

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: P554629

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-81-86-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: P554629
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-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

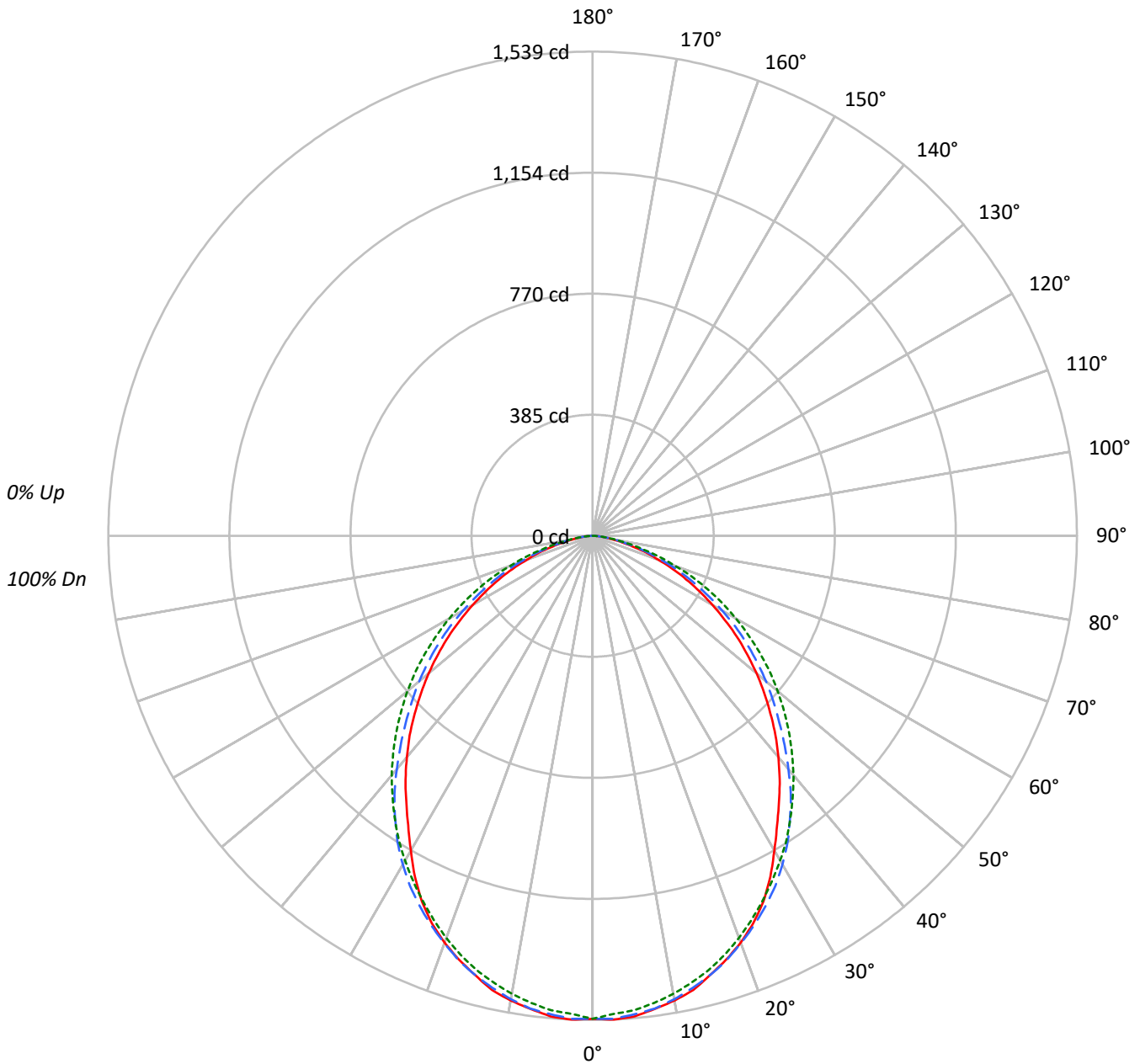
Lumens per Lamp: N/A
Luminaire Lumens: 3550.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	8263	8263	8263
5°	8285	8250	8180
10°	8197	8175	8081
15°	8051	8051	7959
20°	7881	7891	7790
25°	7621	7716	7593
30°	7177	7500	7408
35°	6782	7188	7200
40°	6452	6800	6978
45°	6083	6388	6716
50°	5694	6020	6430
55°	5252	5601	6082
60°	4730	5111	5656
65°	4176	4544	5145
70°	3481	3871	4371
75°	2734	3090	3423
80°	1956	2176	2414
85°	1272	1272	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	4.1
10°-20°	406.1	11.4
20°-30°	593.4	16.7
30°-40°	673.6	19.0
40°-50°	650.3	18.3
50°-60°	536.4	15.1
60°-70°	357.2	10.1
70°-80°	159.9	4.5
80°-90°	28.6	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°	1144.1	32.2
0°-40°	1817.7	51.2
0°-60°	3004.3	84.6
0°-90°	3550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1534	1533	1527	1519	1514	145
15°	1445	1449	1445	1439	1428	407
25°	1283	1294	1299	1290	1279	588
35°	1032	1046	1094	1100	1096	647
45°	799	813	839	878	882	617
55°	560	569	597	630	648	500
65°	328	337	357	382	404	325
75°	132	139	149	156	165	144
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.3	1535.3	1535.3	1535.3	1535.3
2.5°	1539.4	1540.0	1536.5	1527.0	1521.1
5°	1533.5	1532.9	1527.0	1518.8	1514.1
7.5°	1516.4	1517.6	1515.8	1504.0	1497.5
10°	1499.9	1500.5	1495.8	1486.3	1478.7
12.5°	1478.7	1478.1	1471.6	1466.9	1454.5
15°	1445.0	1448.6	1445.0	1438.6	1428.5
17.5°	1412.6	1412.6	1415.0	1403.8	1396.1
20°	1376.0	1377.8	1377.8	1369.0	1360.1
22.5°	1333.6	1338.9	1340.6	1331.2	1320.6
25°	1283.4	1293.5	1299.4	1289.9	1278.7
27.5°	1222.7	1238.0	1255.7	1248.6	1236.2
30°	1154.9	1177.3	1206.8	1200.9	1192.0
32.5°	1090.6	1113.0	1153.7	1151.3	1146.6
35°	1032.2	1046.3	1094.1	1100.0	1095.9
37.5°	976.7	989.7	1034.5	1048.1	1044.6
40°	918.3	932.5	967.9	992.1	993.2
42.5°	860.5	874.1	903.0	937.8	937.8
45°	799.2	812.8	839.3	877.6	882.4
47.5°	739.0	753.2	779.1	817.5	825.1
50°	680.1	693.0	719.0	756.1	767.9
52.5°	618.7	632.9	658.2	692.4	709.5
55°	559.7	569.2	596.9	629.9	648.2
57.5°	498.4	507.2	538.5	566.8	585.7
60°	439.4	450.6	474.8	503.7	525.5
62.5°	382.8	394.6	415.2	440.6	465.4
65°	327.9	336.8	356.8	382.2	404.0
67.5°	274.9	282.5	302.6	320.3	343.3
70°	221.2	231.2	246.0	263.1	277.8
72.5°	178.1	182.3	194.6	207.0	222.4
75°	131.5	138.6	148.6	155.7	164.6
77.5°	94.4	98.5	104.4	110.3	118.6
80°	63.1	64.9	70.2	71.4	77.9
82.5°	38.3	39.5	40.7	41.3	43.6
85°	20.6	20.6	20.6	19.5	19.5
87.5°	11.8	11.8	10.0	8.3	5.9
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)