

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: P554010

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-82-94-EDD-90**

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: P554010
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-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

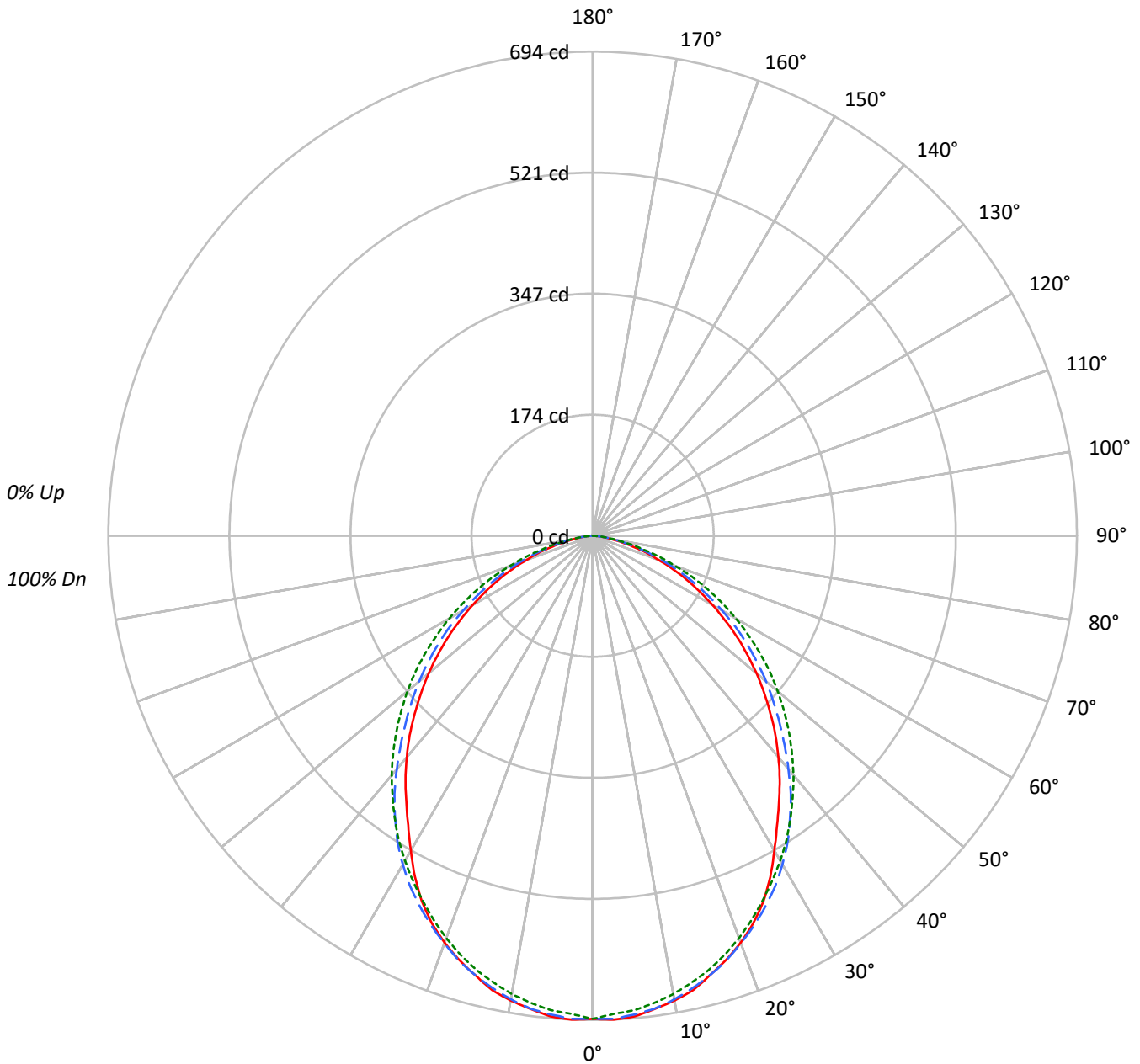
Lumens per Lamp: N/A
Luminaire Lumens: 1601.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (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°	3726	3726	3726
5°	3736	3721	3689
10°	3697	3687	3645
15°	3631	3631	3589
20°	3554	3559	3513
25°	3437	3480	3425
30°	3237	3382	3341
35°	3058	3242	3247
40°	2910	3067	3147
45°	2743	2881	3029
50°	2568	2715	2900
55°	2368	2526	2743
60°	2133	2305	2551
65°	1883	2049	2320
70°	1569	1745	1972
75°	1233	1393	1543
80°	883	982	1088
85°	574	574	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	4.1
10°-20°	183.1	11.4
20°-30°	267.6	16.7
30°-40°	303.8	19.0
40°-50°	293.2	18.3
50°-60°	241.9	15.1
60°-70°	161.1	10.1
70°-80°	72.1	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°	516.0	32.2
0°-40°	819.7	51.2
0°-60°	1354.9	84.6
0°-90°	1601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	692	691	689	685	683	65
15°	652	653	652	649	644	184
25°	579	583	586	582	577	265
35°	466	472	493	496	494	292
45°	360	366	378	396	398	278
55°	252	257	269	284	292	225
65°	148	152	161	172	182	147
75°	59	62	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°	692.4	692.4	692.4	692.4	692.4
2.5°	694.3	694.5	692.9	688.7	686.0
5°	691.6	691.3	688.7	684.9	682.8
7.5°	683.9	684.4	683.6	678.3	675.4
10°	676.4	676.7	674.6	670.3	666.9
12.5°	666.9	666.6	663.7	661.5	655.9
15°	651.7	653.3	651.7	648.8	644.2
17.5°	637.1	637.1	638.1	633.1	629.6
20°	620.6	621.4	621.4	617.4	613.4
22.5°	601.4	603.8	604.6	600.4	595.6
25°	578.8	583.3	586.0	581.7	576.7
27.5°	551.4	558.3	566.3	563.1	557.5
30°	520.8	530.9	544.2	541.6	537.6
32.5°	491.8	501.9	520.3	519.2	517.1
35°	465.5	471.9	493.4	496.1	494.2
37.5°	440.5	446.3	466.6	472.7	471.1
40°	414.2	420.5	436.5	447.4	447.9
42.5°	388.1	394.2	407.2	422.9	422.9
45°	360.4	366.5	378.5	395.8	397.9
47.5°	333.3	339.7	351.4	368.7	372.1
50°	306.7	312.5	324.3	341.0	346.3
52.5°	279.0	285.4	296.9	312.3	320.0
55°	252.4	256.7	269.2	284.1	292.3
57.5°	224.8	228.8	242.9	255.6	264.1
60°	198.2	203.2	214.1	227.2	237.0
62.5°	172.6	178.0	187.3	198.7	209.9
65°	147.9	151.9	160.9	172.4	182.2
67.5°	124.0	127.4	136.5	144.4	154.8
70°	99.7	104.3	110.9	118.6	125.3
72.5°	80.3	82.2	87.8	93.4	100.3
75°	59.3	62.5	67.0	70.2	74.2
77.5°	42.6	44.4	47.1	49.7	53.5
80°	28.5	29.3	31.7	32.2	35.1
82.5°	17.3	17.8	18.4	18.6	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)