

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: P554439

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-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: P554439
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-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

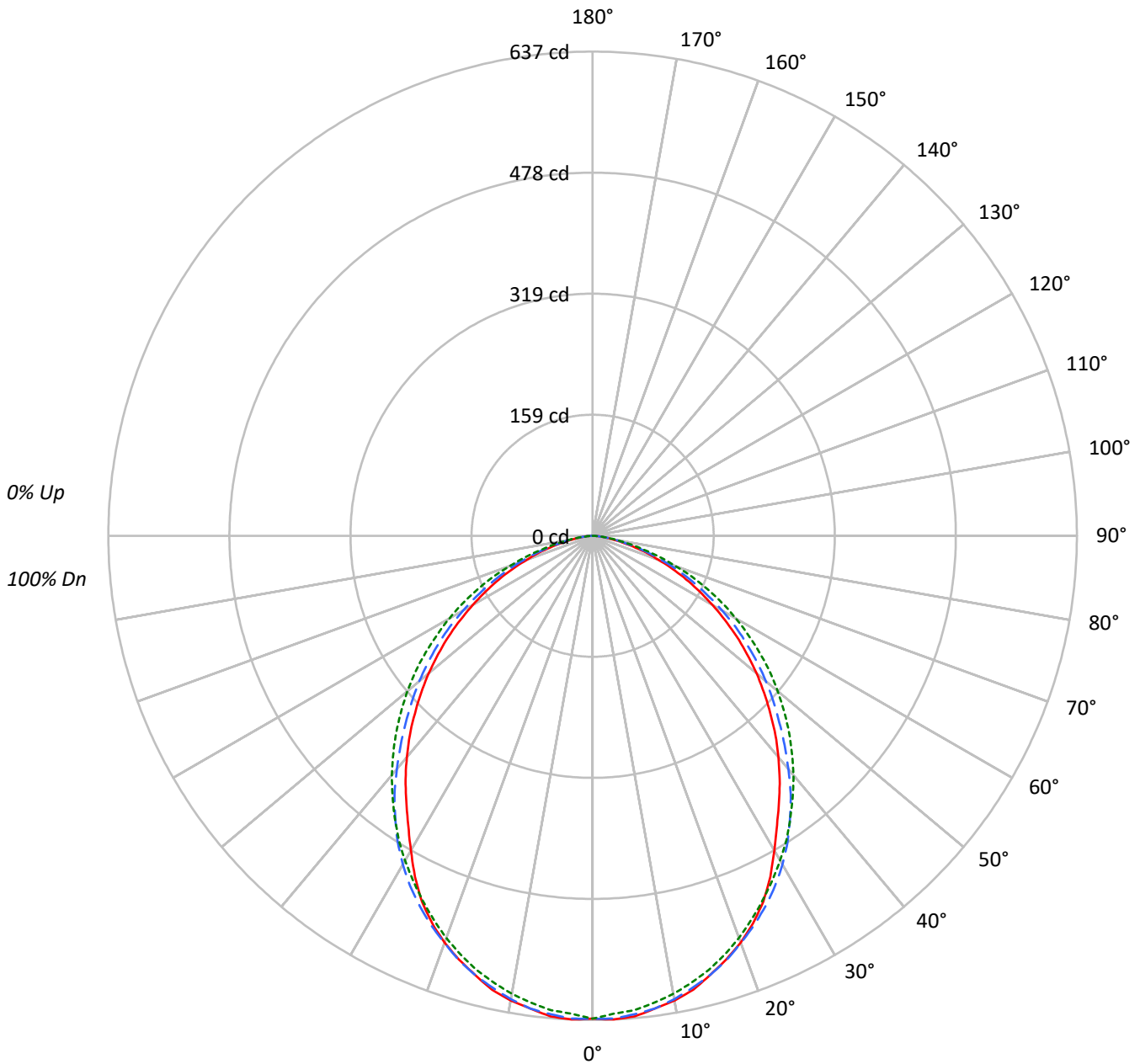
Lumens per Lamp: N/A
Luminaire Lumens: 1469.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3419	3419	3419
5°	3428	3414	3385
10°	3392	3383	3344
15°	3332	3332	3293
20°	3261	3265	3223
25°	3154	3193	3142
30°	2970	3104	3066
35°	2806	2974	2980
40°	2670	2814	2888
45°	2517	2643	2779
50°	2356	2491	2661
55°	2173	2318	2517
60°	1957	2115	2341
65°	1728	1881	2129
70°	1440	1602	1810
75°	1131	1279	1416
80°	809	899	998
85°	525	525	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	4.1
10°-20°	168.0	11.4
20°-30°	245.6	16.7
30°-40°	278.7	19.0
40°-50°	269.1	18.3
50°-60°	222.0	15.1
60°-70°	147.8	10.1
70°-80°	66.1	4.5
80°-90°	11.8	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°	473.4	32.2
0°-40°	752.2	51.2
0°-60°	1243.2	84.6
0°-90°	1469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	635	634	632	628	626	60
15°	598	599	598	595	591	169
25°	531	535	538	534	529	243
35°	427	433	453	455	454	268
45°	331	336	347	363	365	255
55°	232	236	247	261	268	207
65°	136	139	148	158	167	135
75°	54	57	62	64	68	60
85°	8	8	8	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	635.3	635.3	635.3	635.3	635.3
2.5°	637.0	637.3	635.8	631.9	629.4
5°	634.6	634.3	631.9	628.5	626.5
7.5°	627.5	628.0	627.3	622.4	619.7
10°	620.7	620.9	619.0	615.0	611.9
12.5°	611.9	611.6	608.9	607.0	601.9
15°	598.0	599.4	598.0	595.3	591.1
17.5°	584.5	584.5	585.5	580.9	577.7
20°	569.4	570.1	570.1	566.5	562.8
22.5°	551.8	554.0	554.8	550.9	546.5
25°	531.1	535.2	537.7	533.8	529.1
27.5°	505.9	512.3	519.6	516.7	511.6
30°	477.9	487.2	499.4	496.9	493.3
32.5°	451.3	460.6	477.4	476.4	474.5
35°	427.1	433.0	452.7	455.2	453.5
37.5°	404.2	409.5	428.1	433.7	432.2
40°	380.0	385.9	400.5	410.5	411.0
42.5°	356.1	361.7	373.7	388.1	388.1
45°	330.7	336.3	347.3	363.2	365.1
47.5°	305.8	311.7	322.4	338.3	341.4
50°	281.4	286.8	297.5	312.9	317.8
52.5°	256.0	261.9	272.4	286.5	293.6
55°	231.6	235.5	247.0	260.7	268.2
57.5°	206.2	209.9	222.8	234.5	242.4
60°	181.8	186.5	196.5	208.4	217.5
62.5°	158.4	163.3	171.8	182.3	192.6
65°	135.7	139.4	147.7	158.2	167.2
67.5°	113.7	116.9	125.2	132.5	142.0
70°	91.5	95.7	101.8	108.9	115.0
72.5°	73.7	75.4	80.5	85.7	92.0
75°	54.4	57.4	61.5	64.4	68.1
77.5°	39.1	40.8	43.2	45.6	49.1
80°	26.1	26.8	29.0	29.5	32.2
82.5°	15.9	16.4	16.8	17.1	18.1
85°	8.5	8.5	8.5	8.1	8.1
87.5°	4.9	4.9	4.1	3.4	2.4
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)