

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: P557247

Luminaire Tested: **FUSL-12-4-LD4-2LO-35-UNV-80-97-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: P557247
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-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

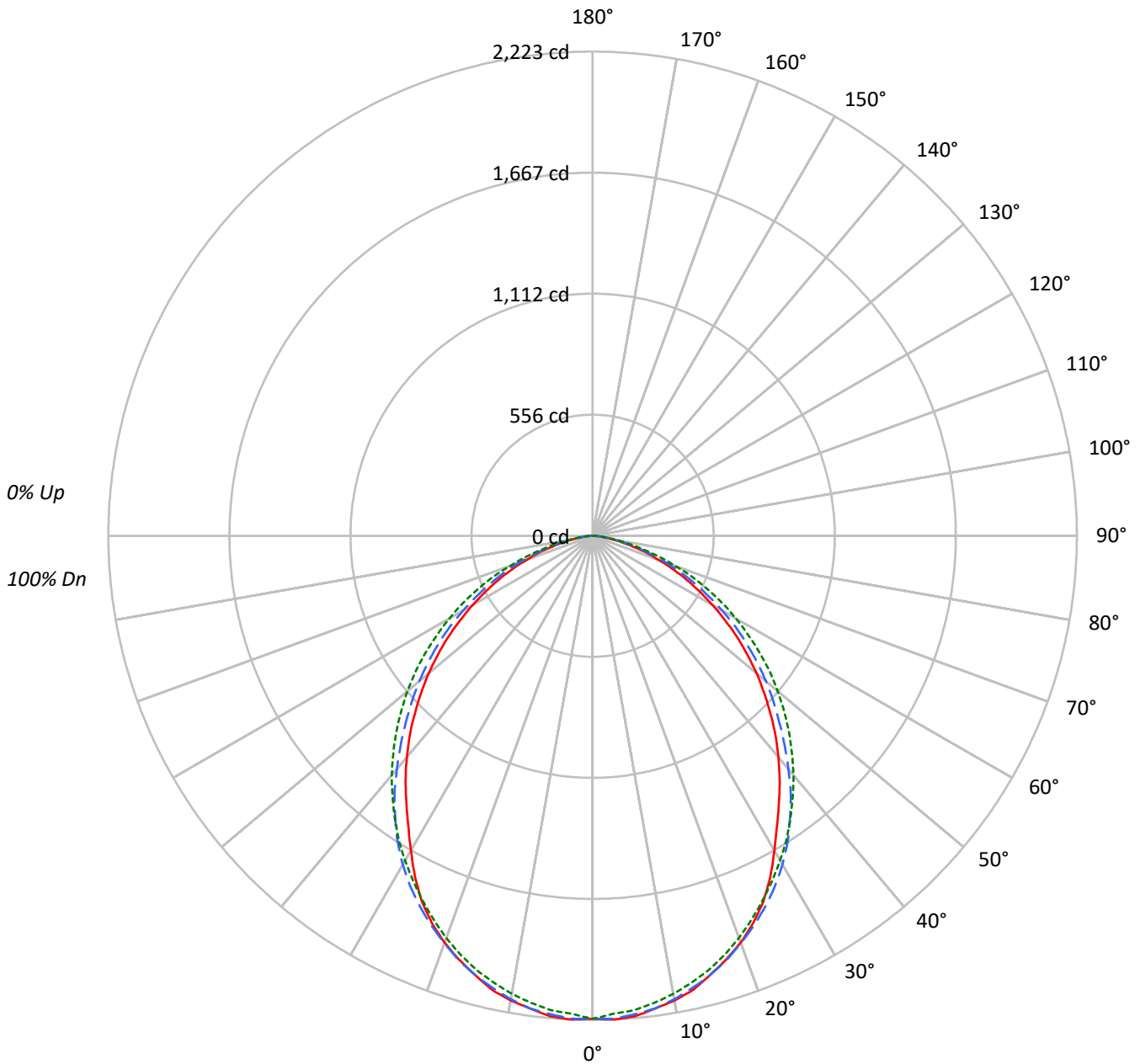
Lumens per Lamp: N/A
Luminaire Lumens: 5127.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5967	5967	5967
5°	5982	5957	5907
10°	5919	5903	5835
15°	5814	5814	5748
20°	5691	5698	5625
25°	5504	5572	5483
30°	5183	5415	5349
35°	4897	5191	5199
40°	4659	4910	5039
45°	4392	4613	4849
50°	4112	4347	4643
55°	3793	4044	4392
60°	3415	3690	4085
65°	3016	3282	3715
70°	2513	2795	3157
75°	1975	2232	2471
80°	1412	1571	1742
85°	920	920	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	4.1
10°-20°	586.5	11.4
20°-30°	857.0	16.7
30°-40°	972.8	19.0
40°-50°	939.1	18.3
50°-60°	774.7	15.1
60°-70°	515.9	10.1
70°-80°	230.9	4.5
80°-90°	41.3	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°	1652.3	32.2
0°-40°	2625.1	51.2
0°-60°	4338.9	84.6
0°-90°	5127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2217	2217	2217	2217	2217	
5°	2215	2214	2205	2193	2187	210
15°	2087	2092	2087	2078	2063	588
25°	1854	1868	1877	1863	1847	849
35°	1491	1511	1580	1589	1583	934
45°	1154	1174	1212	1268	1274	891
55°	808	822	862	910	936	722
65°	474	486	515	552	584	470
75°	190	200	215	225	238	208
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2217.3	2217.3	2217.3	2217.3	2217.3
2.5°	2223.3	2224.1	2219.0	2205.4	2196.9
5°	2214.7	2213.9	2205.4	2193.4	2186.6
7.5°	2190.0	2191.7	2189.2	2172.1	2162.8
10°	2166.2	2167.0	2160.2	2146.6	2135.5
12.5°	2135.5	2134.7	2125.3	2118.5	2100.6
15°	2087.0	2092.1	2087.0	2077.6	2063.1
17.5°	2040.1	2040.1	2043.5	2027.3	2016.3
20°	1987.3	1989.9	1989.9	1977.1	1964.3
22.5°	1926.0	1933.6	1936.2	1922.6	1907.2
25°	1853.6	1868.0	1876.6	1862.9	1846.8
27.5°	1765.8	1788.0	1813.5	1803.3	1785.4
30°	1667.9	1700.2	1742.8	1734.3	1721.5
32.5°	1575.0	1607.4	1666.2	1662.8	1655.9
35°	1490.7	1511.1	1580.1	1588.6	1582.7
37.5°	1410.6	1429.4	1494.1	1513.7	1508.6
40°	1326.3	1346.7	1397.8	1432.8	1434.5
42.5°	1242.8	1262.4	1304.1	1354.4	1354.4
45°	1154.2	1173.8	1212.1	1267.5	1274.3
47.5°	1067.3	1087.8	1125.3	1180.6	1191.7
50°	982.2	1000.9	1038.4	1092.0	1109.1
52.5°	893.6	914.0	950.6	1000.0	1024.7
55°	808.4	822.0	862.0	909.7	936.2
57.5°	719.8	732.6	777.7	818.6	845.9
60°	634.6	650.8	685.7	727.5	759.0
62.5°	552.8	569.9	599.7	636.3	672.1
65°	473.6	486.4	515.4	552.0	583.5
67.5°	396.9	408.0	437.0	462.5	495.8
70°	319.4	333.9	355.2	379.9	401.2
72.5°	257.3	263.2	281.1	299.0	321.1
75°	190.0	200.2	214.7	224.9	237.7
77.5°	136.3	142.3	150.8	159.3	171.2
80°	91.1	93.7	101.4	103.1	112.4
82.5°	55.4	57.1	58.8	59.6	63.0
85°	29.8	29.8	29.8	28.1	28.1
87.5°	17.0	17.0	14.5	11.9	8.5
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)