

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: P555951

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-97-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: P555951
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-30-UNV-93-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

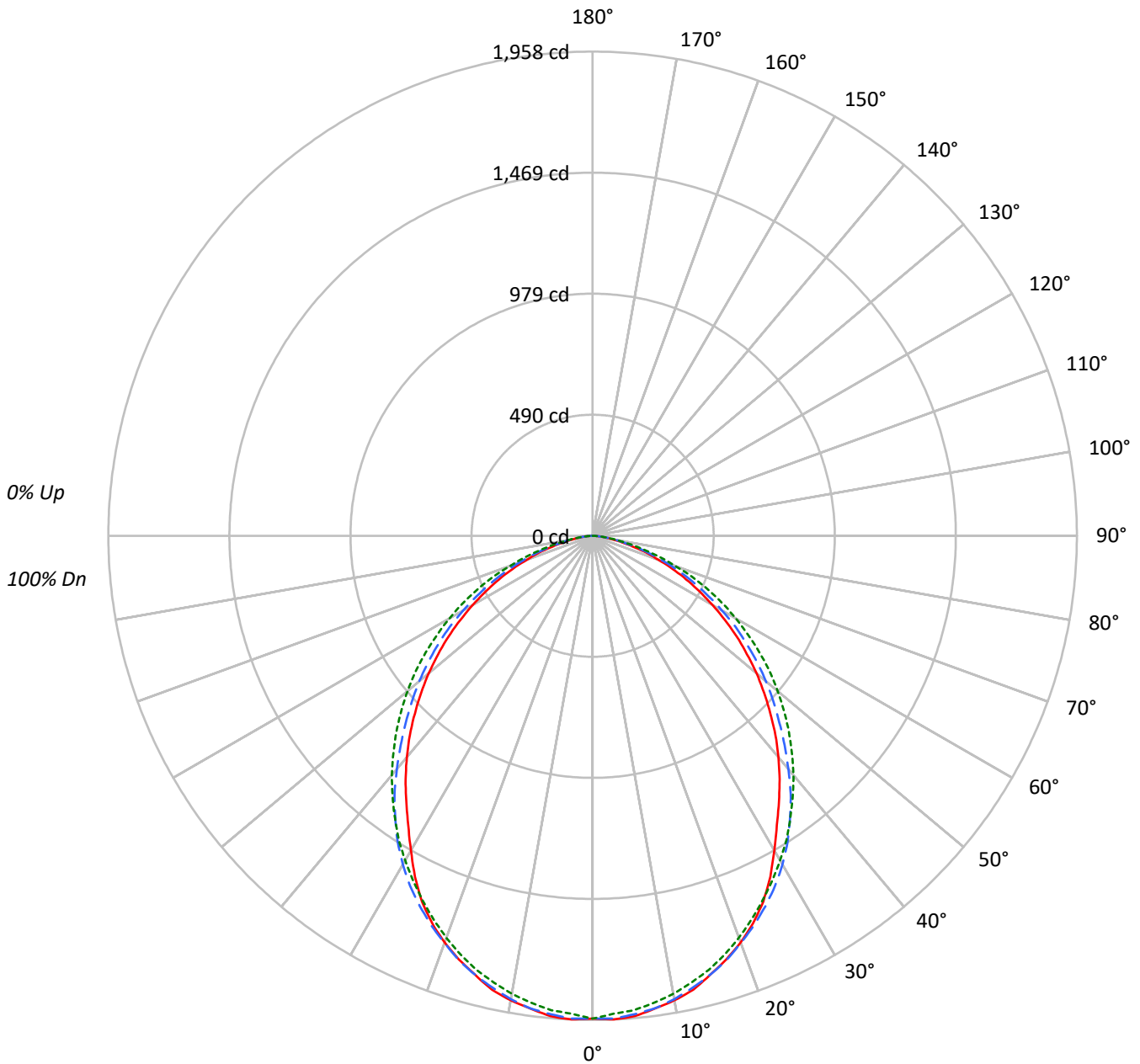
Lumens per Lamp: N/A
Luminaire Lumens: 4515.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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					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°	10509	10509	10509
5°	10537	10492	10403
10°	10425	10397	10277
15°	10240	10240	10123
20°	10023	10036	9907
25°	9693	9814	9658
30°	9128	9538	9421
35°	8625	9142	9157
40°	8206	8649	8875
45°	7736	8125	8541
50°	7242	7656	8178
55°	6680	7123	7735
60°	6016	6500	7195
65°	5312	5779	6543
70°	4426	4922	5559
75°	3479	3930	4352
80°	2489	2768	3068
85°	1624	1624	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	4.1
10°-20°	516.5	11.4
20°-30°	754.7	16.7
30°-40°	856.7	19.0
40°-50°	827.0	18.3
50°-60°	682.2	15.1
60°-70°	454.3	10.1
70°-80°	203.3	4.5
80°-90°	36.4	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°	1455.1	32.2
0°-40°	2311.8	51.2
0°-60°	3821.0	84.6
0°-90°	4515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1953	1953	1953	1953	1953	
5°	1950	1950	1942	1932	1926	185
15°	1838	1842	1838	1830	1817	518
25°	1632	1645	1653	1641	1626	748
35°	1313	1331	1392	1399	1394	823
45°	1016	1034	1068	1116	1122	784
55°	712	724	759	801	824	635
65°	417	428	454	486	514	414
75°	167	176	189	198	209	183
85°	26	26	26	25	25	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1952.6	1952.6	1952.6	1952.6	1952.6
2.5°	1957.9	1958.6	1954.1	1942.1	1934.6
5°	1950.4	1949.6	1942.1	1931.6	1925.6
7.5°	1928.6	1930.1	1927.9	1912.9	1904.6
10°	1907.6	1908.4	1902.4	1890.4	1880.6
12.5°	1880.6	1879.9	1871.6	1865.6	1849.9
15°	1837.8	1842.3	1837.8	1829.6	1816.8
17.5°	1796.6	1796.6	1799.6	1785.3	1775.6
20°	1750.1	1752.3	1752.3	1741.1	1729.8
22.5°	1696.1	1702.8	1705.1	1693.1	1679.6
25°	1632.3	1645.1	1652.6	1640.6	1626.3
27.5°	1555.0	1574.5	1597.1	1588.1	1572.3
30°	1468.8	1497.3	1534.8	1527.3	1516.0
32.5°	1387.0	1415.5	1467.3	1464.3	1458.3
35°	1312.7	1330.8	1391.5	1399.0	1393.8
37.5°	1242.2	1258.7	1315.7	1333.0	1328.5
40°	1168.0	1186.0	1231.0	1261.7	1263.2
42.5°	1094.5	1111.7	1148.5	1192.7	1192.7
45°	1016.4	1033.7	1067.5	1116.2	1122.2
47.5°	939.9	957.9	990.9	1039.7	1049.4
50°	864.9	881.4	914.4	961.7	976.7
52.5°	786.9	804.9	837.2	880.7	902.4
55°	711.9	723.9	759.1	801.2	824.4
57.5°	633.9	645.1	684.9	720.9	744.9
60°	558.9	573.1	603.9	640.6	668.4
62.5°	486.8	501.8	528.1	560.4	591.9
65°	417.1	428.3	453.8	486.1	513.8
67.5°	349.6	359.3	384.8	407.3	436.6
70°	281.3	294.1	312.8	334.6	353.3
72.5°	226.5	231.8	247.5	263.3	282.8
75°	167.3	176.3	189.0	198.0	209.3
77.5°	120.0	125.3	132.8	140.3	150.8
80°	80.3	82.5	89.3	90.8	99.0
82.5°	48.8	50.3	51.8	52.5	55.5
85°	26.3	26.3	26.3	24.8	24.8
87.5°	15.0	15.0	12.8	10.5	7.5
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)