

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: P555872

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-93-84-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: P555872
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-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

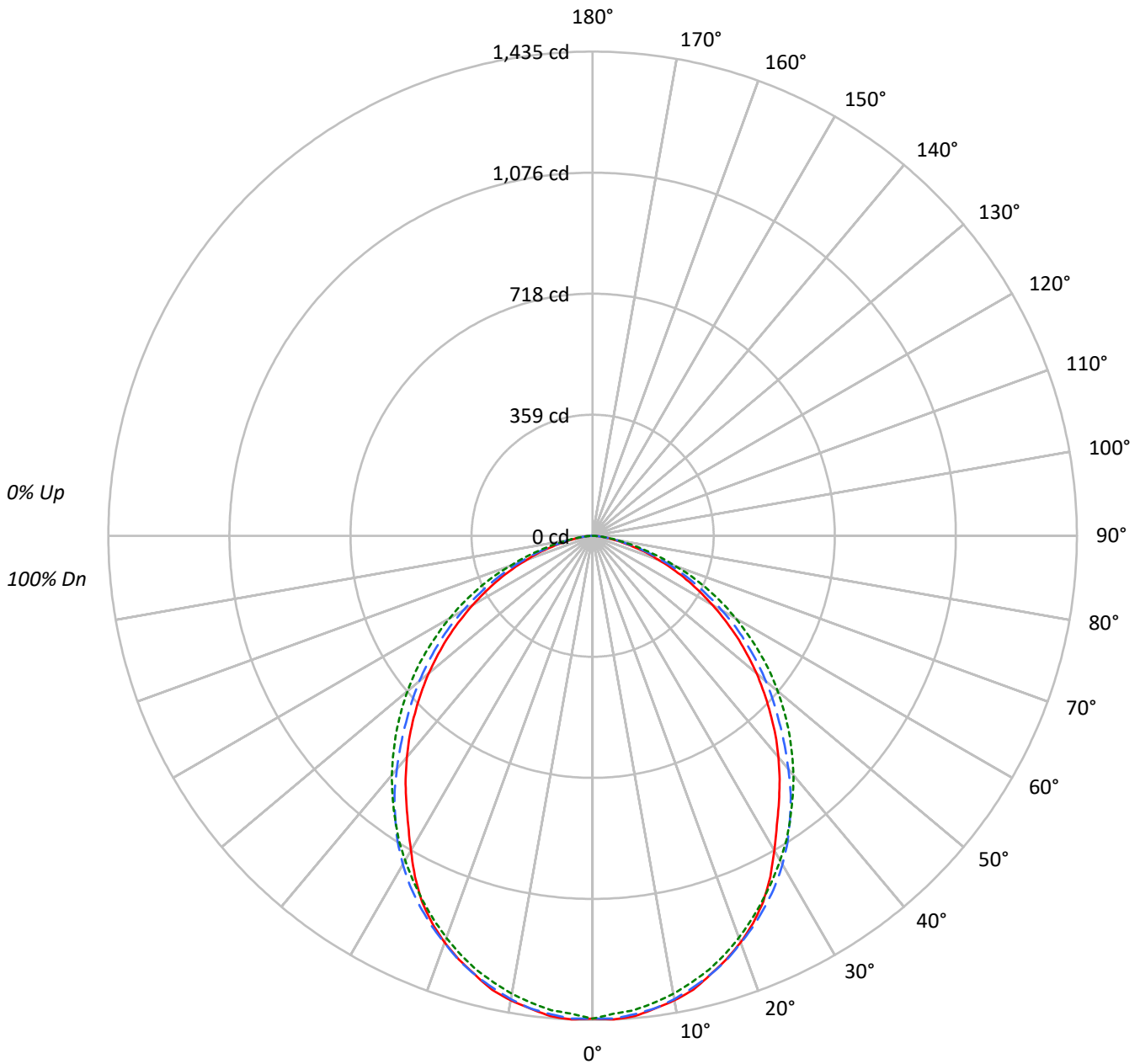
Lumens per Lamp: N/A
Luminaire Lumens: 3309.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	7702	7702	7702
5°	7722	7690	7625
10°	7641	7619	7532
15°	7505	7505	7419
20°	7346	7356	7261
25°	7104	7192	7078
30°	6690	6990	6905
35°	6321	6700	6711
40°	6014	6339	6504
45°	5670	5954	6260
50°	5308	5611	5993
55°	4895	5221	5669
60°	4409	4764	5272
65°	3893	4236	4796
70°	3245	3608	4074
75°	2549	2880	3190
80°	1822	2027	2250
85°	1186	1186	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	4.1
10°-20°	378.5	11.4
20°-30°	553.1	16.7
30°-40°	627.9	19.0
40°-50°	606.1	18.3
50°-60°	500.0	15.1
60°-70°	333.0	10.1
70°-80°	149.0	4.5
80°-90°	26.6	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°	1066.4	32.2
0°-40°	1694.3	51.2
0°-60°	2800.4	84.6
0°-90°	3309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1429	1429	1423	1416	1411	135
15°	1347	1350	1347	1341	1332	380
25°	1196	1206	1211	1202	1192	548
35°	962	975	1020	1025	1022	603
45°	745	758	782	818	822	575
55°	522	530	556	587	604	466
65°	306	314	333	356	377	303
75°	123	129	138	145	153	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°	1431.1	1431.1	1431.1	1431.1	1431.1
2.5°	1434.9	1435.5	1432.2	1423.4	1417.9
5°	1429.4	1428.9	1423.4	1415.7	1411.3
7.5°	1413.5	1414.6	1412.9	1401.9	1395.9
10°	1398.1	1398.6	1394.2	1385.4	1378.3
12.5°	1378.3	1377.7	1371.7	1367.3	1355.7
15°	1346.9	1350.2	1346.9	1340.9	1331.5
17.5°	1316.7	1316.7	1318.9	1308.5	1301.3
20°	1282.6	1284.3	1284.3	1276.0	1267.8
22.5°	1243.0	1248.0	1249.6	1240.8	1230.9
25°	1196.3	1205.7	1211.1	1202.4	1191.9
27.5°	1139.7	1154.0	1170.5	1163.9	1152.3
30°	1076.5	1097.3	1124.8	1119.3	1111.1
32.5°	1016.5	1037.4	1075.4	1073.2	1068.8
35°	962.1	975.3	1019.8	1025.3	1021.5
37.5°	910.4	922.5	964.3	976.9	973.6
40°	856.0	869.2	902.2	924.7	925.8
42.5°	802.1	814.8	841.7	874.1	874.1
45°	744.9	757.6	782.3	818.1	822.5
47.5°	688.9	702.1	726.2	762.0	769.1
50°	633.9	646.0	670.2	704.8	715.8
52.5°	576.7	589.9	613.5	645.4	661.4
55°	521.7	530.5	556.4	587.2	604.2
57.5°	464.6	472.8	501.9	528.3	545.9
60°	409.6	420.0	442.6	469.5	489.8
62.5°	356.8	367.8	387.0	410.7	433.8
65°	305.7	313.9	332.6	356.3	376.6
67.5°	256.2	263.3	282.0	298.5	320.0
70°	206.2	215.5	229.3	245.2	258.9
72.5°	166.0	169.9	181.4	193.0	207.3
75°	122.6	129.2	138.5	145.1	153.4
77.5°	88.0	91.8	97.3	102.8	110.5
80°	58.8	60.5	65.4	66.5	72.6
82.5°	35.7	36.8	37.9	38.5	40.7
85°	19.2	19.2	19.2	18.1	18.1
87.5°	11.0	11.0	9.3	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)