

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: P556143

Luminaire Tested: **FUSL-12-2-LD4-3STD-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: P556143
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-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

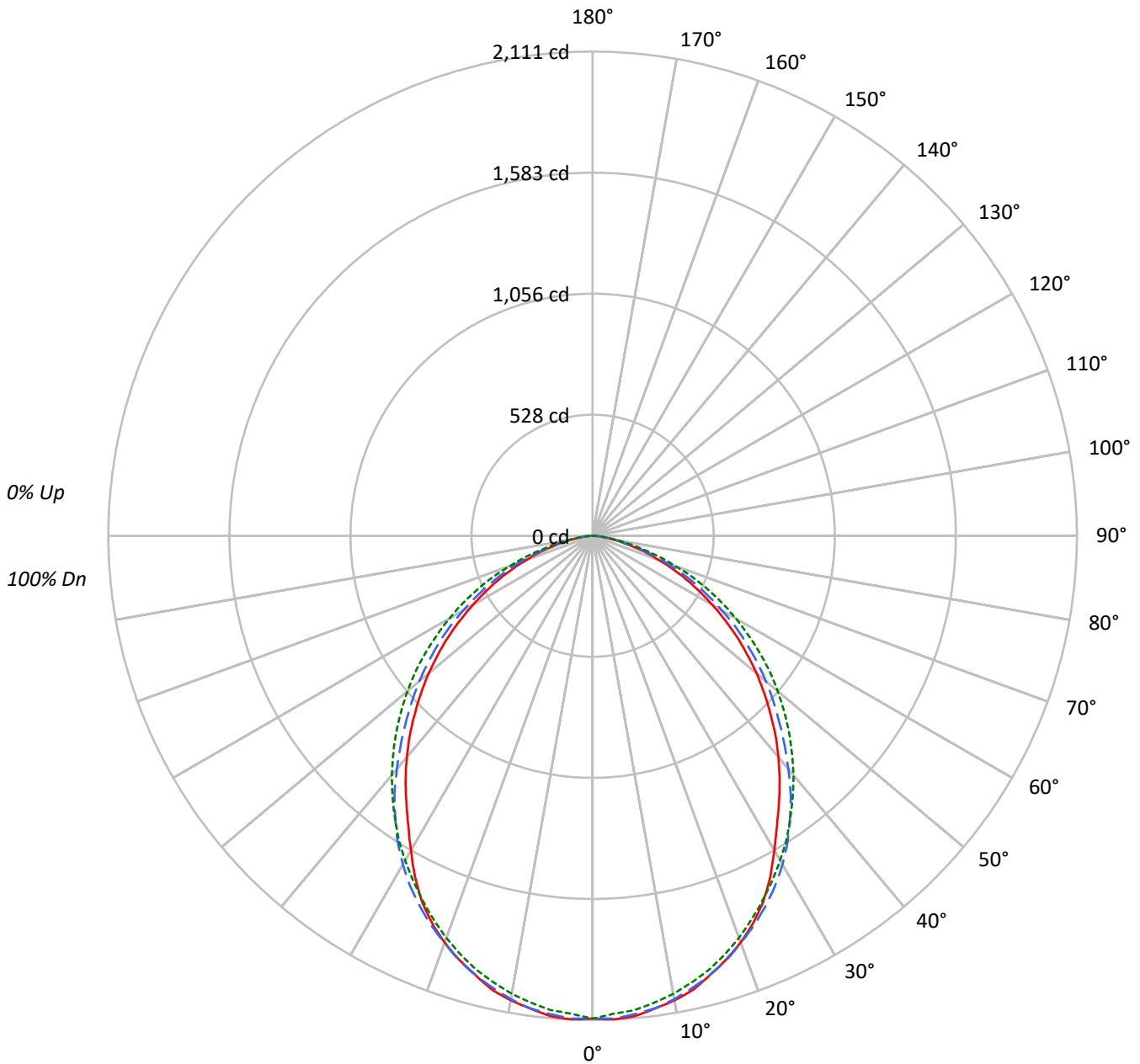
Lumens per Lamp: N/A
Luminaire Lumens: 4868.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11331	11331	11331
5°	11361	11313	11217
10°	11240	11209	11081
15°	11041	11041	10915
20°	10807	10821	10682
25°	10451	10581	10413
30°	9841	10284	10158
35°	9299	9857	9873
40°	8847	9324	9569
45°	8341	8760	9210
50°	7808	8255	8817
55°	7202	7680	8341
60°	6485	7008	7756
65°	5727	6231	7055
70°	4773	5308	5994
75°	3751	4238	4693
80°	2681	2982	3310
85°	1748	1748	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	4.1
10°-20°	556.9	11.4
20°-30°	813.7	16.7
30°-40°	923.7	19.0
40°-50°	891.7	18.3
50°-60°	735.6	15.1
60°-70°	489.8	10.1
70°-80°	219.2	4.5
80°-90°	39.2	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°	1568.8	32.2
0°-40°	2492.5	51.2
0°-60°	4119.8	84.6
0°-90°	4868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2105	2105	2105	2105	2105	
5°	2103	2102	2094	2083	2076	199
15°	1982	1986	1982	1973	1959	559
25°	1760	1774	1782	1769	1754	806
35°	1415	1435	1500	1508	1503	887
45°	1096	1114	1151	1204	1210	846
55°	768	780	818	864	889	685
65°	450	462	489	524	554	446
75°	180	190	204	214	226	197
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2105.3	2105.3	2105.3	2105.3	2105.3
2.5°	2110.9	2111.8	2106.9	2094.0	2085.9
5°	2102.9	2102.0	2094.0	2082.6	2076.2
7.5°	2079.4	2081.0	2078.6	2062.4	2053.5
10°	2056.8	2057.6	2051.1	2038.2	2027.6
12.5°	2027.6	2026.8	2017.9	2011.5	1994.5
15°	1981.5	1986.4	1981.5	1972.6	1958.9
17.5°	1937.1	1937.1	1940.3	1924.9	1914.4
20°	1886.9	1889.3	1889.3	1877.2	1865.1
22.5°	1828.7	1836.0	1838.4	1825.4	1810.9
25°	1759.9	1773.7	1781.8	1768.8	1753.5
27.5°	1676.6	1697.7	1721.9	1712.2	1695.2
30°	1583.6	1614.3	1654.8	1646.7	1634.6
32.5°	1495.5	1526.2	1582.0	1578.8	1572.3
35°	1415.4	1434.8	1500.3	1508.4	1502.7
37.5°	1339.4	1357.2	1418.6	1437.2	1432.4
40°	1259.3	1278.7	1327.2	1360.4	1362.0
42.5°	1180.0	1198.6	1238.3	1286.0	1286.0
45°	1095.9	1114.5	1150.9	1203.5	1210.0
47.5°	1013.4	1032.8	1068.4	1121.0	1131.5
50°	932.5	950.3	985.9	1036.9	1053.0
52.5°	848.4	867.8	902.6	949.5	973.0
55°	767.5	780.5	818.5	863.8	888.9
57.5°	683.4	695.6	738.4	777.2	803.1
60°	602.5	617.9	651.1	690.7	720.6
62.5°	524.9	541.1	569.4	604.2	638.1
65°	449.7	461.8	489.3	524.1	554.0
67.5°	376.9	387.4	414.9	439.2	470.7
70°	303.3	317.0	337.3	360.7	380.9
72.5°	244.3	249.9	266.9	283.9	304.9
75°	180.4	190.1	203.8	213.5	225.7
77.5°	129.4	135.1	143.2	151.2	162.6
80°	86.5	89.0	96.2	97.9	106.8
82.5°	52.6	54.2	55.8	56.6	59.9
85°	28.3	28.3	28.3	26.7	26.7
87.5°	16.2	16.2	13.7	11.3	8.1
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)