

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: P554198

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-82-87-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: P554198
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-35-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

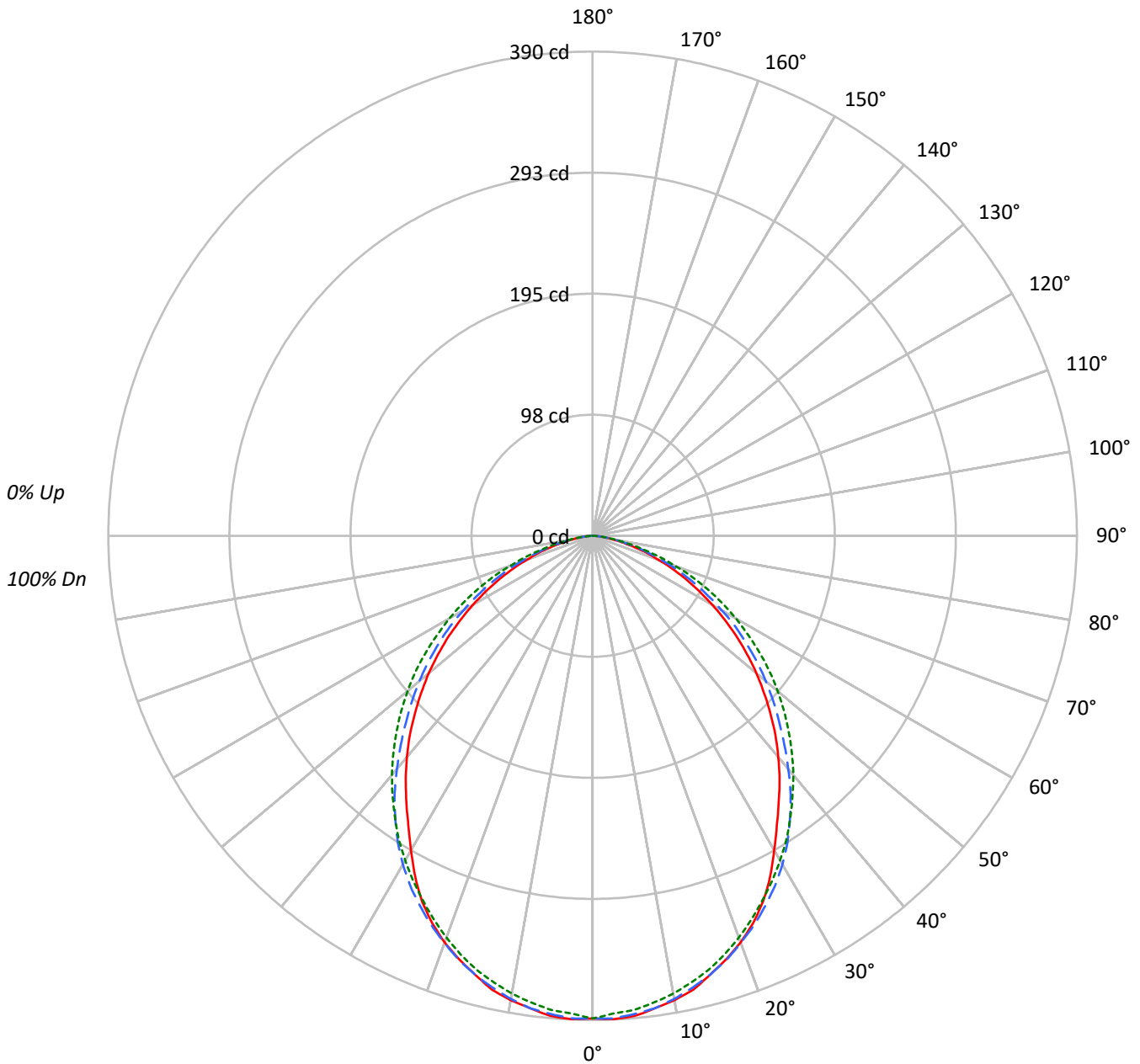
Lumens per Lamp: N/A
Luminaire Lumens: 899.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2093	2093	2093
5°	2098	2089	2071
10°	2076	2070	2047
15°	2039	2039	2016
20°	1996	1998	1973
25°	1930	1954	1923
30°	1818	1899	1876
35°	1717	1821	1823
40°	1634	1722	1767
45°	1541	1617	1700
50°	1442	1525	1629
55°	1330	1419	1541
60°	1198	1294	1433
65°	1057	1151	1303
70°	881	980	1108
75°	692	782	867
80°	496	552	611
85°	321	321	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	4.1
10°-20°	102.8	11.4
20°-30°	150.3	16.7
30°-40°	170.6	19.0
40°-50°	164.7	18.3
50°-60°	135.9	15.1
60°-70°	90.5	10.1
70°-80°	40.5	4.5
80°-90°	7.2	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°	289.7	32.2
0°-40°	460.3	51.2
0°-60°	760.8	84.6
0°-90°	899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	389	389	389	389	389	
5°	388	388	387	385	383	37
15°	366	367	366	364	362	103
25°	325	328	329	327	324	149
35°	261	265	277	279	278	164
45°	202	206	212	222	223	156
55°	142	144	151	160	164	127
65°	83	85	90	97	102	82
75°	33	35	38	39	42	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°	388.8	388.8	388.8	388.8	388.8
2.5°	389.8	390.0	389.1	386.7	385.2
5°	388.3	388.2	386.7	384.6	383.4
7.5°	384.0	384.3	383.9	380.9	379.2
10°	379.8	380.0	378.8	376.4	374.5
12.5°	374.5	374.3	372.7	371.5	368.3
15°	365.9	366.8	365.9	364.3	361.8
17.5°	357.7	357.7	358.3	355.5	353.5
20°	348.5	348.9	348.9	346.7	344.4
22.5°	337.7	339.1	339.5	337.1	334.4
25°	325.0	327.6	329.0	326.7	323.8
27.5°	309.6	313.5	318.0	316.2	313.1
30°	292.5	298.1	305.6	304.1	301.9
32.5°	276.2	281.8	292.2	291.6	290.4
35°	261.4	265.0	277.1	278.6	277.5
37.5°	247.3	250.6	262.0	265.4	264.5
40°	232.6	236.1	245.1	251.2	251.5
42.5°	217.9	221.4	228.7	237.5	237.5
45°	202.4	205.8	212.5	222.3	223.4
47.5°	187.2	190.7	197.3	207.0	209.0
50°	172.2	175.5	182.1	191.5	194.5
52.5°	156.7	160.3	166.7	175.4	179.7
55°	141.7	144.1	151.2	159.5	164.2
57.5°	126.2	128.5	136.4	143.5	148.3
60°	111.3	114.1	120.2	127.6	133.1
62.5°	96.9	99.9	105.2	111.6	117.8
65°	83.0	85.3	90.4	96.8	102.3
67.5°	69.6	71.5	76.6	81.1	86.9
70°	56.0	58.6	62.3	66.6	70.4
72.5°	45.1	46.2	49.3	52.4	56.3
75°	33.3	35.1	37.6	39.4	41.7
77.5°	23.9	24.9	26.4	27.9	30.0
80°	16.0	16.4	17.8	18.1	19.7
82.5°	9.7	10.0	10.3	10.5	11.1
85°	5.2	5.2	5.2	4.9	4.9
87.5°	3.0	3.0	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)