

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: P554775

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-82-87-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: P554775
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-40-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

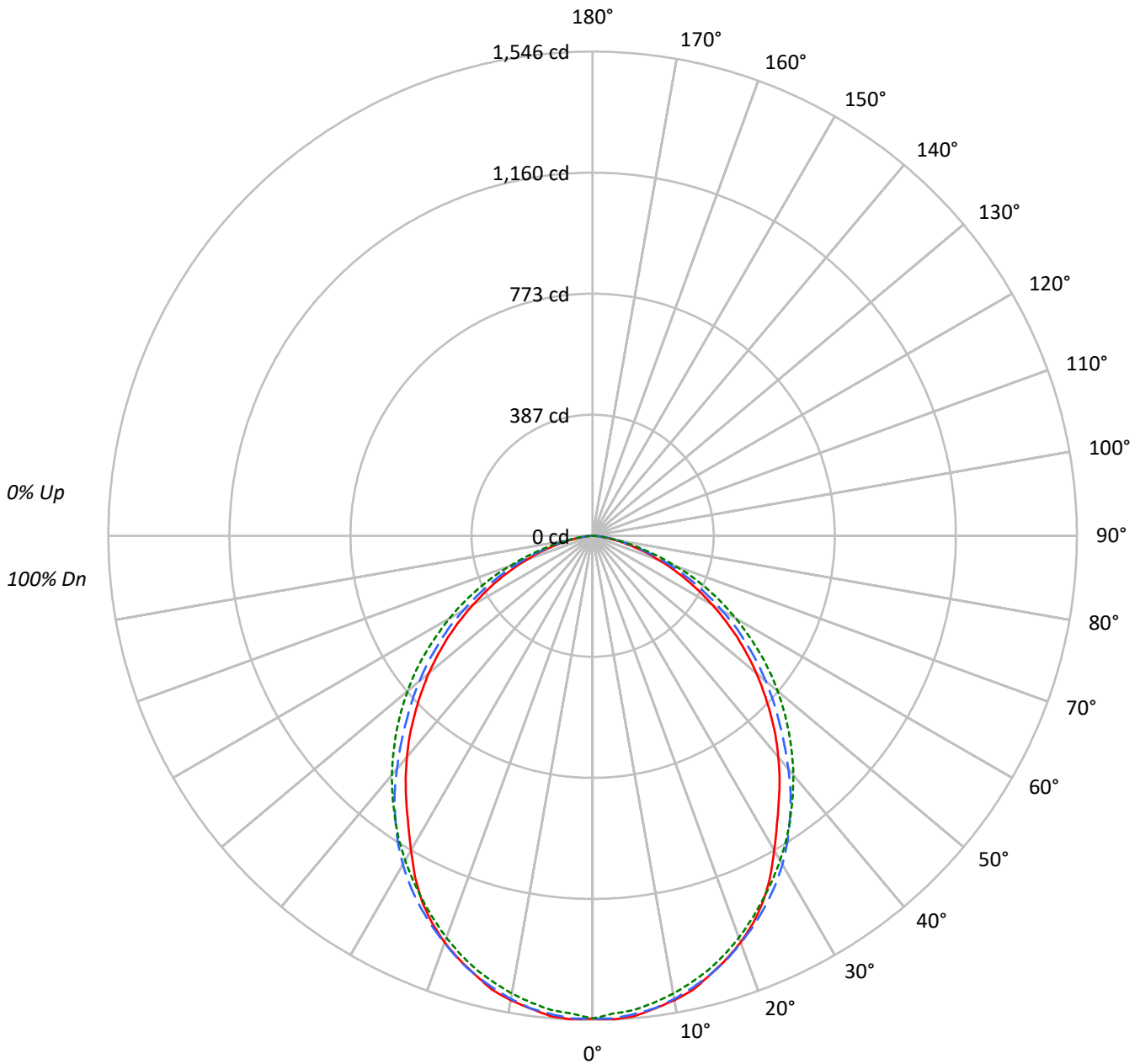
Lumens per Lamp: N/A
Luminaire Lumens: 3564.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	8295	8295	8295
5°	8318	8282	8212
10°	8229	8207	8113
15°	8083	8083	7991
20°	7912	7922	7821
25°	7652	7747	7624
30°	7205	7529	7437
35°	6808	7217	7228
40°	6478	6827	7006
45°	6106	6413	6742
50°	5716	6044	6455
55°	5272	5622	6107
60°	4748	5131	5679
65°	4192	4562	5165
70°	3495	3885	4389
75°	2745	3103	3435
80°	1965	2185	2424
85°	1278	1278	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	4.1
10°-20°	407.7	11.4
20°-30°	595.8	16.7
30°-40°	676.3	19.0
40°-50°	652.8	18.3
50°-60°	538.5	15.1
60°-70°	358.6	10.1
70°-80°	160.5	4.5
80°-90°	28.7	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°	1148.6	32.2
0°-40°	1824.8	51.2
0°-60°	3016.2	84.6
0°-90°	3564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1540	1539	1533	1525	1520	146
15°	1451	1454	1451	1444	1434	409
25°	1288	1299	1304	1295	1284	590
35°	1036	1050	1098	1104	1100	649
45°	802	816	843	881	886	619
55°	562	571	599	632	651	502
65°	329	338	358	384	406	326
75°	132	139	149	156	165	144
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°	1541.3	1541.3	1541.3	1541.3	1541.3
2.5°	1545.5	1546.1	1542.5	1533.0	1527.1
5°	1539.6	1539.0	1533.0	1524.8	1520.0
7.5°	1522.4	1523.6	1521.8	1510.0	1503.4
10°	1505.8	1506.4	1501.7	1492.2	1484.5
12.5°	1484.5	1483.9	1477.4	1472.6	1460.2
15°	1450.7	1454.3	1450.7	1444.2	1434.2
17.5°	1418.2	1418.2	1420.5	1409.3	1401.6
20°	1381.5	1383.2	1383.2	1374.4	1365.5
22.5°	1338.8	1344.2	1345.9	1336.5	1325.8
25°	1288.5	1298.6	1304.5	1295.0	1283.8
27.5°	1227.5	1242.9	1260.7	1253.6	1241.1
30°	1159.4	1181.9	1211.5	1205.6	1196.7
32.5°	1094.9	1117.4	1158.2	1155.9	1151.1
35°	1036.2	1050.5	1098.4	1104.3	1100.2
37.5°	980.6	993.6	1038.6	1052.2	1048.7
40°	922.0	936.2	971.7	996.0	997.2
42.5°	863.9	877.6	906.6	941.5	941.5
45°	802.3	816.0	842.6	881.1	885.8
47.5°	742.0	756.2	782.2	820.7	828.4
50°	682.7	695.8	721.8	759.1	771.0
52.5°	621.2	635.4	660.8	695.2	712.3
55°	561.9	571.4	599.2	632.4	650.8
57.5°	500.4	509.2	540.6	569.0	588.0
60°	441.1	452.4	476.7	505.7	527.6
62.5°	384.3	396.1	416.9	442.3	467.2
65°	329.2	338.1	358.2	383.7	405.6
67.5°	275.9	283.6	303.8	321.5	344.6
70°	222.1	232.1	246.9	264.1	278.9
72.5°	178.8	183.0	195.4	207.8	223.2
75°	132.0	139.2	149.2	156.3	165.2
77.5°	94.7	98.9	104.8	110.7	119.0
80°	63.4	65.1	70.5	71.6	78.2
82.5°	38.5	39.7	40.9	41.4	43.8
85°	20.7	20.7	20.7	19.5	19.5
87.5°	11.8	11.8	10.1	8.3	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)