

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: P555785

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-81-88-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: P555785
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-40-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 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

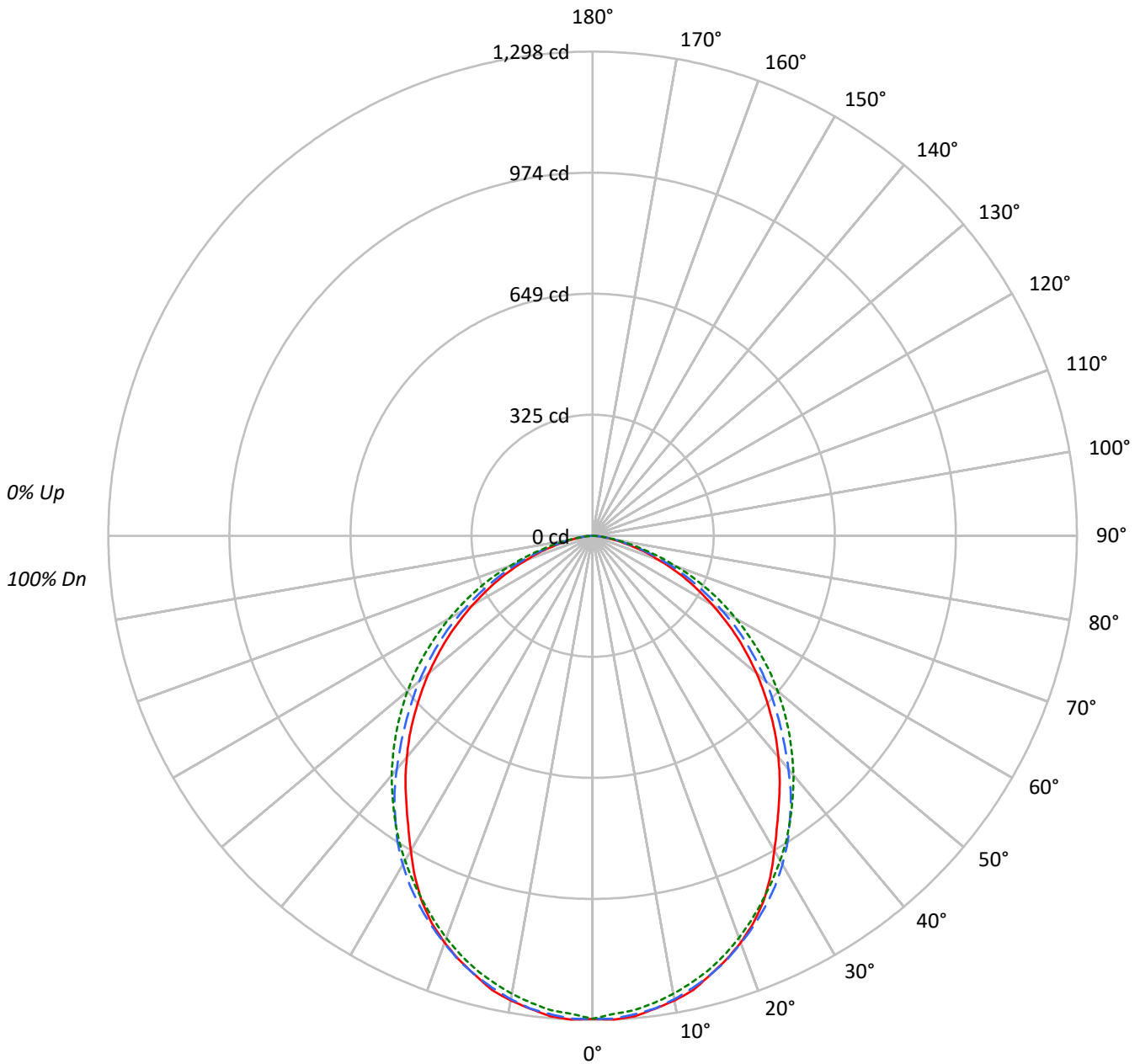
Lumens per Lamp: N/A
Luminaire Lumens: 2994.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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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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°	6969	6969	6969
5°	6987	6958	6898
10°	6913	6894	6815
15°	6790	6790	6713
20°	6647	6655	6570
25°	6428	6508	6404
30°	6053	6325	6247
35°	5719	6062	6072
40°	5441	5735	5885
45°	5130	5388	5664
50°	4802	5077	5423
55°	4430	4723	5130
60°	3989	4310	4771
65°	3522	3832	4339
70°	2935	3264	3687
75°	2306	2608	2886
80°	1649	1835	2036
85°	1074	1074	1013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	4.1
10°-20°	342.5	11.4
20°-30°	500.5	16.7
30°-40°	568.1	19.0
40°-50°	548.4	18.3
50°-60°	452.4	15.1
60°-70°	301.3	10.1
70°-80°	134.8	4.5
80°-90°	24.1	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°	964.9	32.2
0°-40°	1533.0	51.2
0°-60°	2533.8	84.6
0°-90°	2994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1293	1293	1288	1281	1277	122
15°	1219	1222	1219	1213	1205	344
25°	1082	1091	1096	1088	1078	496
35°	870	882	923	928	924	545
45°	674	686	708	740	744	520
55°	472	480	503	531	547	421
65°	277	284	301	322	341	274
75°	111	117	125	131	139	121
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.8	1294.8	1294.8	1294.8	1294.8
2.5°	1298.3	1298.8	1295.8	1287.9	1282.9
5°	1293.3	1292.8	1287.9	1280.9	1276.9
7.5°	1278.9	1279.9	1278.4	1268.5	1263.0
10°	1265.0	1265.5	1261.5	1253.5	1247.1
12.5°	1247.1	1246.6	1241.1	1237.1	1226.7
15°	1218.7	1221.7	1218.7	1213.2	1204.8
17.5°	1191.4	1191.4	1193.4	1183.9	1177.4
20°	1160.5	1162.0	1162.0	1154.6	1147.1
22.5°	1124.7	1129.2	1130.7	1122.7	1113.8
25°	1082.4	1090.9	1095.9	1087.9	1078.4
27.5°	1031.2	1044.1	1059.0	1053.1	1042.6
30°	974.0	992.9	1017.8	1012.8	1005.3
32.5°	919.8	938.7	973.0	971.0	967.0
35°	870.5	882.5	922.7	927.7	924.2
37.5°	823.8	834.7	872.5	883.9	881.0
40°	774.5	786.4	816.3	836.7	837.7
42.5°	725.8	737.2	761.6	790.9	790.9
45°	674.0	685.5	707.9	740.2	744.2
47.5°	623.3	635.2	657.1	689.4	695.9
50°	573.5	584.5	606.4	637.7	647.7
52.5°	521.8	533.7	555.1	584.0	598.4
55°	472.1	480.0	503.4	531.3	546.7
57.5°	420.3	427.8	454.2	478.0	494.0
60°	370.6	380.0	400.4	424.8	443.2
62.5°	322.8	332.8	350.2	371.6	392.5
65°	276.6	284.0	300.9	322.3	340.7
67.5°	231.8	238.3	255.2	270.1	289.5
70°	186.5	195.0	207.4	221.9	234.3
72.5°	150.2	153.7	164.2	174.6	187.5
75°	110.9	116.9	125.4	131.3	138.8
77.5°	79.6	83.1	88.0	93.0	100.0
80°	53.2	54.7	59.2	60.2	65.7
82.5°	32.3	33.3	34.3	34.8	36.8
85°	17.4	17.4	17.4	16.4	16.4
87.5°	9.9	9.9	8.5	7.0	5.0
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)