

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: P554567

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-81-87-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: P554567
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-LD4-1STD-50-UNV-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

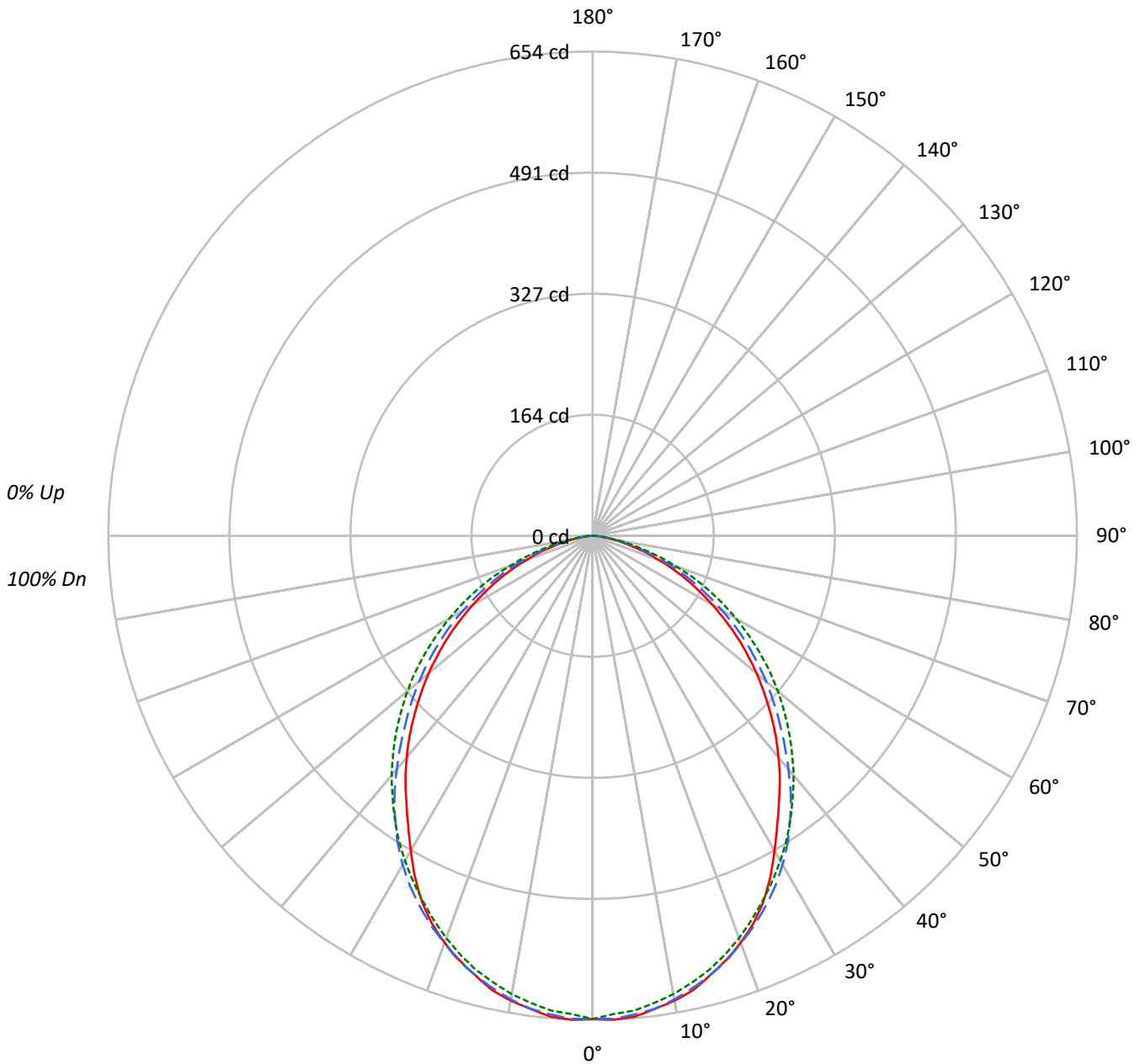
Lumens per Lamp: N/A
Luminaire Lumens: 1509.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3512	3512	3512
5°	3522	3507	3477
10°	3484	3475	3435
15°	3422	3422	3383
20°	3350	3355	3311
25°	3239	3280	3227
30°	3051	3188	3149
35°	2882	3056	3060
40°	2743	2890	2966
45°	2586	2716	2855
50°	2421	2559	2733
55°	2232	2381	2585
60°	2011	2172	2405
65°	1775	1932	2187
70°	1479	1644	1858
75°	1162	1314	1454
80°	831	924	1026
85°	543	543	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	4.1
10°-20°	172.6	11.4
20°-30°	252.2	16.7
30°-40°	286.3	19.0
40°-50°	276.4	18.3
50°-60°	228.0	15.1
60°-70°	151.8	10.1
70°-80°	67.9	4.5
80°-90°	12.2	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°	486.3	32.2
0°-40°	772.6	51.2
0°-60°	1277.1	84.6
0°-90°	1509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	652	652	649	646	644	62
15°	614	616	614	612	607	173
25°	546	550	552	548	544	250
35°	439	445	465	468	466	275
45°	340	346	357	373	375	262
55°	238	242	254	268	276	212
65°	139	143	152	162	172	138
75°	56	59	63	66	70	61
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652.6	652.6	652.6	652.6	652.6
2.5°	654.4	654.6	653.1	649.1	646.6
5°	651.9	651.6	649.1	645.6	643.6
7.5°	644.6	645.1	644.3	639.3	636.6
10°	637.6	637.8	635.8	631.8	628.5
12.5°	628.5	628.3	625.5	623.5	618.3
15°	614.2	615.7	614.2	611.5	607.2
17.5°	600.5	600.5	601.5	596.7	593.4
20°	584.9	585.7	585.7	581.9	578.1
22.5°	566.9	569.1	569.9	565.9	561.3
25°	545.5	549.8	552.3	548.3	543.5
27.5°	519.7	526.2	533.8	530.8	525.5
30°	490.9	500.4	513.0	510.4	506.7
32.5°	463.6	473.1	490.4	489.4	487.4
35°	438.7	444.8	465.1	467.6	465.8
37.5°	415.2	420.7	439.7	445.5	444.0
40°	390.4	396.4	411.4	421.7	422.2
42.5°	365.8	371.6	383.8	398.6	398.6
45°	339.7	345.5	356.8	373.1	375.1
47.5°	314.1	320.2	331.2	347.5	350.7
50°	289.1	294.6	305.6	321.4	326.4
52.5°	263.0	269.0	279.8	294.3	301.6
55°	237.9	241.9	253.7	267.8	275.5
57.5°	211.9	215.6	228.9	240.9	249.0
60°	186.8	191.5	201.8	214.1	223.4
62.5°	162.7	167.7	176.5	187.3	197.8
65°	139.4	143.2	151.7	162.5	171.7
67.5°	116.8	120.1	128.6	136.1	145.9
70°	94.0	98.3	104.5	111.8	118.1
72.5°	75.7	77.5	82.7	88.0	94.5
75°	55.9	58.9	63.2	66.2	69.9
77.5°	40.1	41.9	44.4	46.9	50.4
80°	26.8	27.6	29.8	30.3	33.1
82.5°	16.3	16.8	17.3	17.5	18.6
85°	8.8	8.8	8.8	8.3	8.3
87.5°	5.0	5.0	4.3	3.5	2.5
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)