

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: P555845

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-81-86-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: P555845
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-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

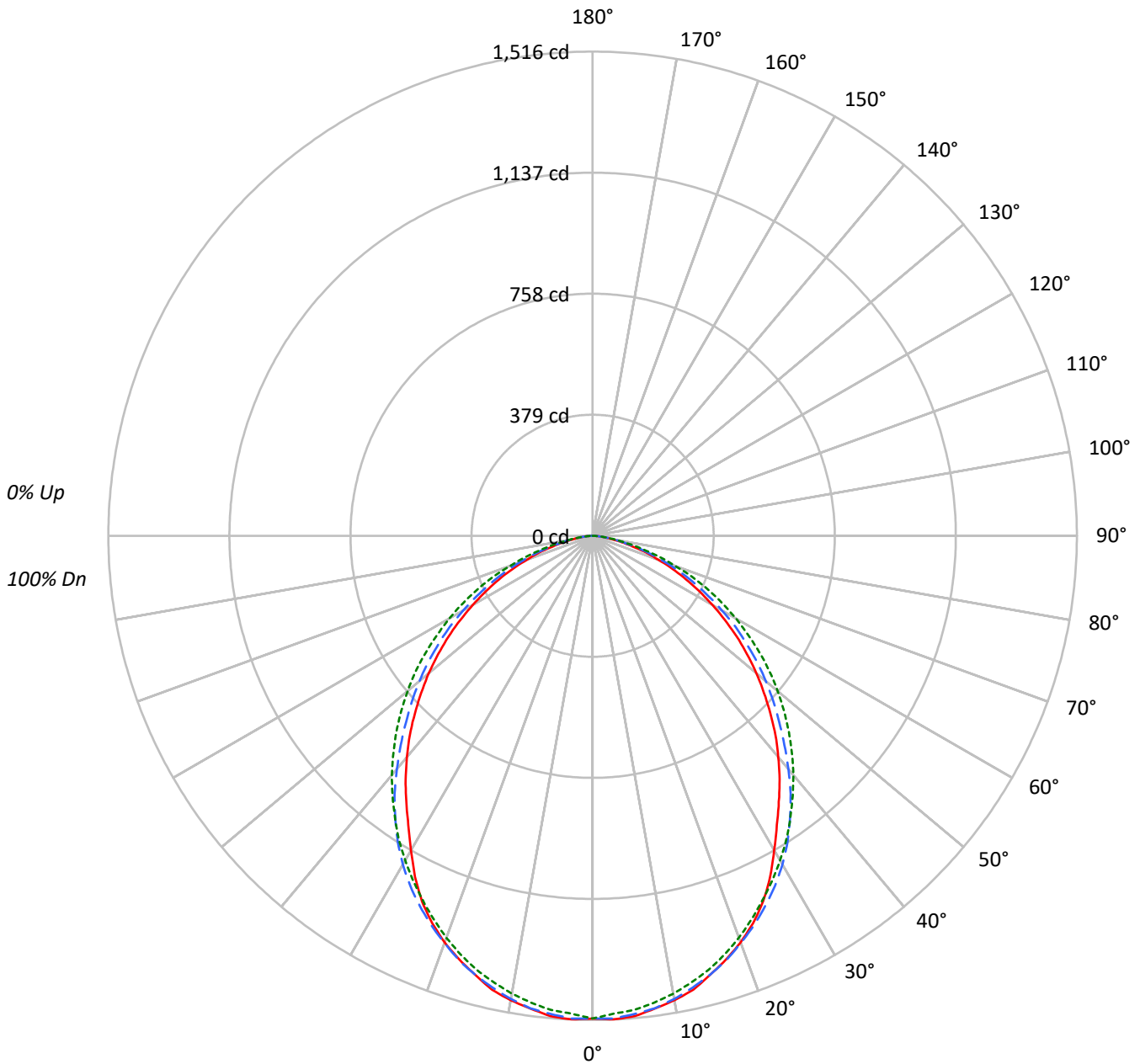
Lumens per Lamp: N/A
Luminaire Lumens: 3495.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): 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°	8135	8135	8135
5°	8157	8122	8053
10°	8070	8048	7956
15°	7927	7927	7836
20°	7759	7769	7669
25°	7503	7596	7476
30°	7066	7384	7293
35°	6677	7077	7089
40°	6352	6695	6870
45°	5989	6289	6612
50°	5606	5926	6330
55°	5171	5514	5988
60°	4656	5031	5569
65°	4112	4474	5066
70°	3427	3810	4304
75°	2693	3042	3369
80°	1925	2142	2374
85°	1254	1254	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	4.1
10°-20°	399.8	11.4
20°-30°	584.2	16.7
30°-40°	663.2	19.0
40°-50°	640.2	18.3
50°-60°	528.1	15.1
60°-70°	351.7	10.1
70°-80°	157.4	4.5
80°-90°	28.2	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°	1126.3	32.2
0°-40°	1789.5	51.2
0°-60°	2957.8	84.6
0°-90°	3495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3495.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1510	1509	1503	1495	1491	143
15°	1423	1426	1423	1416	1406	401
25°	1264	1273	1279	1270	1259	579
35°	1016	1030	1077	1083	1079	637
45°	787	800	826	864	869	607
55°	551	560	588	620	638	492
65°	323	332	351	376	398	320
75°	130	136	146	153	162	142
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.5	1511.5	1511.5	1511.5	1511.5
2.5°	1515.6	1516.1	1512.7	1503.4	1497.6
5°	1509.8	1509.2	1503.4	1495.2	1490.6
7.5°	1492.9	1494.1	1492.3	1480.7	1474.3
10°	1476.7	1477.2	1472.6	1463.3	1455.8
12.5°	1455.8	1455.2	1448.8	1444.1	1431.9
15°	1422.7	1426.1	1422.7	1416.3	1406.4
17.5°	1390.7	1390.7	1393.0	1382.0	1374.5
20°	1354.7	1356.5	1356.5	1347.7	1339.0
22.5°	1312.9	1318.1	1319.9	1310.6	1300.1
25°	1263.5	1273.4	1279.2	1269.9	1258.9
27.5°	1203.7	1218.8	1236.3	1229.3	1217.1
30°	1137.0	1159.0	1188.1	1182.3	1173.5
32.5°	1073.7	1095.7	1135.8	1133.5	1128.8
35°	1016.2	1030.1	1077.2	1083.0	1078.9
37.5°	961.6	974.4	1018.5	1031.9	1028.4
40°	904.1	918.0	952.9	976.7	977.9
42.5°	847.2	860.6	889.0	923.3	923.3
45°	786.8	800.2	826.3	864.0	868.7
47.5°	727.6	741.5	767.1	804.8	812.4
50°	669.5	682.3	707.8	744.4	756.0
52.5°	609.1	623.1	648.0	681.7	698.6
55°	551.1	560.4	587.6	620.2	638.2
57.5°	490.7	499.4	530.2	558.0	576.6
60°	432.6	443.6	467.4	495.9	517.4
62.5°	376.9	388.5	408.8	433.8	458.2
65°	322.9	331.6	351.3	376.3	397.8
67.5°	270.6	278.1	297.9	315.3	338.0
70°	217.8	227.6	242.1	259.0	273.5
72.5°	175.4	179.4	191.6	203.8	218.9
75°	129.5	136.5	146.3	153.3	162.0
77.5°	92.9	97.0	102.8	108.6	116.7
80°	62.1	63.9	69.1	70.3	76.6
82.5°	37.7	38.9	40.1	40.6	43.0
85°	20.3	20.3	20.3	19.2	19.2
87.5°	11.6	11.6	9.9	8.1	5.8
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)