

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: P556011

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-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: P556011
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-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

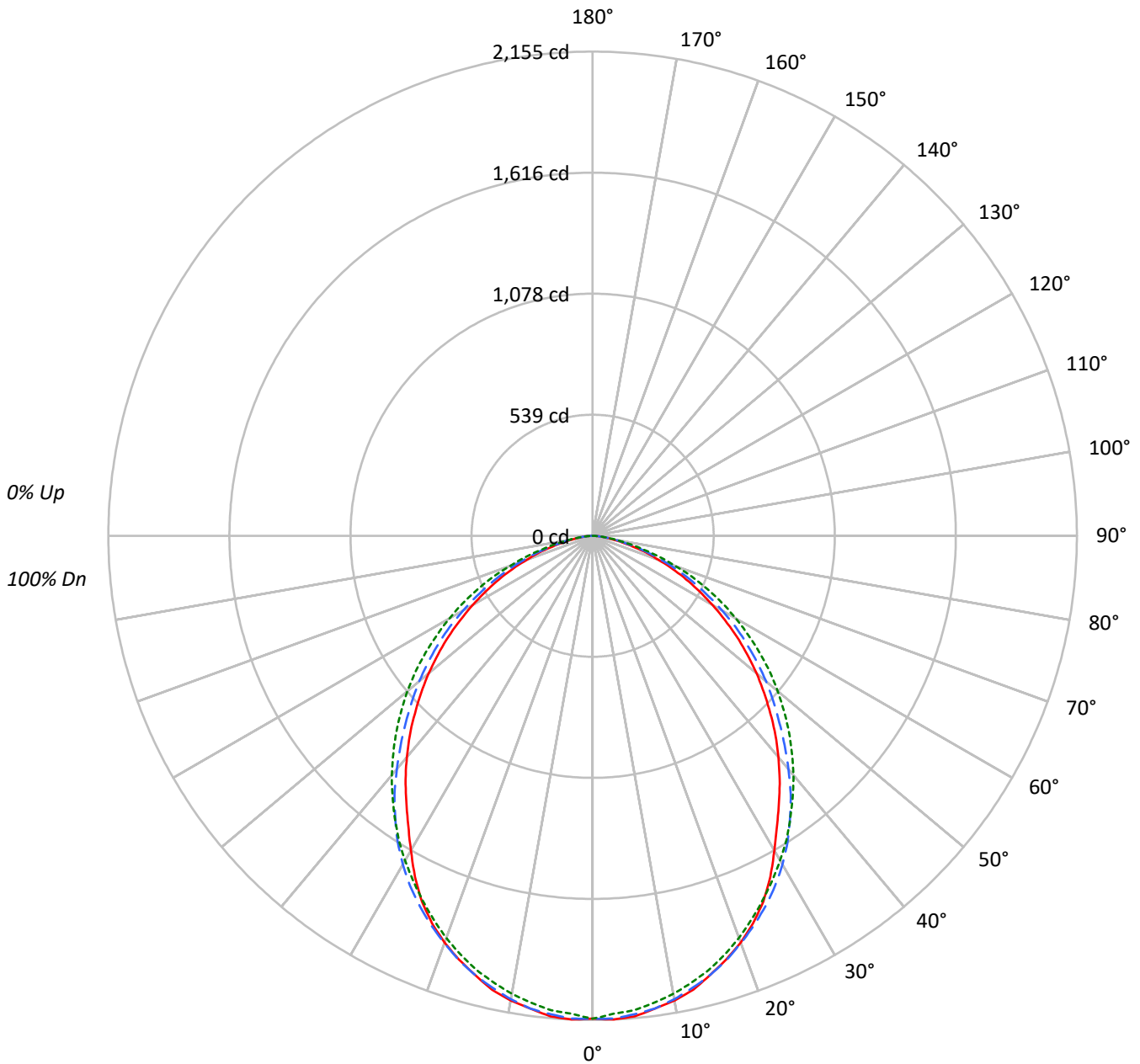
Lumens per Lamp: N/A
Luminaire Lumens: 4970.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					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								
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°	11568	11568	11568
5°	11599	11549	11452
10°	11476	11444	11313
15°	11272	11272	11143
20°	11033	11048	10906
25°	10670	10802	10631
30°	10048	10499	10371
35°	9494	10064	10080
40°	9033	9520	9769
45°	8516	8943	9402
50°	7972	8428	9002
55°	7353	7841	8515
60°	6622	7155	7919
65°	5847	6362	7203
70°	4873	5418	6120
75°	3828	4327	4791
80°	2740	3047	3378
85°	1785	1785	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	4.1
10°-20°	568.5	11.4
20°-30°	830.8	16.7
30°-40°	943.0	19.0
40°-50°	910.4	18.3
50°-60°	751.0	15.1
60°-70°	500.1	10.1
70°-80°	223.8	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°	1601.7	32.2
0°-40°	2544.7	51.2
0°-60°	4206.1	84.6
0°-90°	4970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2149	2149	2149	2149	2149	
5°	2147	2146	2138	2126	2120	203
15°	2023	2028	2023	2014	2000	570
25°	1797	1811	1819	1806	1790	823
35°	1445	1465	1532	1540	1534	905
45°	1119	1138	1175	1229	1235	863
55°	784	797	836	882	908	699
65°	459	472	500	535	566	455
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°	2149.4	2149.4	2149.4	2149.4	2149.4
2.5°	2155.2	2156.0	2151.0	2137.8	2129.6
5°	2146.9	2146.1	2137.8	2126.3	2119.7
7.5°	2123.0	2124.6	2122.1	2105.6	2096.5
10°	2099.9	2100.7	2094.1	2080.9	2070.1
12.5°	2070.1	2069.3	2060.2	2053.6	2036.3
15°	2023.1	2028.0	2023.1	2014.0	1999.9
17.5°	1977.6	1977.6	1980.9	1965.3	1954.5
20°	1926.4	1928.9	1928.9	1916.5	1904.2
22.5°	1867.0	1874.4	1876.9	1863.7	1848.8
25°	1796.8	1810.8	1819.1	1805.9	1790.2
27.5°	1711.8	1733.2	1758.0	1748.1	1730.7
30°	1616.8	1648.2	1689.5	1681.2	1668.8
32.5°	1526.8	1558.2	1615.1	1611.8	1605.2
35°	1445.0	1464.9	1531.7	1540.0	1534.2
37.5°	1367.4	1385.6	1448.3	1467.3	1462.4
40°	1285.7	1305.5	1355.0	1388.9	1390.5
42.5°	1204.8	1223.7	1264.2	1312.9	1312.9
45°	1118.9	1137.9	1175.0	1228.7	1235.3
47.5°	1034.7	1054.5	1090.8	1144.5	1155.2
50°	952.1	970.2	1006.6	1058.6	1075.1
52.5°	866.2	886.0	921.5	969.4	993.4
55°	783.6	796.8	835.6	881.9	907.5
57.5°	697.7	710.1	753.9	793.5	820.0
60°	615.2	630.9	664.7	705.2	735.7
62.5°	535.9	552.4	581.3	616.8	651.5
65°	459.1	471.5	499.6	535.1	565.6
67.5°	384.8	395.5	423.6	448.4	480.6
70°	309.7	323.7	344.3	368.3	388.9
72.5°	249.4	255.2	272.5	289.8	311.3
75°	184.1	194.0	208.1	218.0	230.4
77.5°	132.1	137.9	146.2	154.4	166.0
80°	88.4	90.8	98.3	99.9	109.0
82.5°	53.7	55.3	57.0	57.8	61.1
85°	28.9	28.9	28.9	27.2	27.2
87.5°	16.5	16.5	14.0	11.6	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)