

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: P554196

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-82-86-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: P554196
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-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

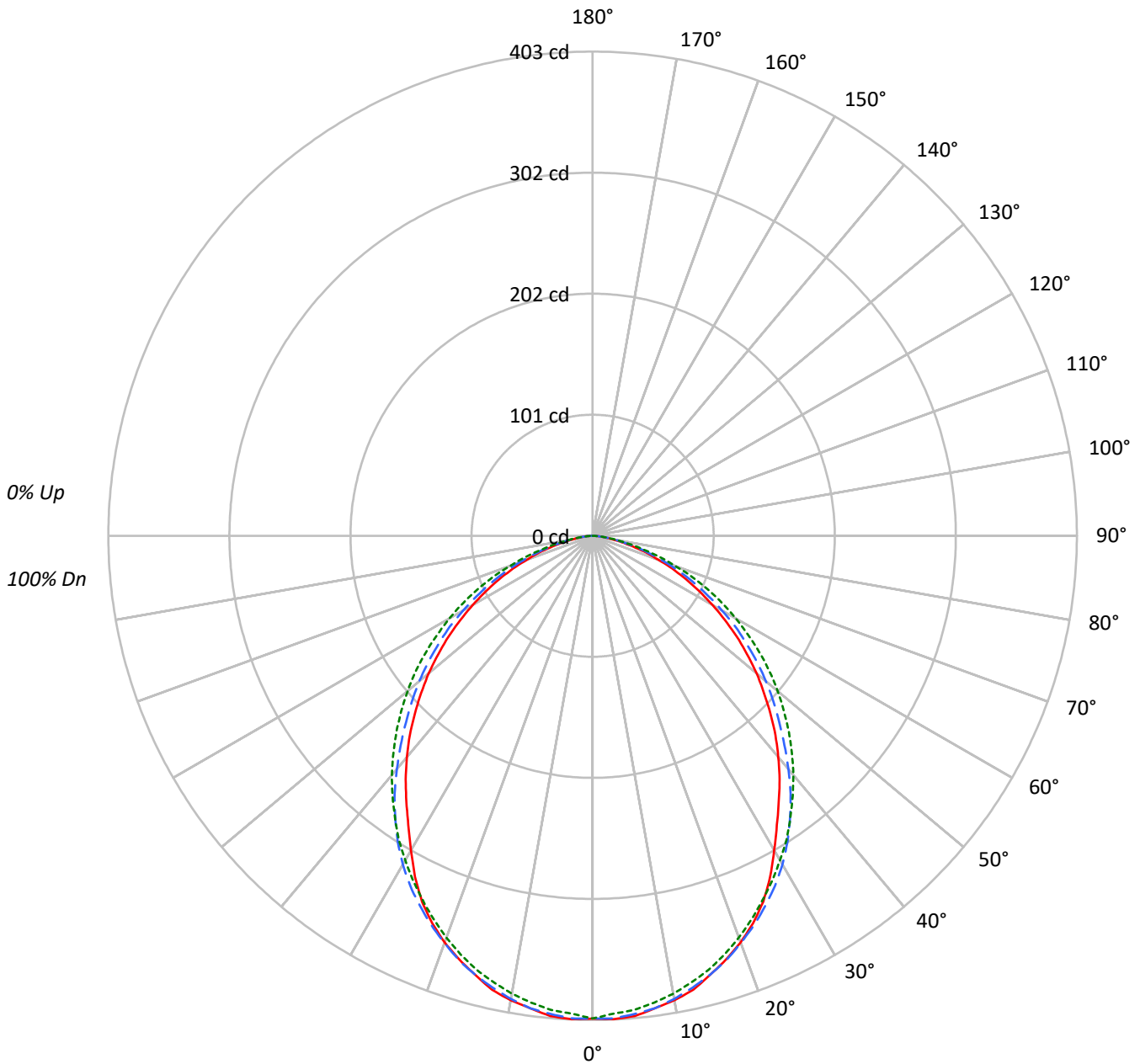
Lumens per Lamp: N/A
Luminaire Lumens: 929.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2162	2162	2162
5°	2168	2159	2140
10°	2145	2139	2115
15°	2107	2107	2083
20°	2062	2065	2038
25°	1995	2019	1987
30°	1878	1963	1938
35°	1775	1881	1884
40°	1688	1780	1826
45°	1592	1671	1757
50°	1490	1576	1683
55°	1375	1466	1591
60°	1238	1338	1480
65°	1093	1189	1346
70°	911	1013	1144
75°	715	809	896
80°	511	570	632
85°	333	333	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	4.1
10°-20°	106.3	11.4
20°-30°	155.3	16.7
30°-40°	176.3	19.0
40°-50°	170.2	18.3
50°-60°	140.4	15.1
60°-70°	93.5	10.1
70°-80°	41.8	4.5
80°-90°	7.5	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°	299.4	32.2
0°-40°	475.7	51.2
0°-60°	786.2	84.6
0°-90°	929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	402	402	402	402	402	
5°	401	401	400	397	396	38
15°	378	379	378	376	374	107
25°	336	338	340	338	335	154
35°	270	274	286	288	287	169
45°	209	213	220	230	231	161
55°	146	149	156	165	170	131
65°	86	88	93	100	106	85
75°	34	36	39	41	43	38
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	401.8	401.8	401.8	401.8	401.8
2.5°	402.8	403.0	402.1	399.6	398.1
5°	401.3	401.2	399.6	397.4	396.2
7.5°	396.8	397.1	396.7	393.6	391.9
10°	392.5	392.7	391.4	389.0	387.0
12.5°	387.0	386.8	385.1	383.9	380.6
15°	378.2	379.1	378.2	376.5	373.8
17.5°	369.7	369.7	370.3	367.3	365.3
20°	360.1	360.6	360.6	358.2	355.9
22.5°	349.0	350.4	350.8	348.4	345.6
25°	335.9	338.5	340.0	337.6	334.6
27.5°	320.0	324.0	328.6	326.8	323.5
30°	302.2	308.1	315.8	314.3	311.9
32.5°	285.4	291.3	301.9	301.3	300.1
35°	270.1	273.8	286.3	287.9	286.8
37.5°	255.6	259.0	270.7	274.3	273.4
40°	240.3	244.0	253.3	259.6	259.9
42.5°	225.2	228.7	236.3	245.4	245.4
45°	209.1	212.7	219.6	229.7	230.9
47.5°	193.4	197.1	203.9	213.9	215.9
50°	178.0	181.4	188.2	197.9	201.0
52.5°	161.9	165.6	172.3	181.2	185.7
55°	146.5	148.9	156.2	164.8	169.6
57.5°	130.4	132.7	140.9	148.3	153.3
60°	115.0	117.9	124.3	131.8	137.5
62.5°	100.2	103.3	108.7	115.3	121.8
65°	85.8	88.1	93.4	100.0	105.7
67.5°	71.9	73.9	79.2	83.8	89.8
70°	57.9	60.5	64.4	68.8	72.7
72.5°	46.6	47.7	50.9	54.2	58.2
75°	34.4	36.3	38.9	40.7	43.1
77.5°	24.7	25.8	27.3	28.9	31.0
80°	16.5	17.0	18.4	18.7	20.4
82.5°	10.0	10.3	10.7	10.8	11.4
85°	5.4	5.4	5.4	5.1	5.1
87.5°	3.1	3.1	2.6	2.2	1.5
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)