

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: P555576

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-80-88-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: P555576
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-50-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

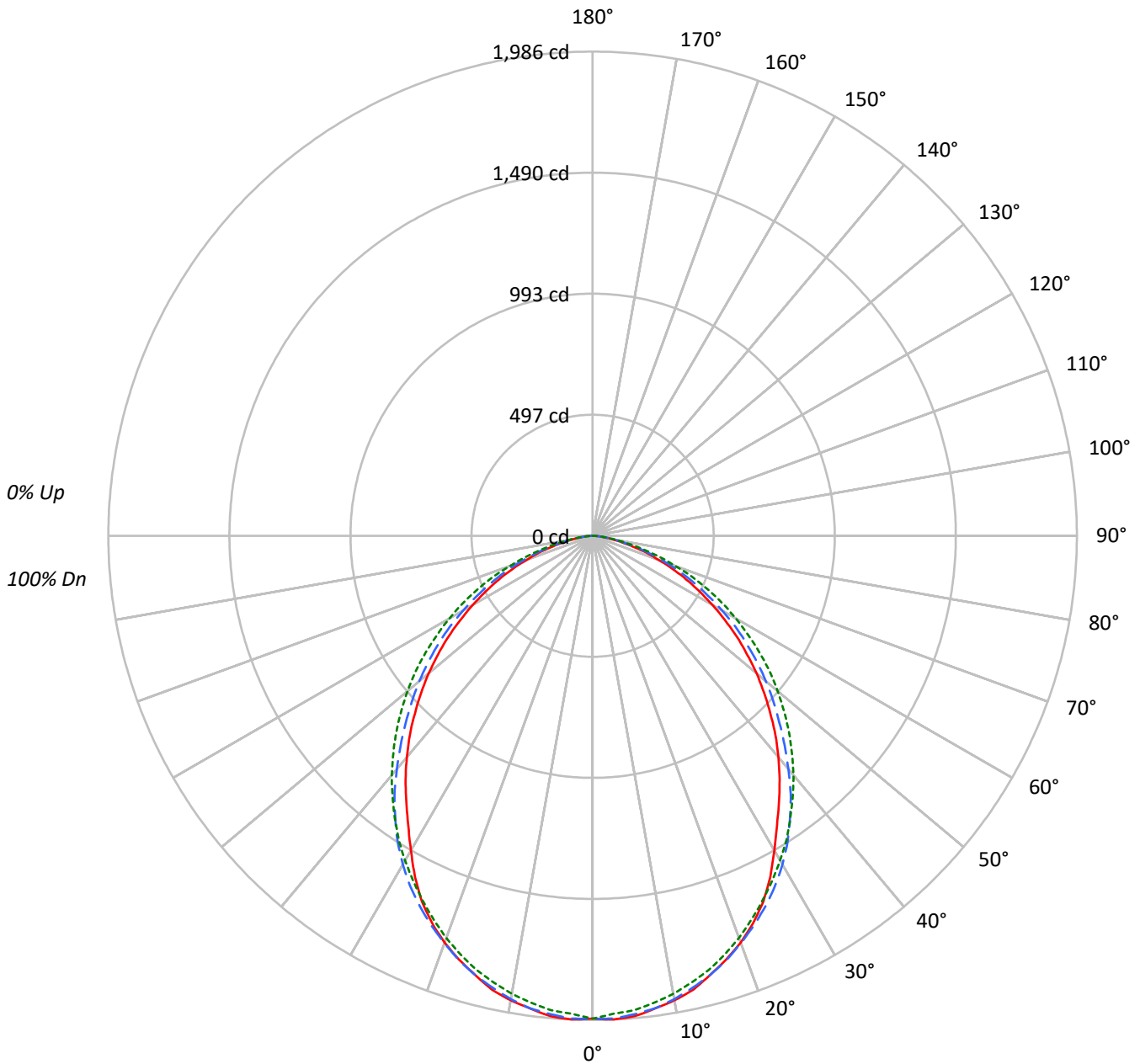
Lumens per Lamp: N/A
Luminaire Lumens: 4580.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-88-EDD-90

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10660	10660	10660
5°	10688	10643	10553
10°	10575	10546	10426
15°	10388	10388	10269
20°	10168	10181	10050
25°	9833	9955	9796
30°	9259	9675	9557
35°	8749	9274	9289
40°	8324	8773	9003
45°	7848	8241	8665
50°	7346	7767	8295
55°	6776	7226	7847
60°	6102	6594	7298
65°	5388	5863	6637
70°	4491	4993	5640
75°	3529	3988	4415
80°	2523	2808	3112
85°	1643	1643	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	4.1
10°-20°	523.9	11.4
20°-30°	765.6	16.7
30°-40°	869.0	19.0
40°-50°	838.9	18.3
50°-60°	692.1	15.1
60°-70°	460.9	10.1
70°-80°	206.2	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°	1476.0	32.2
0°-40°	2345.0	51.2
0°-60°	3876.0	84.6
0°-90°	4580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1981	1981	1981	1981	1981	
5°	1978	1978	1970	1959	1953	187
15°	1864	1869	1864	1856	1843	526
25°	1656	1669	1676	1664	1650	758
35°	1332	1350	1412	1419	1414	834
45°	1031	1049	1083	1132	1138	796
55°	722	734	770	813	836	645
65°	423	434	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°	1980.7	1980.7	1980.7	1980.7	1980.7
2.5°	1986.1	1986.8	1982.3	1970.1	1962.5
5°	1978.4	1977.7	1970.1	1959.4	1953.3
7.5°	1956.4	1957.9	1955.6	1940.4	1932.0
10°	1935.1	1935.8	1929.7	1917.6	1907.7
12.5°	1907.7	1906.9	1898.5	1892.5	1876.5
15°	1864.3	1868.9	1864.3	1855.9	1843.0
17.5°	1822.5	1822.5	1825.5	1811.0	1801.1
20°	1775.3	1777.6	1777.6	1766.1	1754.7
22.5°	1720.5	1727.3	1729.6	1717.4	1703.7
25°	1655.8	1668.7	1676.4	1664.2	1649.7
27.5°	1577.4	1597.2	1620.0	1610.9	1594.9
30°	1489.9	1518.8	1556.9	1549.3	1537.9
32.5°	1407.0	1435.9	1488.4	1485.4	1479.3
35°	1331.6	1349.9	1411.5	1419.2	1413.8
37.5°	1260.1	1276.9	1334.7	1352.2	1347.6
40°	1184.8	1203.0	1248.7	1279.9	1281.4
42.5°	1110.2	1127.7	1165.0	1209.9	1209.9
45°	1031.1	1048.6	1082.8	1132.3	1138.4
47.5°	953.5	971.7	1005.2	1054.7	1064.6
50°	877.4	894.1	927.6	975.5	990.7
52.5°	798.2	816.5	849.2	893.3	915.4
55°	722.1	734.3	770.1	812.7	836.3
57.5°	643.0	654.4	694.7	731.3	755.6
60°	566.9	581.4	612.6	649.8	678.0
62.5°	493.9	509.1	535.7	568.4	600.4
65°	423.1	434.5	460.4	493.1	521.2
67.5°	354.6	364.5	390.4	413.2	442.9
70°	285.4	298.3	317.3	339.4	358.4
72.5°	229.8	235.1	251.1	267.1	286.9
75°	169.7	178.8	191.8	200.9	212.3
77.5°	121.8	127.1	134.7	142.3	152.9
80°	81.4	83.7	90.6	92.1	100.4
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)