

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: P554863

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-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: P554863
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-LD4-2HI-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

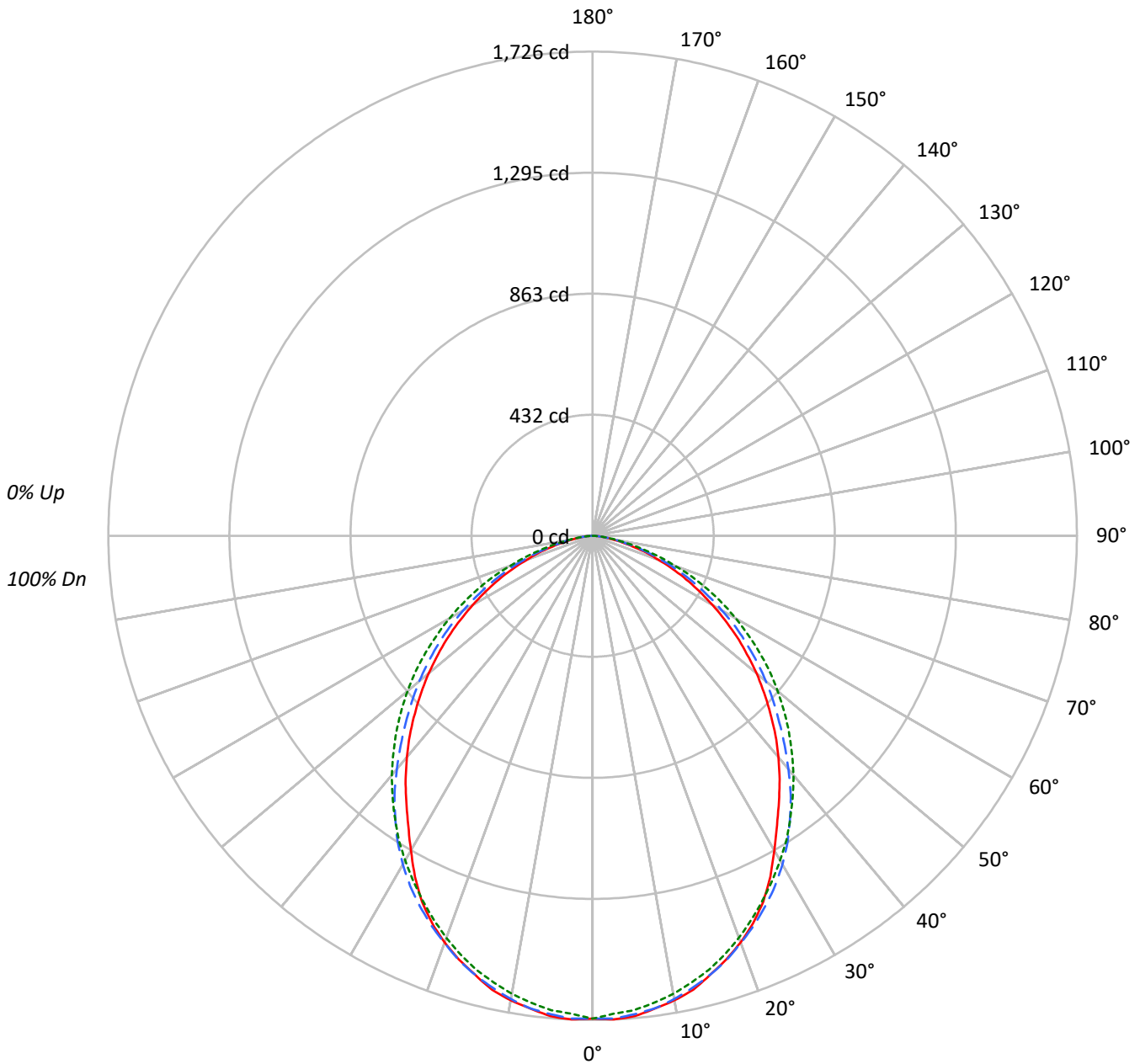
Lumens per Lamp: N/A
Luminaire Lumens: 3980.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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									
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°	9263	9263	9263
5°	9289	9249	9170
10°	9190	9164	9060
15°	9027	9027	8924
20°	8836	8847	8734
25°	8545	8650	8513
30°	8046	8408	8305
35°	7603	8059	8072
40°	7234	7624	7824
45°	6820	7162	7529
50°	6383	6749	7209
55°	5888	6279	6819
60°	5302	5730	6342
65°	4683	5095	5769
70°	3902	4338	4902
75°	3067	3464	3837
80°	2194	2439	2706
85°	1426	1426	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	4.1
10°-20°	455.3	11.4
20°-30°	665.3	16.7
30°-40°	755.2	19.0
40°-50°	729.0	18.3
50°-60°	601.4	15.1
60°-70°	400.5	10.1
70°-80°	179.2	4.5
80°-90°	32.0	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°	1282.6	32.2
0°-40°	2037.8	51.2
0°-60°	3368.3	84.6
0°-90°	3980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1719	1719	1712	1703	1697	163
15°	1620	1624	1620	1613	1602	457
25°	1439	1450	1457	1446	1434	659
35°	1157	1173	1227	1233	1229	725
45°	896	911	941	984	989	691
55°	628	638	669	706	727	560
65°	368	378	400	428	453	365
75°	148	155	167	175	184	161
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1721.2	1721.2	1721.2	1721.2	1721.2
2.5°	1725.9	1726.5	1722.6	1712.0	1705.4
5°	1719.3	1718.6	1712.0	1702.7	1697.4
7.5°	1700.1	1701.4	1699.4	1686.2	1678.9
10°	1681.6	1682.2	1676.9	1666.4	1657.8
12.5°	1657.8	1657.1	1649.8	1644.5	1630.7
15°	1620.1	1624.0	1620.1	1612.8	1601.6
17.5°	1583.7	1583.7	1586.4	1573.8	1565.2
20°	1542.7	1544.7	1544.7	1534.8	1524.9
22.5°	1495.1	1501.0	1503.0	1492.5	1480.6
25°	1438.9	1450.1	1456.7	1446.2	1433.6
27.5°	1370.8	1388.0	1407.8	1399.9	1386.0
30°	1294.7	1319.9	1352.9	1346.3	1336.4
32.5°	1222.7	1247.8	1293.4	1290.8	1285.5
35°	1157.2	1173.1	1226.6	1233.2	1228.6
37.5°	1095.0	1109.6	1159.8	1175.1	1171.1
40°	1029.6	1045.4	1085.1	1112.2	1113.6
42.5°	964.8	980.0	1012.4	1051.4	1051.4
45°	896.0	911.2	941.0	983.9	989.2
47.5°	828.6	844.4	873.5	916.5	925.1
50°	762.4	777.0	806.1	847.7	861.0
52.5°	693.7	709.5	738.0	776.3	795.5
55°	627.5	638.1	669.2	706.2	726.7
57.5°	558.8	568.7	603.7	635.5	656.6
60°	492.6	505.2	532.3	564.7	589.2
62.5°	429.2	442.4	465.5	494.0	521.7
65°	367.7	377.6	400.1	428.5	453.0
67.5°	308.1	316.7	339.2	359.1	384.9
70°	248.0	259.2	275.7	294.9	311.5
72.5°	199.7	204.3	218.2	232.1	249.3
75°	147.5	155.4	166.6	174.6	184.5
77.5°	105.8	110.4	117.0	123.7	132.9
80°	70.8	72.7	78.7	80.0	87.3
82.5°	43.0	44.3	45.6	46.3	48.9
85°	23.1	23.1	23.1	21.8	21.8
87.5°	13.2	13.2	11.2	9.3	6.6
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)