

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: P556029

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-96-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: P556029
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-40-UNV-80-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

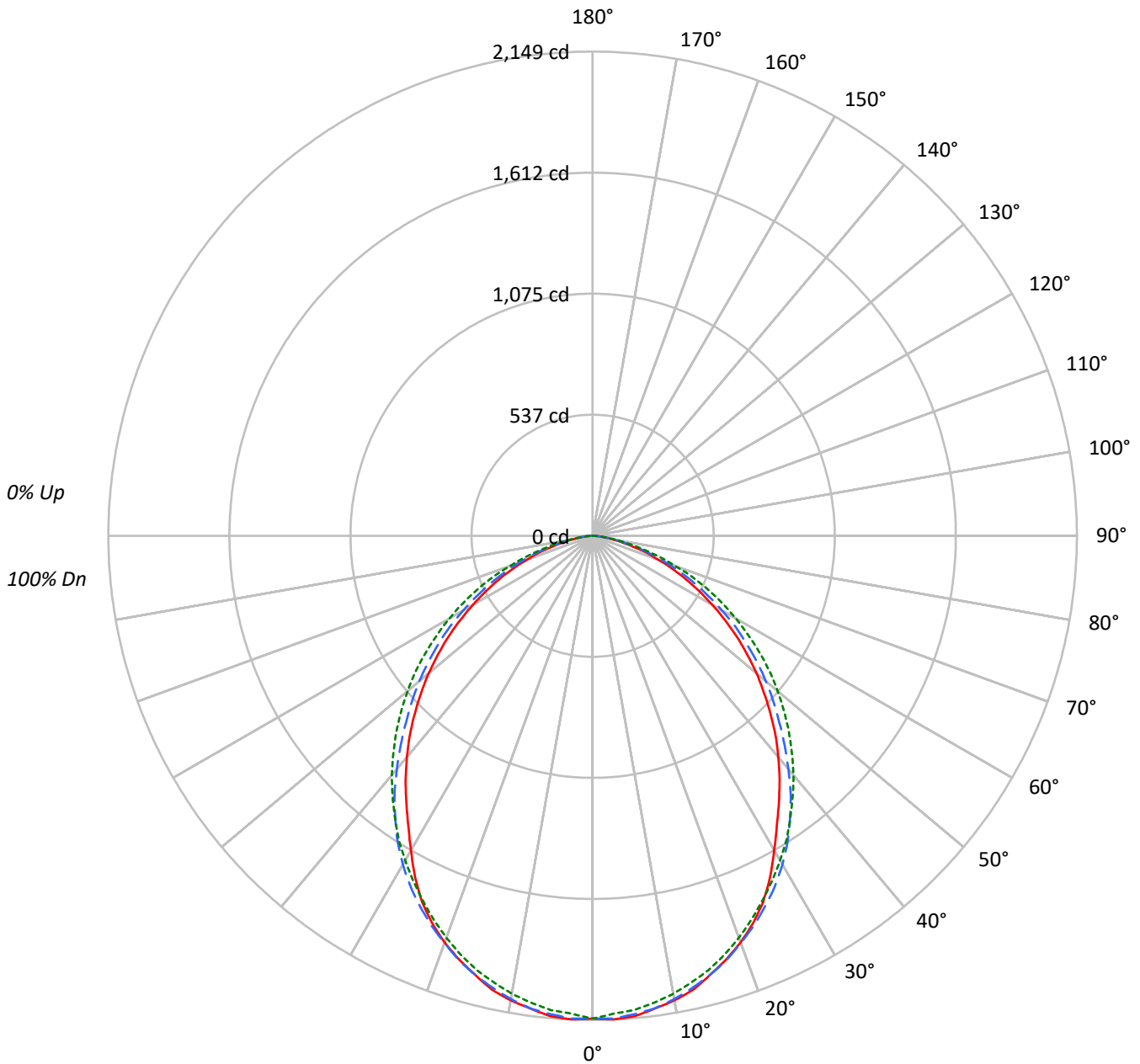
Lumens per Lamp: N/A
Luminaire Lumens: 4955.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	11533	11533	11533
5°	11564	11515	11417
10°	11441	11410	11279
15°	11238	11238	11110
20°	11000	11014	10873
25°	10638	10770	10599
30°	10017	10468	10340
35°	9466	10033	10050
40°	9005	9491	9740
45°	8490	8917	9374
50°	7947	8402	8975
55°	7331	7817	8489
60°	6602	7133	7895
65°	5829	6343	7181
70°	4858	5402	6101
75°	3818	4315	4776
80°	2731	3037	3369
85°	1778	1778	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	4.1
10°-20°	566.8	11.4
20°-30°	828.3	16.7
30°-40°	940.2	19.0
40°-50°	907.6	18.3
50°-60°	748.7	15.1
60°-70°	498.6	10.1
70°-80°	223.1	4.5
80°-90°	39.9	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°	1596.9	32.2
0°-40°	2537.1	51.2
0°-60°	4193.4	84.6
0°-90°	4955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2143	2143	2143	2143	2143	
5°	2140	2140	2131	2120	2113	203
15°	2017	2022	2017	2008	1994	569
25°	1791	1805	1814	1800	1785	820
35°	1441	1460	1527	1535	1530	903
45°	1116	1134	1172	1225	1232	861
55°	781	794	833	879	905	697
65°	458	470	498	534	564	454
75°	184	194	208	217	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°	2142.9	2142.9	2142.9	2142.9	2142.9
2.5°	2148.7	2149.5	2144.6	2131.4	2123.2
5°	2140.4	2139.6	2131.4	2119.9	2113.3
7.5°	2116.6	2118.2	2115.7	2099.3	2090.2
10°	2093.5	2094.3	2087.8	2074.6	2063.9
12.5°	2063.9	2063.1	2054.0	2047.4	2030.1
15°	2017.0	2021.9	2017.0	2007.9	1993.9
17.5°	1971.7	1971.7	1975.0	1959.3	1948.6
20°	1920.6	1923.1	1923.1	1910.8	1898.4
22.5°	1861.4	1868.8	1871.2	1858.1	1843.2
25°	1791.4	1805.4	1813.6	1800.4	1784.8
27.5°	1706.6	1728.0	1752.7	1742.8	1725.5
30°	1611.9	1643.2	1684.4	1676.1	1663.8
32.5°	1522.2	1553.5	1610.3	1607.0	1600.4
35°	1440.7	1460.4	1527.1	1535.4	1529.6
37.5°	1363.3	1381.4	1444.0	1462.9	1458.0
40°	1281.8	1301.6	1350.9	1384.7	1386.3
42.5°	1201.1	1220.1	1260.4	1309.0	1309.0
45°	1115.5	1134.4	1171.5	1225.0	1231.6
47.5°	1031.5	1051.3	1087.5	1141.0	1151.7
50°	949.2	967.3	1003.5	1055.4	1071.9
52.5°	863.6	883.3	918.7	966.5	990.4
55°	781.3	794.4	833.1	879.2	904.7
57.5°	695.6	708.0	751.6	791.1	817.5
60°	613.3	629.0	662.7	703.1	733.5
62.5°	534.3	550.8	579.6	615.0	649.5
65°	457.7	470.1	498.1	533.5	563.9
67.5°	383.6	394.3	422.3	447.0	479.1
70°	308.7	322.7	343.3	367.2	387.7
72.5°	248.6	254.4	271.7	289.0	310.4
75°	183.6	193.5	207.5	217.3	229.7
77.5°	131.7	137.5	145.7	153.9	165.5
80°	88.1	90.6	98.0	99.6	108.7
82.5°	53.5	55.2	56.8	57.6	60.9
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)