

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: P555841

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-81-84-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: P555841
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-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

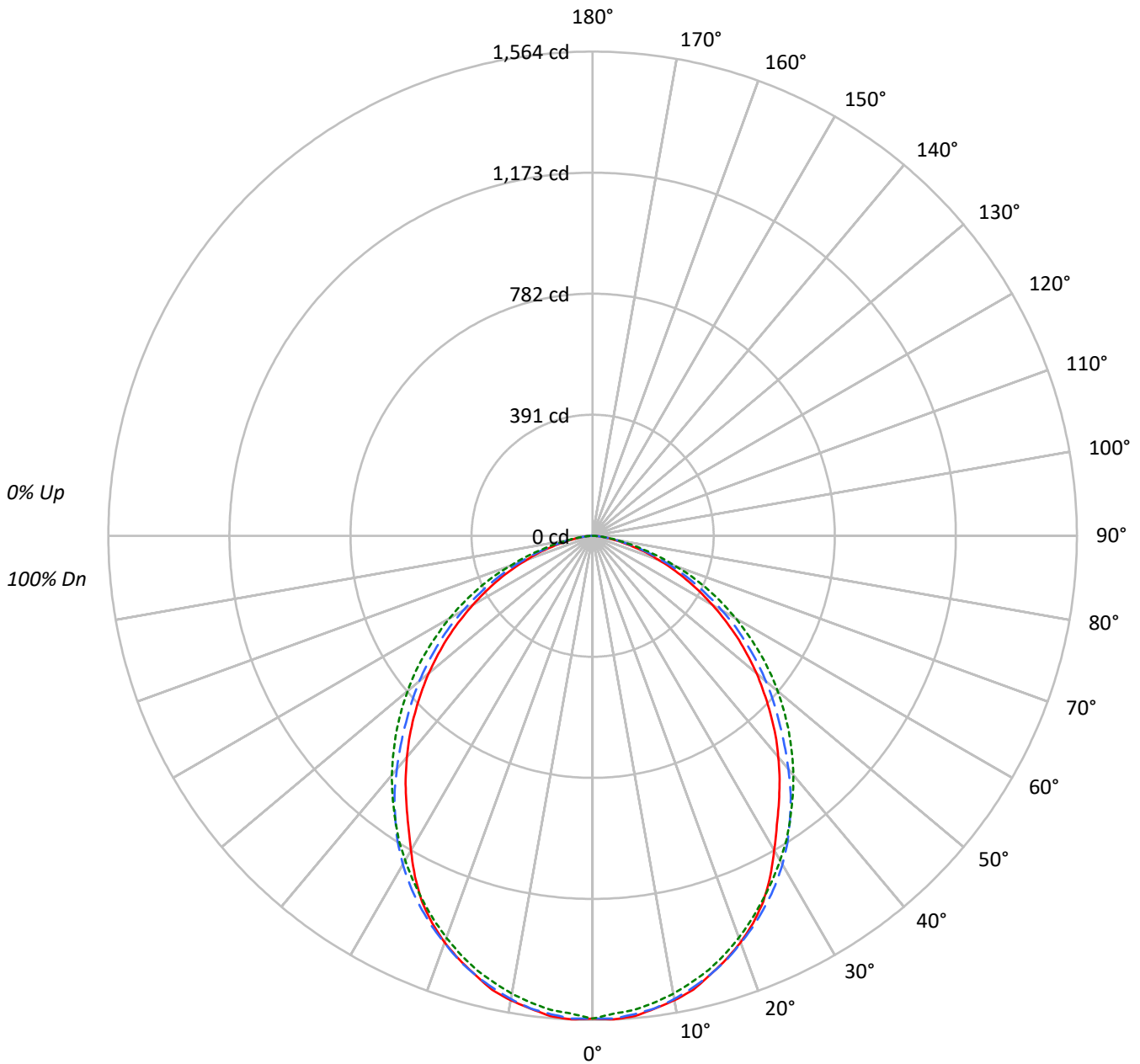
Lumens per Lamp: N/A
Luminaire Lumens: 3606.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8393	8393	8393
5°	8415	8380	8309
10°	8326	8303	8208
15°	8178	8178	8085
20°	8005	8015	7913
25°	7742	7838	7713
30°	7290	7618	7525
35°	6889	7302	7314
40°	6554	6908	7088
45°	6179	6489	6822
50°	5784	6115	6532
55°	5335	5689	6178
60°	4804	5191	5746
65°	4242	4616	5226
70°	3536	3931	4441
75°	2778	3140	3477
80°	1987	2210	2452
85°	1297	1297	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	4.1
10°-20°	412.5	11.4
20°-30°	602.8	16.7
30°-40°	684.2	19.0
40°-50°	660.5	18.3
50°-60°	544.9	15.1
60°-70°	362.8	10.1
70°-80°	162.4	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°	1162.1	32.2
0°-40°	1846.3	51.2
0°-60°	3051.7	84.6
0°-90°	3606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1558	1557	1551	1543	1538	147
15°	1468	1471	1468	1461	1451	414
25°	1304	1314	1320	1310	1299	597
35°	1048	1063	1111	1117	1113	657
45°	812	826	852	892	896	626
55°	569	578	606	640	658	507
65°	333	342	362	388	410	330
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°	1559.5	1559.5	1559.5	1559.5	1559.5
2.5°	1563.7	1564.3	1560.7	1551.1	1545.1
5°	1557.7	1557.1	1551.1	1542.7	1537.9
7.5°	1540.3	1541.5	1539.7	1527.7	1521.2
10°	1523.6	1524.2	1519.4	1509.8	1502.0
12.5°	1502.0	1501.4	1494.8	1490.0	1477.4
15°	1467.8	1471.4	1467.8	1461.2	1451.1
17.5°	1434.9	1434.9	1437.3	1425.9	1418.1
20°	1397.7	1399.5	1399.5	1390.6	1381.6
22.5°	1354.6	1360.0	1361.8	1352.2	1341.4
25°	1303.7	1313.9	1319.9	1310.3	1298.9
27.5°	1242.0	1257.5	1275.5	1268.3	1255.7
30°	1173.1	1195.8	1225.8	1219.8	1210.8
32.5°	1107.8	1130.5	1171.9	1169.5	1164.7
35°	1048.5	1062.8	1111.4	1117.4	1113.2
37.5°	992.1	1005.3	1050.9	1064.6	1061.0
40°	932.8	947.2	983.2	1007.7	1008.9
42.5°	874.1	887.9	917.2	952.6	952.6
45°	811.8	825.6	852.5	891.5	896.3
47.5°	750.7	765.1	791.4	830.4	838.2
50°	690.8	704.0	730.3	768.1	780.1
52.5°	628.5	642.9	668.6	703.4	720.7
55°	568.6	578.1	606.3	639.9	658.4
57.5°	506.3	515.2	547.0	575.8	594.9
60°	446.3	457.7	482.3	511.6	533.8
62.5°	388.8	400.8	421.8	447.5	472.7
65°	333.1	342.1	362.5	388.2	410.4
67.5°	279.2	287.0	307.3	325.3	348.7
70°	224.7	234.9	249.8	267.2	282.2
72.5°	180.9	185.1	197.7	210.3	225.9
75°	133.6	140.8	151.0	158.2	167.2
77.5°	95.9	100.1	106.0	112.0	120.4
80°	64.1	65.9	71.3	72.5	79.1
82.5°	38.9	40.1	41.3	41.9	44.3
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)