

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: P554833

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-82-84-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: P554833
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-LD4-2HI-50-UNV-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 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

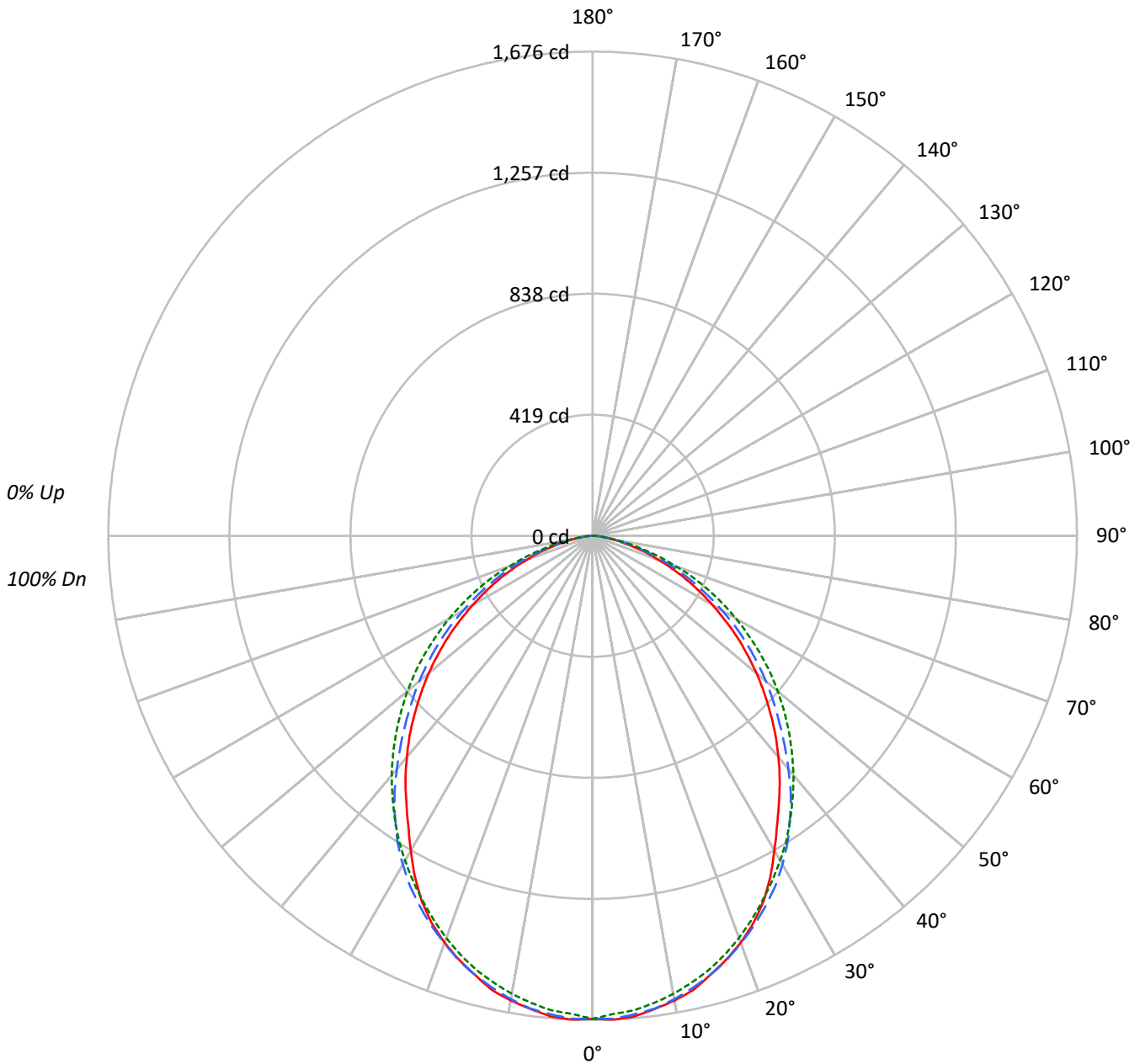
Lumens per Lamp: N/A
Luminaire Lumens: 3866.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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

TEST NUMBER: P554833

CATALOG NUMBER: FUSL-12-2-LD4-2HI-50-UNV-82-84-EDD

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°	8998	8998	8998
5°	9022	8984	8908
10°	8927	8902	8800
15°	8768	8768	8668
20°	8582	8593	8483
25°	8300	8403	8269
30°	7816	8167	8067
35°	7386	7828	7841
40°	7026	7405	7600
45°	6624	6957	7314
50°	6201	6556	7002
55°	5720	6099	6624
60°	5151	5566	6160
65°	4548	4949	5603
70°	3791	4214	4760
75°	2978	3367	3726
80°	2129	2368	2628
85°	1389	1389	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	4.1
10°-20°	442.2	11.4
20°-30°	646.2	16.7
30°-40°	733.6	19.0
40°-50°	708.1	18.3
50°-60°	584.2	15.1
60°-70°	389.0	10.1
70°-80°	174.1	4.5
80°-90°	31.1	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°	1245.9	32.2
0°-40°	1979.5	51.2
0°-60°	3271.8	84.6
0°-90°	3866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1670	1669	1663	1654	1649	158
15°	1574	1578	1574	1567	1556	444
25°	1398	1409	1415	1405	1392	640
35°	1124	1140	1192	1198	1193	704
45°	870	885	914	956	961	671
55°	610	620	650	686	706	544
65°	357	367	389	416	440	354
75°	143	151	162	170	179	157
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1671.9	1671.9	1671.9	1671.9	1671.9
2.5°	1676.4	1677.1	1673.2	1663.0	1656.5
5°	1670.0	1669.4	1663.0	1654.0	1648.8
7.5°	1651.4	1652.7	1650.7	1637.9	1630.8
10°	1633.4	1634.0	1628.9	1618.6	1610.3
12.5°	1610.3	1609.6	1602.6	1597.4	1583.9
15°	1573.7	1577.5	1573.7	1566.6	1555.7
17.5°	1538.3	1538.3	1540.9	1528.7	1520.4
20°	1498.5	1500.4	1500.4	1490.8	1481.2
22.5°	1452.3	1458.1	1460.0	1449.7	1438.1
25°	1397.7	1408.6	1415.0	1404.7	1392.5
27.5°	1331.5	1348.2	1367.5	1359.8	1346.3
30°	1257.7	1282.1	1314.2	1307.8	1298.1
32.5°	1187.6	1212.0	1256.4	1253.8	1248.7
35°	1124.1	1139.5	1191.5	1197.9	1193.4
37.5°	1063.7	1077.8	1126.6	1141.4	1137.5
40°	1000.1	1015.5	1054.0	1080.4	1081.7
42.5°	937.1	951.9	983.4	1021.3	1021.3
45°	870.3	885.1	914.0	955.8	960.9
47.5°	804.8	820.2	848.5	890.2	898.6
50°	740.6	754.7	783.0	823.4	836.3
52.5°	673.8	689.2	716.8	754.1	772.7
55°	609.6	619.8	650.0	686.0	705.9
57.5°	542.8	552.4	586.4	617.3	637.8
60°	478.5	490.7	517.1	548.5	572.3
62.5°	416.9	429.7	452.2	479.8	506.8
65°	357.1	366.8	388.6	416.2	440.0
67.5°	299.3	307.7	329.5	348.8	373.8
70°	240.9	251.8	267.8	286.5	302.5
72.5°	194.0	198.5	212.0	225.5	242.2
75°	143.2	150.9	161.9	169.6	179.2
77.5°	102.8	107.3	113.7	120.1	129.1
80°	68.7	70.7	76.4	77.7	84.8
82.5°	41.8	43.0	44.3	45.0	47.5
85°	22.5	22.5	22.5	21.2	21.2
87.5°	12.8	12.8	10.9	9.0	6.4
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)