

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: P554393

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-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: P554393
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-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

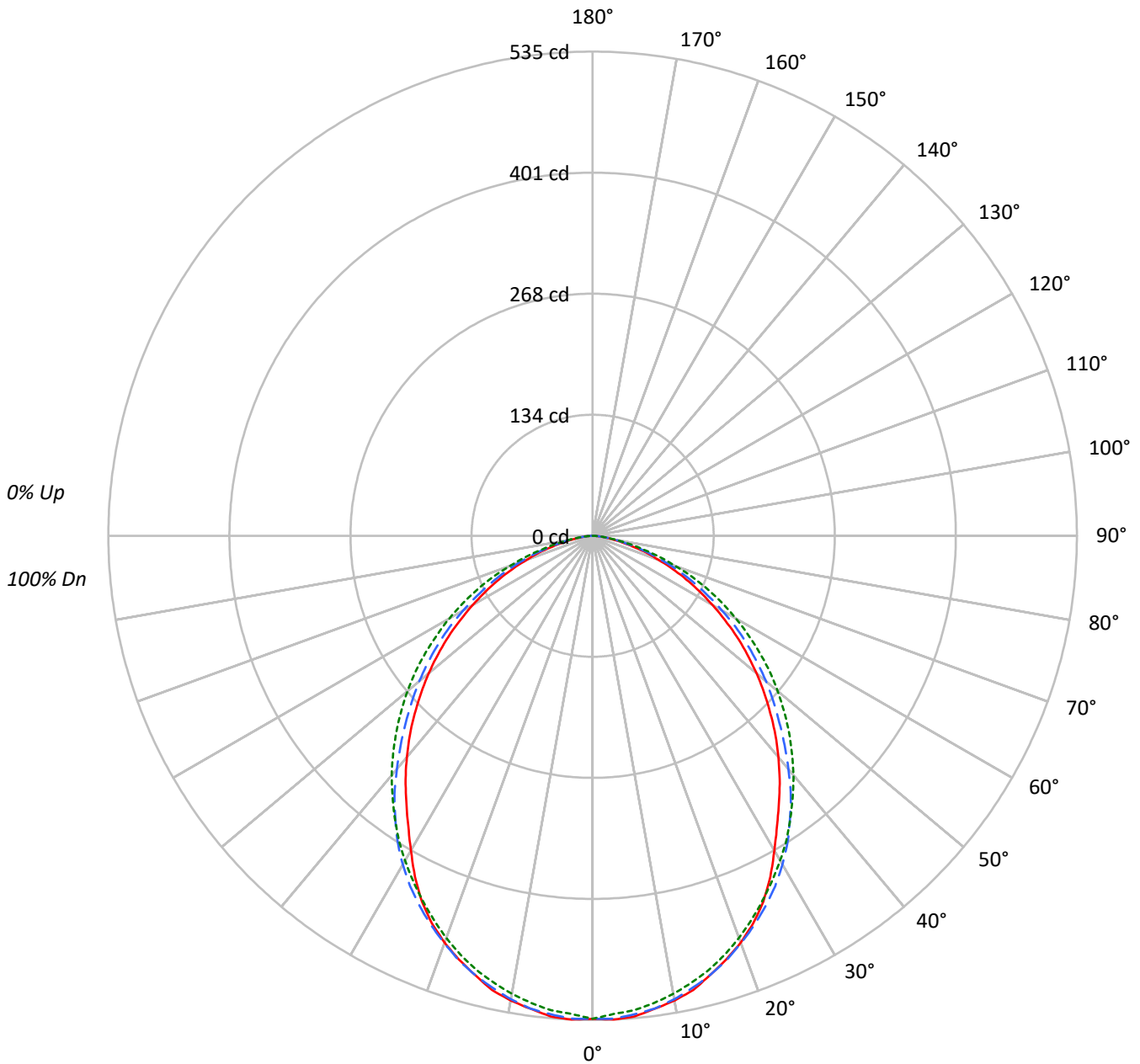
Lumens per Lamp: N/A
Luminaire Lumens: 1234.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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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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°	2872	2872	2872
5°	2880	2868	2843
10°	2849	2841	2809
15°	2799	2799	2767
20°	2739	2743	2708
25°	2649	2682	2640
30°	2495	2607	2575
35°	2357	2499	2503
40°	2243	2363	2426
45°	2114	2220	2334
50°	1979	2092	2235
55°	1826	1947	2114
60°	1644	1776	1967
65°	1452	1579	1788
70°	1210	1345	1520
75°	950	1075	1189
80°	679	756	840
85°	445	445	420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	4.1
10°-20°	141.2	11.4
20°-30°	206.3	16.7
30°-40°	234.1	19.0
40°-50°	226.0	18.3
50°-60°	186.5	15.1
60°-70°	124.2	10.1
70°-80°	55.6	4.5
80°-90°	10.0	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°	397.7	32.2
0°-40°	631.8	51.2
0°-60°	1044.3	84.6
0°-90°	1234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	533	533	531	528	526	50
15°	502	504	502	500	497	142
25°	446	450	452	448	444	204
35°	359	364	380	382	381	225
45°	278	282	292	305	307	214
55°	195	198	208	219	225	174
65°	114	117	124	133	140	113
75°	46	48	52	54	57	50
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.7	533.7	533.7	533.7	533.7
2.5°	535.1	535.3	534.1	530.8	528.8
5°	533.1	532.9	530.8	527.9	526.3
7.5°	527.1	527.5	526.9	522.8	520.6
10°	521.4	521.6	519.9	516.7	514.0
12.5°	514.0	513.8	511.5	509.9	505.6
15°	502.3	503.5	502.3	500.0	496.6
17.5°	491.0	491.0	491.8	488.0	485.3
20°	478.3	478.9	478.9	475.9	472.8
22.5°	463.6	465.4	466.0	462.7	459.0
25°	446.1	449.6	451.7	448.4	444.5
27.5°	425.0	430.3	436.5	434.0	429.7
30°	401.4	409.2	419.5	417.4	414.4
32.5°	379.1	386.9	401.0	400.2	398.6
35°	358.8	363.7	380.3	382.4	380.9
37.5°	339.5	344.0	359.6	364.3	363.1
40°	319.2	324.1	336.4	344.8	345.3
42.5°	299.1	303.8	313.9	326.0	326.0
45°	277.8	282.5	291.7	305.1	306.7
47.5°	256.9	261.8	270.8	284.2	286.8
50°	236.4	240.9	249.9	262.8	266.9
52.5°	215.1	220.0	228.8	240.7	246.6
55°	194.6	197.8	207.5	219.0	225.3
57.5°	173.2	176.3	187.2	197.0	203.6
60°	152.7	156.6	165.0	175.1	182.7
62.5°	133.1	137.2	144.3	153.2	161.8
65°	114.0	117.1	124.0	132.9	140.4
67.5°	95.5	98.2	105.2	111.3	119.3
70°	76.9	80.4	85.5	91.4	96.6
72.5°	61.9	63.4	67.7	72.0	77.3
75°	45.7	48.2	51.7	54.1	57.2
77.5°	32.8	34.2	36.3	38.3	41.2
80°	21.9	22.6	24.4	24.8	27.1
82.5°	13.3	13.7	14.1	14.4	15.2
85°	7.2	7.2	7.2	6.8	6.8
87.5°	4.1	4.1	3.5	2.9	2.1
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)