

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: P555947

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-94-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: P555947
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-93-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

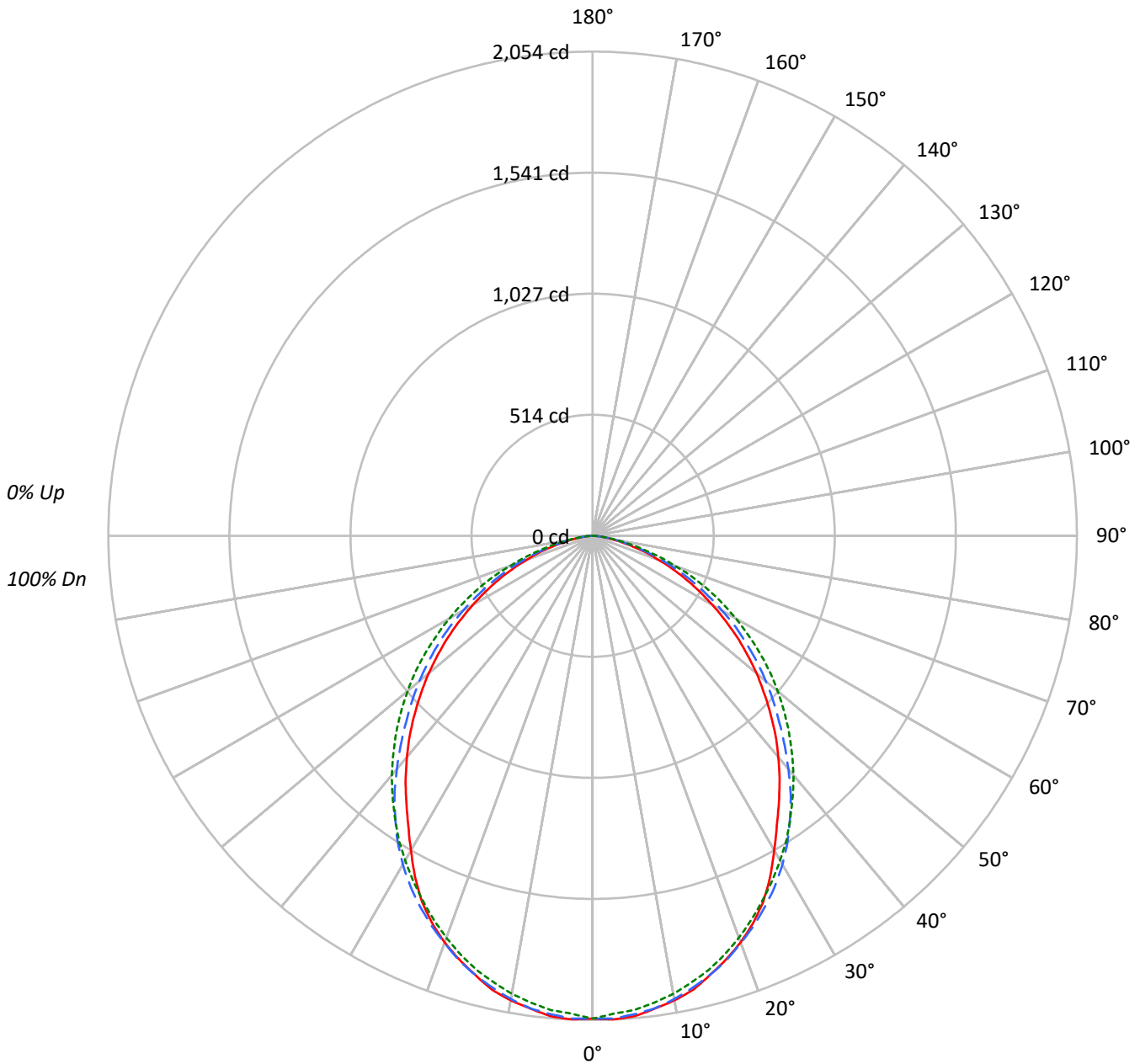
Lumens per Lamp: N/A
Luminaire Lumens: 4736.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555947

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-93-94-EDD

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°	11023	11023	11023
5°	11052	11006	10913
10°	10935	10905	10781
15°	10741	10741	10619
20°	10514	10527	10392
25°	10168	10294	10130
30°	9575	10005	9882
35°	9047	9590	9606
40°	8607	9072	9310
45°	8115	8522	8959
50°	7597	8031	8578
55°	7006	7472	8115
60°	6310	6818	7547
65°	5571	6063	6864
70°	4644	5163	5832
75°	3649	4124	4564
80°	2610	2901	3220
85°	1698	1698	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	4.1
10°-20°	541.8	11.4
20°-30°	791.7	16.7
30°-40°	898.6	19.0
40°-50°	867.5	18.3
50°-60°	715.6	15.1
60°-70°	476.6	10.1
70°-80°	213.2	4.5
80°-90°	38.1	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°	1526.3	32.2
0°-40°	2424.9	51.2
0°-60°	4008.1	84.6
0°-90°	4736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2046	2045	2037	2026	2020	194
15°	1928	1932	1928	1919	1906	543
25°	1712	1726	1734	1721	1706	784
35°	1377	1396	1460	1468	1462	863
45°	1066	1084	1120	1171	1177	823
55°	747	759	796	840	865	666
65°	438	449	476	510	539	434
75°	176	185	198	208	220	192
85°	28	28	28	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2048.2	2048.2	2048.2	2048.2	2048.2
2.5°	2053.7	2054.5	2049.8	2037.2	2029.3
5°	2045.8	2045.1	2037.2	2026.2	2019.9
7.5°	2023.0	2024.6	2022.2	2006.5	1997.8
10°	2001.0	2001.8	1995.5	1982.9	1972.7
12.5°	1972.7	1971.9	1963.2	1956.9	1940.4
15°	1927.8	1932.5	1927.8	1919.2	1905.8
17.5°	1884.5	1884.5	1887.7	1872.7	1862.5
20°	1835.7	1838.1	1838.1	1826.3	1814.5
22.5°	1779.1	1786.2	1788.5	1775.9	1761.8
25°	1712.2	1725.6	1733.5	1720.9	1705.9
27.5°	1631.2	1651.6	1675.2	1665.8	1649.3
30°	1540.7	1570.6	1609.9	1602.0	1590.2
32.5°	1454.9	1484.8	1539.1	1536.0	1529.7
35°	1377.0	1395.9	1459.6	1467.5	1462.0
37.5°	1303.0	1320.4	1380.2	1398.3	1393.5
40°	1225.1	1244.0	1291.2	1323.5	1325.1
42.5°	1148.0	1166.1	1204.7	1251.1	1251.1
45°	1066.2	1084.3	1119.7	1170.8	1177.1
47.5°	985.9	1004.8	1039.4	1090.6	1100.8
50°	907.3	924.6	959.2	1008.8	1024.5
52.5°	825.4	844.3	878.1	923.8	946.6
55°	746.7	759.3	796.3	840.4	864.8
57.5°	664.9	676.7	718.4	756.2	781.4
60°	586.2	601.2	633.4	672.0	701.1
62.5°	510.7	526.4	553.9	587.8	620.8
65°	437.5	449.3	476.1	509.9	539.0
67.5°	366.7	376.9	403.7	427.3	458.0
70°	295.1	308.4	328.1	350.9	370.6
72.5°	237.6	243.1	259.7	276.2	296.6
75°	175.5	184.9	198.3	207.7	219.5
77.5°	125.9	131.4	139.3	147.1	158.2
80°	84.2	86.6	93.6	95.2	103.9
82.5°	51.1	52.7	54.3	55.1	58.2
85°	27.5	27.5	27.5	26.0	26.0
87.5°	15.7	15.7	13.4	11.0	7.9
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)