

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: P555963

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-80-94-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: P555963
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-35-UNV-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

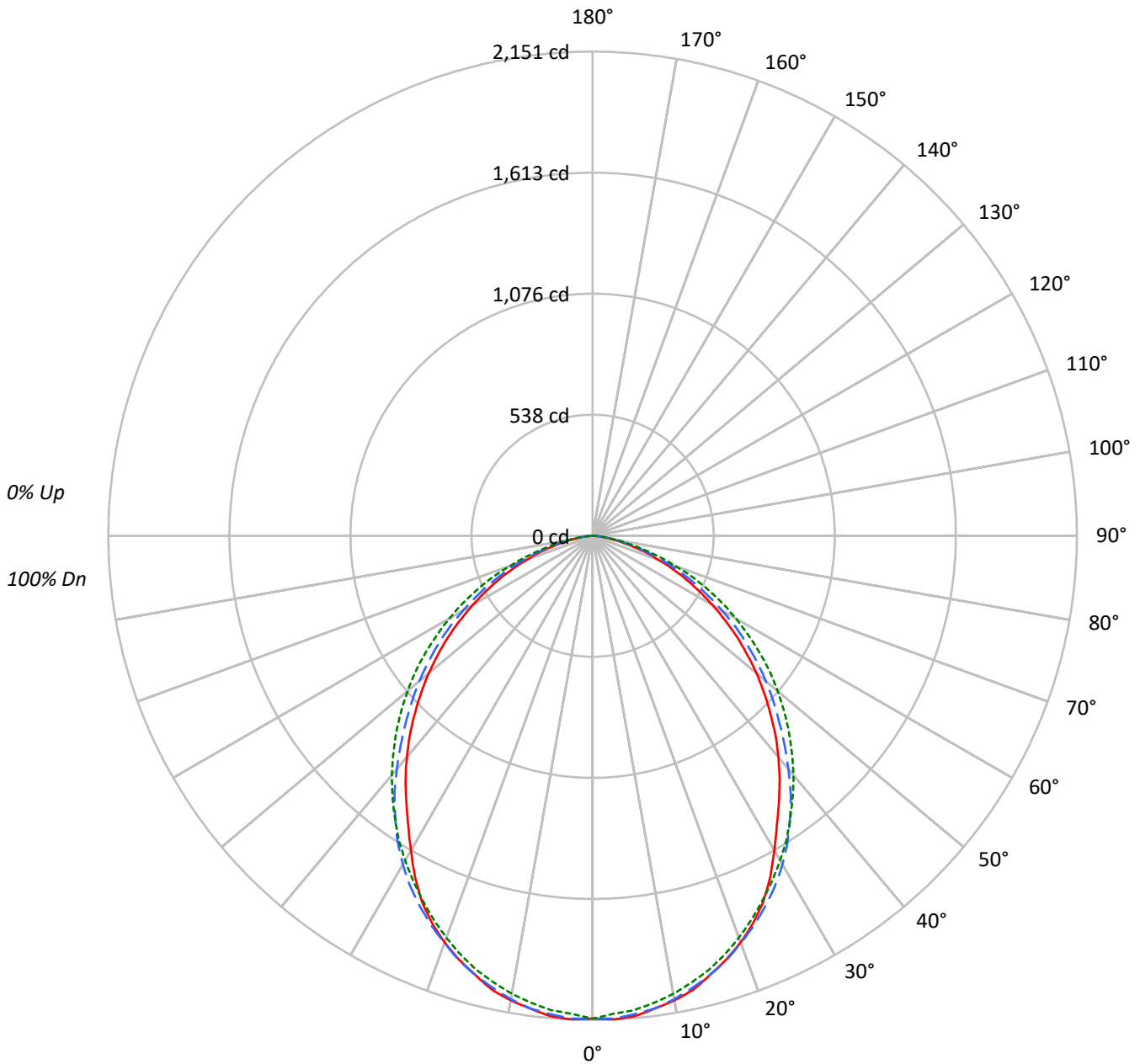
Lumens per Lamp: N/A
Luminaire Lumens: 4960.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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					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°	11545	11545	11545
5°	11575	11526	11428
10°	11452	11421	11291
15°	11249	11249	11121
20°	11011	11025	10884
25°	10649	10780	10609
30°	10027	10478	10350
35°	9475	10044	10060
40°	9015	9501	9749
45°	8499	8926	9383
50°	7956	8411	8983
55°	7338	7826	8498
60°	6608	7141	7904
65°	5835	6350	7189
70°	4862	5407	6107
75°	3822	4319	4781
80°	2734	3040	3372
85°	1778	1778	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	4.1
10°-20°	567.4	11.4
20°-30°	829.1	16.7
30°-40°	941.1	19.0
40°-50°	908.5	18.3
50°-60°	749.5	15.1
60°-70°	499.1	10.1
70°-80°	223.3	4.5
80°-90°	40.0	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°	1598.5	32.2
0°-40°	2539.6	51.2
0°-60°	4197.6	84.6
0°-90°	4960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2145	2145	2145	2145	2145	
5°	2143	2142	2134	2122	2115	203
15°	2019	2024	2019	2010	1996	569
25°	1793	1807	1815	1802	1787	821
35°	1442	1462	1529	1537	1531	904
45°	1117	1136	1173	1226	1233	862
55°	782	795	834	880	906	698
65°	458	470	499	534	564	454
75°	184	194	208	218	230	201
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2145.1	2145.1	2145.1	2145.1	2145.1
2.5°	2150.8	2151.7	2146.7	2133.5	2125.3
5°	2142.6	2141.8	2133.5	2122.0	2115.4
7.5°	2118.7	2120.3	2117.9	2101.4	2092.3
10°	2095.6	2096.5	2089.9	2076.7	2066.0
12.5°	2066.0	2065.1	2056.1	2049.5	2032.2
15°	2019.0	2023.9	2019.0	2009.9	1995.9
17.5°	1973.7	1973.7	1977.0	1961.3	1950.6
20°	1922.6	1925.0	1925.0	1912.7	1900.3
22.5°	1863.2	1870.7	1873.1	1859.9	1845.1
25°	1793.2	1807.2	1815.4	1802.3	1786.6
27.5°	1708.3	1729.7	1754.5	1744.6	1727.3
30°	1613.5	1644.9	1686.1	1677.8	1665.5
32.5°	1523.7	1555.0	1611.9	1608.6	1602.0
35°	1442.1	1461.9	1528.7	1536.9	1531.1
37.5°	1364.7	1382.8	1445.4	1464.4	1459.4
40°	1283.1	1302.9	1352.3	1386.1	1387.7
42.5°	1202.3	1221.3	1261.7	1310.3	1310.3
45°	1116.6	1135.6	1172.7	1226.2	1232.8
47.5°	1032.6	1052.3	1088.6	1142.2	1152.9
50°	950.2	968.3	1004.5	1056.5	1072.9
52.5°	864.5	884.2	919.7	967.5	991.4
55°	782.0	795.2	834.0	880.1	905.7
57.5°	696.3	708.7	752.4	791.9	818.3
60°	613.9	629.6	663.4	703.8	734.3
62.5°	534.8	551.3	580.2	615.6	650.2
65°	458.2	470.5	498.6	534.0	564.5
67.5°	384.0	394.7	422.8	447.5	479.6
70°	309.0	323.0	343.6	367.5	388.1
72.5°	248.9	254.6	271.9	289.3	310.7
75°	183.8	193.7	207.7	217.6	229.9
77.5°	131.9	137.6	145.9	154.1	165.6
80°	88.2	90.6	98.1	99.7	108.8
82.5°	53.6	55.2	56.9	57.7	61.0
85°	28.8	28.8	28.8	27.2	27.2
87.5°	16.5	16.5	14.0	11.5	8.2
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)