

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: P554177

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-81-84-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: P554177
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-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

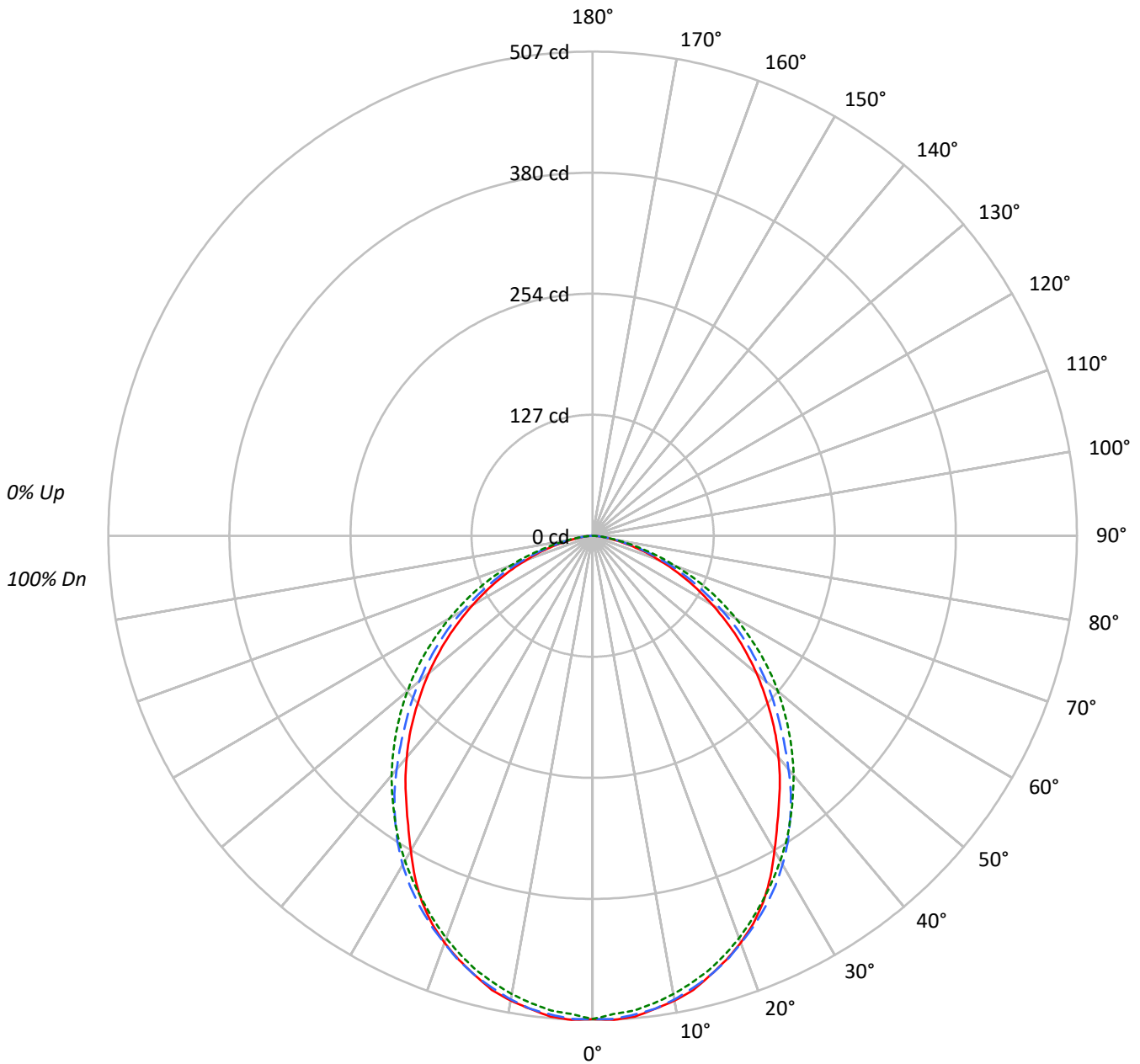
Lumens per Lamp: N/A
Luminaire Lumens: 1170.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2723	2723	2723
5°	2730	2719	2696
10°	2701	2694	2663
15°	2654	2654	2623
20°	2597	2601	2568
25°	2512	2543	2502
30°	2365	2472	2442
35°	2235	2369	2373
40°	2127	2241	2300
45°	2005	2105	2213
50°	1876	1984	2119
55°	1731	1846	2004
60°	1559	1685	1864
65°	1377	1498	1696
70°	1147	1276	1441
75°	900	1019	1127
80°	645	716	797
85°	420	420	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	4.1
10°-20°	133.8	11.4
20°-30°	195.6	16.7
30°-40°	222.0	19.0
40°-50°	214.3	18.3
50°-60°	176.8	15.1
60°-70°	117.7	10.1
70°-80°	52.7	4.5
80°-90°	9.4	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°	377.1	32.2
0°-40°	599.1	51.2
0°-60°	990.2	84.6
0°-90°	1170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	506	506	506	506	506	
5°	505	505	503	501	499	48
15°	476	477	476	474	471	134
25°	423	426	428	425	421	194
35°	340	345	361	362	361	213
45°	263	268	277	289	291	203
55°	184	188	197	208	214	165
65°	108	111	118	126	133	107
75°	43	46	49	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°	506.0	506.0	506.0	506.0	506.0
2.5°	507.4	507.5	506.4	503.3	501.3
5°	505.4	505.2	503.3	500.6	499.0
7.5°	499.8	500.2	499.6	495.7	493.6
10°	494.3	494.5	493.0	489.9	487.3
12.5°	487.3	487.1	485.0	483.4	479.4
15°	476.3	477.4	476.3	474.1	470.8
17.5°	465.6	465.6	466.3	462.6	460.1
20°	453.5	454.1	454.1	451.2	448.3
22.5°	439.5	441.3	441.8	438.7	435.2
25°	423.0	426.3	428.2	425.1	421.4
27.5°	403.0	408.0	413.9	411.5	407.4
30°	380.6	388.0	397.7	395.8	392.9
32.5°	359.4	366.8	380.2	379.4	377.9
35°	340.2	344.8	360.6	362.5	361.2
37.5°	321.9	326.2	341.0	345.4	344.3
40°	302.7	307.3	319.0	327.0	327.4
42.5°	283.6	288.1	297.6	309.1	309.1
45°	263.4	267.9	276.6	289.3	290.8
47.5°	243.6	248.2	256.8	269.4	272.0
50°	224.1	228.4	237.0	249.2	253.1
52.5°	203.9	208.6	216.9	228.2	233.9
55°	184.5	187.6	196.7	207.6	213.6
57.5°	164.3	167.2	177.5	186.8	193.0
60°	144.8	148.5	156.5	166.0	173.2
62.5°	126.2	130.0	136.8	145.2	153.4
65°	108.1	111.0	117.6	126.0	133.2
67.5°	90.6	93.1	99.7	105.6	113.1
70°	72.9	76.2	81.1	86.7	91.6
72.5°	58.7	60.1	64.1	68.2	73.3
75°	43.3	45.7	49.0	51.3	54.2
77.5°	31.1	32.5	34.4	36.4	39.1
80°	20.8	21.4	23.1	23.5	25.7
82.5°	12.6	13.0	13.4	13.6	14.4
85°	6.8	6.8	6.8	6.4	6.4
87.5°	3.9	3.9	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)