

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: P555925

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-82-86-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: P555925
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-30-UNV-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

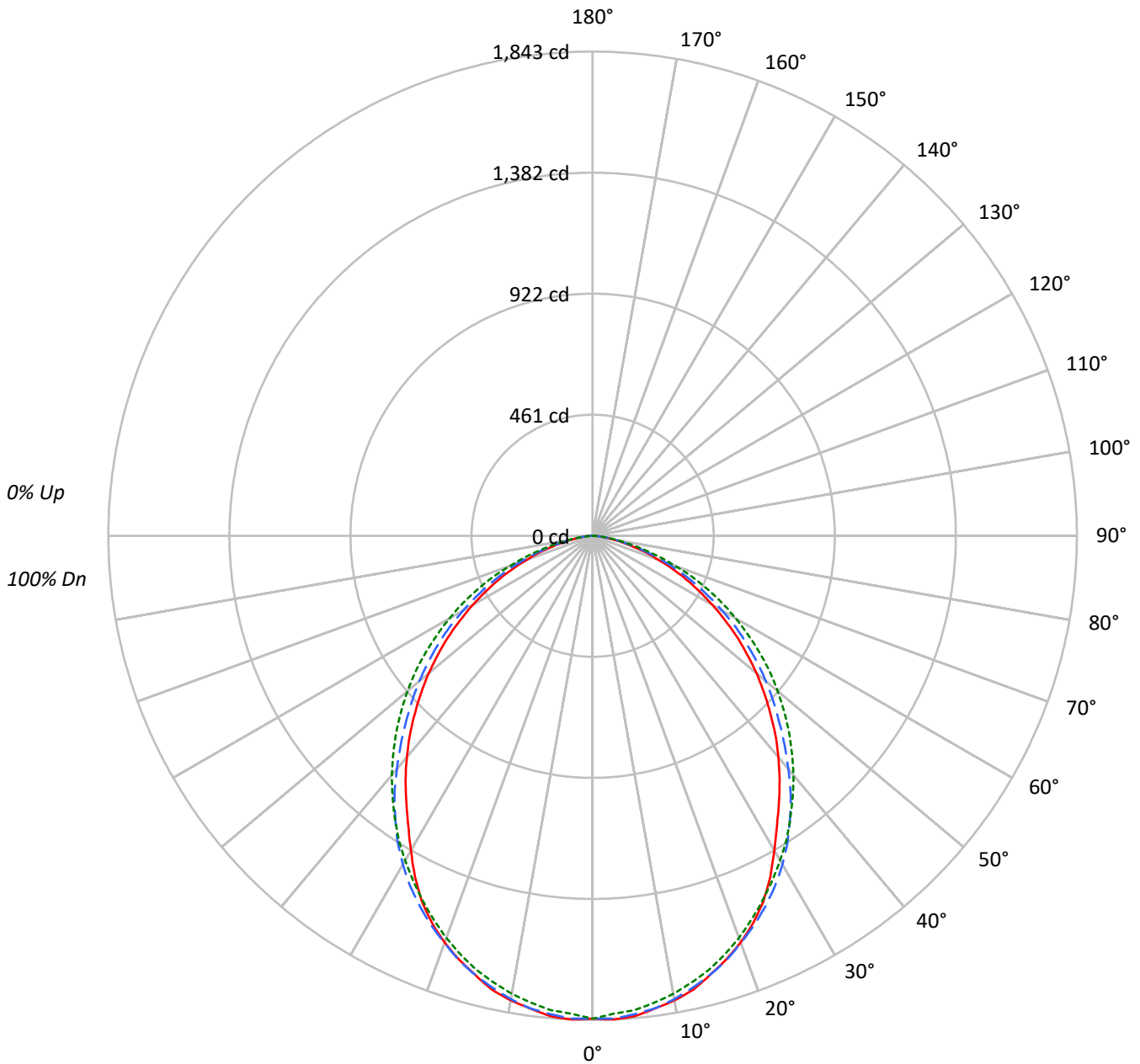
Lumens per Lamp: N/A
Luminaire Lumens: 4250.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	9892	9892	9892
5°	9918	9876	9793
10°	9813	9786	9674
15°	9639	9639	9529
20°	9435	9447	9326
25°	9124	9238	9091
30°	8592	8978	8869
35°	8119	8606	8620
40°	7724	8141	8354
45°	7282	7648	8040
50°	6816	7207	7698
55°	6288	6705	7281
60°	5663	6118	6772
65°	5000	5440	6160
70°	4167	4633	5234
75°	3275	3699	4096
80°	2343	2603	2889
85°	1525	1525	1439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	4.1
10°-20°	486.2	11.4
20°-30°	710.4	16.7
30°-40°	806.4	19.0
40°-50°	778.5	18.3
50°-60°	642.2	15.1
60°-70°	427.6	10.1
70°-80°	191.4	4.5
80°-90°	34.2	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°	1369.7	32.2
0°-40°	2176.1	51.2
0°-60°	3596.8	84.6
0°-90°	4250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1836	1835	1828	1818	1813	174
15°	1730	1734	1730	1722	1710	488
25°	1536	1548	1556	1544	1531	704
35°	1236	1253	1310	1317	1312	774
45°	957	973	1005	1051	1056	738
55°	670	681	715	754	776	598
65°	393	403	427	458	484	389
75°	158	166	178	186	197	172
85°	25	25	25	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1838.0	1838.0	1838.0	1838.0	1838.0
2.5°	1843.0	1843.7	1839.4	1828.1	1821.1
5°	1835.9	1835.2	1828.1	1818.2	1812.6
7.5°	1815.4	1816.8	1814.7	1800.6	1792.8
10°	1795.6	1796.4	1790.7	1779.4	1770.2
12.5°	1770.2	1769.5	1761.8	1756.1	1741.3
15°	1730.0	1734.2	1730.0	1722.2	1710.2
17.5°	1691.1	1691.1	1694.0	1680.6	1671.4
20°	1647.4	1649.5	1649.5	1638.9	1628.3
22.5°	1596.5	1602.9	1605.0	1593.7	1581.0
25°	1536.5	1548.5	1555.6	1544.3	1530.9
27.5°	1463.8	1482.1	1503.3	1494.8	1480.0
30°	1382.6	1409.4	1444.7	1437.6	1427.1
32.5°	1305.6	1332.4	1381.2	1378.3	1372.7
35°	1235.7	1252.6	1309.8	1316.9	1312.0
37.5°	1169.3	1184.9	1238.5	1254.8	1250.5
40°	1099.4	1116.4	1158.7	1187.7	1189.1
42.5°	1030.2	1046.5	1081.1	1122.7	1122.7
45°	956.8	973.0	1004.8	1050.7	1056.3
47.5°	884.8	901.7	932.8	978.7	987.9
50°	814.1	829.7	860.8	905.2	919.4
52.5°	740.7	757.7	788.0	829.0	849.5
55°	670.1	681.4	714.6	754.1	776.0
57.5°	596.7	607.3	644.7	678.6	701.2
60°	526.1	539.5	568.4	603.0	629.1
62.5°	458.3	472.4	497.1	527.5	557.1
65°	392.6	403.2	427.2	457.6	483.7
67.5°	329.0	338.2	362.2	383.4	411.0
70°	264.8	276.8	294.4	314.9	332.6
72.5°	213.2	218.2	233.0	247.8	266.2
75°	157.5	165.9	177.9	186.4	197.0
77.5°	113.0	117.9	125.0	132.0	141.9
80°	75.6	77.7	84.0	85.4	93.2
82.5°	45.9	47.3	48.7	49.4	52.3
85°	24.7	24.7	24.7	23.3	23.3
87.5°	14.1	14.1	12.0	9.9	7.1
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)