

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: P554388

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-82-86-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: P554388
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-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

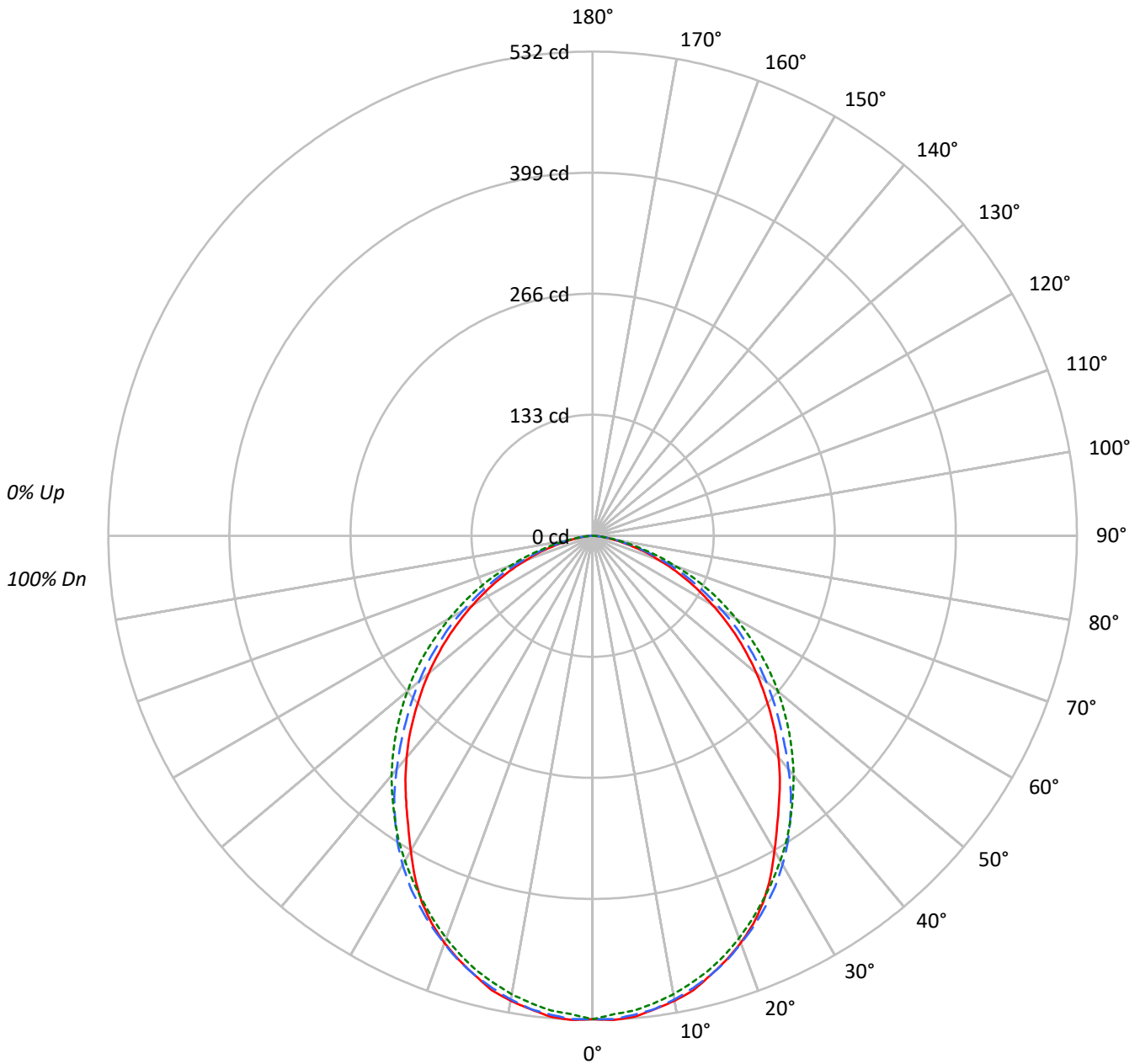
Lumens per Lamp: N/A
Luminaire Lumens: 1228.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2858	2858	2858
5°	2866	2854	2829
10°	2835	2828	2795
15°	2785	2785	2753
20°	2726	2730	2695
25°	2637	2669	2627
30°	2483	2594	2562
35°	2346	2487	2491
40°	2232	2352	2414
45°	2105	2210	2323
50°	1969	2082	2224
55°	1817	1938	2104
60°	1636	1767	1957
65°	1444	1571	1780
70°	1204	1339	1512
75°	946	1069	1183
80°	676	753	834
85°	438	438	414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	4.1
10°-20°	140.5	11.4
20°-30°	205.3	16.7
30°-40°	233.0	19.0
40°-50°	224.9	18.3
50°-60°	185.6	15.1
60°-70°	123.6	10.1
70°-80°	55.3	4.5
80°-90°	9.9	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°	395.7	32.2
0°-40°	628.8	51.2
0°-60°	1039.2	84.6
0°-90°	1228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	530	530	528	525	524	50
15°	500	501	500	498	494	141
25°	444	447	450	446	442	203
35°	357	362	378	380	379	224
45°	276	281	290	304	305	213
55°	194	197	206	218	224	173
65°	113	116	123	132	140	112
75°	46	48	51	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°	531.1	531.1	531.1	531.1	531.1
2.5°	532.5	532.7	531.5	528.2	526.2
5°	530.5	530.3	528.2	525.4	523.7
7.5°	524.5	525.0	524.3	520.3	518.0
10°	518.8	519.0	517.4	514.1	511.5
12.5°	511.5	511.3	509.0	507.4	503.1
15°	499.9	501.1	499.9	497.6	494.1
17.5°	488.6	488.6	489.5	485.6	482.9
20°	476.0	476.6	476.6	473.5	470.5
22.5°	461.3	463.1	463.7	460.5	456.8
25°	444.0	447.4	449.5	446.2	442.3
27.5°	422.9	428.2	434.4	431.9	427.6
30°	399.5	407.2	417.4	415.4	412.3
32.5°	377.2	385.0	399.1	398.3	396.6
35°	357.0	361.9	378.5	380.5	379.1
37.5°	337.9	342.4	357.9	362.6	361.3
40°	317.7	322.6	334.8	343.2	343.6
42.5°	297.7	302.4	312.4	324.4	324.4
45°	276.5	281.1	290.3	303.6	305.2
47.5°	255.6	260.5	269.5	282.8	285.4
50°	235.2	239.7	248.7	261.6	265.6
52.5°	214.0	218.9	227.7	239.5	245.4
55°	193.6	196.9	206.5	217.9	224.2
57.5°	172.4	175.5	186.3	196.1	202.6
60°	152.0	155.9	164.2	174.2	181.8
62.5°	132.4	136.5	143.6	152.4	161.0
65°	113.4	116.5	123.4	132.2	139.8
67.5°	95.1	97.7	104.7	110.8	118.7
70°	76.5	80.0	85.1	91.0	96.1
72.5°	61.6	63.0	67.3	71.6	76.9
75°	45.5	47.9	51.4	53.9	56.9
77.5°	32.6	34.1	36.1	38.2	41.0
80°	21.8	22.4	24.3	24.7	26.9
82.5°	13.3	13.7	14.1	14.3	15.1
85°	7.1	7.1	7.1	6.7	6.7
87.5°	4.1	4.1	3.5	2.9	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)