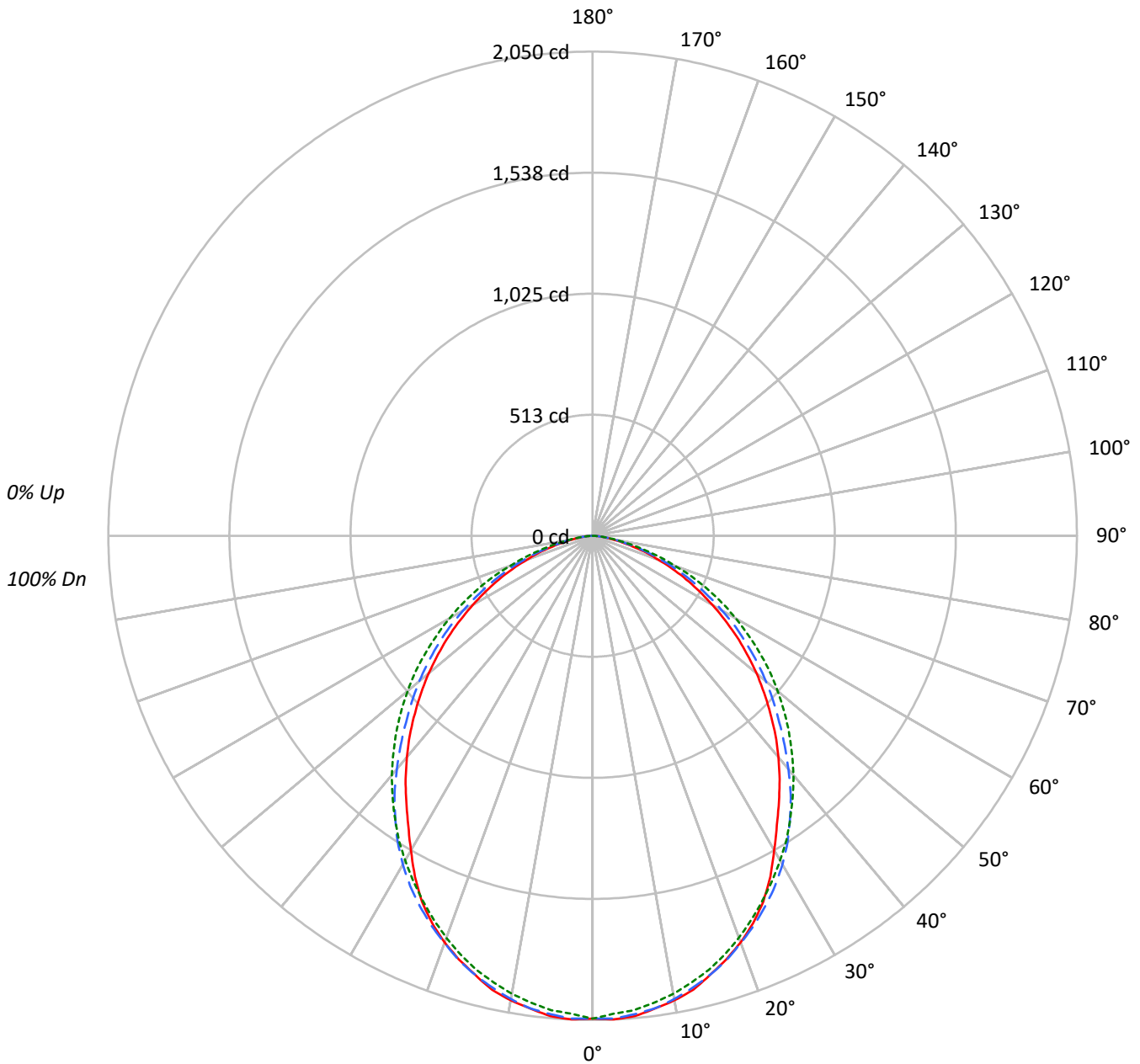
Lumens per Lamp: N/A
Luminaire Lumens: 4727.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					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								
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°	11002	11002	11002
5°	11031	10985	10891
10°	10915	10885	10760
15°	10721	10721	10599
20°	10494	10507	10373
25°	10149	10275	10111
30°	9556	9986	9864
35°	9030	9572	9587
40°	8591	9055	9292
45°	8100	8506	8942
50°	7582	8016	8561
55°	6993	7458	8099
60°	6298	6805	7533
65°	5561	6050	6851
70°	4634	5153	5821
75°	3641	4115	4556
80°	2603	2898	3214
85°	1698	1698	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	4.1
10°-20°	540.7	11.4
20°-30°	790.2	16.7
30°-40°	896.9	19.0
40°-50°	865.8	18.3
50°-60°	714.3	15.1
60°-70°	475.6	10.1
70°-80°	212.9	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°	1523.4	32.2
0°-40°	2420.3	51.2
0°-60°	4000.4	84.6
0°-90°	4727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2044	2044	2044	2044	2044	
5°	2042	2041	2033	2022	2016	193
15°	1924	1929	1924	1916	1902	542
25°	1709	1722	1730	1718	1703	783
35°	1374	1393	1457	1465	1459	861
45°	1064	1082	1118	1169	1175	821
55°	745	758	795	839	863	665
65°	437	448	475	509	538	433
75°	175	185	198	207	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°	2044.3	2044.3	2044.3	2044.3	2044.3
2.5°	2049.8	2050.6	2045.9	2033.3	2025.5
5°	2041.9	2041.2	2033.3	2022.3	2016.0
7.5°	2019.2	2020.7	2018.4	2002.7	1994.0
10°	1997.2	1998.0	1991.7	1979.1	1968.9
12.5°	1968.9	1968.1	1959.5	1953.2	1936.7
15°	1924.1	1928.9	1924.1	1915.5	1902.2
17.5°	1880.9	1880.9	1884.1	1869.2	1859.0
20°	1832.3	1834.6	1834.6	1822.8	1811.1
22.5°	1775.7	1782.8	1785.1	1772.6	1758.4
25°	1709.0	1722.3	1730.2	1717.6	1702.7
27.5°	1628.1	1648.5	1672.0	1662.6	1646.1
30°	1537.7	1567.6	1606.9	1599.0	1587.2
32.5°	1452.1	1482.0	1536.2	1533.0	1526.7
35°	1374.4	1393.2	1456.9	1464.7	1459.2
37.5°	1300.6	1317.8	1377.5	1395.6	1390.9
40°	1222.8	1241.7	1288.8	1321.0	1322.6
42.5°	1145.8	1163.9	1202.4	1248.7	1248.7
45°	1064.2	1082.2	1117.6	1168.6	1174.9
47.5°	984.1	1002.9	1037.5	1088.5	1098.7
50°	905.5	922.8	957.4	1006.8	1022.5
52.5°	823.8	842.7	876.5	922.0	944.8
55°	745.3	757.9	794.8	838.8	863.1
57.5°	663.6	675.4	717.0	754.7	779.9
60°	585.1	600.0	632.2	670.7	699.8
62.5°	509.7	525.4	552.9	586.7	619.7
65°	436.7	448.4	475.1	508.9	538.0
67.5°	366.0	376.2	402.9	426.5	457.1
70°	294.5	307.9	327.5	350.3	369.9
72.5°	237.2	242.7	259.2	275.7	296.1
75°	175.1	184.6	197.9	207.3	219.1
77.5°	125.7	131.2	139.0	146.9	157.9
80°	84.0	86.4	93.5	95.0	103.7
82.5°	51.0	52.6	54.2	55.0	58.1
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)