

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: P554537

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-93-88-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: P554537
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-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

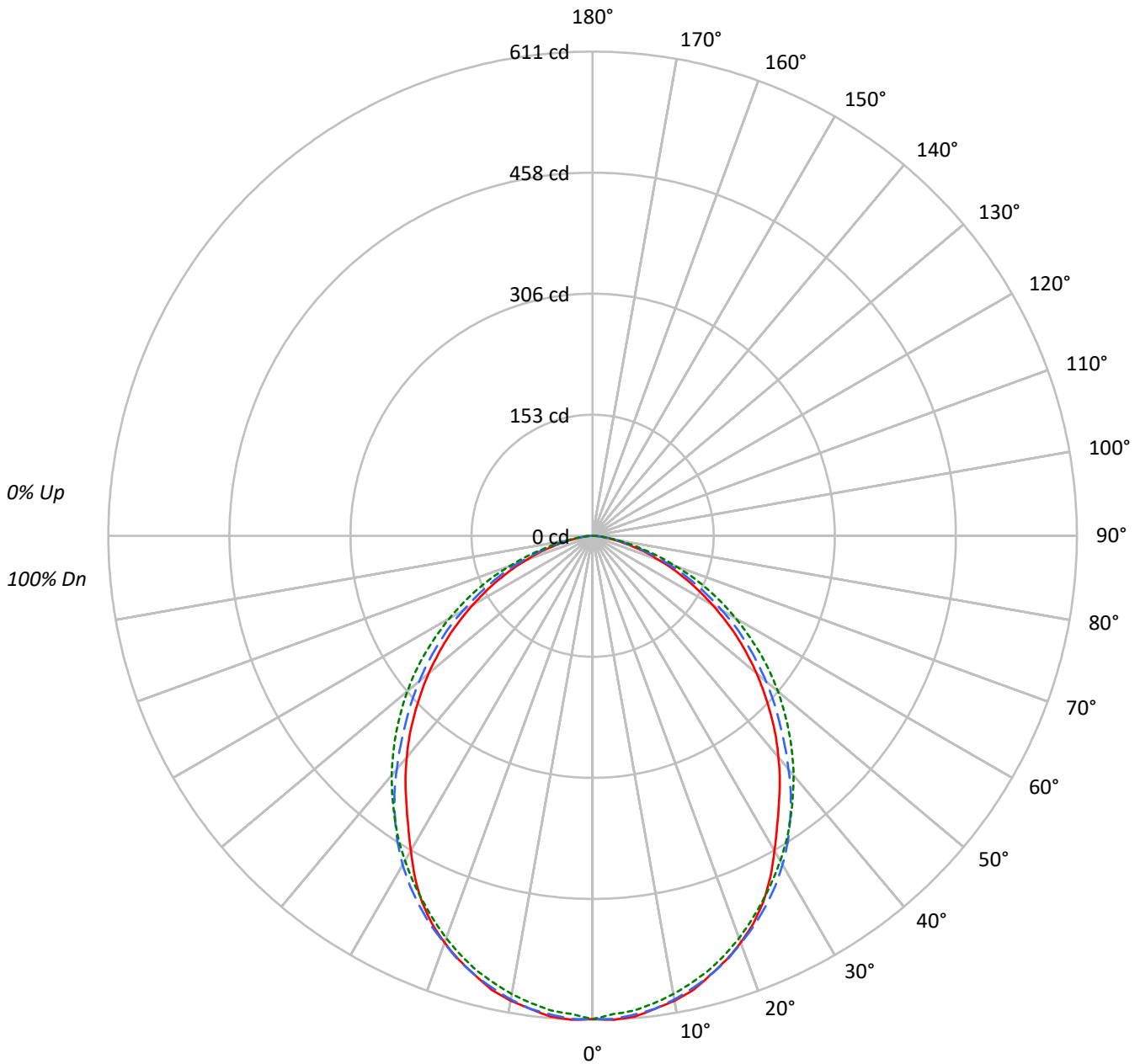
Lumens per Lamp: N/A
Luminaire Lumens: 1410.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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°	3282	3282	3282
5°	3291	3277	3249
10°	3255	3247	3210
15°	3198	3198	3161
20°	3130	3134	3094
25°	3027	3065	3016
30°	2851	2979	2942
35°	2694	2855	2860
40°	2562	2701	2772
45°	2416	2538	2668
50°	2262	2391	2554
55°	2086	2225	2416
60°	1878	2030	2246
65°	1659	1805	2044
70°	1382	1537	1736
75°	1085	1227	1360
80°	778	865	958
85°	506	506	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	4.1
10°-20°	161.3	11.4
20°-30°	235.7	16.7
30°-40°	267.5	19.0
40°-50°	258.3	18.3
50°-60°	213.1	15.1
60°-70°	141.9	10.1
70°-80°	63.5	4.5
80°-90°	11.4	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°	454.4	32.2
0°-40°	721.9	51.2
0°-60°	1193.3	84.6
0°-90°	1410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	609	609	606	603	601	58
15°	574	575	574	571	567	162
25°	510	514	516	512	508	233
35°	410	416	435	437	435	257
45°	317	323	333	349	350	245
55°	222	226	237	250	258	198
65°	130	134	142	152	160	129
75°	52	55	59	62	65	57
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	609.8	609.8	609.8	609.8	609.8
2.5°	611.4	611.7	610.3	606.5	604.2
5°	609.1	608.9	606.5	603.2	601.4
7.5°	602.3	602.8	602.1	597.4	594.8
10°	595.7	596.0	594.1	590.3	587.3
12.5°	587.3	587.1	584.5	582.6	577.7
15°	573.9	575.4	573.9	571.4	567.4
17.5°	561.1	561.1	562.0	557.5	554.5
20°	546.5	547.2	547.2	543.7	540.2
22.5°	529.7	531.8	532.5	528.7	524.5
25°	509.8	513.7	516.1	512.3	507.9
27.5°	485.6	491.7	498.7	495.9	491.0
30°	458.7	467.6	479.3	477.0	473.4
32.5°	433.2	442.1	458.2	457.3	455.4
35°	410.0	415.6	434.6	436.9	435.3
37.5°	387.9	393.1	410.9	416.3	414.9
40°	364.7	370.4	384.4	394.0	394.5
42.5°	341.8	347.2	358.7	372.5	372.5
45°	317.4	322.8	333.4	348.6	350.5
47.5°	293.5	299.2	309.5	324.7	327.7
50°	270.1	275.3	285.6	300.3	305.0
52.5°	245.7	251.4	261.4	275.0	281.8
55°	222.3	226.1	237.1	250.2	257.5
57.5°	198.0	201.5	213.9	225.1	232.6
60°	174.5	179.0	188.6	200.1	208.7
62.5°	152.0	156.7	164.9	175.0	184.8
65°	130.3	133.8	141.7	151.8	160.5
67.5°	109.2	112.2	120.2	127.2	136.3
70°	87.8	91.8	97.7	104.5	110.3
72.5°	70.7	72.4	77.3	82.2	88.3
75°	52.2	55.1	59.0	61.8	65.4
77.5°	37.5	39.1	41.5	43.8	47.1
80°	25.1	25.8	27.9	28.3	30.9
82.5°	15.2	15.7	16.2	16.4	17.3
85°	8.2	8.2	8.2	7.7	7.7
87.5°	4.7	4.7	4.0	3.3	2.3
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)