

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: P555289

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-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: P555289
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-LD4-2STD-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

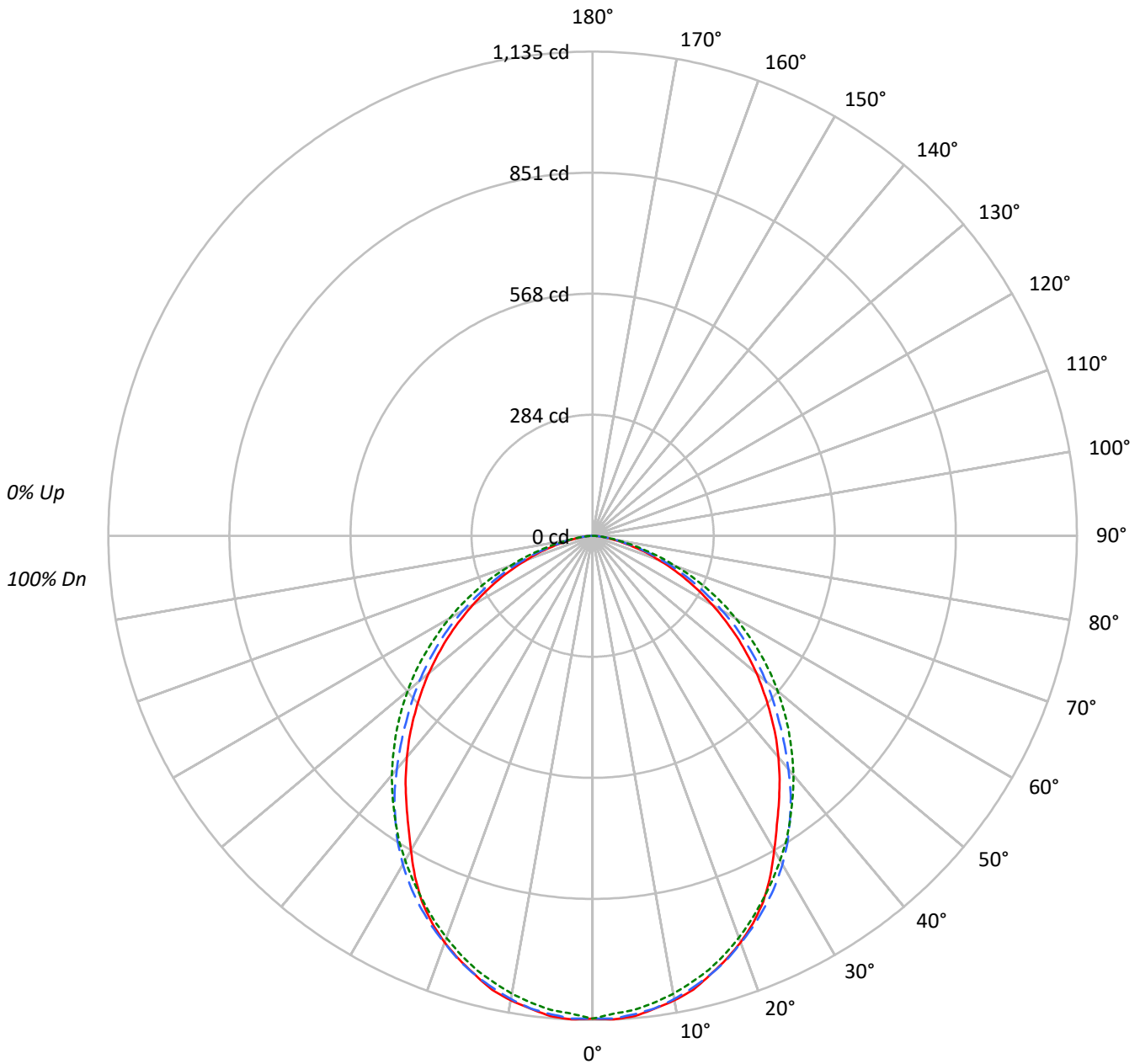
Lumens per Lamp: N/A
Luminaire Lumens: 2617.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6091	6091	6091
5°	6108	6082	6030
10°	6043	6026	5957
15°	5936	5936	5868
20°	5810	5817	5742
25°	5618	5688	5597
30°	5290	5528	5461
35°	4999	5299	5308
40°	4756	5013	5144
45°	4485	4709	4951
50°	4197	4438	4740
55°	3871	4129	4483
60°	3486	3767	4170
65°	3078	3351	3792
70°	2567	2853	3223
75°	2017	2279	2522
80°	1441	1602	1779
85°	939	939	883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	4.1
10°-20°	299.4	11.4
20°-30°	437.5	16.7
30°-40°	496.6	19.0
40°-50°	479.4	18.3
50°-60°	395.4	15.1
60°-70°	263.3	10.1
70°-80°	117.8	4.5
80°-90°	21.1	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°	843.4	32.2
0°-40°	1339.9	51.2
0°-60°	2214.7	84.6
0°-90°	2617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1130	1130	1126	1120	1116	107
15°	1065	1068	1065	1060	1053	300
25°	946	954	958	951	943	433
35°	761	771	807	811	808	477
45°	589	599	619	647	650	455
55°	413	420	440	464	478	368
65°	242	248	263	282	298	240
75°	97	102	110	115	121	106
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.8	<i>1131.8</i>	1131.8	1131.8	1131.8
2.5°	<i>1134.8</i>	<i>1135.3</i>	<i>1132.7</i>	<i>1125.7</i>	<i>1121.3</i>
5°	1130.5	<i>1130.0</i>	1125.7	1119.6	1116.1
7.5°	1117.9	<i>1118.7</i>	1117.4	1108.7	1104.0
10°	1105.7	<i>1106.1</i>	1102.7	1095.7	1090.0
12.5°	1090.0	<i>1089.6</i>	1084.8	1081.3	1072.2
15°	1065.3	<i>1067.9</i>	1065.3	1060.5	1053.1
17.5°	1041.3	<i>1041.3</i>	1043.1	1034.8	1029.2
20°	1014.4	<i>1015.7</i>	1015.7	1009.2	1002.6
22.5°	983.1	<i>987.0</i>	988.3	981.3	973.5
25°	946.1	<i>953.5</i>	957.9	950.9	942.6
27.5°	901.3	<i>912.6</i>	925.7	920.5	911.3
30°	851.3	<i>867.9</i>	889.6	885.3	878.7
32.5°	803.9	<i>820.5</i>	850.5	848.7	845.3
35°	760.9	<i>771.3</i>	806.6	810.9	807.9
37.5°	720.0	<i>729.6</i>	762.6	772.6	770.0
40°	677.0	<i>687.4</i>	713.5	731.3	732.2
42.5°	634.4	<i>644.4</i>	665.7	691.3	691.3
45°	589.2	<i>599.2</i>	618.7	647.0	650.5
47.5°	544.8	<i>555.2</i>	574.4	602.6	608.3
50°	501.3	<i>510.9</i>	530.0	557.4	566.1
52.5°	456.1	<i>466.5</i>	485.2	510.5	523.1
55°	412.6	<i>419.6</i>	440.0	464.4	477.8
57.5°	367.4	<i>373.9</i>	397.0	417.8	431.8
60°	323.9	<i>332.2</i>	350.0	371.3	387.4
62.5°	282.2	<i>290.9</i>	306.1	324.8	343.1
65°	241.7	<i>248.3</i>	263.1	281.8	297.8
67.5°	202.6	<i>208.3</i>	223.1	236.1	253.1
70°	163.1	<i>170.4</i>	181.3	193.9	204.8
72.5°	131.3	<i>134.4</i>	143.5	152.6	163.9
75°	97.0	<i>102.2</i>	109.6	114.8	121.3
77.5°	69.6	<i>72.6</i>	77.0	81.3	87.4
80°	46.5	<i>47.8</i>	51.7	52.6	57.4
82.5°	28.3	<i>29.1</i>	30.0	30.4	32.2
85°	15.2	<i>15.2</i>	15.2	14.3	14.3
87.5°	8.7	<i>8.7</i>	7.4	6.1	4.3
90°	0.0	<i>0.0</i>	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)