

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: P555775

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-80-97-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: P555775
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-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

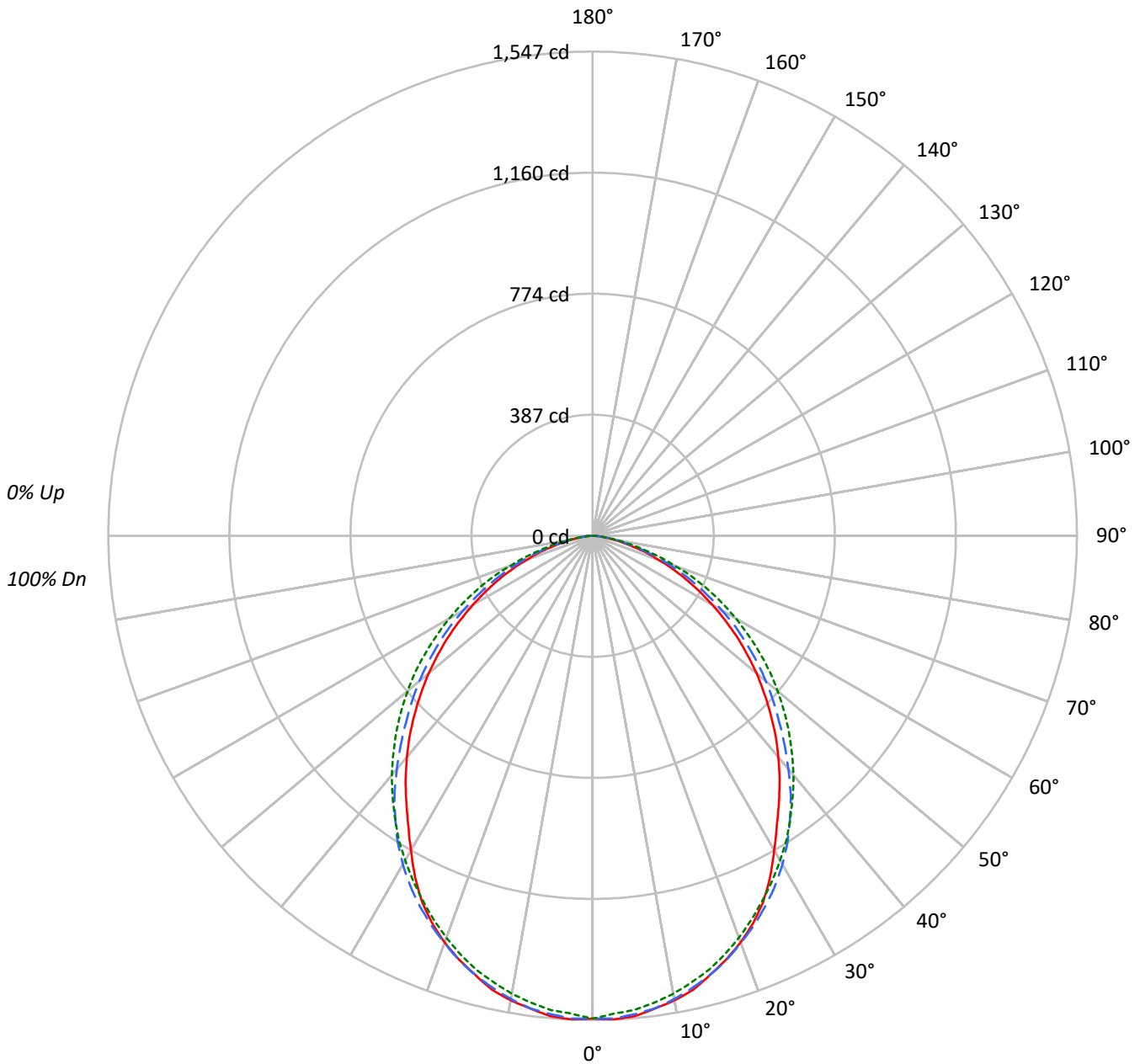
Lumens per Lamp: N/A
Luminaire Lumens: 3567.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8302	8302	8302
5°	8325	8289	8219
10°	8236	8213	8119
15°	8090	8090	7998
20°	7919	7929	7827
25°	7658	7753	7630
30°	7211	7535	7443
35°	6814	7223	7234
40°	6483	6832	7012
45°	6112	6419	6748
50°	5721	6049	6460
55°	5277	5627	6111
60°	4752	5135	5683
65°	4196	4565	5170
70°	3496	3888	4392
75°	2749	3105	3437
80°	1965	2185	2424
85°	1278	1278	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	4.1
10°-20°	408.0	11.4
20°-30°	596.3	16.7
30°-40°	676.8	19.0
40°-50°	653.4	18.3
50°-60°	539.0	15.1
60°-70°	358.9	10.1
70°-80°	160.6	4.5
80°-90°	28.7	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°	1149.5	32.2
0°-40°	1826.4	51.2
0°-60°	3018.7	84.6
0°-90°	3567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1541	1540	1534	1526	1521	146
15°	1452	1456	1452	1445	1435	409
25°	1290	1300	1306	1296	1285	591
35°	1037	1051	1099	1105	1101	650
45°	803	817	843	882	887	620
55°	562	572	600	633	651	502
65°	330	338	358	384	406	327
75°	132	139	149	156	165	145
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°	1542.6	1542.6	1542.6	1542.6	1542.6
2.5°	1546.8	1547.4	1543.8	1534.3	1528.4
5°	1540.9	1540.3	1534.3	1526.0	1521.3
7.5°	1523.7	1524.9	1523.1	1511.2	1504.7
10°	1507.1	1507.7	1502.9	1493.4	1485.7
12.5°	1485.7	1485.1	1478.6	1473.9	1461.4
15°	1452.0	1455.5	1452.0	1445.4	1435.4
17.5°	1419.4	1419.4	1421.7	1410.5	1402.8
20°	1382.6	1384.4	1384.4	1375.5	1366.6
22.5°	1340.0	1345.3	1347.1	1337.6	1326.9
25°	1289.6	1299.7	1305.6	1296.1	1284.8
27.5°	1228.5	1243.9	1261.7	1254.6	1242.2
30°	1160.4	1182.9	1212.5	1206.6	1197.7
32.5°	1095.8	1118.3	1159.2	1156.8	1152.1
35°	1037.1	1051.3	1099.3	1105.3	1101.1
37.5°	981.4	994.4	1039.5	1053.1	1049.6
40°	922.7	937.0	972.5	996.8	998.0
42.5°	864.7	878.3	907.3	942.3	942.3
45°	803.0	816.7	843.3	881.8	886.6
47.5°	742.6	756.8	782.9	821.4	829.1
50°	683.3	696.3	722.4	759.8	771.6
52.5°	621.7	635.9	661.4	695.8	712.9
55°	562.4	571.9	599.7	632.9	651.3
57.5°	500.8	509.7	541.1	569.5	588.5
60°	441.5	452.8	477.1	506.1	528.0
62.5°	384.6	396.5	417.2	442.7	467.6
65°	329.5	338.4	358.5	384.0	406.0
67.5°	276.2	283.9	304.0	321.8	344.9
70°	222.2	232.3	247.1	264.3	279.1
72.5°	179.0	183.1	195.6	208.0	223.4
75°	132.2	139.3	149.3	156.5	165.3
77.5°	94.8	99.0	104.9	110.8	119.1
80°	63.4	65.2	70.5	71.7	78.2
82.5°	38.5	39.7	40.9	41.5	43.9
85°	20.7	20.7	20.7	19.6	19.6
87.5°	11.9	11.9	10.1	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)