

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: P554668

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-93-96-EDD-90**

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: P554668
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-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

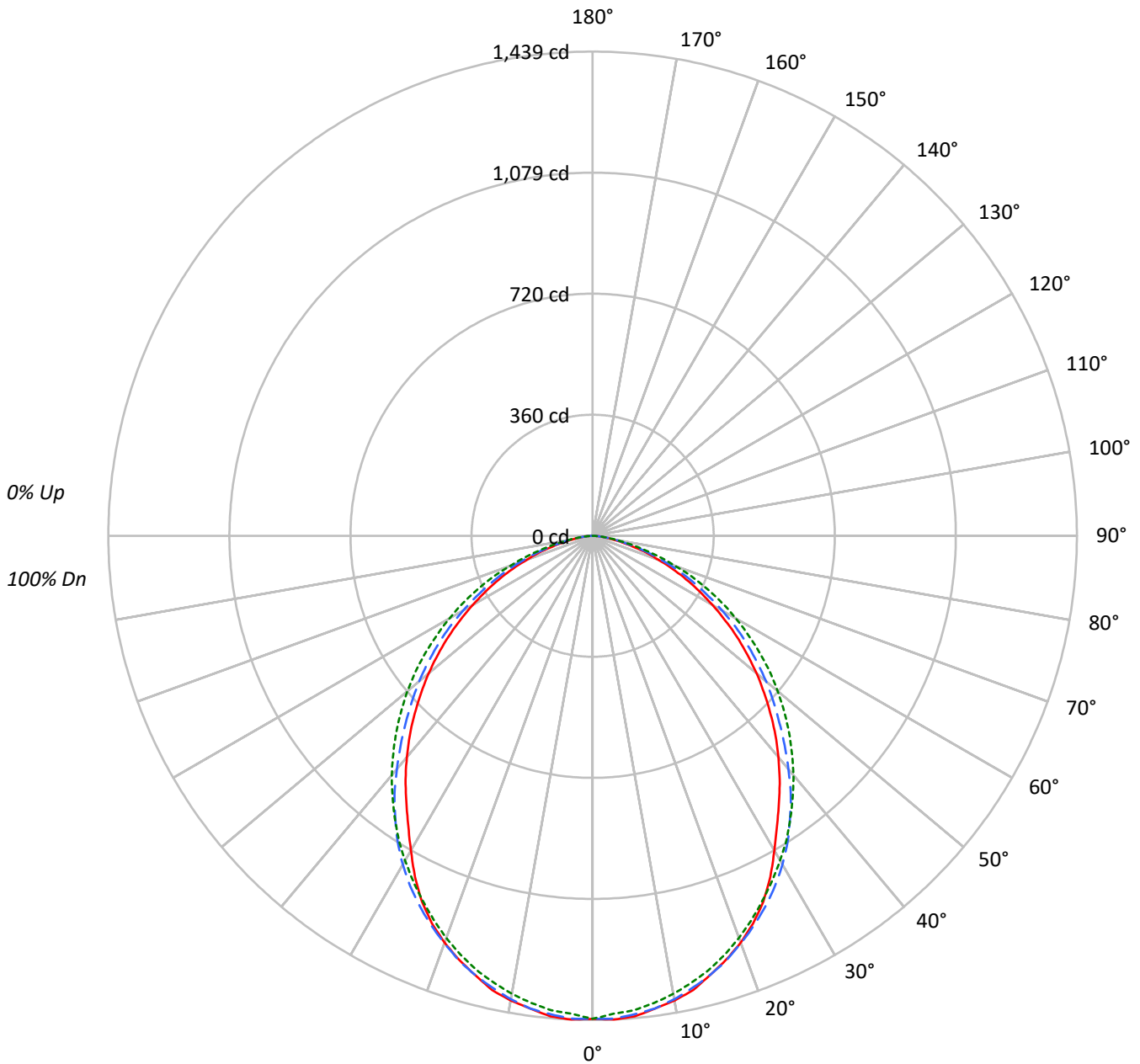
Lumens per Lamp: N/A
Luminaire Lumens: 3319.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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				20				20	
RC	80				70				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7725	7725	7725
5°	7746	7713	7647
10°	7664	7642	7555
15°	7528	7528	7442
20°	7368	7377	7283
25°	7125	7214	7099
30°	6710	7011	6925
35°	6340	6721	6732
40°	6032	6358	6524
45°	5687	5973	6279
50°	5323	5628	6012
55°	4910	5237	5686
60°	4422	4778	5288
65°	3904	4248	4810
70°	3254	3618	4087
75°	2558	2890	3198
80°	1829	2033	2256
85°	1192	1192	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	4.1
10°-20°	379.7	11.4
20°-30°	554.8	16.7
30°-40°	629.8	19.0
40°-50°	607.9	18.3
50°-60°	501.5	15.1
60°-70°	334.0	10.1
70°-80°	149.5	4.5
80°-90°	26.7	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°	1069.6	32.2
0°-40°	1699.4	51.2
0°-60°	2808.8	84.6
0°-90°	3319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1434	1433	1428	1420	1416	136
15°	1351	1354	1351	1345	1336	381
25°	1200	1209	1215	1206	1196	549
35°	965	978	1023	1028	1025	605
45°	747	760	785	820	825	576
55°	523	532	558	589	606	467
65°	307	315	334	357	378	304
75°	123	130	139	146	154	134
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.4	1435.4	1435.4	1435.4	1435.4
2.5°	1439.2	1439.8	1436.5	1427.7	1422.1
5°	1433.7	1433.2	1427.7	1419.9	1415.5
7.5°	1417.7	1418.8	1417.2	1406.2	1400.1
10°	1402.3	1402.8	1398.4	1389.6	1382.4
12.5°	1382.4	1381.9	1375.8	1371.4	1359.8
15°	1351.0	1354.3	1351.0	1344.9	1335.6
17.5°	1320.7	1320.7	1322.9	1312.4	1305.2
20°	1286.5	1288.1	1288.1	1279.9	1271.6
22.5°	1246.8	1251.8	1253.4	1244.6	1234.7
25°	1199.9	1209.3	1214.8	1206.0	1195.5
27.5°	1143.1	1157.5	1174.0	1167.4	1155.8
30°	1079.7	1100.7	1128.2	1122.7	1114.4
32.5°	1019.6	1040.6	1078.6	1076.4	1072.0
35°	965.0	978.2	1022.9	1028.4	1024.6
37.5°	913.2	925.3	967.2	979.9	976.6
40°	858.6	871.8	904.9	927.5	928.6
42.5°	804.5	817.2	844.2	876.8	876.8
45°	747.2	759.9	784.7	820.5	824.9
47.5°	690.9	704.2	728.4	764.3	771.5
50°	635.8	647.9	672.2	706.9	718.0
52.5°	578.5	591.7	615.4	647.4	663.4
55°	523.3	532.1	558.1	588.9	606.0
57.5°	466.0	474.2	503.5	529.9	547.6
60°	410.8	421.3	443.9	470.9	491.3
62.5°	357.9	368.9	388.2	411.9	435.1
65°	306.6	314.9	333.6	357.3	377.7
67.5°	257.0	264.1	282.9	299.4	320.9
70°	206.8	216.2	229.9	245.9	259.7
72.5°	166.5	170.4	182.0	193.6	207.9
75°	123.0	129.6	139.0	145.6	153.8
77.5°	88.2	92.1	97.6	103.1	110.8
80°	59.0	60.7	65.6	66.7	72.8
82.5°	35.8	36.9	38.0	38.6	40.8
85°	19.3	19.3	19.3	18.2	18.2
87.5°	11.0	11.0	9.4	7.7	5.5
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)