

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: P554257

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-82-84-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: P554257
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-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

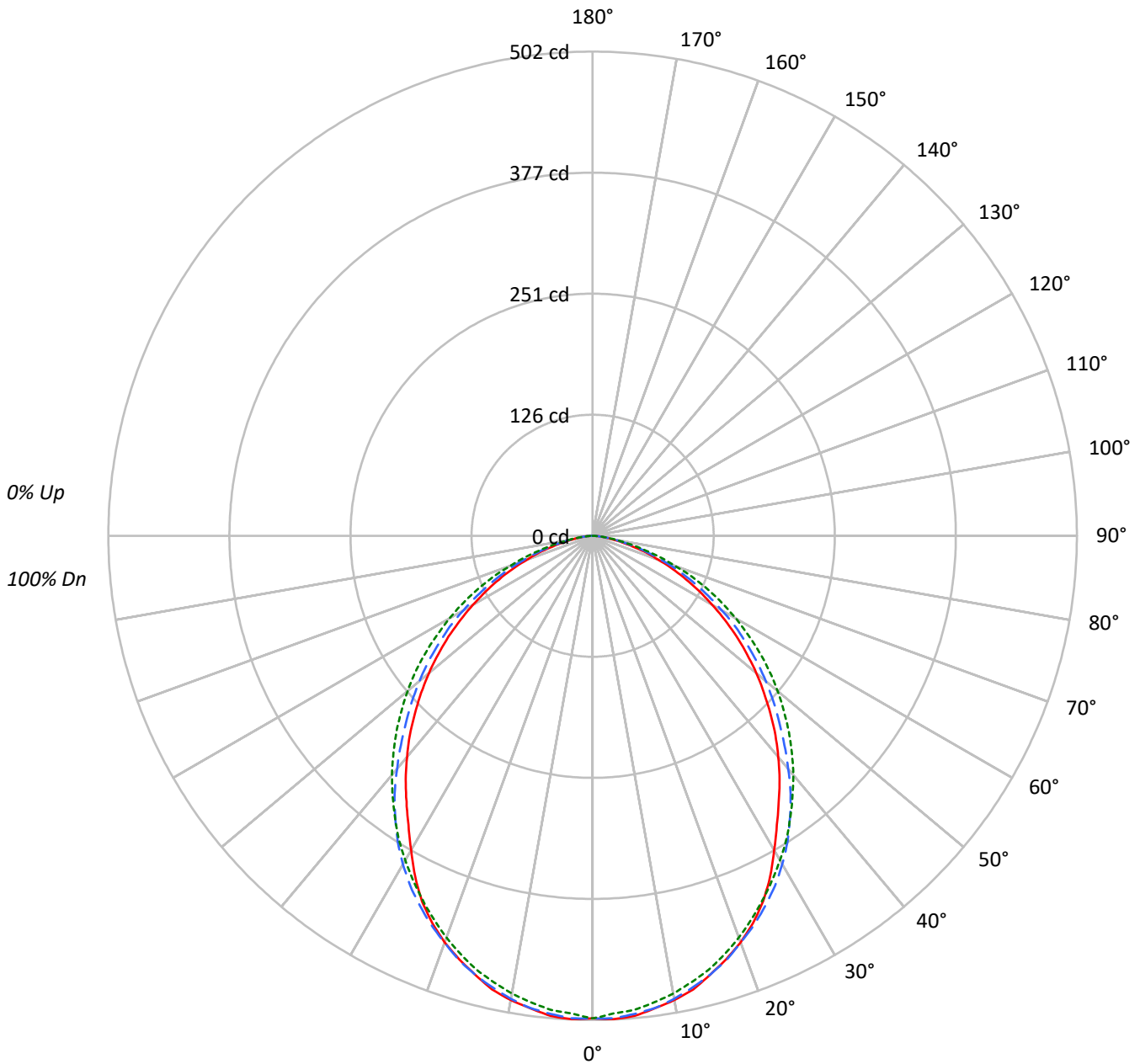
Lumens per Lamp: N/A
Luminaire Lumens: 1157.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2693	2693	2693
5°	2700	2689	2666
10°	2671	2664	2634
15°	2624	2624	2594
20°	2569	2572	2539
25°	2484	2515	2475
30°	2339	2444	2414
35°	2210	2343	2347
40°	2103	2216	2274
45°	1983	2082	2189
50°	1855	1962	2096
55°	1711	1825	1983
60°	1541	1665	1844
65°	1361	1481	1677
70°	1135	1262	1424
75°	892	1006	1115
80°	638	710	787
85°	414	414	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	4.1
10°-20°	132.3	11.4
20°-30°	193.4	16.7
30°-40°	219.5	19.0
40°-50°	211.9	18.3
50°-60°	174.8	15.1
60°-70°	116.4	10.1
70°-80°	52.1	4.5
80°-90°	9.3	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°	372.9	32.2
0°-40°	592.4	51.2
0°-60°	979.2	84.6
0°-90°	1157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	500	500	498	495	494	47
15°	471	472	471	469	466	133
25°	418	422	424	420	417	192
35°	336	341	357	358	357	211
45°	260	265	274	286	288	201
55°	182	186	194	205	211	163
65°	107	110	116	125	132	106
75°	43	45	48	51	54	47
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	500.4	500.4	500.4	500.4	500.4
2.5°	501.7	501.9	500.8	497.7	495.8
5°	499.8	499.6	497.7	495.0	493.5
7.5°	494.2	494.6	494.0	490.2	488.1
10°	488.8	489.0	487.5	484.4	481.9
12.5°	481.9	481.7	479.6	478.1	474.0
15°	471.0	472.1	471.0	468.8	465.6
17.5°	460.4	460.4	461.2	457.5	455.0
20°	448.5	449.0	449.0	446.2	443.3
22.5°	434.6	436.4	436.9	433.9	430.4
25°	418.3	421.6	423.5	420.4	416.8
27.5°	398.5	403.5	409.3	406.9	402.9
30°	376.4	383.7	393.3	391.4	388.5
32.5°	355.4	362.7	376.0	375.2	373.7
35°	336.4	341.0	356.6	358.5	357.2
37.5°	318.3	322.6	337.2	341.6	340.4
40°	299.3	303.9	315.4	323.3	323.7
42.5°	280.5	284.9	294.3	305.6	305.6
45°	260.5	264.9	273.5	286.0	287.6
47.5°	240.9	245.5	253.9	266.4	268.9
50°	221.6	225.9	234.3	246.4	250.3
52.5°	201.6	206.3	214.5	225.7	231.3
55°	182.4	185.5	194.5	205.3	211.3
57.5°	162.4	165.3	175.5	184.7	190.9
60°	143.2	146.9	154.7	164.2	171.3
62.5°	124.8	128.6	135.3	143.6	151.7
65°	106.9	109.8	116.3	124.6	131.7
67.5°	89.6	92.1	98.6	104.4	111.9
70°	72.1	75.4	80.2	85.7	90.5
72.5°	58.1	59.4	63.4	67.5	72.5
75°	42.9	45.2	48.4	50.7	53.6
77.5°	30.8	32.1	34.0	35.9	38.6
80°	20.6	21.1	22.9	23.3	25.4
82.5°	12.5	12.9	13.3	13.5	14.2
85°	6.7	6.7	6.7	6.3	6.3
87.5°	3.8	3.8	3.3	2.7	1.9
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)