

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: P555897

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-88-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: P555897
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-30-UNV-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

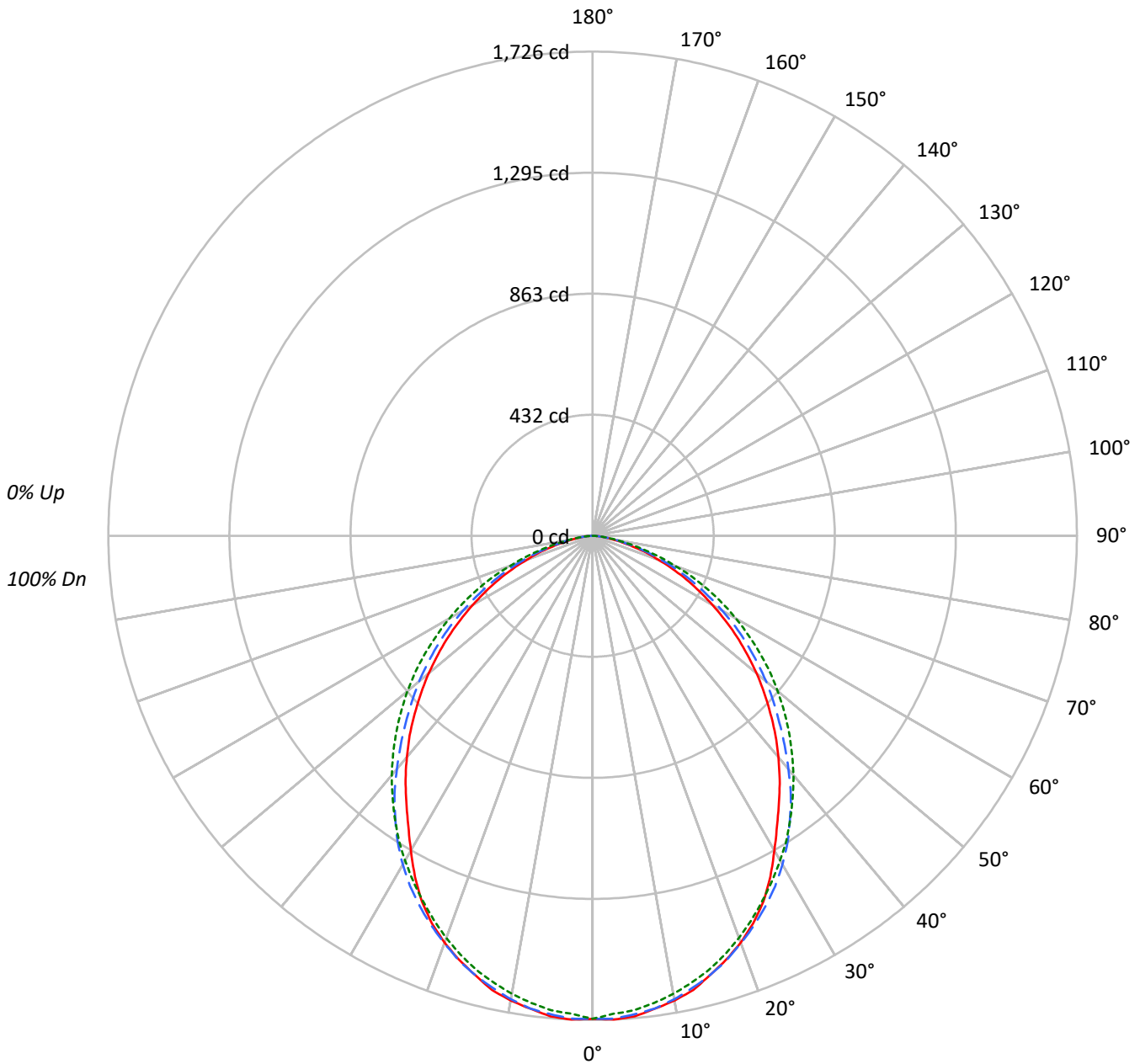
Lumens per Lamp: N/A
Luminaire Lumens: 3981.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9266	9266	9266
5°	9291	9251	9173
10°	9192	9167	9062
15°	9029	9029	8926
20°	8838	8849	8735
25°	8547	8653	8516
30°	8048	8410	8307
35°	7605	8061	8074
40°	7235	7626	7825
45°	6821	7164	7531
50°	6385	6751	7211
55°	5890	6281	6821
60°	5304	5731	6343
65°	4684	5096	5770
70°	3902	4340	4902
75°	3067	3466	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°	455.4	11.4
20°-30°	665.5	16.7
30°-40°	755.4	19.0
40°-50°	729.2	18.3
50°-60°	601.5	15.1
60°-70°	400.6	10.1
70°-80°	179.3	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°	1283.0	32.2
0°-40°	2038.3	51.2
0°-60°	3369.1	84.6
0°-90°	3981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1720	1719	1712	1703	1698	163
15°	1620	1624	1620	1613	1602	457
25°	1439	1450	1457	1446	1434	659
35°	1158	1173	1227	1234	1229	725
45°	896	911	941	984	990	691
55°	628	638	669	706	727	560
65°	368	378	400	429	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°	1721.7	1721.7	1721.7	1721.7	1721.7
2.5°	1726.3	1727.0	1723.0	1712.4	1705.8
5°	1719.7	1719.0	1712.4	1703.2	1697.9
7.5°	1700.5	1701.8	1699.9	1686.6	1679.3
10°	1682.0	1682.7	1677.4	1666.8	1658.2
12.5°	1658.2	1657.5	1650.2	1645.0	1631.1
15°	1620.5	1624.5	1620.5	1613.2	1602.0
17.5°	1584.1	1584.1	1586.7	1574.2	1565.6
20°	1543.1	1545.1	1545.1	1535.2	1525.2
22.5°	1495.5	1501.4	1503.4	1492.8	1480.9
25°	1439.3	1450.5	1457.1	1446.5	1434.0
27.5°	1371.1	1388.3	1408.2	1400.2	1386.3
30°	1295.1	1320.2	1353.3	1346.7	1336.7
32.5°	1223.0	1248.1	1293.7	1291.1	1285.8
35°	1157.5	1173.4	1226.9	1233.6	1228.9
37.5°	1095.3	1109.9	1160.1	1175.3	1171.4
40°	1029.8	1045.7	1085.4	1112.5	1113.8
42.5°	965.0	980.2	1012.6	1051.7	1051.7
45°	896.2	911.4	941.2	984.2	989.5
47.5°	828.8	844.6	873.7	916.7	925.3
50°	762.6	777.2	806.3	847.9	861.2
52.5°	693.8	709.7	738.1	776.5	795.7
55°	627.7	638.3	669.4	706.4	726.9
57.5°	558.9	568.8	603.9	635.6	656.8
60°	492.8	505.3	532.4	564.9	589.3
62.5°	429.3	442.5	465.6	494.1	521.9
65°	367.8	377.7	400.2	428.6	453.1
67.5°	308.2	316.8	339.3	359.2	384.9
70°	248.0	259.3	275.8	295.0	311.5
72.5°	199.7	204.4	218.3	232.2	249.4
75°	147.5	155.4	166.7	174.6	184.5
77.5°	105.8	110.5	117.1	123.7	132.9
80°	70.8	72.8	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)