

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: P554647

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-82-87-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: P554647
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-LD4-2HI-30-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

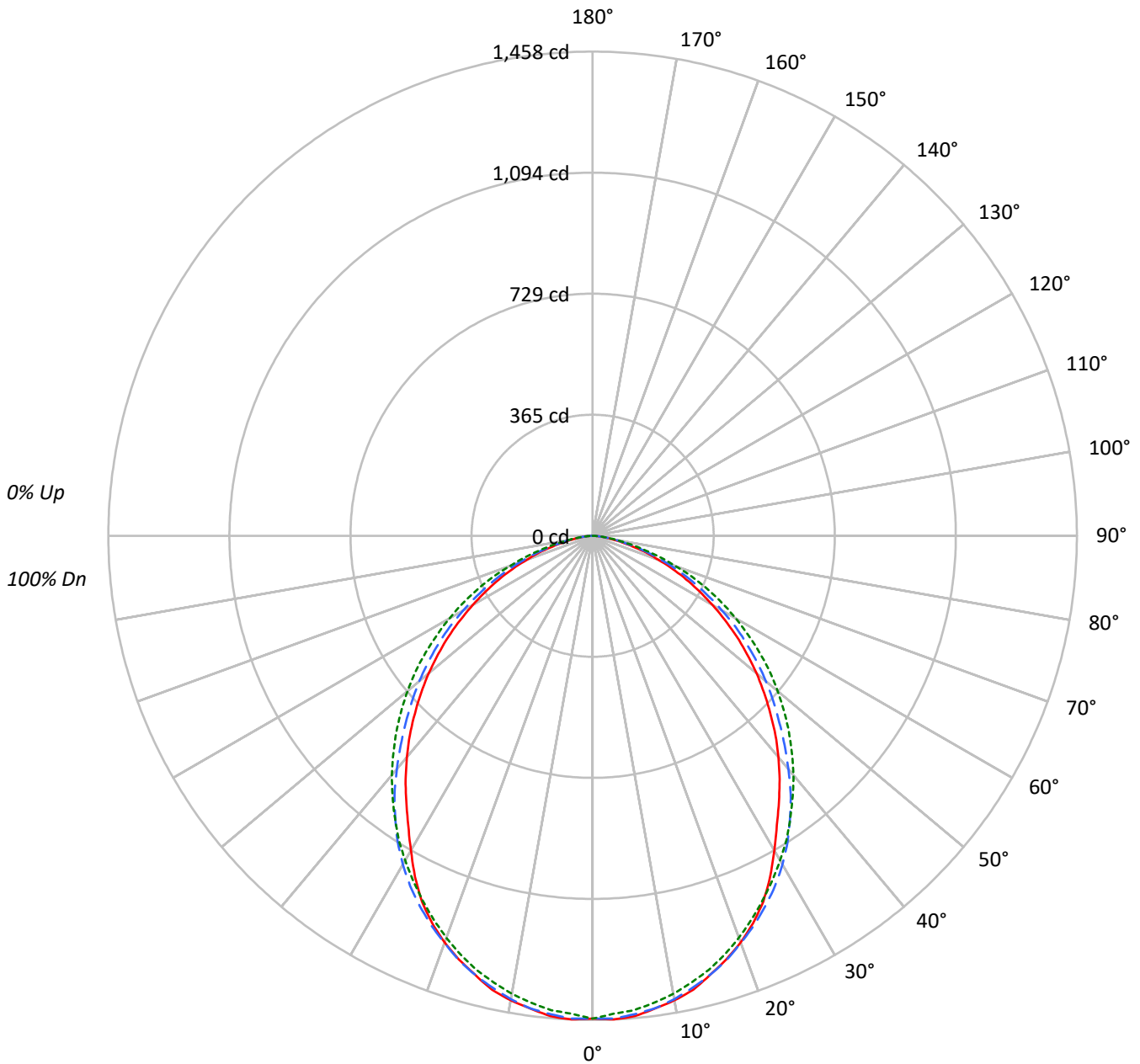
Lumens per Lamp: N/A
Luminaire Lumens: 3362.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7825	7825	7825
5°	7846	7813	7747
10°	7763	7742	7653
15°	7625	7625	7538
20°	7464	7473	7377
25°	7218	7307	7191
30°	6797	7103	7016
35°	6422	6808	6819
40°	6110	6440	6608
45°	5761	6050	6360
50°	5392	5701	6090
55°	4974	5304	5760
60°	4479	4841	5357
65°	3955	4303	4872
70°	3297	3665	4140
75°	2591	2928	3240
80°	1853	2061	2284
85°	1210	1210	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	4.1
10°-20°	384.6	11.4
20°-30°	562.0	16.7
30°-40°	637.9	19.0
40°-50°	615.8	18.3
50°-60°	508.0	15.1
60°-70°	338.3	10.1
70°-80°	151.4	4.5
80°-90°	27.1	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°	1083.5	32.2
0°-40°	1721.4	51.2
0°-60°	2845.2	84.6
0°-90°	3362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1452	1452	1446	1438	1434	137
15°	1368	1372	1368	1362	1353	386
25°	1216	1225	1230	1222	1211	557
35°	978	991	1036	1042	1038	612
45°	757	770	795	831	836	584
55°	530	539	565	597	614	473
65°	311	319	338	362	383	308
75°	125	131	141	148	156	136
85°	20	20	20	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1454.0	1454.0	1454.0	1454.0	1454.0
2.5°	1457.9	1458.4	1455.1	1446.2	1440.6
5°	1452.3	1451.7	1446.2	1438.3	1433.9
7.5°	1436.1	1437.2	1435.5	1424.4	1418.2
10°	1420.5	1421.0	1416.6	1407.6	1400.4
12.5°	1400.4	1399.8	1393.7	1389.2	1377.5
15°	1368.5	1371.9	1368.5	1362.4	1352.9
17.5°	1337.8	1337.8	1340.0	1329.4	1322.2
20°	1303.2	1304.8	1304.8	1296.5	1288.1
22.5°	1262.9	1268.0	1269.6	1260.7	1250.7
25°	1215.5	1225.0	1230.5	1221.6	1211.0
27.5°	1157.9	1172.5	1189.2	1182.5	1170.8
30°	1093.7	1114.9	1142.9	1137.3	1128.9
32.5°	1032.8	1054.0	1092.6	1090.3	1085.9
35°	977.5	990.9	1036.2	1041.7	1037.8
37.5°	925.0	937.3	979.7	992.6	989.2
40°	869.7	883.1	916.6	939.5	940.6
42.5°	815.0	827.8	855.2	888.1	888.1
45°	756.9	769.7	794.9	831.2	835.6
47.5°	699.9	713.3	737.9	774.2	781.5
50°	644.0	656.3	680.9	716.1	727.3
52.5°	585.9	599.4	623.4	655.8	672.0
55°	530.1	539.0	565.3	596.6	613.9
57.5°	472.0	480.4	510.0	536.8	554.7
60°	416.1	426.8	449.7	477.0	497.7
62.5°	362.5	373.7	393.2	417.3	440.7
65°	310.6	318.9	337.9	362.0	382.6
67.5°	260.3	267.6	286.6	303.3	325.1
70°	209.5	219.0	232.9	249.1	263.1
72.5°	168.7	172.6	184.3	196.1	210.6
75°	124.6	131.3	140.8	147.5	155.8
77.5°	89.4	93.3	98.9	104.5	112.3
80°	59.8	61.4	66.5	67.6	73.7
82.5°	36.3	37.4	38.5	39.1	41.3
85°	19.6	19.6	19.6	18.4	18.4
87.5°	11.2	11.2	9.5	7.8	5.6
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)