

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: P554184

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-81-88-EDD-90**

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: P554184
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-LD4-1LO-35-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

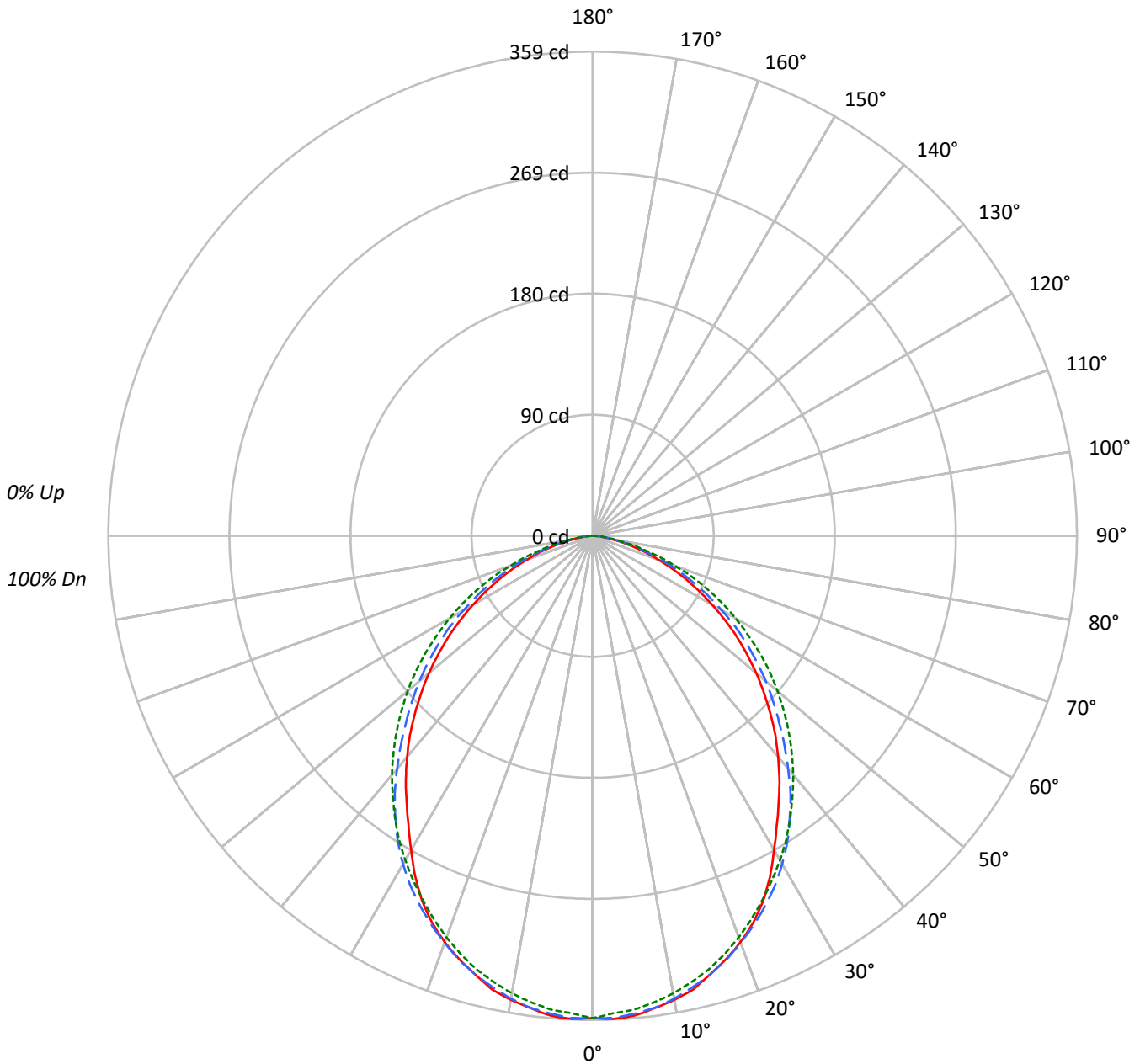
Lumens per Lamp: N/A
Luminaire Lumens: 827.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1925	1925	1925
5°	1930	1922	1905
10°	1909	1905	1883
15°	1875	1875	1854
20°	1836	1838	1814
25°	1776	1798	1769
30°	1672	1747	1726
35°	1580	1675	1677
40°	1503	1584	1626
45°	1417	1488	1565
50°	1326	1402	1498
55°	1224	1305	1417
60°	1102	1190	1318
65°	973	1058	1198
70°	810	902	1018
75°	636	719	796
80°	456	508	561
85°	296	296	278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	4.1
10°-20°	94.6	11.4
20°-30°	138.2	16.7
30°-40°	156.9	19.0
40°-50°	151.5	18.3
50°-60°	125.0	15.1
60°-70°	83.2	10.1
70°-80°	37.2	4.5
80°-90°	6.6	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°	266.5	32.2
0°-40°	423.4	51.2
0°-60°	699.9	84.6
0°-90°	827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	358	358	358	358	358	
5°	357	357	356	354	353	34
15°	337	338	337	335	333	95
25°	299	301	303	300	298	137
35°	240	244	255	256	255	151
45°	186	189	196	204	206	144
55°	130	133	139	147	151	116
65°	76	78	83	89	94	76
75°	31	32	35	36	38	33
85°	5	5	5	4	4	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	357.7	357.7	357.7	357.7	357.7
2.5°	358.6	358.8	357.9	355.7	354.4
5°	357.2	357.1	355.7	353.8	352.7
7.5°	353.3	353.5	353.1	350.4	348.9
10°	349.4	349.5	348.5	346.3	344.5
12.5°	344.5	344.3	342.8	341.7	338.8
15°	336.6	337.5	336.6	335.1	332.8
17.5°	329.1	329.1	329.6	327.0	325.2
20°	320.6	321.0	321.0	318.9	316.8
22.5°	310.7	311.9	312.3	310.1	307.6
25°	299.0	301.3	302.7	300.5	297.9
27.5°	284.8	288.4	292.5	290.9	288.0
30°	269.0	274.3	281.1	279.7	277.7
32.5°	254.1	259.3	268.8	268.2	267.1
35°	240.5	243.8	254.9	256.3	255.3
37.5°	227.5	230.6	241.0	244.2	243.3
40°	213.9	217.2	225.5	231.1	231.4
42.5°	200.5	203.6	210.4	218.5	218.5
45°	186.2	189.3	195.5	204.5	205.6
47.5°	172.2	175.5	181.5	190.4	192.2
50°	158.4	161.4	167.5	176.1	178.9
52.5°	144.1	147.4	153.3	161.3	165.3
55°	130.4	132.6	139.1	146.7	151.0
57.5°	116.1	118.2	125.4	132.0	136.4
60°	102.4	105.0	110.6	117.3	122.4
62.5°	89.2	91.9	96.7	102.6	108.4
65°	76.4	78.5	83.1	89.0	94.1
67.5°	64.0	65.8	70.5	74.6	80.0
70°	51.5	53.9	57.3	61.3	64.7
72.5°	41.5	42.5	45.3	48.2	51.8
75°	30.6	32.3	34.6	36.3	38.3
77.5°	22.0	22.9	24.3	25.7	27.6
80°	14.7	15.1	16.4	16.6	18.1
82.5°	8.9	9.2	9.5	9.6	10.2
85°	4.8	4.8	4.8	4.5	4.5
87.5°	2.7	2.7	2.3	1.9	1.4
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)