

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: P555655

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-81-87-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: P555655
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-LD4-3LO-30-UNV-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 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

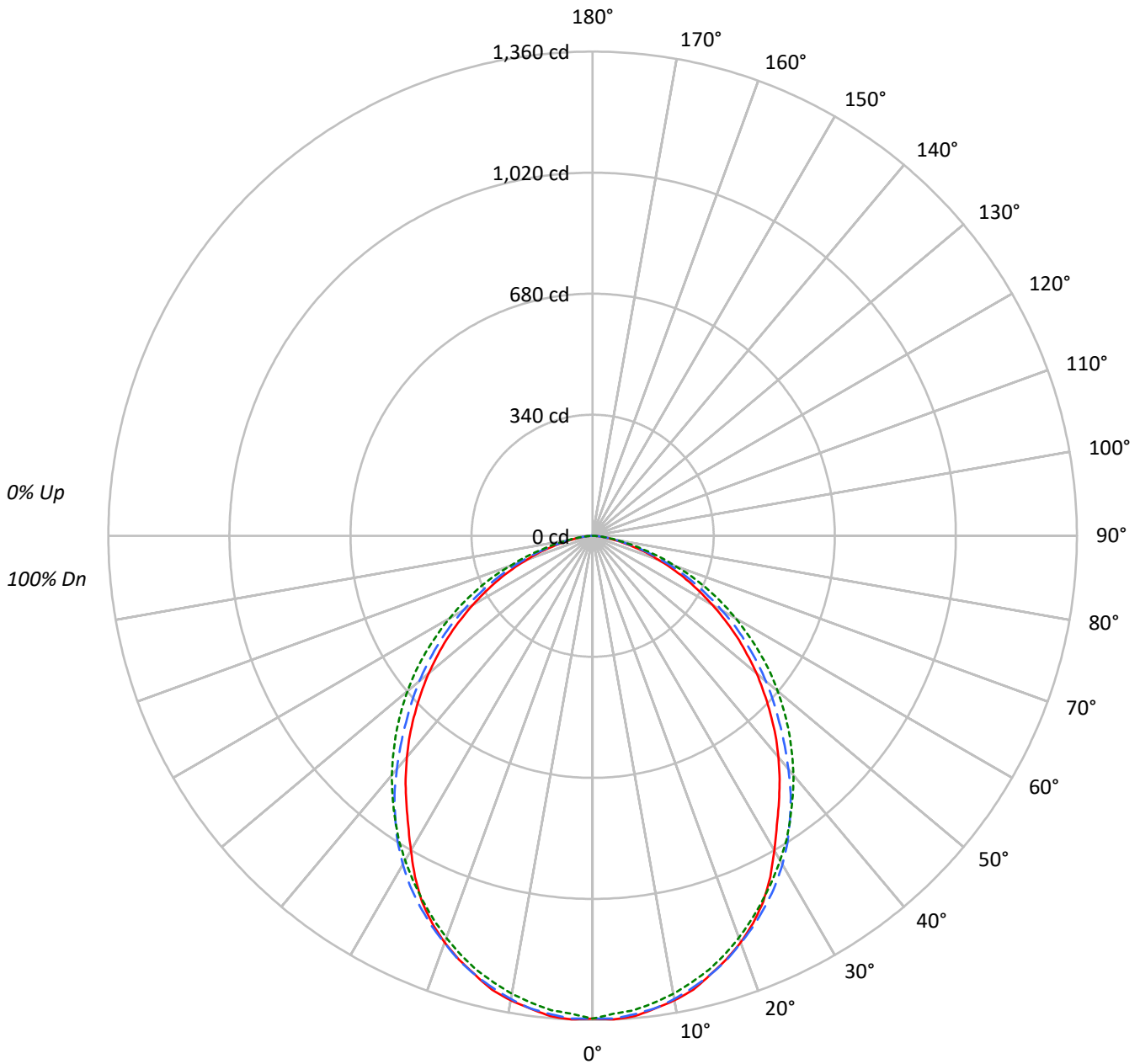
Lumens per Lamp: N/A
Luminaire Lumens: 3136.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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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CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-81-87-EDD

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°	7299	7299	7299
5°	7319	7287	7226
10°	7241	7221	7138
15°	7112	7112	7031
20°	6962	6971	6881
25°	6733	6816	6708
30°	6340	6625	6544
35°	5991	6350	6361
40°	5699	6007	6164
45°	5374	5643	5933
50°	5030	5318	5680
55°	4640	4948	5373
60°	4179	4514	4997
65°	3689	4014	4545
70°	3075	3419	3862
75°	2416	2730	3023
80°	1729	1922	2132
85°	1124	1124	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	4.1
10°-20°	358.7	11.4
20°-30°	524.2	16.7
30°-40°	595.0	19.0
40°-50°	574.4	18.3
50°-60°	473.9	15.1
60°-70°	315.6	10.1
70°-80°	141.2	4.5
80°-90°	25.3	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°	1010.6	32.2
0°-40°	1605.7	51.2
0°-60°	2654.0	84.6
0°-90°	3136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1355	1354	1349	1342	1338	128
15°	1276	1280	1276	1271	1262	360
25°	1134	1143	1148	1140	1130	519
35°	912	924	966	972	968	571
45°	706	718	741	775	780	545
55°	494	503	527	556	573	441
65°	290	298	315	338	357	287
75°	116	122	131	138	145	127
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.2	1356.2	1356.2	1356.2	1356.2
2.5°	1359.9	1360.4	1357.3	1348.9	1343.7
5°	1354.7	1354.2	1348.9	1341.7	1337.5
7.5°	1339.6	1340.6	1339.0	1328.6	1322.9
10°	1325.0	1325.5	1321.3	1313.0	1306.2
12.5°	1306.2	1305.7	1300.0	1295.8	1284.9
15°	1276.5	1279.6	1276.5	1270.8	1261.9
17.5°	1247.9	1247.9	1249.9	1240.0	1233.3
20°	1215.6	1217.1	1217.1	1209.3	1201.5
22.5°	1178.0	1182.7	1184.3	1176.0	1166.6
25°	1133.8	1142.6	1147.8	1139.5	1129.6
27.5°	1080.1	1093.6	1109.3	1103.0	1092.1
30°	1020.2	1040.0	1066.0	1060.8	1053.0
32.5°	963.4	983.2	1019.1	1017.0	1012.9
35°	911.8	924.3	966.5	971.7	968.1
37.5°	862.8	874.3	913.9	925.9	922.7
40°	811.2	823.7	855.0	876.4	877.4
42.5°	760.2	772.2	797.7	828.4	828.4
45°	706.0	718.0	741.4	775.3	779.5
47.5°	652.8	665.4	688.3	722.1	728.9
50°	600.7	612.2	635.1	668.0	678.4
52.5°	546.6	559.1	581.5	611.7	626.8
55°	494.5	502.8	527.3	556.5	572.6
57.5°	440.3	448.1	475.7	500.7	517.4
60°	388.2	398.1	419.4	445.0	464.2
62.5°	338.1	348.6	366.8	389.2	411.1
65°	289.7	297.5	315.2	337.6	356.9
67.5°	242.8	249.6	267.3	282.9	303.2
70°	195.4	204.2	217.3	232.4	245.4
72.5°	157.4	161.0	171.9	182.9	196.4
75°	116.2	122.4	131.3	137.6	145.4
77.5°	83.4	87.0	92.2	97.4	104.7
80°	55.8	57.3	62.0	63.0	68.8
82.5°	33.9	34.9	36.0	36.5	38.6
85°	18.2	18.2	18.2	17.2	17.2
87.5°	10.4	10.4	8.9	7.3	5.2
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)