

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: P557275

Luminaire Tested: **FUSL-12-4-LD4-2LO-35-UNV-82-94-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: P557275
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-12-4-LD4-2LO-35-UNV-82-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

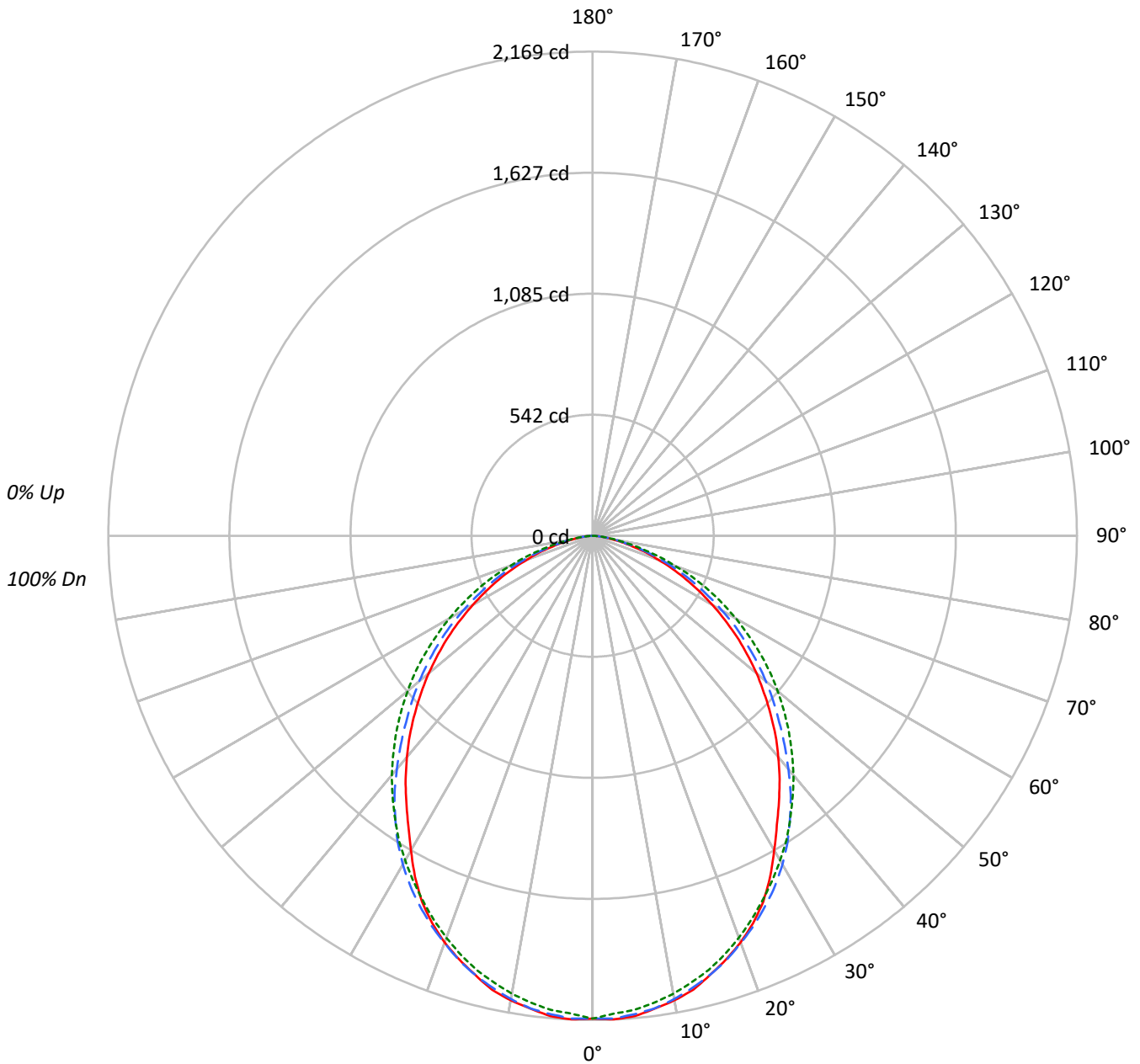
Lumens per Lamp: N/A
Luminaire Lumens: 5001.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	5820	5820	5820
5°	5836	5811	5762
10°	5774	5758	5692
15°	5671	5671	5606
20°	5551	5558	5487
25°	5368	5435	5349
30°	5055	5282	5218
35°	4777	5063	5072
40°	4545	4790	4915
45°	4285	4500	4730
50°	4011	4240	4529
55°	3699	3945	4284
60°	3331	3600	3984
65°	2942	3201	3624
70°	2452	2726	3079
75°	1927	2177	2410
80°	1378	1533	1700
85°	898	898	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	4.1
10°-20°	572.1	11.4
20°-30°	836.0	16.7
30°-40°	948.9	19.0
40°-50°	916.0	18.3
50°-60°	755.7	15.1
60°-70°	503.2	10.1
70°-80°	225.2	4.5
80°-90°	40.3	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°	1611.7	32.2
0°-40°	2560.6	51.2
0°-60°	4232.3	84.6
0°-90°	5001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2160	2160	2151	2140	2133	204
15°	2036	2041	2036	2026	2012	574
25°	1808	1822	1830	1817	1801	828
35°	1454	1474	1541	1550	1544	911
45°	1126	1145	1182	1236	1243	869
55°	788	802	841	887	913	704
65°	462	474	503	538	569	458
75°	185	195	209	219	232	203
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°	2162.8	2162.8	2162.8	2162.8	2162.8
2.5°	2168.6	2169.5	2164.5	2151.2	2142.9
5°	2160.3	2159.5	2151.2	2139.5	2132.9
7.5°	2136.2	2137.9	2135.4	2118.8	2109.6
10°	2113.0	2113.8	2107.1	2093.8	2083.0
12.5°	2083.0	2082.2	2073.1	2066.4	2049.0
15°	2035.7	2040.7	2035.7	2026.5	2012.4
17.5°	1990.0	1990.0	1993.3	1977.5	1966.7
20°	1938.5	1941.0	1941.0	1928.5	1916.0
22.5°	1878.6	1886.1	1888.6	1875.3	1860.4
25°	1808.0	1822.1	1830.4	1817.2	1801.4
27.5°	1722.4	1744.0	1769.0	1759.0	1741.5
30°	1626.9	1658.5	1700.0	1691.7	1679.2
32.5°	1536.3	1567.9	1625.2	1621.9	1615.2
35°	1454.1	1474.0	1541.3	1549.6	1543.8
37.5°	1376.0	1394.2	1457.4	1476.5	1471.5
40°	1293.7	1313.6	1363.5	1397.6	1399.2
42.5°	1212.3	1231.4	1272.1	1321.1	1321.1
45°	1125.9	1145.0	1182.4	1236.4	1243.0
47.5°	1041.1	1061.0	1097.6	1151.6	1162.4
50°	958.0	976.3	1012.9	1065.2	1081.8
52.5°	871.6	891.5	927.3	975.5	999.6
55°	788.5	801.8	840.9	887.4	913.1
57.5°	702.1	714.6	758.6	798.5	825.1
60°	619.0	634.8	668.9	709.6	740.3
62.5°	539.2	555.9	584.9	620.7	655.6
65°	462.0	474.4	502.7	538.4	569.2
67.5°	387.2	398.0	426.2	451.2	483.6
70°	311.6	325.7	346.5	370.6	391.3
72.5°	250.9	256.7	274.2	291.6	313.2
75°	185.3	195.3	209.4	219.4	231.8
77.5°	132.9	138.8	147.1	155.4	167.0
80°	88.9	91.4	98.9	100.5	109.7
82.5°	54.0	55.7	57.3	58.2	61.5
85°	29.1	29.1	29.1	27.4	27.4
87.5°	16.6	16.6	14.1	11.6	8.3
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)