

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: P555476

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-86-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: P555476
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-35-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

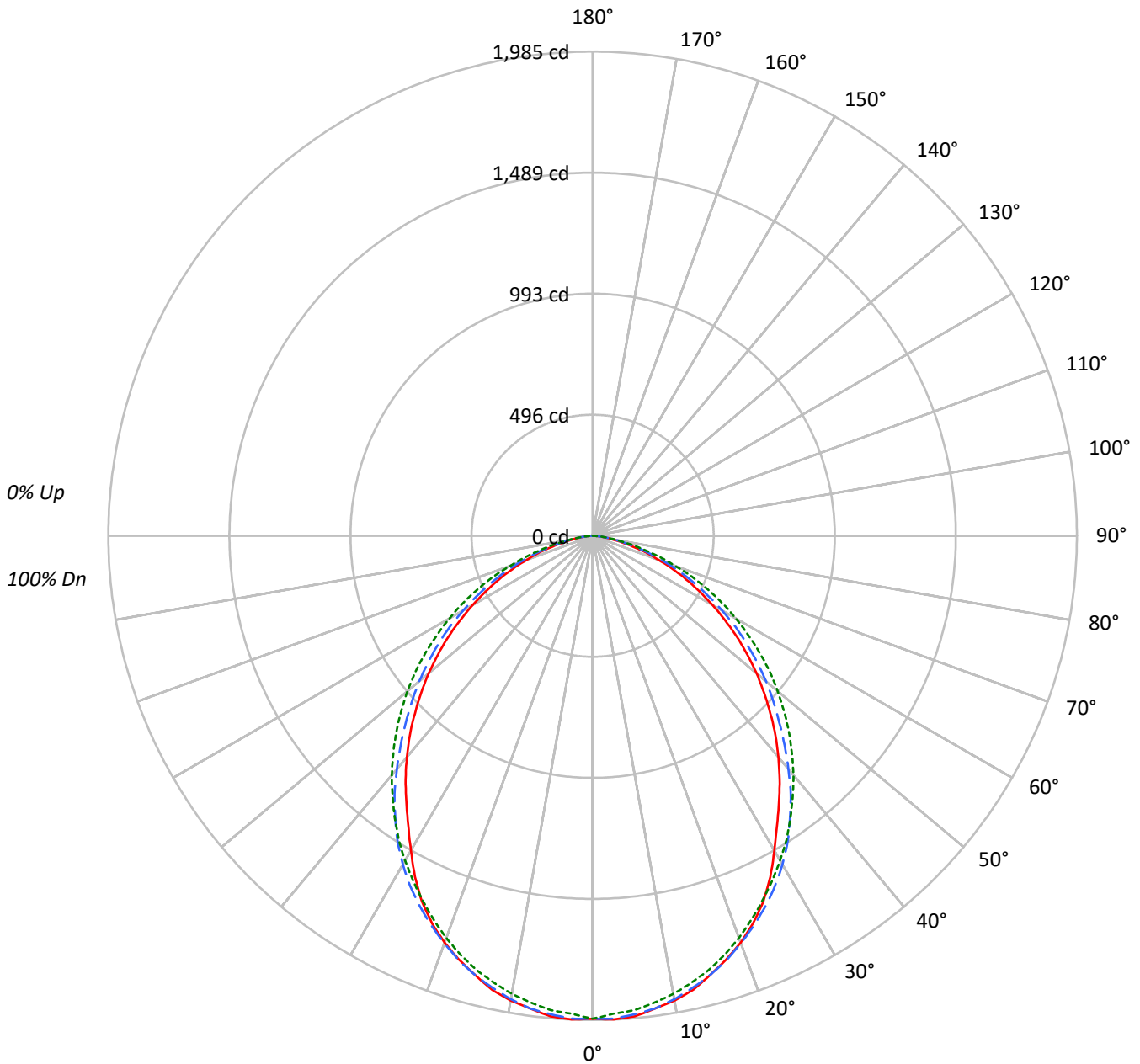
Lumens per Lamp: N/A
Luminaire Lumens: 4578.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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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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°	10656	10656	10656
5°	10684	10639	10548
10°	10570	10541	10421
15°	10383	10383	10264
20°	10163	10176	10046
25°	9829	9950	9792
30°	9255	9671	9553
35°	8746	9270	9285
40°	8320	8769	8999
45°	7844	8238	8661
50°	7343	7763	8292
55°	6773	7222	7843
60°	6100	6591	7295
65°	5386	5861	6635
70°	4488	4991	5637
75°	3527	3986	4413
80°	2523	2805	3112
85°	1643	1643	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	4.1
10°-20°	523.7	11.4
20°-30°	765.3	16.7
30°-40°	868.7	19.0
40°-50°	838.6	18.3
50°-60°	691.7	15.1
60°-70°	460.7	10.1
70°-80°	206.1	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°	1475.4	32.2
0°-40°	2344.0	51.2
0°-60°	3874.3	84.6
0°-90°	4578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1978	1977	1969	1959	1952	187
15°	1864	1868	1864	1855	1842	525
25°	1655	1668	1676	1664	1649	758
35°	1331	1349	1411	1418	1413	834
45°	1031	1048	1082	1132	1138	795
55°	722	734	770	812	836	644
65°	423	434	460	493	521	419
75°	170	179	192	201	212	185
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°	1979.9	1979.9	1979.9	1979.9	1979.9
2.5°	1985.2	1986.0	1981.4	1969.2	1961.6
5°	1977.6	1976.8	1969.2	1958.6	1952.5
7.5°	1955.5	1957.0	1954.8	1939.6	1931.2
10°	1934.2	1935.0	1928.9	1916.7	1906.8
12.5°	1906.8	1906.1	1897.7	1891.6	1875.7
15°	1863.5	1868.1	1863.5	1855.1	1842.2
17.5°	1821.7	1821.7	1824.7	1810.3	1800.4
20°	1774.5	1776.8	1776.8	1765.4	1754.0
22.5°	1719.7	1726.6	1728.9	1716.7	1703.0
25°	1655.1	1668.0	1675.6	1663.5	1649.0
27.5°	1576.7	1596.5	1619.3	1610.2	1594.2
30°	1489.3	1518.2	1556.2	1548.6	1537.2
32.5°	1406.4	1435.3	1487.8	1484.7	1478.6
35°	1331.1	1349.3	1410.9	1418.5	1413.2
37.5°	1259.6	1276.3	1334.1	1351.6	1347.0
40°	1184.3	1202.5	1248.2	1279.3	1280.9
42.5°	1109.7	1127.2	1164.5	1209.4	1209.4
45°	1030.6	1048.1	1082.3	1131.8	1137.9
47.5°	953.0	971.3	1004.8	1054.2	1064.1
50°	877.0	893.7	927.2	975.1	990.3
52.5°	797.9	816.1	848.8	893.0	915.0
55°	721.8	734.0	769.7	812.3	835.9
57.5°	642.7	654.1	694.4	730.9	755.3
60°	566.7	581.1	612.3	649.6	677.7
62.5°	493.6	508.8	535.5	568.2	600.1
65°	422.9	434.3	460.2	492.9	521.0
67.5°	354.4	364.3	390.2	413.0	442.7
70°	285.2	298.2	317.2	339.2	358.2
72.5°	229.7	235.0	251.0	267.0	286.7
75°	169.6	178.7	191.7	200.8	212.2
77.5°	121.7	127.0	134.6	142.2	152.9
80°	81.4	83.7	90.5	92.0	100.4
82.5°	49.4	51.0	52.5	53.2	56.3
85°	26.6	26.6	26.6	25.1	25.1
87.5°	15.2	15.2	12.9	10.6	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)