

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: P555867

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-82-94-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: P555867
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-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

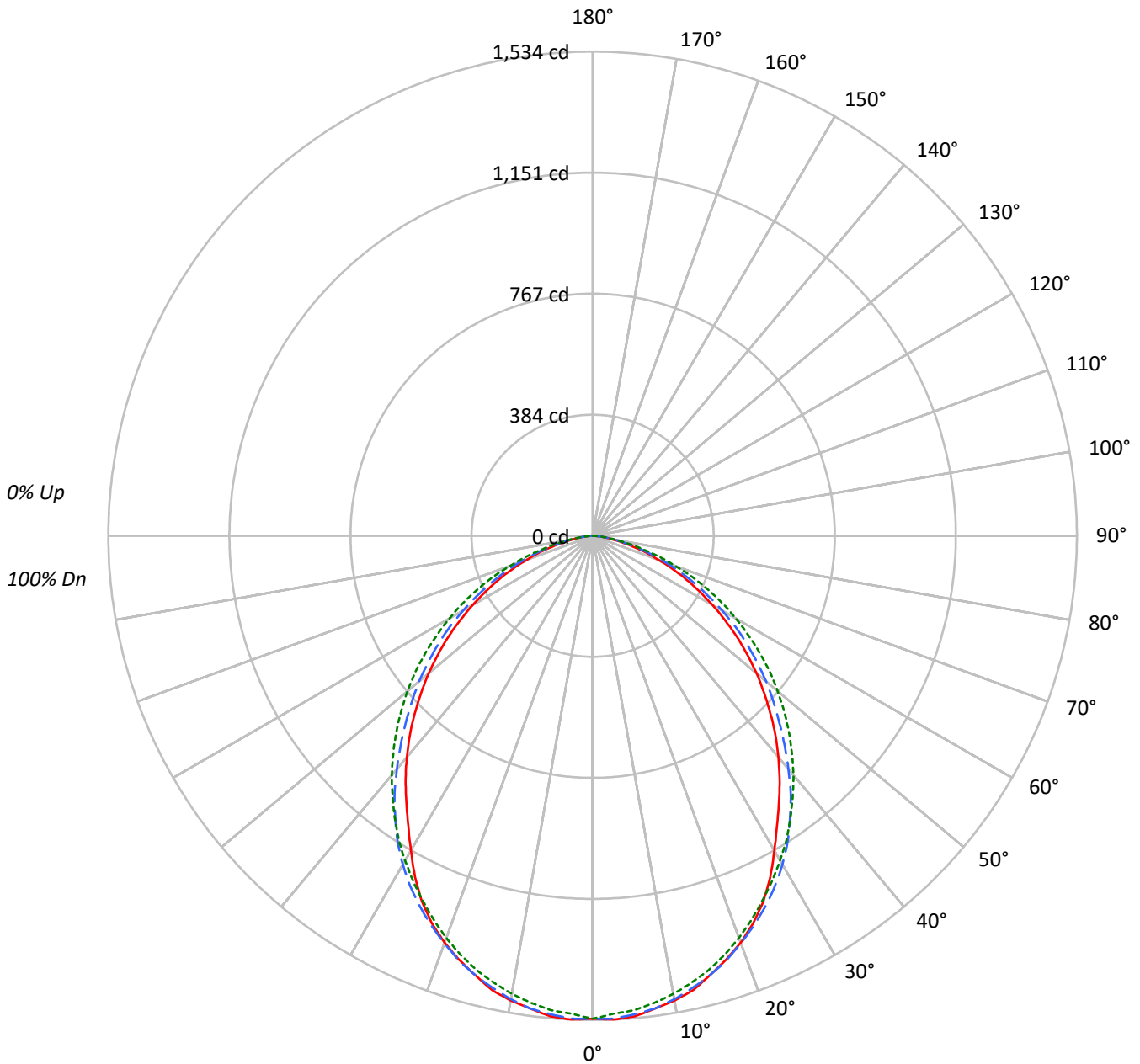
Lumens per Lamp: N/A
Luminaire Lumens: 3538.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	8235	8235	8235
5°	8257	8222	8152
10°	8169	8147	8054
15°	8025	8025	7933
20°	7855	7864	7763
25°	7596	7690	7568
30°	7153	7474	7383
35°	6759	7164	7176
40°	6430	6777	6955
45°	6062	6367	6693
50°	5675	6000	6408
55°	5234	5582	6062
60°	4714	5093	5637
65°	4162	4528	5128
70°	3468	3857	4357
75°	2726	3080	3410
80°	1949	2170	2405
85°	1272	1272	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	4.1
10°-20°	404.7	11.4
20°-30°	591.4	16.7
30°-40°	671.3	19.0
40°-50°	648.1	18.3
50°-60°	534.6	15.1
60°-70°	356.0	10.1
70°-80°	159.3	4.5
80°-90°	28.5	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°	1140.2	32.2
0°-40°	1811.5	51.2
0°-60°	2994.2	84.6
0°-90°	3538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1528	1528	1522	1514	1509	145
15°	1440	1444	1440	1434	1424	406
25°	1279	1289	1295	1286	1274	586
35°	1029	1043	1090	1096	1092	645
45°	796	810	836	875	879	615
55°	558	567	595	628	646	498
65°	327	336	356	381	403	324
75°	131	138	148	155	164	143
85°	21	21	21	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.1	1530.1	1530.1	1530.1	1530.1
2.5°	1534.2	1534.8	1531.3	1521.9	1516.0
5°	1528.3	1527.7	1521.9	1513.6	1508.9
7.5°	1511.3	1512.5	1510.7	1498.9	1492.5
10°	1494.8	1495.4	1490.7	1481.3	1473.7
12.5°	1473.7	1473.1	1466.6	1461.9	1449.6
15°	1440.2	1443.7	1440.2	1433.7	1423.7
17.5°	1407.8	1407.8	1410.2	1399.0	1391.4
20°	1371.4	1373.1	1373.1	1364.3	1355.5
22.5°	1329.1	1334.3	1336.1	1326.7	1316.1
25°	1279.1	1289.1	1295.0	1285.6	1274.4
27.5°	1218.5	1233.8	1251.5	1244.4	1232.1
30°	1151.0	1173.3	1202.7	1196.8	1188.0
32.5°	1086.9	1109.2	1149.8	1147.4	1142.7
35°	1028.7	1042.8	1090.4	1096.3	1092.2
37.5°	973.4	986.4	1031.0	1044.6	1041.0
40°	915.2	929.3	964.6	988.7	989.9
42.5°	857.6	871.1	900.0	934.6	934.6
45°	796.5	810.0	836.5	874.7	879.4
47.5°	736.5	750.6	776.5	814.7	822.4
50°	677.8	690.7	716.6	753.6	765.3
52.5°	616.6	630.7	656.0	690.1	707.1
55°	557.8	567.2	594.9	627.8	646.0
57.5°	496.7	505.5	536.7	564.9	583.7
60°	437.9	449.1	473.2	502.0	523.7
62.5°	381.5	393.3	413.8	439.1	463.8
65°	326.8	335.6	355.6	380.9	402.7
67.5°	273.9	281.6	301.6	319.2	342.1
70°	220.4	230.4	245.1	262.2	276.9
72.5°	177.5	181.6	194.0	206.3	221.6
75°	131.1	138.1	148.1	155.2	164.0
77.5°	94.1	98.2	104.0	109.9	118.2
80°	62.9	64.7	70.0	71.1	77.6
82.5°	38.2	39.4	40.6	41.1	43.5
85°	20.6	20.6	20.6	19.4	19.4
87.5°	11.8	11.8	10.0	8.2	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)