

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: P555529

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-81-88-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: P555529
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-LD4-3HI-40-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

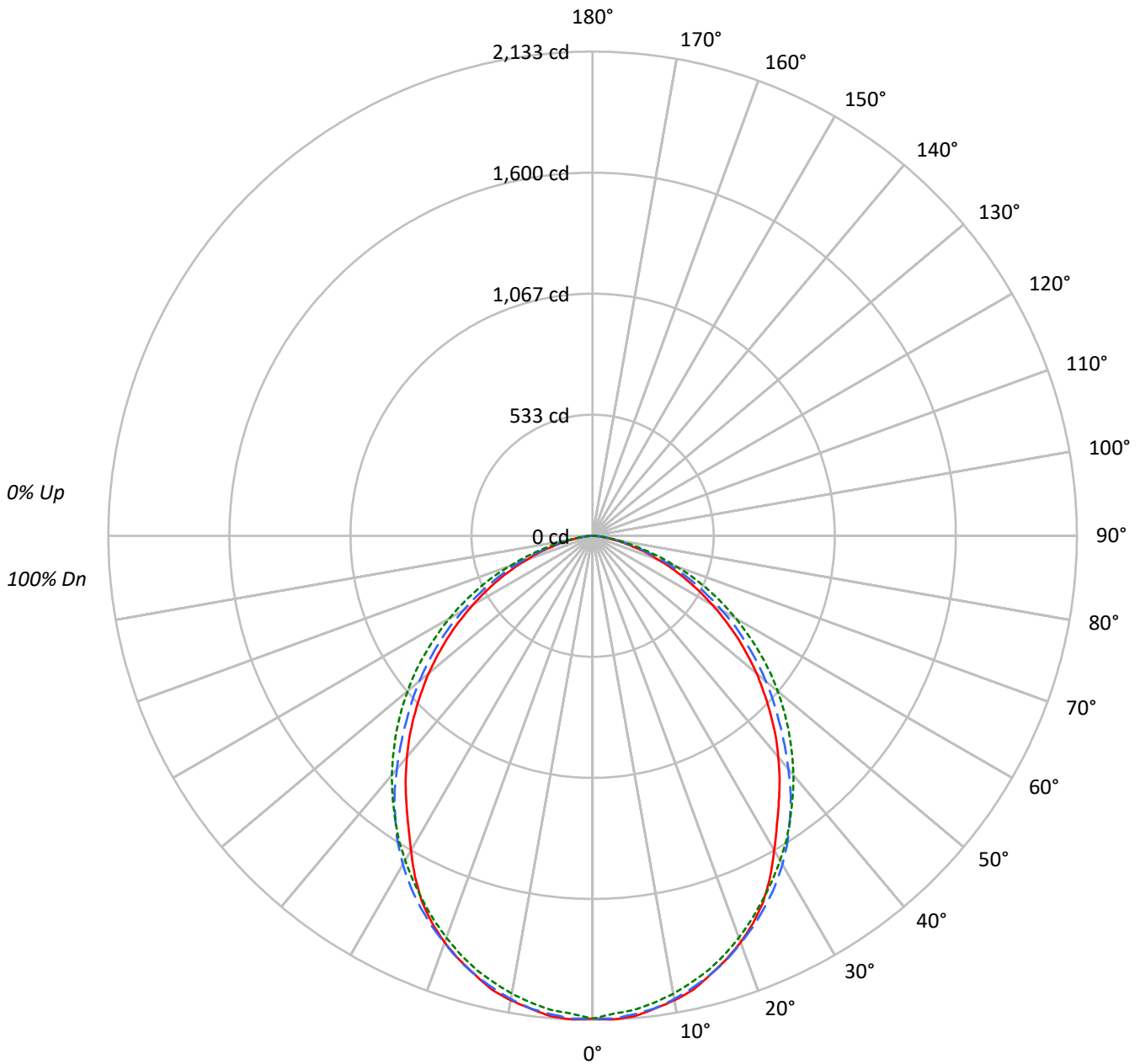
Lumens per Lamp: N/A
Luminaire Lumens: 4918.0 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	11447	11447	11447
5°	11478	11429	11332
10°	11356	11325	11195
15°	11154	11154	11027
20°	10918	10932	10791
25°	10558	10690	10520
30°	9943	10389	10263
35°	9395	9958	9975
40°	8938	9421	9667
45°	8427	8850	9304
50°	7888	8339	8908
55°	7276	7759	8426
60°	6552	7081	7836
65°	5785	6295	7128
70°	4821	5361	6057
75°	3789	4282	4741
80°	2709	3013	3344
85°	1766	1766	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	4.1
10°-20°	562.6	11.4
20°-30°	822.1	16.7
30°-40°	933.2	19.0
40°-50°	900.8	18.3
50°-60°	743.1	15.1
60°-70°	494.9	10.1
70°-80°	221.4	4.5
80°-90°	39.6	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°	1584.9	32.2
0°-40°	2518.1	51.2
0°-60°	4162.1	84.6
0°-90°	4918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2127	2127	2127	2127	2127	
5°	2124	2124	2116	2104	2098	201
15°	2002	2007	2002	1993	1979	564
25°	1778	1792	1800	1787	1772	814
35°	1430	1450	1516	1524	1518	896
45°	1107	1126	1163	1216	1222	854
55°	775	788	827	873	898	692
65°	454	467	494	530	560	450
75°	182	192	206	216	228	199
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2126.9	2126.9	2126.9	2126.9	2126.9
2.5°	2132.6	2133.4	2128.5	2115.5	2107.3
5°	2124.5	2123.6	2115.5	2104.0	2097.5
7.5°	2100.8	2102.4	2099.9	2083.6	2074.6
10°	2077.9	2078.7	2072.2	2059.1	2048.5
12.5°	2048.5	2047.6	2038.7	2032.1	2015.0
15°	2001.9	2006.8	2001.9	1992.9	1979.0
17.5°	1957.0	1957.0	1960.2	1944.7	1934.1
20°	1906.3	1908.7	1908.7	1896.5	1884.2
22.5°	1847.5	1854.8	1857.3	1844.2	1829.5
25°	1778.0	1791.9	1800.1	1787.0	1771.5
27.5°	1693.8	1715.1	1739.6	1729.8	1712.6
30°	1599.9	1630.9	1671.8	1663.6	1651.4
32.5°	1510.8	1541.9	1598.2	1595.0	1588.4
35°	1429.9	1449.5	1515.7	1523.9	1518.2
37.5°	1353.1	1371.1	1433.2	1452.0	1447.1
40°	1272.2	1291.8	1340.9	1374.4	1376.0
42.5°	1192.1	1210.9	1251.0	1299.2	1299.2
45°	1107.2	1126.0	1162.7	1215.8	1222.4
47.5°	1023.8	1043.4	1079.4	1132.5	1143.1
50°	942.1	960.1	996.0	1047.5	1063.9
52.5°	857.1	876.7	911.9	959.3	983.0
55°	775.4	788.5	826.9	872.7	898.0
57.5°	690.4	702.7	746.0	785.2	811.4
60°	608.7	624.3	657.8	697.8	728.0
62.5°	530.3	546.6	575.2	610.4	644.7
65°	454.3	466.6	494.3	529.5	559.7
67.5°	380.8	391.4	419.2	443.7	475.6
70°	306.4	320.3	340.7	364.4	384.9
72.5°	246.8	252.5	269.6	286.8	308.0
75°	182.2	192.0	205.9	215.7	228.0
77.5°	130.7	136.5	144.6	152.8	164.2
80°	87.4	89.9	97.2	98.9	107.9
82.5°	53.1	54.7	56.4	57.2	60.5
85°	28.6	28.6	28.6	27.0	27.0
87.5°	16.3	16.3	13.9	11.4	8.2
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)