

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: P554503

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-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: P554503
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

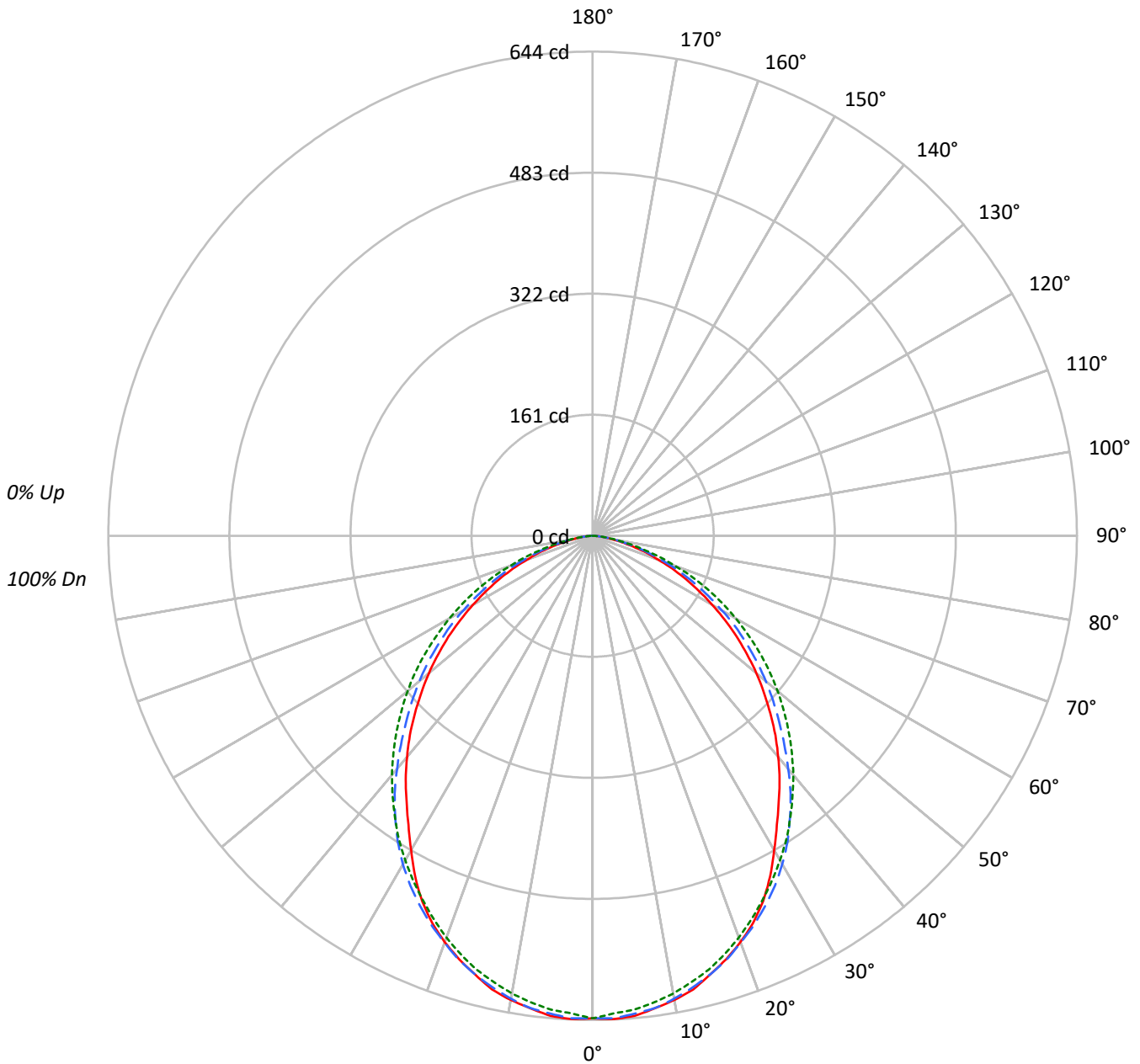
Lumens per Lamp: N/A
Luminaire Lumens: 1484.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: FUSL-12-2-LD4-1STD-40-UNV-81-87-EDD

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°	3454	3454	3454
5°	3464	3448	3419
10°	3427	3417	3378
15°	3366	3366	3327
20°	3294	3299	3257
25°	3186	3226	3174
30°	3000	3135	3097
35°	2835	3005	3010
40°	2697	2843	2917
45°	2543	2671	2808
50°	2380	2517	2688
55°	2196	2341	2543
60°	1977	2137	2365
65°	1746	1900	2151
70°	1456	1618	1827
75°	1144	1291	1431
80°	818	908	1007
85°	531	531	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	4.1
10°-20°	169.8	11.4
20°-30°	248.1	16.7
30°-40°	281.6	19.0
40°-50°	271.8	18.3
50°-60°	224.2	15.1
60°-70°	149.3	10.1
70°-80°	66.8	4.5
80°-90°	11.9	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°	478.3	32.2
0°-40°	759.8	51.2
0°-60°	1255.9	84.6
0°-90°	1484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	641	641	638	635	633	61
15°	604	606	604	601	597	170
25°	536	541	543	539	534	246
35°	432	437	457	460	458	270
45°	334	340	351	367	369	258
55°	234	238	250	263	271	209
65°	137	141	149	160	169	136
75°	55	58	62	65	69	60
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°	641.8	641.8	641.8	641.8	641.8
2.5°	643.5	643.8	642.3	638.3	635.9
5°	641.1	640.8	638.3	634.9	632.9
7.5°	633.9	634.4	633.7	628.7	626.0
10°	627.0	627.2	625.3	621.3	618.1
12.5°	618.1	617.9	615.2	613.2	608.0
15°	604.1	605.5	604.1	601.4	597.2
17.5°	590.5	590.5	591.5	586.8	583.6
20°	575.2	576.0	576.0	572.3	568.6
22.5°	557.5	559.7	560.4	556.5	552.0
25°	536.5	540.7	543.2	539.2	534.5
27.5°	511.1	517.5	524.9	522.0	516.8
30°	482.8	492.1	504.5	502.0	498.3
32.5°	455.9	465.3	482.3	481.3	479.3
35°	431.5	437.4	457.4	459.8	458.1
37.5°	408.3	413.7	432.5	438.1	436.7
40°	383.9	389.8	404.6	414.7	415.2
42.5°	359.7	365.4	377.5	392.0	392.0
45°	334.1	339.8	350.9	366.9	368.9
47.5°	308.9	314.9	325.7	341.7	344.9
50°	284.3	289.7	300.6	316.1	321.0
52.5°	258.6	264.6	275.2	289.5	296.6
55°	234.0	237.9	249.5	263.3	271.0
57.5°	208.3	212.0	225.1	236.9	244.8
60°	183.7	188.4	198.5	210.6	219.7
62.5°	160.0	164.9	173.6	184.2	194.5
65°	137.1	140.8	149.2	159.8	168.9
67.5°	114.9	118.1	126.5	133.9	143.5
70°	92.5	96.7	102.8	110.0	116.1
72.5°	74.5	76.2	81.4	86.5	93.0
75°	55.0	57.9	62.1	65.1	68.8
77.5°	39.4	41.2	43.6	46.1	49.6
80°	26.4	27.1	29.3	29.8	32.5
82.5°	16.0	16.5	17.0	17.3	18.2
85°	8.6	8.6	8.6	8.1	8.1
87.5°	4.9	4.9	4.2	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)