

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: P555990

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-82-87-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: P555990
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-LD4-3STD-35-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

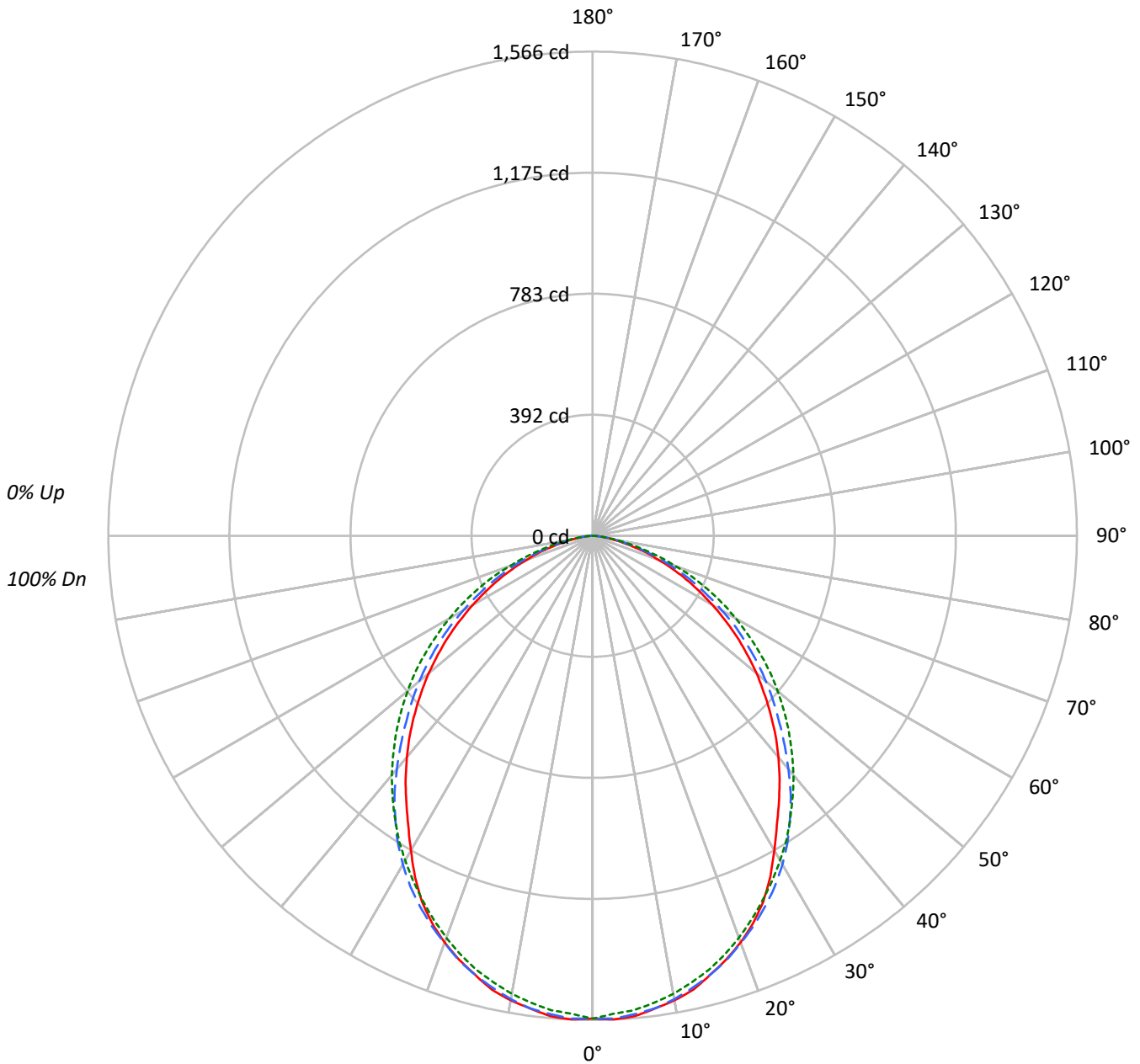
Lumens per Lamp: N/A
Luminaire Lumens: 3611.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	8405	8405	8405
5°	8427	8392	8320
10°	8338	8315	8220
15°	8190	8190	8096
20°	8017	8027	7924
25°	7752	7849	7724
30°	7300	7628	7535
35°	6898	7312	7324
40°	6563	6917	7098
45°	6187	6498	6831
50°	5791	6123	6540
55°	5343	5697	6186
60°	4811	5199	5754
65°	4248	4623	5234
70°	3541	3937	4447
75°	2782	3144	3481
80°	1990	2213	2455
85°	1297	1297	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	4.1
10°-20°	413.1	11.4
20°-30°	603.6	16.7
30°-40°	685.2	19.0
40°-50°	661.4	18.3
50°-60°	545.6	15.1
60°-70°	363.4	10.1
70°-80°	162.6	4.5
80°-90°	29.1	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°	1163.7	32.2
0°-40°	1848.9	51.2
0°-60°	3055.9	84.6
0°-90°	3611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1560	1559	1553	1545	1540	148
15°	1470	1474	1470	1463	1453	414
25°	1306	1316	1322	1312	1301	598
35°	1050	1064	1113	1119	1115	658
45°	813	827	854	893	898	627
55°	569	579	607	641	659	508
65°	334	343	363	389	411	331
75°	134	141	151	158	167	146
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°	1561.7	1561.7	1561.7	1561.7	1561.7
2.5°	1565.9	1566.5	1562.9	1553.3	1547.3
5°	1559.9	1559.3	1553.3	1544.9	1540.1
7.5°	1542.5	1543.7	1541.9	1529.9	1523.3
10°	1525.7	1526.3	1521.5	1511.9	1504.1
12.5°	1504.1	1503.5	1496.9	1492.1	1479.5
15°	1469.9	1473.5	1469.9	1463.3	1453.1
17.5°	1436.9	1436.9	1439.3	1427.9	1420.1
20°	1399.7	1401.5	1401.5	1392.5	1383.5
22.5°	1356.5	1361.9	1363.7	1354.1	1343.3
25°	1305.5	1315.7	1321.7	1312.1	1300.7
27.5°	1243.7	1259.3	1277.3	1270.1	1257.5
30°	1174.7	1197.5	1227.5	1221.5	1212.5
32.5°	1109.3	1132.1	1173.5	1171.1	1166.3
35°	1049.9	1064.3	1112.9	1118.9	1114.7
37.5°	993.5	1006.7	1052.3	1066.1	1062.5
40°	934.1	948.5	984.5	1009.1	1010.3
42.5°	875.3	889.1	918.5	953.9	953.9
45°	812.9	826.7	853.7	892.7	897.5
47.5°	751.7	766.1	792.5	831.5	839.3
50°	691.7	704.9	731.3	769.1	781.1
52.5°	629.3	643.7	669.5	704.3	721.7
55°	569.4	578.9	607.1	640.7	659.3
57.5°	507.0	516.0	547.8	576.5	595.7
60°	447.0	458.4	483.0	512.4	534.6
62.5°	389.4	401.4	422.4	448.2	473.4
65°	333.6	342.6	363.0	388.8	411.0
67.5°	279.6	287.4	307.8	325.8	349.2
70°	225.0	235.2	250.2	267.6	282.6
72.5°	181.2	185.4	198.0	210.6	226.2
75°	133.8	141.0	151.2	158.4	167.4
77.5°	96.0	100.2	106.2	112.2	120.6
80°	64.2	66.0	71.4	72.6	79.2
82.5°	39.0	40.2	41.4	42.0	44.4
85°	21.0	21.0	21.0	19.8	19.8
87.5°	12.0	12.0	10.2	8.4	6.0
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)