

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: P555597

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-81-96-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: P555597
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-LD4-3HI-50-UNV-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

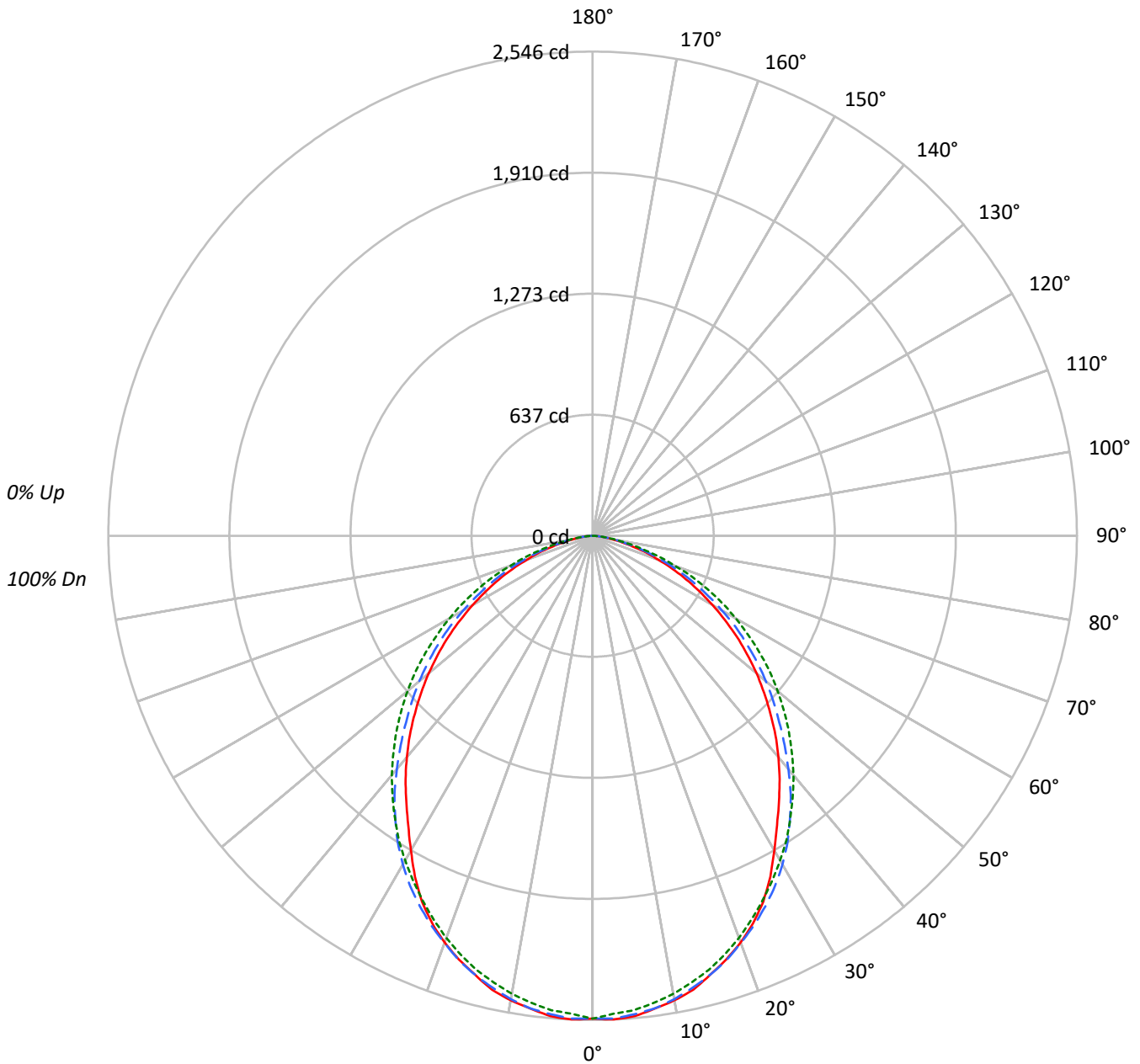
Lumens per Lamp: N/A
Luminaire Lumens: 5871.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	13665	13665	13665
5°	13701	13644	13527
10°	13556	13519	13364
15°	13316	13316	13163
20°	13034	13050	12883
25°	12604	12761	12558
30°	11869	12402	12251
35°	11215	11888	11908
40°	10671	11246	11540
45°	10060	10564	11106
50°	9417	9956	10634
55°	8686	9262	10059
60°	7822	8452	9355
65°	6906	7515	8509
70°	5756	6401	7229
75°	4523	5111	5658
80°	3236	3598	3992
85°	2106	2106	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	4.1
10°-20°	671.6	11.4
20°-30°	981.4	16.7
30°-40°	1114.0	19.0
40°-50°	1075.4	18.3
50°-60°	887.1	15.1
60°-70°	590.8	10.1
70°-80°	264.4	4.5
80°-90°	47.3	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°	1892.1	32.2
0°-40°	3006.1	51.2
0°-60°	4968.6	84.6
0°-90°	5871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2539	2539	2539	2539	2539	
5°	2536	2535	2525	2512	2504	240
15°	2390	2396	2390	2379	2362	674
25°	2122	2139	2149	2133	2115	972
35°	1707	1730	1809	1819	1812	1070
45°	1322	1344	1388	1451	1459	1020
55°	926	941	987	1042	1072	826
65°	542	557	590	632	668	538
75°	218	229	246	258	272	238
85°	34	34	34	32	32	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2539.1	2539.1	2539.1	2539.1	2539.1
2.5°	2545.9	2546.9	2541.0	2525.4	2515.6
5°	2536.1	2535.2	2525.4	2511.7	2503.9
7.5°	2507.8	2509.8	2506.9	2487.4	2476.6
10°	2480.5	2481.5	2473.7	2458.1	2445.4
12.5°	2445.4	2444.4	2433.7	2425.9	2405.4
15°	2389.8	2395.7	2389.8	2379.1	2362.5
17.5°	2336.2	2336.2	2340.1	2321.5	2308.9
20°	2275.7	2278.6	2278.6	2264.0	2249.4
22.5°	2205.5	2214.2	2217.2	2201.6	2184.0
25°	2122.5	2139.1	2148.9	2133.3	2114.7
27.5°	2022.1	2047.4	2076.7	2065.0	2044.5
30°	1909.9	1947.0	1995.7	1986.0	1971.4
32.5°	1803.6	1840.6	1907.9	1904.0	1896.2
35°	1707.0	1730.4	1809.4	1819.2	1812.4
37.5°	1615.3	1636.8	1710.9	1733.3	1727.5
40°	1518.8	1542.2	1600.7	1640.7	1642.6
42.5°	1423.2	1445.6	1493.4	1550.9	1550.9
45°	1321.7	1344.1	1388.0	1451.4	1459.2
47.5°	1222.2	1245.6	1288.5	1352.0	1364.6
50°	1124.7	1146.1	1189.1	1250.5	1270.0
52.5°	1023.2	1046.6	1088.6	1145.2	1173.4
55°	925.7	941.3	987.1	1041.8	1072.0
57.5°	824.2	838.9	890.6	937.4	968.6
60°	726.7	745.2	785.2	833.0	869.1
62.5°	633.1	652.6	686.7	728.6	769.6
65°	542.3	557.0	590.1	632.1	668.2
67.5°	454.6	467.2	500.4	529.7	567.7
70°	365.8	382.4	406.8	435.0	459.4
72.5°	294.6	301.4	321.9	342.4	367.7
75°	217.5	229.2	245.8	257.5	272.1
77.5°	156.1	162.9	172.7	182.4	196.1
80°	104.4	107.3	116.1	118.0	128.8
82.5°	63.4	65.4	67.3	68.3	72.2
85°	34.1	34.1	34.1	32.2	32.2
87.5°	19.5	19.5	16.6	13.7	9.8
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)