

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: P554251

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-81-94-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: P554251
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-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

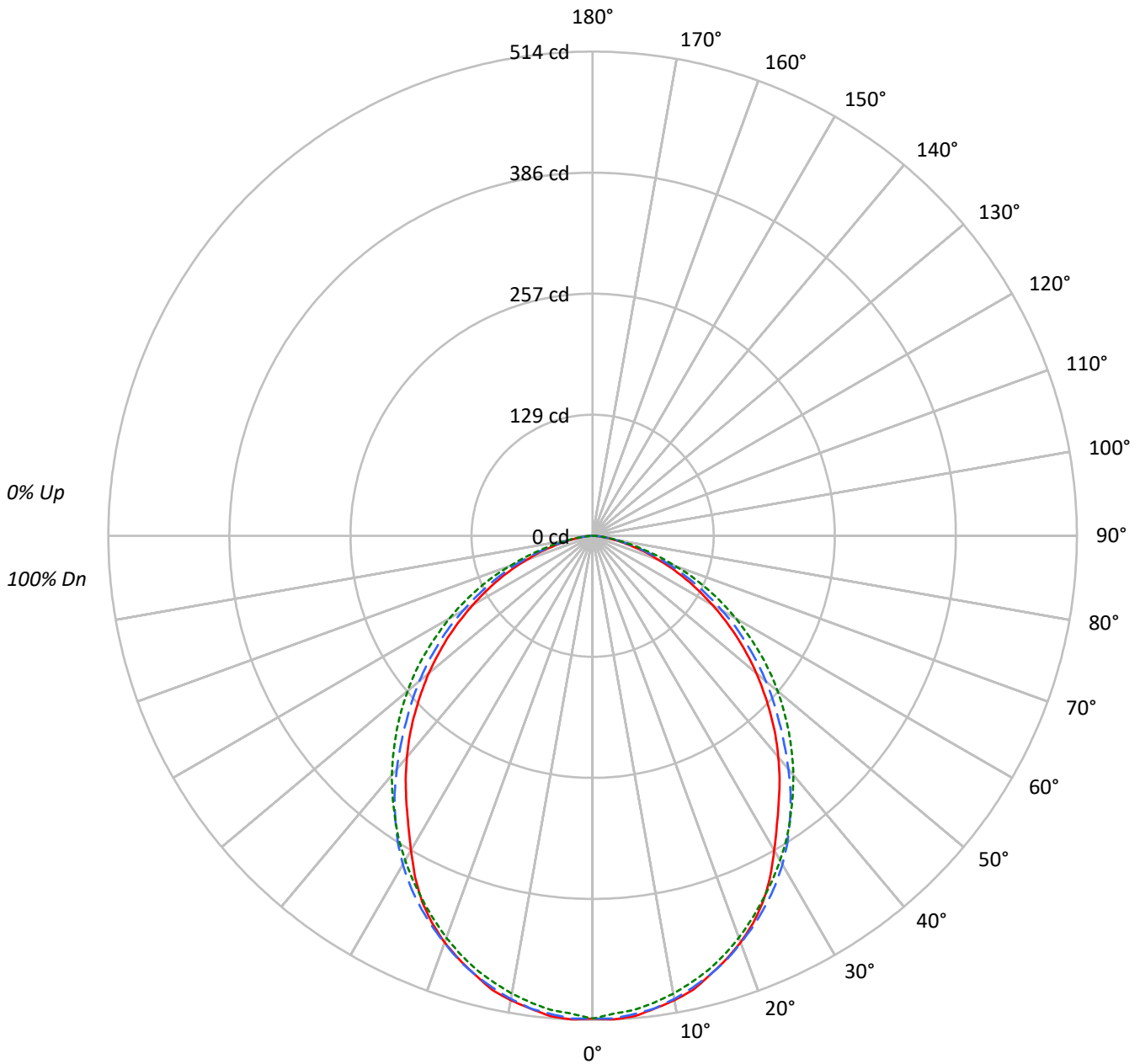
Lumens per Lamp: N/A
Luminaire Lumens: 1185.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	2758	2758	2758
5°	2766	2754	2730
10°	2736	2729	2698
15°	2688	2688	2657
20°	2631	2634	2600
25°	2544	2575	2534
30°	2396	2503	2473
35°	2263	2399	2403
40°	2153	2270	2329
45°	2031	2133	2242
50°	1901	2009	2146
55°	1753	1869	2031
60°	1579	1706	1888
65°	1394	1517	1718
70°	1161	1292	1459
75°	913	1031	1142
80°	654	725	806
85°	426	426	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	4.1
10°-20°	135.6	11.4
20°-30°	198.1	16.7
30°-40°	224.9	19.0
40°-50°	217.1	18.3
50°-60°	179.1	15.1
60°-70°	119.2	10.1
70°-80°	53.4	4.5
80°-90°	9.5	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°	381.9	32.2
0°-40°	606.7	51.2
0°-60°	1002.9	84.6
0°-90°	1185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	512	512	512	512	512	
5°	512	512	510	507	505	48
15°	482	484	482	480	477	136
25°	428	432	434	431	427	196
35°	344	349	365	367	366	216
45°	267	271	280	293	294	206
55°	187	190	199	210	216	167
65°	110	112	119	128	135	109
75°	44	46	50	52	55	48
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°	512.5	512.5	512.5	512.5	512.5
2.5°	513.9	514.1	512.9	509.7	507.8
5°	511.9	511.7	509.7	507.0	505.4
7.5°	506.2	506.6	506.0	502.0	499.9
10°	500.7	500.9	499.3	496.1	493.6
12.5°	493.6	493.4	491.2	489.6	485.5
15°	482.4	483.5	482.4	480.2	476.8
17.5°	471.5	471.5	472.3	468.6	466.0
20°	459.3	459.9	459.9	457.0	454.0
22.5°	445.1	446.9	447.5	444.4	440.8
25°	428.4	431.8	433.7	430.6	426.8
27.5°	408.1	413.3	419.2	416.8	412.7
30°	385.5	393.0	402.8	400.9	397.9
32.5°	364.0	371.5	385.1	384.3	382.7
35°	344.5	349.3	365.2	367.2	365.8
37.5°	326.0	330.4	345.3	349.9	348.7
40°	306.5	311.3	323.1	331.2	331.5
42.5°	287.2	291.8	301.4	313.0	313.0
45°	266.8	271.3	280.2	293.0	294.5
47.5°	246.7	251.4	260.1	272.9	275.4
50°	227.0	231.3	240.0	252.4	256.3
52.5°	206.5	211.3	219.7	231.1	236.8
55°	186.8	190.0	199.2	210.3	216.4
57.5°	166.4	169.3	179.8	189.2	195.5
60°	146.7	150.4	158.5	168.1	175.4
62.5°	127.8	131.7	138.6	147.1	155.3
65°	109.5	112.4	119.1	127.6	134.9
67.5°	91.7	94.3	101.0	106.9	114.6
70°	73.8	77.2	82.1	87.8	92.7
72.5°	59.5	60.8	65.0	69.1	74.2
75°	43.9	46.3	49.6	52.0	54.9
77.5°	31.5	32.9	34.8	36.8	39.6
80°	21.1	21.7	23.4	23.8	26.0
82.5°	12.8	13.2	13.6	13.8	14.6
85°	6.9	6.9	6.9	6.5	6.5
87.5°	3.9	3.9	3.3	2.8	2.0
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)