

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: P556021

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-86-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: P556021
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-40-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

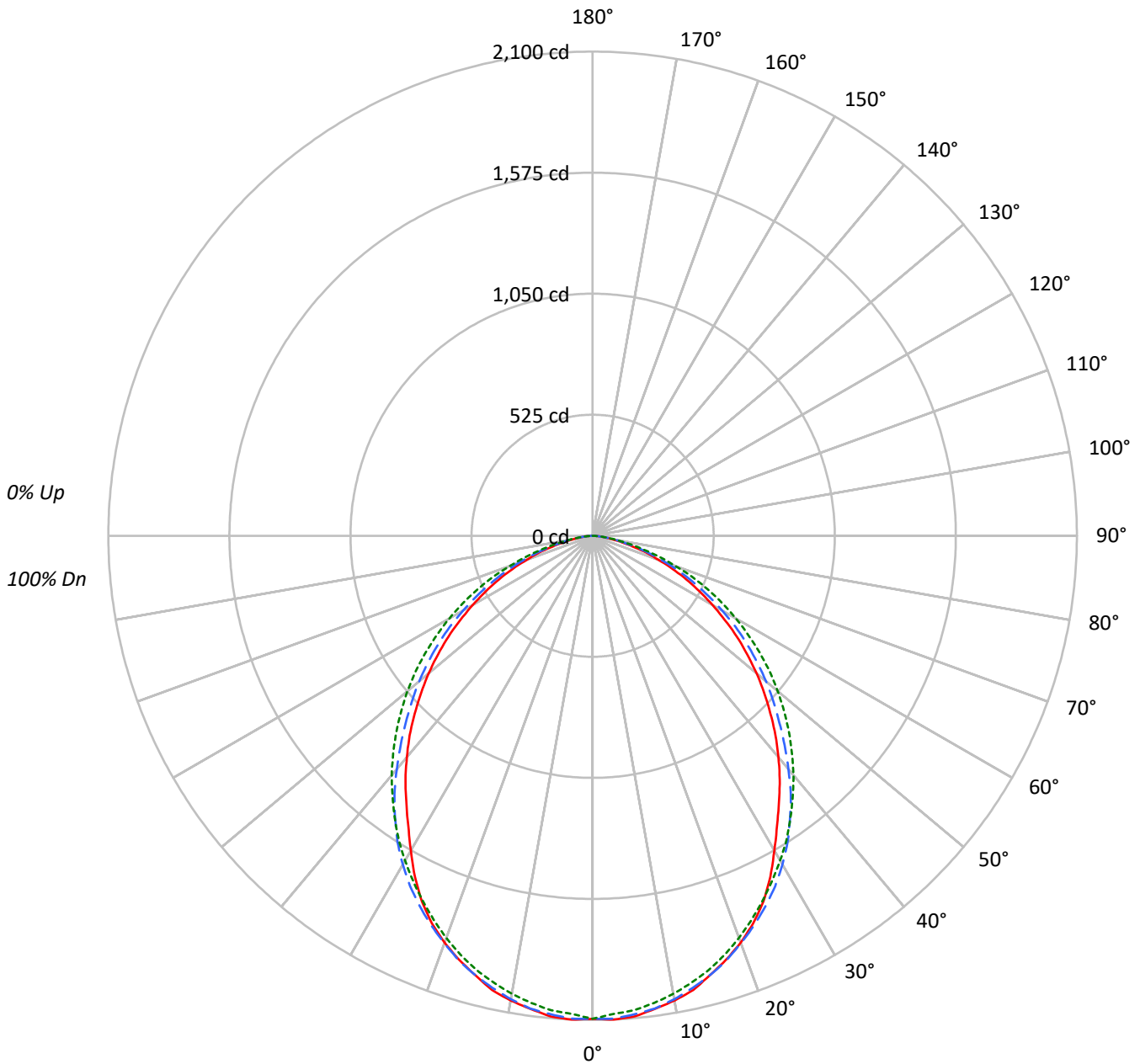
Lumens per Lamp: N/A
Luminaire Lumens: 4844.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	11275	11275	11275
5°	11305	11257	11161
10°	11185	11154	11026
15°	10986	10986	10861
20°	10754	10767	10629
25°	10400	10529	10361
30°	9793	10233	10108
35°	9253	9809	9824
40°	8804	9279	9522
45°	8300	8716	9164
50°	7769	8215	8774
55°	7167	7643	8299
60°	6454	6974	7719
65°	5699	6201	7021
70°	4749	5281	5965
75°	3733	4217	4668
80°	2669	2969	3292
85°	1741	1741	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	4.1
10°-20°	554.1	11.4
20°-30°	809.7	16.7
30°-40°	919.1	19.0
40°-50°	887.3	18.3
50°-60°	732.0	15.1
60°-70°	487.4	10.1
70°-80°	218.1	4.5
80°-90°	39.0	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°	1561.1	32.2
0°-40°	2480.2	51.2
0°-60°	4099.4	84.6
0°-90°	4844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2095	2095	2095	2095	2095	
5°	2092	2092	2084	2072	2066	198
15°	1972	1977	1972	1963	1949	556
25°	1751	1765	1773	1760	1745	802
35°	1408	1428	1493	1501	1495	882
45°	1090	1109	1145	1198	1204	841
55°	764	777	814	860	884	682
65°	448	460	487	522	551	444
75°	180	189	203	212	224	196
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2094.9	2094.9	2094.9	2094.9	2094.9
2.5°	2100.5	2101.3	2096.5	2083.6	2075.6
5°	2092.5	2091.7	2083.6	2072.4	2065.9
7.5°	2069.2	2070.8	2068.3	2052.3	2043.4
10°	2046.6	2047.4	2041.0	2028.1	2017.6
12.5°	2017.6	2016.8	2008.0	2001.5	1984.6
15°	1971.8	1976.6	1971.8	1962.9	1949.2
17.5°	1927.5	1927.5	1930.7	1915.4	1905.0
20°	1877.6	1880.0	1880.0	1868.0	1855.9
22.5°	1819.7	1826.9	1829.3	1816.4	1802.0
25°	1751.3	1764.9	1773.0	1760.1	1744.8
27.5°	1668.4	1689.3	1713.4	1703.8	1686.9
30°	1575.8	1606.4	1646.6	1638.6	1626.5
32.5°	1488.1	1518.7	1574.2	1571.0	1564.5
35°	1408.4	1427.7	1492.9	1501.0	1495.3
37.5°	1332.8	1350.5	1411.6	1430.1	1425.3
40°	1253.1	1272.4	1320.7	1353.7	1355.3
42.5°	1174.2	1192.7	1232.2	1279.6	1279.6
45°	1090.5	1109.0	1145.2	1197.5	1204.0
47.5°	1008.4	1027.7	1063.1	1115.5	1125.9
50°	927.9	945.6	981.1	1031.8	1047.9
52.5°	844.2	863.6	898.2	944.8	968.2
55°	763.8	776.6	814.5	859.5	884.5
57.5°	680.1	692.1	734.8	773.4	799.2
60°	599.6	614.9	647.9	687.3	717.1
62.5°	522.3	538.4	566.6	601.2	635.0
65°	447.5	459.5	486.9	521.5	551.3
67.5°	375.0	385.5	412.9	437.0	468.4
70°	301.8	315.5	335.6	358.9	379.1
72.5°	243.1	248.7	265.6	282.5	303.4
75°	179.5	189.1	202.8	212.5	224.5
77.5°	128.8	134.4	142.5	150.5	161.8
80°	86.1	88.5	95.8	97.4	106.2
82.5°	52.3	53.9	55.5	56.3	59.6
85°	28.2	28.2	28.2	26.6	26.6
87.5°	16.1	16.1	13.7	11.3	8.0
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)