

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: P555512

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-80-88-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: P555512
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-40-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

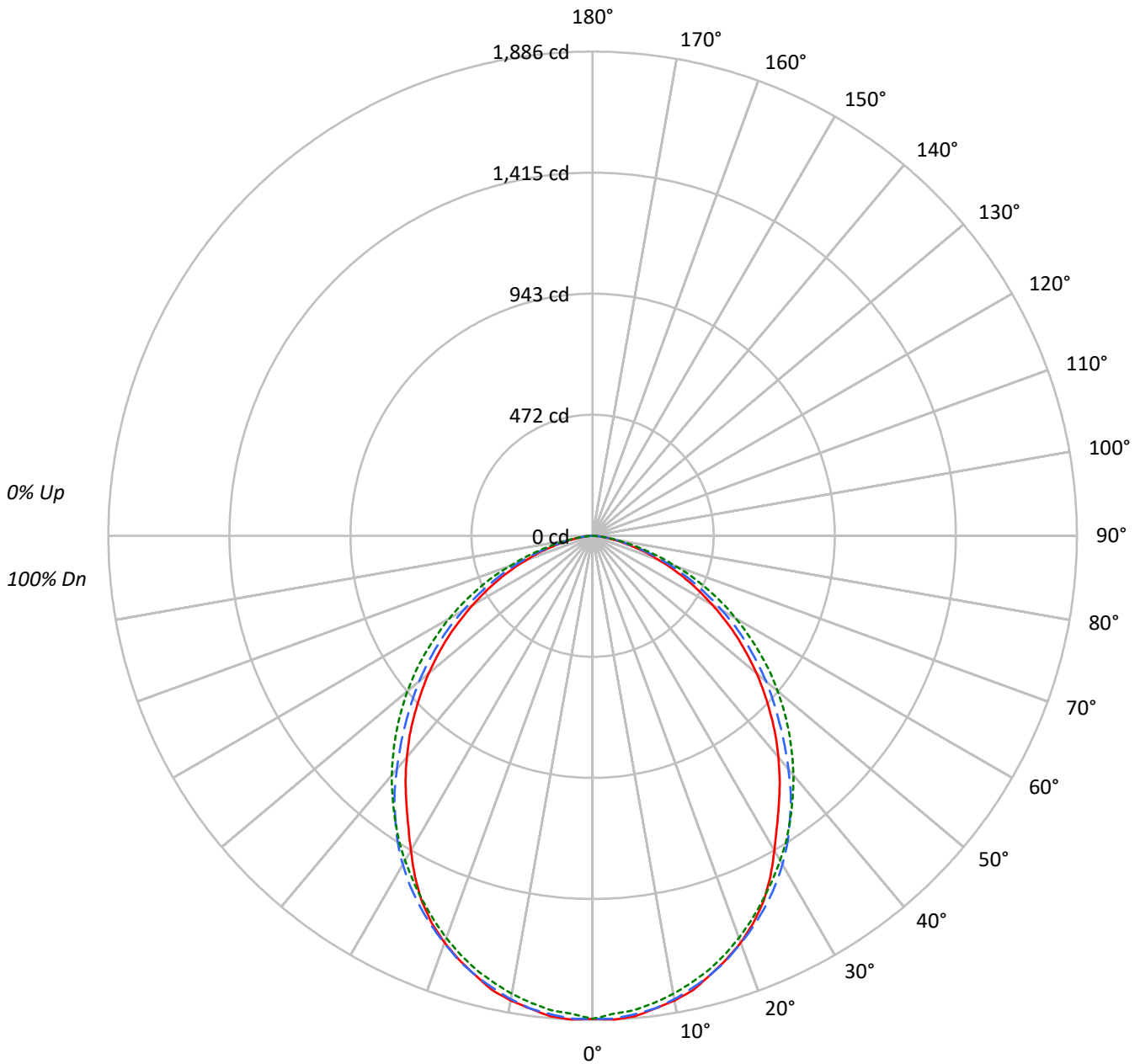
Lumens per Lamp: N/A
Luminaire Lumens: 4350.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10125	10125	10125
5°	10152	10109	10023
10°	10044	10016	9902
15°	9866	9866	9753
20°	9657	9670	9545
25°	9339	9455	9305
30°	8794	9189	9077
35°	8310	8809	8822
40°	7906	8332	8551
45°	7454	7827	8229
50°	6977	7376	7879
55°	6436	6863	7453
60°	5795	6262	6932
65°	5117	5569	6305
70°	4264	4743	5356
75°	3352	3787	4192
80°	2396	2665	2957
85°	1562	1562	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	4.1
10°-20°	497.6	11.4
20°-30°	727.2	16.7
30°-40°	825.4	19.0
40°-50°	796.8	18.3
50°-60°	657.3	15.1
60°-70°	437.7	10.1
70°-80°	195.9	4.5
80°-90°	35.1	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°	1401.9	32.2
0°-40°	2227.3	51.2
0°-60°	3681.4	84.6
0°-90°	4350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1879	1878	1871	1861	1855	178
15°	1771	1775	1771	1763	1750	499
25°	1573	1585	1592	1581	1567	720
35°	1265	1282	1341	1348	1343	792
45°	979	996	1028	1075	1081	756
55°	686	697	731	772	794	612
65°	402	413	437	468	495	398
75°	161	170	182	191	202	176
85°	25	25	25	24	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.3	1881.3	1881.3	1881.3	1881.3
2.5°	1886.3	1887.0	1882.7	1871.1	1863.9
5°	1879.1	1878.4	1871.1	1861.0	1855.2
7.5°	1858.1	1859.6	1857.4	1843.0	1835.0
10°	1837.9	1838.6	1832.8	1821.3	1811.9
12.5°	1811.9	1811.2	1803.2	1797.4	1782.2
15°	1770.7	1775.0	1770.7	1762.7	1750.4
17.5°	1730.9	1730.9	1733.8	1720.1	1710.7
20°	1686.1	1688.3	1688.3	1677.5	1666.6
22.5°	1634.1	1640.6	1642.8	1631.2	1618.2
25°	1572.7	1584.9	1592.2	1580.6	1566.9
27.5°	1498.2	1517.0	1538.7	1530.0	1514.8
30°	1415.1	1442.6	1478.7	1471.5	1460.6
32.5°	1336.3	1363.8	1413.7	1410.8	1405.0
35°	1264.8	1282.1	1340.7	1347.9	1342.8
37.5°	1196.8	1212.7	1267.7	1284.3	1280.0
40°	1125.3	1142.6	1186.0	1215.6	1217.1
42.5°	1054.5	1071.1	1106.5	1149.1	1149.1
45°	979.3	995.9	1028.4	1075.4	1081.2
47.5°	905.6	922.9	954.7	1001.7	1011.1
50°	833.3	849.2	881.0	926.5	941.0
52.5°	758.1	775.5	806.6	848.5	869.4
55°	685.9	697.4	731.4	771.9	794.3
57.5°	610.7	621.5	659.9	694.5	717.7
60°	538.4	552.2	581.8	617.2	644.0
62.5°	469.1	483.5	508.8	539.9	570.2
65°	401.8	412.7	437.3	468.3	495.1
67.5°	336.8	346.2	370.8	392.4	420.6
70°	271.0	283.3	301.4	322.3	340.4
72.5°	218.3	223.3	238.5	253.7	272.5
75°	161.2	169.8	182.1	190.8	201.6
77.5°	115.6	120.7	127.9	135.2	145.3
80°	77.3	79.5	86.0	87.5	95.4
82.5°	47.0	48.4	49.9	50.6	53.5
85°	25.3	25.3	25.3	23.9	23.9
87.5°	14.5	14.5	12.3	10.1	7.2
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)