

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: P554312

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-81-88-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: P554312
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-LD4-1LO-50-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

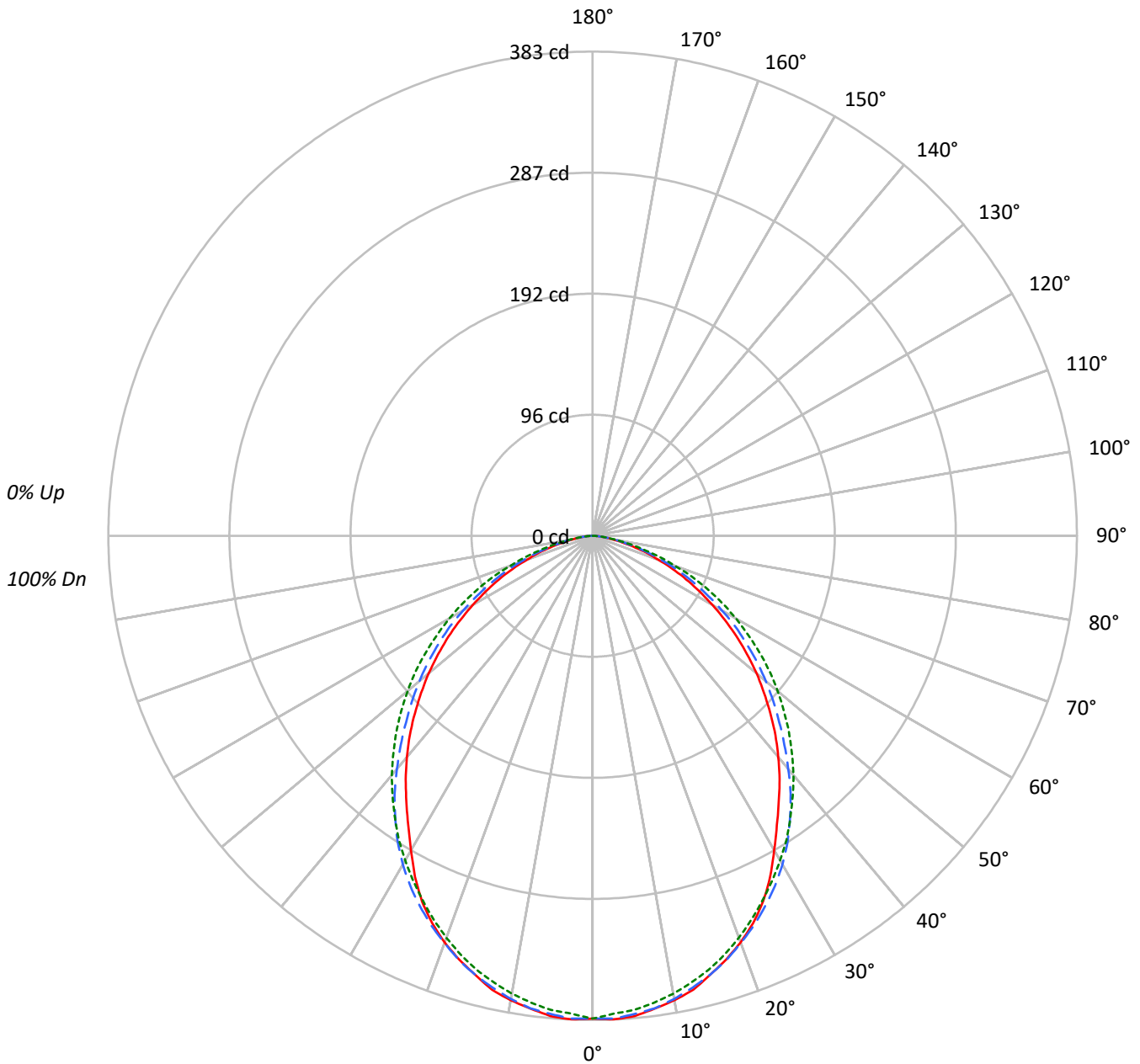
Lumens per Lamp: N/A
Luminaire Lumens: 883.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2055	2055	2055
5°	2061	2052	2035
10°	2039	2033	2010
15°	2003	2003	1980
20°	1960	1963	1938
25°	1896	1919	1889
30°	1785	1866	1843
35°	1687	1788	1791
40°	1605	1691	1736
45°	1513	1589	1671
50°	1417	1497	1599
55°	1306	1393	1513
60°	1176	1271	1407
65°	1039	1131	1280
70°	865	963	1087
75°	680	769	850
80°	487	542	601
85°	315	315	296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	4.1
10°-20°	101.0	11.4
20°-30°	147.6	16.7
30°-40°	167.5	19.0
40°-50°	161.7	18.3
50°-60°	133.4	15.1
60°-70°	88.9	10.1
70°-80°	39.8	4.5
80°-90°	7.1	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°	284.6	32.2
0°-40°	452.1	51.2
0°-60°	747.3	84.6
0°-90°	883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	382	382	382	382	382	
5°	381	381	380	378	377	36
15°	359	360	359	358	355	101
25°	319	322	323	321	318	146
35°	257	260	272	274	273	161
45°	199	202	209	218	220	153
55°	139	142	148	157	161	124
65°	82	84	89	95	100	81
75°	33	34	37	39	41	36
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	381.9	381.9	381.9	381.9	381.9
2.5°	382.9	383.0	382.2	379.8	378.4
5°	381.4	381.3	379.8	377.8	376.6
7.5°	377.2	377.5	377.0	374.1	372.5
10°	373.1	373.2	372.0	369.7	367.8
12.5°	367.8	367.6	366.0	364.9	361.8
15°	359.4	360.3	359.4	357.8	355.3
17.5°	351.4	351.4	351.9	349.2	347.3
20°	342.3	342.7	342.7	340.5	338.3
22.5°	331.7	333.0	333.5	331.1	328.5
25°	319.2	321.7	323.2	320.8	318.1
27.5°	304.1	307.9	312.3	310.6	307.5
30°	287.2	292.8	300.2	298.7	296.5
32.5°	271.3	276.8	287.0	286.4	285.2
35°	256.7	260.3	272.1	273.6	272.6
37.5°	242.9	246.2	257.3	260.7	259.8
40°	228.4	231.9	240.7	246.8	247.1
42.5°	214.0	217.4	224.6	233.3	233.3
45°	198.8	202.2	208.8	218.3	219.5
47.5°	183.8	187.3	193.8	203.3	205.2
50°	169.2	172.4	178.8	188.1	191.0
52.5°	153.9	157.4	163.7	172.2	176.5
55°	139.2	141.6	148.5	156.7	161.2
57.5°	124.0	126.2	133.9	141.0	145.7
60°	109.3	112.1	118.1	125.3	130.7
62.5°	95.2	98.1	103.3	109.6	115.8
65°	81.6	83.8	88.8	95.1	100.5
67.5°	68.4	70.3	75.3	79.7	85.4
70°	55.0	57.5	61.2	65.4	69.1
72.5°	44.3	45.3	48.4	51.5	55.3
75°	32.7	34.5	37.0	38.7	40.9
77.5°	23.5	24.5	26.0	27.4	29.5
80°	15.7	16.1	17.5	17.8	19.4
82.5°	9.5	9.8	10.1	10.3	10.9
85°	5.1	5.1	5.1	4.8	4.8
87.5°	2.9	2.9	2.5	2.1	1.5
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)