

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: P554264

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-82-88-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: P554264
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-40-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

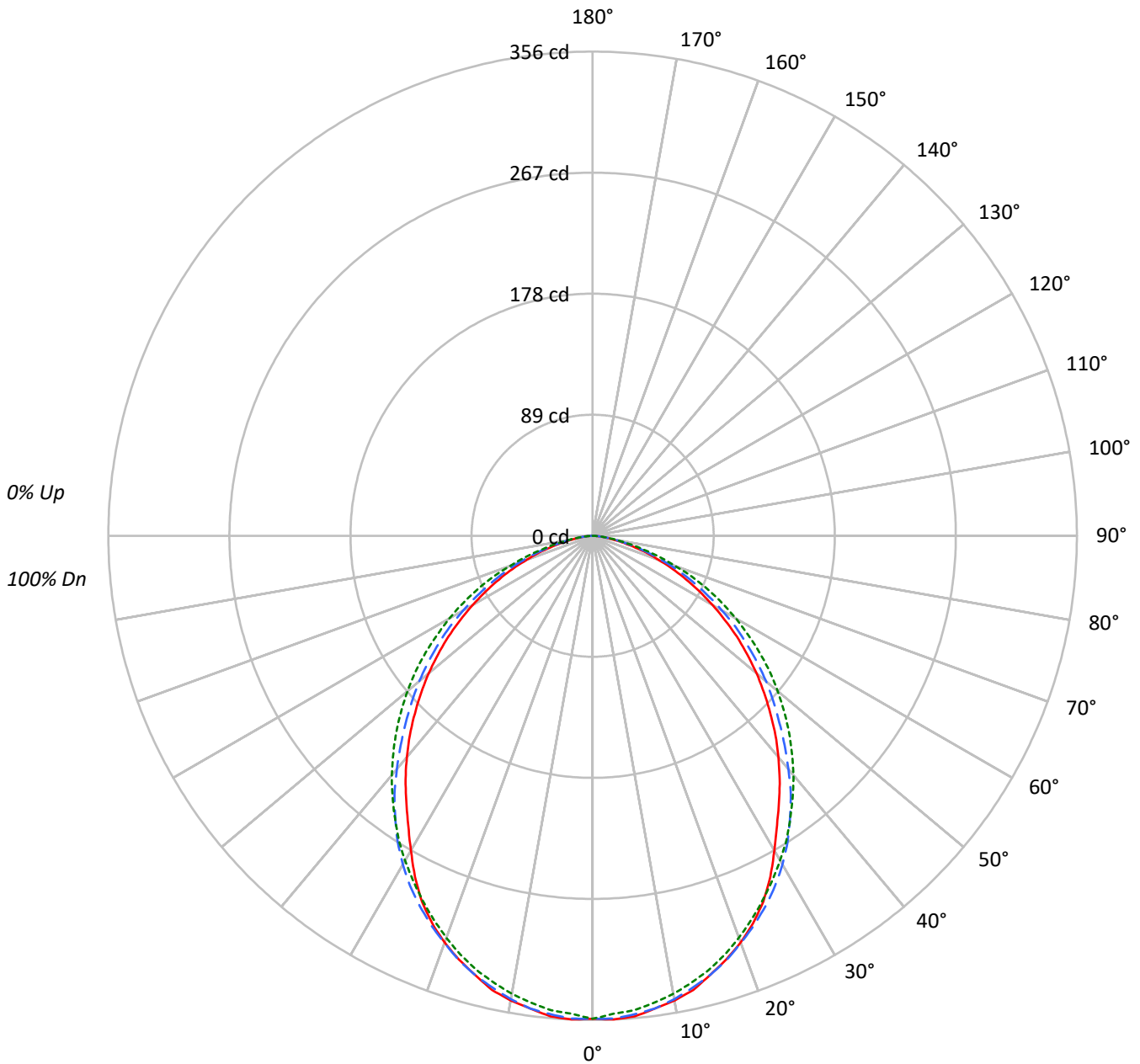
Lumens per Lamp: N/A
Luminaire Lumens: 821.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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									
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°	1911	1911	1911
5°	1916	1908	1892
10°	1896	1890	1869
15°	1862	1862	1841
20°	1822	1825	1801
25°	1762	1784	1756
30°	1660	1734	1713
35°	1568	1662	1665
40°	1492	1572	1614
45°	1407	1477	1553
50°	1317	1392	1487
55°	1214	1295	1407
60°	1094	1182	1308
65°	965	1051	1189
70°	806	895	1010
75°	632	715	792
80°	453	502	558
85°	296	296	278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	4.1
10°-20°	93.9	11.4
20°-30°	137.2	16.7
30°-40°	155.8	19.0
40°-50°	150.4	18.3
50°-60°	124.0	15.1
60°-70°	82.6	10.1
70°-80°	37.0	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°	264.6	32.2
0°-40°	420.4	51.2
0°-60°	694.8	84.6
0°-90°	821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	355	355	355	355	355	
5°	355	354	353	351	350	34
15°	334	335	334	333	330	94
25°	297	299	300	298	296	136
35°	239	242	253	254	253	150
45°	185	188	194	203	204	143
55°	129	132	138	146	150	116
65°	76	78	82	88	93	75
75°	30	32	34	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°	355.1	355.1	355.1	355.1	355.1
2.5°	356.0	356.2	355.3	353.2	351.8
5°	354.7	354.5	353.2	351.2	350.2
7.5°	350.7	351.0	350.6	347.8	346.3
10°	346.9	347.0	345.9	343.7	342.0
12.5°	342.0	341.8	340.3	339.2	336.4
15°	334.2	335.0	334.2	332.7	330.4
17.5°	326.7	326.7	327.2	324.6	322.9
20°	318.2	318.6	318.6	316.6	314.5
22.5°	308.4	309.6	310.0	307.9	305.4
25°	296.8	299.1	300.5	298.3	295.7
27.5°	282.8	286.3	290.4	288.8	285.9
30°	267.1	272.3	279.1	277.7	275.7
32.5°	252.2	257.4	266.8	266.3	265.2
35°	238.7	242.0	253.0	254.4	253.4
37.5°	225.9	228.9	239.3	242.4	241.6
40°	212.4	215.7	223.8	229.4	229.7
42.5°	199.0	202.2	208.8	216.9	216.9
45°	184.8	188.0	194.1	203.0	204.1
47.5°	170.9	174.2	180.2	189.1	190.8
50°	157.3	160.3	166.3	174.9	177.6
52.5°	143.1	146.4	152.2	160.1	164.1
55°	129.4	131.6	138.0	145.7	149.9
57.5°	115.3	117.3	124.5	131.1	135.4
60°	101.6	104.2	109.8	116.5	121.5
62.5°	88.5	91.3	96.0	101.9	107.6
65°	75.8	77.9	82.5	88.4	93.4
67.5°	63.6	65.3	70.0	74.1	79.4
70°	51.2	53.5	56.9	60.8	64.2
72.5°	41.2	42.1	45.0	47.9	51.4
75°	30.4	32.1	34.4	36.0	38.1
77.5°	21.8	22.8	24.1	25.5	27.4
80°	14.6	15.0	16.2	16.5	18.0
82.5°	8.9	9.1	9.4	9.5	10.1
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)