

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: P554520

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-82-88-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: P554520
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-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

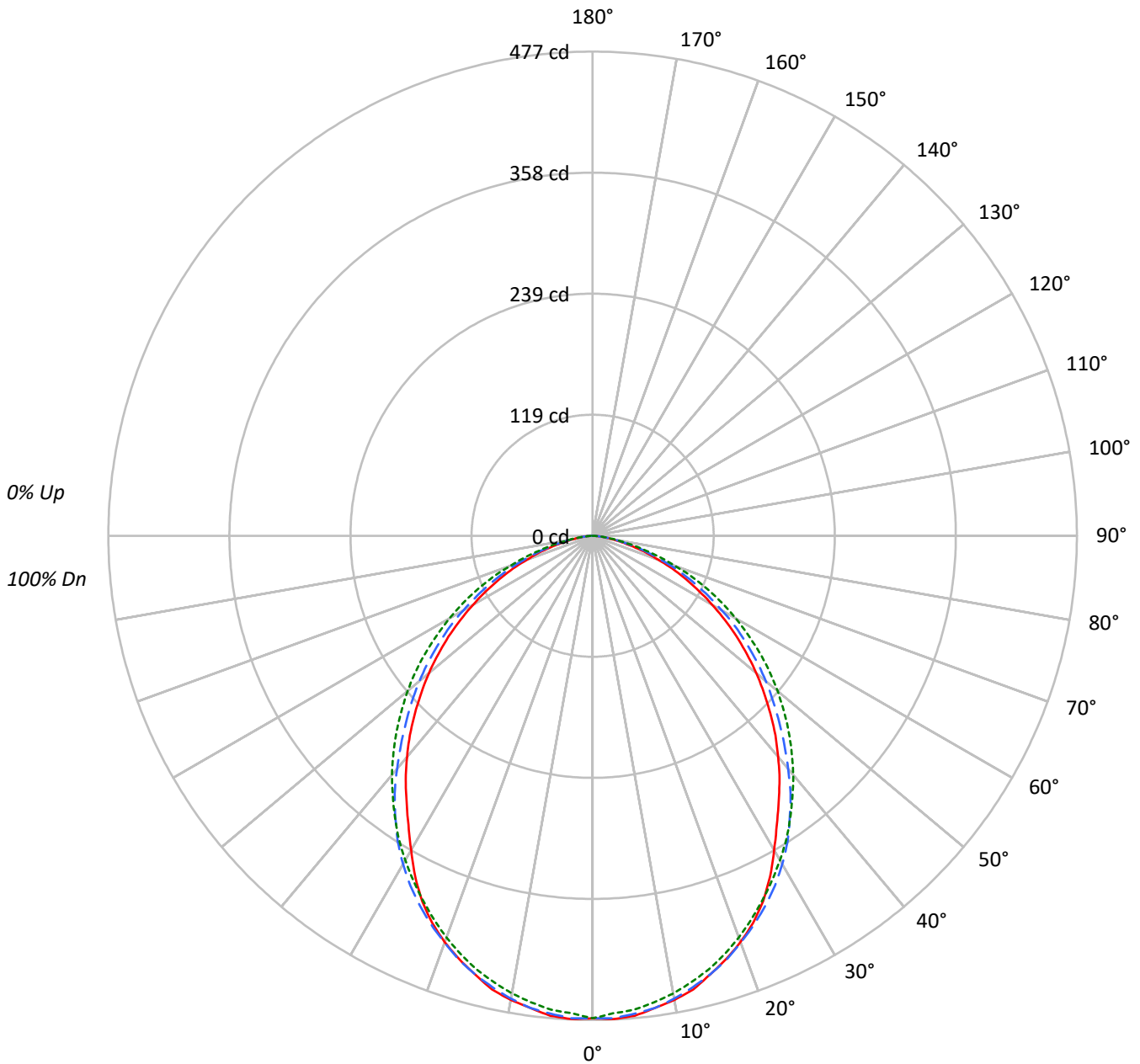
Lumens per Lamp: N/A
Luminaire Lumens: 1099.0 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2558	2558	2558
5°	2565	2554	2532
10°	2537	2531	2502
15°	2493	2493	2464
20°	2440	2443	2412
25°	2359	2389	2351
30°	2222	2322	2293
35°	2099	2225	2229
40°	1997	2105	2160
45°	1883	1977	2079
50°	1762	1864	1990
55°	1626	1734	1883
60°	1464	1582	1751
65°	1293	1407	1593
70°	1078	1197	1353
75°	846	957	1058
80°	604	673	747
85°	395	395	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	4.1
10°-20°	125.7	11.4
20°-30°	183.7	16.7
30°-40°	208.5	19.0
40°-50°	201.3	18.3
50°-60°	166.1	15.1
60°-70°	110.6	10.1
70°-80°	49.5	4.5
80°-90°	8.9	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°	354.2	32.2
0°-40°	562.7	51.2
0°-60°	930.1	84.6
0°-90°	1099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	475	475	475	475	475	
5°	475	475	473	470	469	45
15°	447	448	447	445	442	126
25°	397	400	402	399	396	182
35°	320	324	339	340	339	200
45°	247	252	260	272	273	191
55°	173	176	185	195	201	155
65°	102	104	110	118	125	101
75°	41	43	46	48	51	45
85°	6	6	6	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	475.3	475.3	475.3	475.3	475.3
2.5°	476.6	476.7	475.7	472.7	470.9
5°	474.7	474.6	472.7	470.2	468.7
7.5°	469.4	469.8	469.3	465.6	463.6
10°	464.3	464.5	463.1	460.1	457.8
12.5°	457.8	457.6	455.6	454.1	450.3
15°	447.4	448.4	447.4	445.3	442.2
17.5°	437.3	437.3	438.0	434.6	432.2
20°	426.0	426.5	426.5	423.8	421.1
22.5°	412.8	414.5	415.0	412.1	408.8
25°	397.3	400.4	402.3	399.3	395.9
27.5°	378.5	383.3	388.7	386.5	382.7
30°	357.5	364.5	373.6	371.8	369.0
32.5°	337.6	344.6	357.2	356.4	355.0
35°	319.5	323.9	338.7	340.5	339.3
37.5°	302.4	306.4	320.3	324.5	323.4
40°	284.3	288.7	299.6	307.1	307.5
42.5°	266.4	270.6	279.5	290.3	290.3
45°	247.4	251.6	259.8	271.7	273.2
47.5°	228.8	233.2	241.2	253.1	255.4
50°	210.5	214.5	222.6	234.1	237.7
52.5°	191.5	195.9	203.8	214.4	219.7
55°	173.3	176.2	184.8	195.0	200.7
57.5°	154.3	157.0	166.7	175.5	181.3
60°	136.0	139.5	147.0	155.9	162.7
62.5°	118.5	122.2	128.5	136.4	144.1
65°	101.5	104.3	110.5	118.3	125.1
67.5°	85.1	87.5	93.7	99.1	106.3
70°	68.5	71.6	76.1	81.4	86.0
72.5°	55.1	56.4	60.3	64.1	68.8
75°	40.7	42.9	46.0	48.2	50.9
77.5°	29.2	30.5	32.3	34.1	36.7
80°	19.5	20.1	21.7	22.1	24.1
82.5°	11.9	12.2	12.6	12.8	13.5
85°	6.4	6.4	6.4	6.0	6.0
87.5°	3.7	3.7	3.1	2.6	1.8
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)