

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: P555376

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-84-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: P555376
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-30-UNV-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

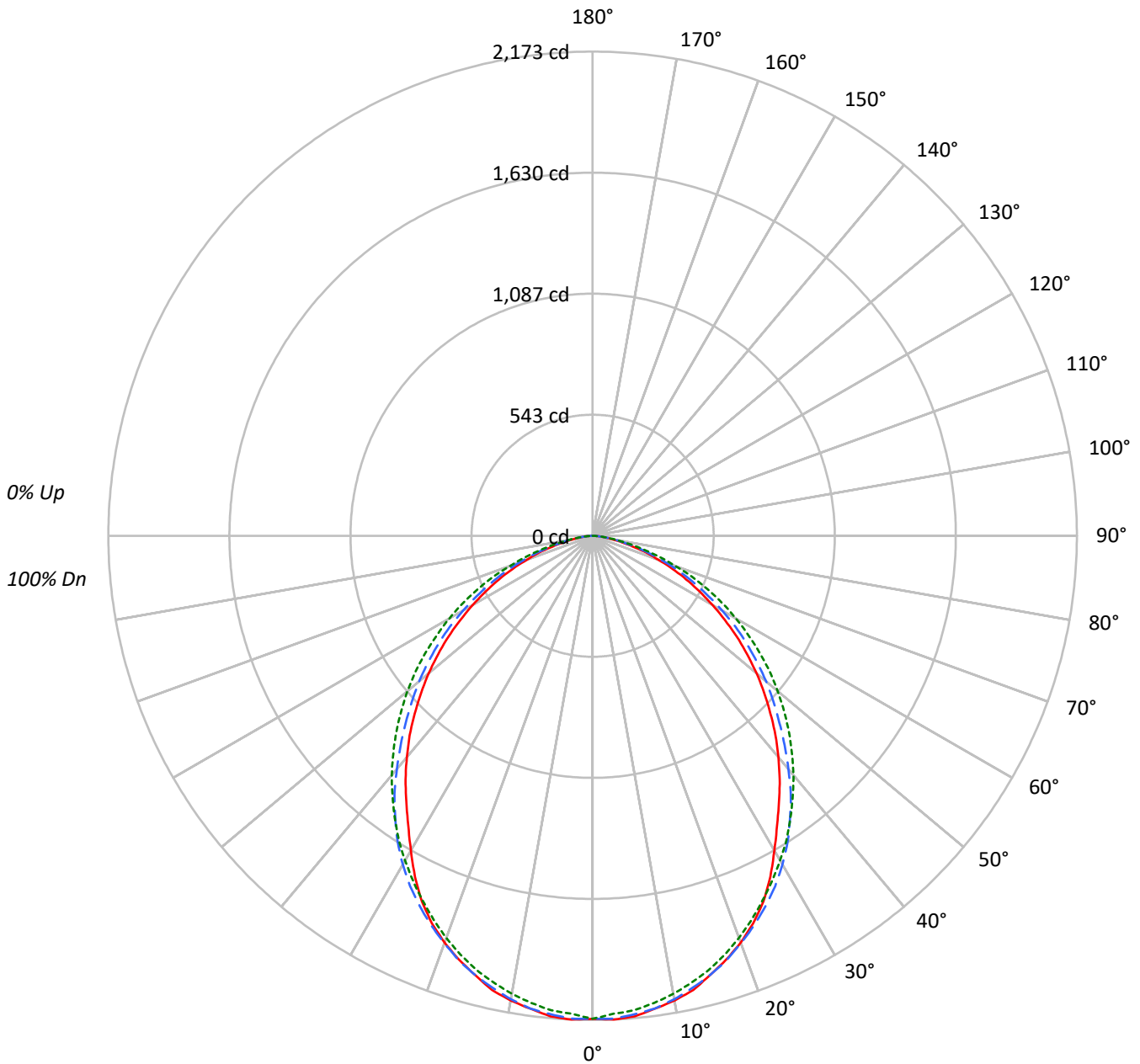
Lumens per Lamp: N/A
Luminaire Lumens: 5012.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11666	11666	11666
5°	11697	11647	11548
10°	11573	11541	11409
15°	11368	11368	11237
20°	11127	11141	10998
25°	10760	10894	10720
30°	10133	10588	10458
35°	9575	10149	10165
40°	9109	9601	9852
45°	8588	9019	9481
50°	8039	8499	9078
55°	7415	7907	8587
60°	6678	7215	7987
65°	5896	6416	7264
70°	4914	5463	6172
75°	3861	4363	4831
80°	2762	3071	3406
85°	1797	1797	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	4.1
10°-20°	573.3	11.4
20°-30°	837.8	16.7
30°-40°	951.0	19.0
40°-50°	918.1	18.3
50°-60°	757.3	15.1
60°-70°	504.3	10.1
70°-80°	225.7	4.5
80°-90°	40.4	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°	1615.2	32.2
0°-40°	2566.2	51.2
0°-60°	4241.6	84.6
0°-90°	5012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2168	2168	2168	2168	2168	
5°	2165	2164	2156	2144	2138	205
15°	2040	2045	2040	2031	2017	575
25°	1812	1826	1834	1821	1805	830
35°	1457	1477	1545	1553	1547	913
45°	1128	1148	1185	1239	1246	871
55°	790	804	843	889	915	705
65°	463	476	504	540	570	459
75°	186	196	210	220	232	203
85°	29	29	29	28	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2167.6	2167.6	2167.6	2167.6	2167.6
2.5°	2173.4	2174.2	2169.2	2155.9	2147.6
5°	2165.1	2164.2	2155.9	2144.2	2137.6
7.5°	2140.9	2142.6	2140.1	2123.4	2114.3
10°	2117.6	2118.4	2111.8	2098.4	2087.6
12.5°	2087.6	2086.8	2077.6	2071.0	2053.5
15°	2040.2	2045.2	2040.2	2031.0	2016.8
17.5°	1994.4	1994.4	1997.7	1981.9	1971.0
20°	1942.7	1945.2	1945.2	1932.7	1920.2
22.5°	1882.8	1890.3	1892.8	1879.4	1864.5
25°	1812.0	1826.1	1834.5	1821.2	1805.3
27.5°	1726.2	1747.9	1772.9	1762.9	1745.4
30°	1630.5	1662.1	1703.7	1695.4	1682.9
32.5°	1539.7	1571.3	1628.8	1625.5	1618.8
35°	1457.3	1477.2	1544.7	1553.0	1547.2
37.5°	1379.0	1397.3	1460.6	1479.7	1474.7
40°	1296.5	1316.5	1366.5	1400.6	1402.3
42.5°	1214.9	1234.1	1274.9	1324.0	1324.0
45°	1128.3	1147.5	1185.0	1239.1	1245.7
47.5°	1043.4	1063.4	1100.0	1154.1	1165.0
50°	960.1	978.4	1015.1	1067.5	1084.2
52.5°	873.5	893.5	929.3	977.6	1001.8
55°	790.2	803.6	842.7	889.3	915.2
57.5°	703.6	716.1	760.3	800.2	826.9
60°	620.4	636.2	670.3	711.1	742.0
62.5°	540.4	557.1	586.2	622.0	657.0
65°	463.0	475.5	503.8	539.6	570.4
67.5°	388.0	398.9	427.2	452.2	484.6
70°	312.3	326.4	347.2	371.4	392.2
72.5°	251.5	257.3	274.8	292.3	313.9
75°	185.7	195.7	209.8	219.8	232.3
77.5°	133.2	139.1	147.4	155.7	167.4
80°	89.1	91.6	99.1	100.8	109.9
82.5°	54.1	55.8	57.5	58.3	61.6
85°	29.1	29.1	29.1	27.5	27.5
87.5°	16.7	16.7	14.2	11.7	8.3
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)