

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: P554009

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-82-88-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: P554009
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-LD4-1HI-40-UNV-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

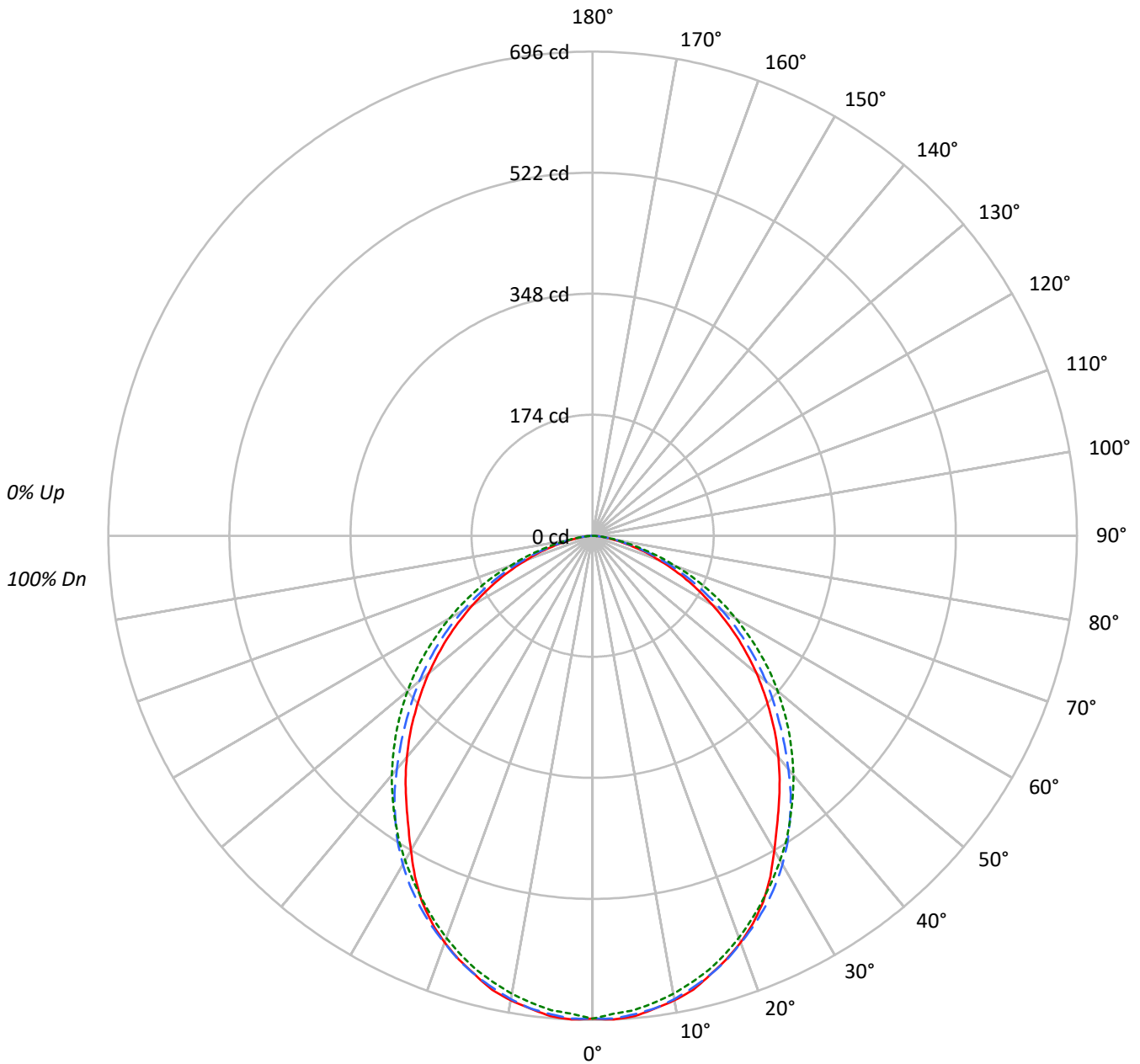
Lumens per Lamp: N/A
Luminaire Lumens: 1605.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	3736	3736	3736
5°	3746	3730	3698
10°	3706	3696	3653
15°	3640	3640	3599
20°	3563	3568	3522
25°	3446	3489	3433
30°	3245	3391	3349
35°	3066	3250	3256
40°	2917	3074	3155
45°	2750	2888	3036
50°	2575	2722	2907
55°	2375	2533	2750
60°	2139	2311	2558
65°	1889	2054	2327
70°	1574	1750	1976
75°	1237	1397	1547
80°	883	982	1091
85°	574	574	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	4.1
10°-20°	183.6	11.4
20°-30°	268.3	16.7
30°-40°	304.6	19.0
40°-50°	294.0	18.3
50°-60°	242.5	15.1
60°-70°	161.5	10.1
70°-80°	72.3	4.5
80°-90°	12.9	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°	517.2	32.2
0°-40°	821.8	51.2
0°-60°	1358.3	84.6
0°-90°	1605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	693	693	690	687	684	66
15°	653	655	653	650	646	184
25°	580	585	588	583	578	266
35°	467	473	495	497	496	292
45°	361	368	380	397	399	279
55°	253	257	270	285	293	226
65°	148	152	161	173	183	147
75°	60	63	67	70	74	65
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	694.1	694.1	694.1	694.1	694.1
2.5°	696.0	696.3	694.7	690.4	687.7
5°	693.3	693.1	690.4	686.7	684.5
7.5°	685.6	686.1	685.3	680.0	677.1
10°	678.1	678.4	676.3	672.0	668.5
12.5°	668.5	668.3	665.3	663.2	657.6
15°	653.3	654.9	653.3	650.4	645.9
17.5°	638.7	638.7	639.7	634.7	631.2
20°	622.1	622.9	622.9	618.9	614.9
22.5°	602.9	605.3	606.1	601.9	597.1
25°	580.3	584.8	587.5	583.2	578.1
27.5°	552.8	559.7	567.7	564.5	558.9
30°	522.1	532.3	545.6	542.9	538.9
32.5°	493.1	503.2	521.6	520.5	518.4
35°	466.7	473.1	494.7	497.3	495.5
37.5°	441.6	447.5	467.7	473.9	472.3
40°	415.2	421.6	437.6	448.5	449.1
42.5°	389.1	395.2	408.3	424.0	424.0
45°	361.3	367.5	379.5	396.8	398.9
47.5°	334.1	340.5	352.3	369.6	373.1
50°	307.5	313.3	325.1	341.9	347.2
52.5°	279.7	286.1	297.6	313.1	320.8
55°	253.1	257.3	269.9	284.8	293.1
57.5°	225.3	229.3	243.5	256.3	264.8
60°	198.7	203.7	214.7	227.7	237.6
62.5°	173.1	178.4	187.7	199.2	210.4
65°	148.3	152.3	161.3	172.8	182.7
67.5°	124.3	127.7	136.8	144.8	155.2
70°	100.0	104.5	111.2	118.9	125.6
72.5°	80.5	82.4	88.0	93.6	100.5
75°	59.5	62.7	67.2	70.4	74.4
77.5°	42.7	44.5	47.2	49.9	53.6
80°	28.5	29.3	31.7	32.3	35.2
82.5°	17.3	17.9	18.4	18.7	19.7
85°	9.3	9.3	9.3	8.8	8.8
87.5°	5.3	5.3	4.5	3.7	2.7
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)