

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: P557374

Luminaire Tested: **FUSL-12-4-LD4-2LO-50-UNV-80-97-EDD-90**

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: P557374
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-50-UNV-80-97-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

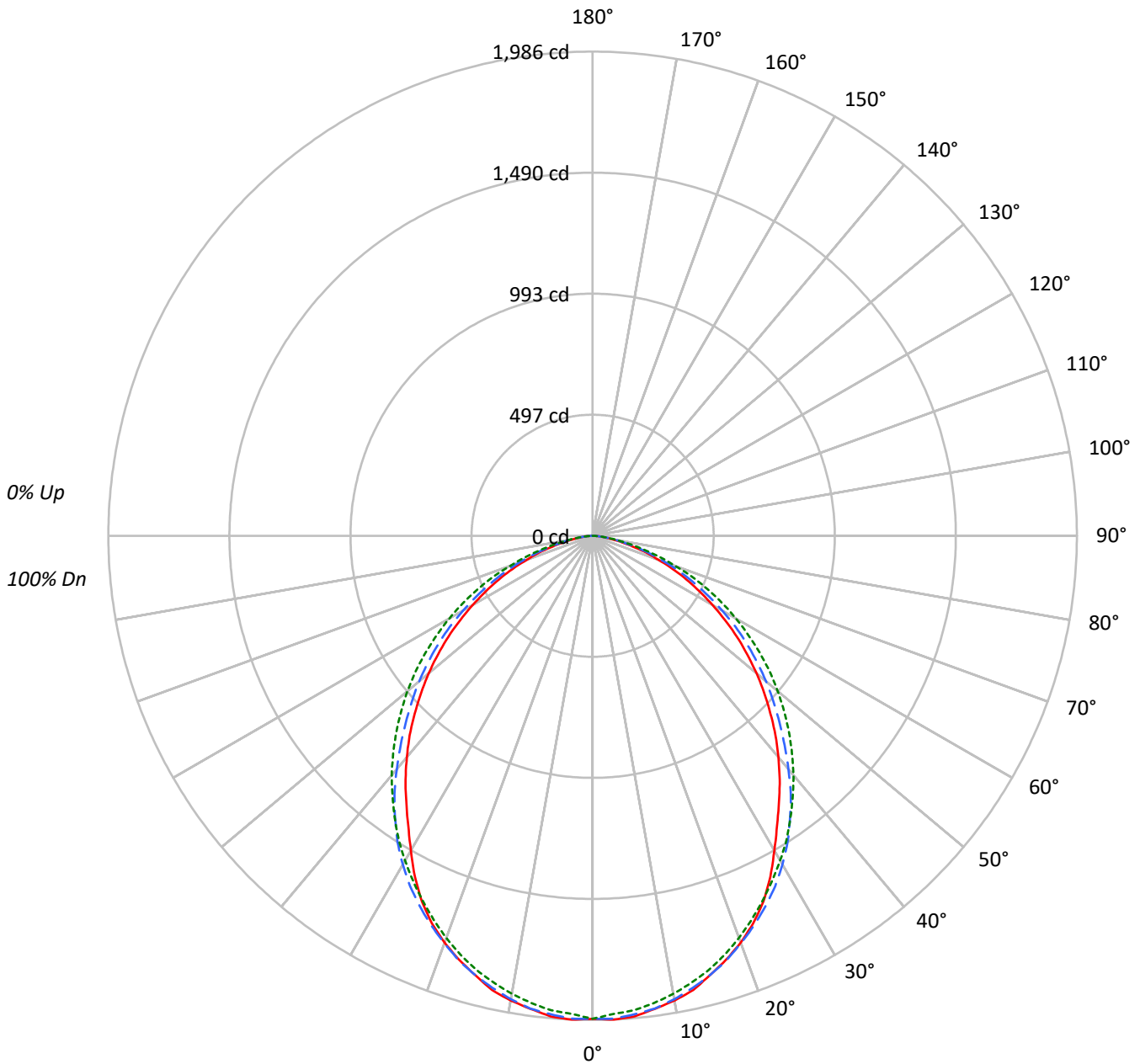
Lumens per Lamp: N/A
Luminaire Lumens: 4581.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5331	5331	5331
5°	5346	5323	5278
10°	5289	5274	5214
15°	5195	5195	5136
20°	5085	5091	5026
25°	4918	4978	4899
30°	4630	4839	4780
35°	4375	4638	4645
40°	4163	4388	4502
45°	3925	4122	4333
50°	3674	3884	4149
55°	3389	3613	3925
60°	3052	3298	3650
65°	2695	2932	3320
70°	2245	2497	2821
75°	1764	1994	2207
80°	1261	1404	1557
85°	821	821	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	4.1
10°-20°	524.0	11.4
20°-30°	765.8	16.7
30°-40°	869.2	19.0
40°-50°	839.1	18.3
50°-60°	692.2	15.1
60°-70°	461.0	10.1
70°-80°	206.3	4.5
80°-90°	36.9	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°	1476.3	32.2
0°-40°	2345.6	51.2
0°-60°	3876.9	84.6
0°-90°	4581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1981	1981	1981	1981	1981	
5°	1979	1978	1970	1960	1954	187
15°	1865	1869	1865	1856	1843	526
25°	1656	1669	1677	1664	1650	758
35°	1332	1350	1412	1420	1414	835
45°	1031	1049	1083	1132	1139	796
55°	722	734	770	813	836	645
65°	423	435	460	493	521	420
75°	170	179	192	201	212	186
85°	27	27	27	25	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1981.2	1981.2	1981.2	1981.2	1981.2
2.5°	1986.5	1987.3	1982.7	1970.5	1962.9
5°	1978.9	1978.1	1970.5	1959.9	1953.8
7.5°	1956.8	1958.3	1956.0	1940.8	1932.5
10°	1935.5	1936.3	1930.2	1918.0	1908.1
12.5°	1908.1	1907.3	1899.0	1892.9	1876.9
15°	1864.7	1869.3	1864.7	1856.3	1843.4
17.5°	1822.9	1822.9	1825.9	1811.4	1801.5
20°	1775.7	1777.9	1777.9	1766.5	1755.1
22.5°	1720.9	1727.7	1730.0	1717.8	1704.1
25°	1656.2	1669.1	1676.7	1664.5	1650.1
27.5°	1577.8	1597.6	1620.4	1611.3	1595.3
30°	1490.2	1519.2	1557.2	1549.6	1538.2
32.5°	1407.3	1436.2	1488.7	1485.7	1479.6
35°	1331.9	1350.2	1411.9	1419.5	1414.1
37.5°	1260.4	1277.1	1335.0	1352.5	1347.9
40°	1185.0	1203.3	1249.0	1280.2	1281.7
42.5°	1110.5	1128.0	1165.3	1210.2	1210.2
45°	1031.3	1048.8	1083.1	1132.5	1138.6
47.5°	953.7	971.9	1005.4	1054.9	1064.8
50°	877.6	894.3	927.8	975.7	991.0
52.5°	798.4	816.7	849.4	893.5	915.6
55°	722.3	734.5	770.2	812.9	836.5
57.5°	643.1	654.6	694.9	731.4	755.8
60°	567.0	581.5	612.7	650.0	678.1
62.5°	494.0	509.2	535.8	568.5	600.5
65°	423.2	434.6	460.5	493.2	521.4
67.5°	354.7	364.6	390.4	413.3	443.0
70°	285.4	298.4	317.4	339.5	358.5
72.5°	229.9	235.2	251.2	267.1	286.9
75°	169.7	178.9	191.8	200.9	212.3
77.5°	121.8	127.1	134.7	142.3	153.0
80°	81.4	83.7	90.6	92.1	100.5
82.5°	49.5	51.0	52.5	53.3	56.3
85°	26.6	26.6	26.6	25.1	25.1
87.5°	15.2	15.2	12.9	10.7	7.6
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)