

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: P555825

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-80-84-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: P555825
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-50-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

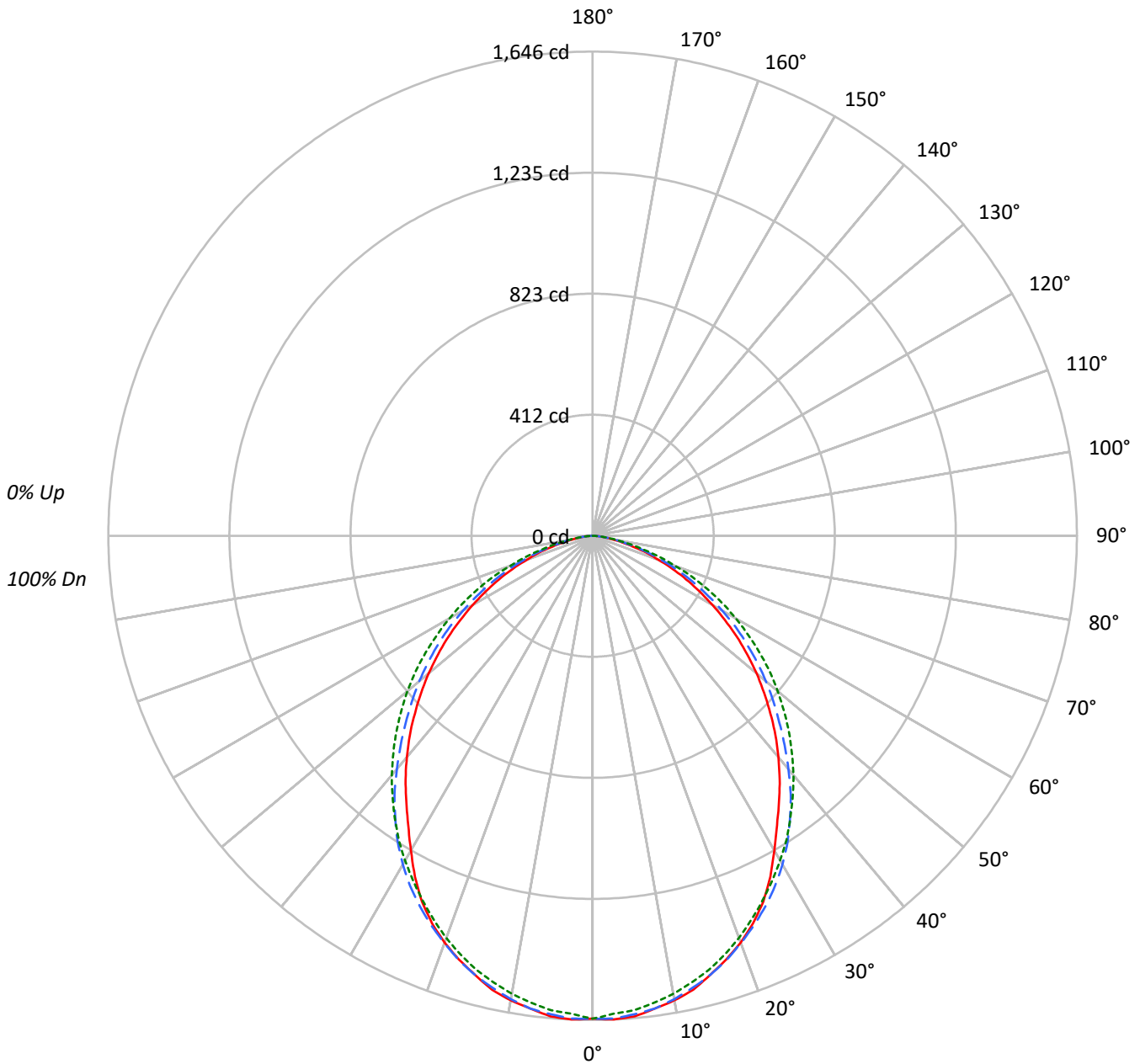
Lumens per Lamp: N/A
Luminaire Lumens: 3796.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	8836	8836	8836
5°	8859	8821	8747
10°	8765	8741	8641
15°	8610	8610	8511
20°	8427	8438	8330
25°	8150	8251	8119
30°	7674	8019	7921
35°	7251	7686	7699
40°	6899	7272	7462
45°	6505	6831	7181
50°	6089	6437	6876
55°	5616	5989	6503
60°	5058	5465	6048
65°	4466	4860	5501
70°	3722	4139	4675
75°	2924	3304	3660
80°	2092	2328	2582
85°	1365	1365	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	4.1
10°-20°	434.2	11.4
20°-30°	634.5	16.7
30°-40°	720.3	19.0
40°-50°	695.3	18.3
50°-60°	573.6	15.1
60°-70°	382.0	10.1
70°-80°	170.9	4.5
80°-90°	30.6	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°	1223.3	32.2
0°-40°	1943.6	51.2
0°-60°	3212.5	84.6
0°-90°	3796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1640	1639	1633	1624	1619	155
15°	1545	1549	1545	1538	1528	436
25°	1372	1383	1389	1379	1367	628
35°	1104	1119	1170	1176	1172	692
45°	855	869	898	938	944	659
55°	598	609	638	674	693	534
65°	351	360	382	409	432	348
75°	141	148	159	166	176	154
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1641.7	1641.7	1641.7	1641.7	1641.7
2.5°	1646.1	1646.7	1642.9	1632.8	1626.5
5°	1639.8	1639.1	1632.8	1624.0	1619.0
7.5°	1621.5	1622.8	1620.9	1608.2	1601.3
10°	1603.8	1604.5	1599.4	1589.3	1581.1
12.5°	1581.1	1580.5	1573.6	1568.5	1555.3
15°	1545.2	1549.0	1545.2	1538.2	1527.5
17.5°	1510.5	1510.5	1513.0	1501.0	1492.8
20°	1471.4	1473.3	1473.3	1463.8	1454.4
22.5°	1426.0	1431.7	1433.5	1423.5	1412.1
25°	1372.4	1383.1	1389.4	1379.3	1367.3
27.5°	1307.4	1323.8	1342.7	1335.2	1321.9
30°	1234.9	1258.8	1290.4	1284.1	1274.6
32.5°	1166.1	1190.1	1233.6	1231.1	1226.1
35°	1103.7	1118.8	1169.9	1176.2	1171.8
37.5°	1044.4	1058.3	1106.2	1120.7	1116.9
40°	982.0	997.1	1035.0	1060.8	1062.1
42.5°	920.2	934.7	965.6	1002.8	1002.8
45°	854.6	869.1	897.5	938.5	943.5
47.5°	790.2	805.4	833.1	874.1	882.3
50°	727.2	741.1	768.8	808.5	821.2
52.5°	661.6	676.7	703.8	740.4	758.7
55°	598.5	608.6	638.3	673.6	693.1
57.5°	532.9	542.4	575.8	606.1	626.3
60°	469.9	481.8	507.7	538.6	561.9
62.5°	409.3	421.9	444.0	471.1	497.6
65°	350.7	360.1	381.6	408.7	432.0
67.5°	293.9	302.1	323.5	342.5	367.1
70°	236.5	247.2	263.0	281.3	297.1
72.5°	190.5	194.9	208.1	221.4	237.8
75°	140.6	148.2	158.9	166.5	176.0
77.5°	100.9	105.3	111.6	117.9	126.8
80°	67.5	69.4	75.1	76.3	83.3
82.5°	41.0	42.3	43.5	44.1	46.7
85°	22.1	22.1	22.1	20.8	20.8
87.5°	12.6	12.6	10.7	8.8	6.3
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)