

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: P555603

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-82-85-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: P555603
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-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

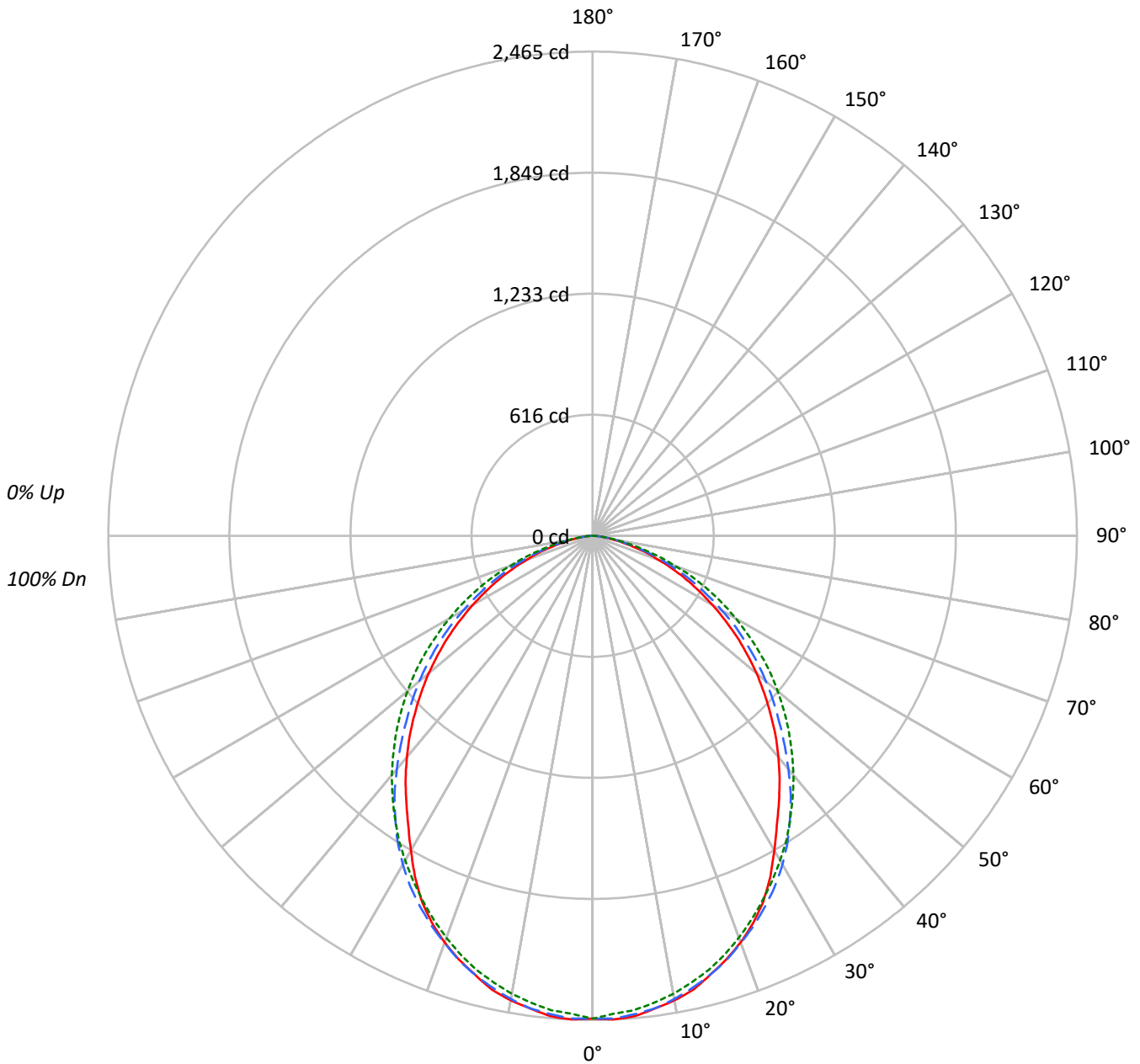
Lumens per Lamp: N/A
Luminaire Lumens: 5684.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (Ain): 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°	13230	13230	13230
5°	13265	13209	13097
10°	13124	13088	12938
15°	12892	12892	12744
20°	12619	12635	12472
25°	12203	12354	12158
30°	11491	12008	11861
35°	10858	11510	11528
40°	10331	10888	11173
45°	9739	10228	10753
50°	9117	9639	10295
55°	8409	8967	9739
60°	7573	8183	9057
65°	6687	7275	8238
70°	5572	6197	6999
75°	4379	4949	5479
80°	3130	3484	3865
85°	2044	2044	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	4.1
10°-20°	650.2	11.4
20°-30°	950.1	16.7
30°-40°	1078.5	19.0
40°-50°	1041.1	18.3
50°-60°	858.9	15.1
60°-70°	571.9	10.1
70°-80°	255.9	4.5
80°-90°	45.8	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°	1831.8	32.2
0°-40°	2910.3	51.2
0°-60°	4810.3	84.6
0°-90°	5684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2458	2458	2458	2458	2458	
5°	2455	2454	2445	2432	2424	232
15°	2314	2319	2314	2303	2287	652
25°	2055	2071	2080	2065	2047	941
35°	1653	1675	1752	1761	1755	1035
45°	1280	1301	1344	1405	1413	987
55°	896	911	956	1009	1038	800
65°	525	539	571	612	647	521
75°	211	222	238	249	264	230
85°	33	33	33	31	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2458.2	2458.2	2458.2	2458.2	2458.2
2.5°	2464.8	2465.7	2460.1	2445.0	2435.5
5°	2455.4	2454.4	2445.0	2431.7	2424.2
7.5°	2428.0	2429.9	2427.0	2408.1	2397.7
10°	2401.5	2402.5	2394.9	2379.8	2367.5
12.5°	2367.5	2366.6	2356.2	2348.6	2328.8
15°	2313.7	2319.4	2313.7	2303.3	2287.3
17.5°	2261.8	2261.8	2265.5	2247.6	2235.3
20°	2203.2	2206.0	2206.0	2191.9	2177.7
22.5°	2135.2	2143.7	2146.5	2131.4	2114.4
25°	2054.9	2071.0	2080.4	2065.3	2047.4
27.5°	1957.7	1982.2	2010.6	1999.2	1979.4
30°	1849.1	1885.0	1932.2	1922.7	1908.6
32.5°	1746.1	1782.0	1847.2	1843.4	1835.8
35°	1652.6	1675.3	1751.8	1761.2	1754.6
37.5°	1563.9	1584.6	1656.4	1678.1	1672.5
40°	1470.4	1493.0	1549.7	1588.4	1590.3
42.5°	1377.8	1399.5	1445.8	1501.5	1501.5
45°	1279.6	1301.3	1343.8	1405.2	1412.8
47.5°	1183.3	1206.0	1247.5	1308.9	1321.2
50°	1088.9	1109.6	1151.2	1210.7	1229.6
52.5°	990.6	1013.3	1053.9	1108.7	1136.1
55°	896.2	911.3	955.7	1008.6	1037.9
57.5°	798.0	812.2	862.2	907.5	937.8
60°	703.6	721.5	760.2	806.5	841.4
62.5°	612.9	631.8	664.8	705.4	745.1
65°	525.1	539.2	571.3	611.9	646.9
67.5°	440.1	452.4	484.5	512.8	549.6
70°	354.1	370.2	393.8	421.2	444.8
72.5°	285.2	291.8	311.6	331.5	356.0
75°	210.6	221.9	238.0	249.3	263.5
77.5°	151.1	157.7	167.2	176.6	189.8
80°	101.0	103.9	112.4	114.3	124.7
82.5°	61.4	63.3	65.2	66.1	69.9
85°	33.1	33.1	33.1	31.2	31.2
87.5°	18.9	18.9	16.1	13.2	9.4
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)