

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: P555390

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-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: P555390
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-30-UNV-80-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

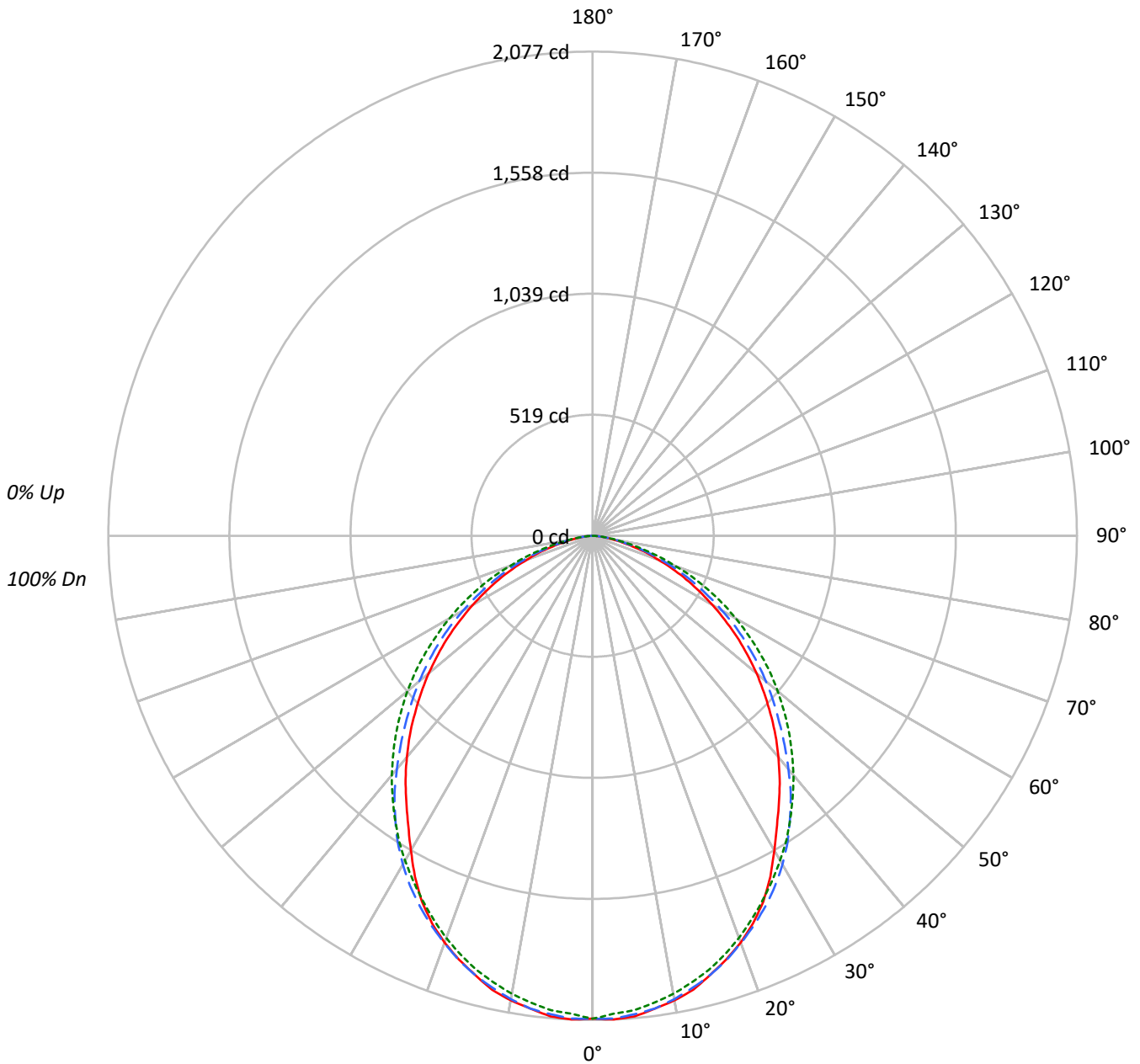
Lumens per Lamp: N/A
Luminaire Lumens: 4790.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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	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°	11149	11149	11149
5°	11179	11131	11037
10°	11060	11029	10904
15°	10864	10864	10740
20°	10634	10648	10511
25°	10283	10411	10246
30°	9684	10119	9995
35°	9150	9700	9715
40°	8705	9175	9416
45°	8208	8620	9062
50°	7683	8122	8676
55°	7086	7557	8207
60°	6382	6895	7633
65°	5635	6132	6942
70°	4696	5223	5898
75°	3691	4169	4616
80°	2641	2935	3254
85°	1723	1723	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	4.1
10°-20°	547.9	11.4
20°-30°	800.7	16.7
30°-40°	908.9	19.0
40°-50°	877.4	18.3
50°-60°	723.8	15.1
60°-70°	482.0	10.1
70°-80°	215.7	4.5
80°-90°	38.6	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°	1543.7	32.2
0°-40°	2452.6	51.2
0°-60°	4053.8	84.6
0°-90°	4790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2069	2068	2060	2049	2043	196
15°	1950	1955	1950	1941	1928	550
25°	1732	1745	1753	1740	1725	793
35°	1393	1412	1476	1484	1479	873
45°	1078	1097	1132	1184	1191	832
55°	755	768	805	850	875	674
65°	442	454	482	516	545	439
75°	178	187	200	210	222	194
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2071.6	2071.6	2071.6	2071.6	2071.6
2.5°	2077.1	2077.9	2073.1	2060.4	2052.5
5°	2069.2	2068.4	2060.4	2049.3	2042.9
7.5°	2046.1	2047.7	2045.3	2029.4	2020.6
10°	2023.8	2024.6	2018.2	2005.5	1995.2
12.5°	1995.2	1994.4	1985.6	1979.2	1962.5
15°	1949.8	1954.6	1949.8	1941.0	1927.5
17.5°	1906.0	1906.0	1909.2	1894.1	1883.7
20°	1856.7	1859.1	1859.1	1847.1	1835.2
22.5°	1799.4	1806.5	1808.9	1796.2	1781.9
25°	1731.7	1745.3	1753.2	1740.5	1725.4
27.5°	1649.8	1670.5	1694.3	1684.8	1668.1
30°	1558.2	1588.5	1628.3	1620.3	1608.4
32.5°	1471.5	1501.7	1556.6	1553.5	1547.1
35°	1392.7	1411.8	1476.3	1484.2	1478.7
37.5°	1317.9	1335.4	1395.9	1414.2	1409.4
40°	1239.1	1258.2	1306.0	1338.6	1340.2
42.5°	1161.1	1179.4	1218.4	1265.4	1265.4
45°	1078.4	1096.7	1132.5	1184.2	1190.6
47.5°	997.2	1016.3	1051.3	1103.0	1113.4
50°	917.6	935.1	970.1	1020.3	1036.2
52.5°	834.8	853.9	888.1	934.3	957.4
55°	755.2	768.0	805.4	849.9	874.6
57.5°	672.5	684.4	726.6	764.8	790.3
60°	592.9	608.0	640.6	679.6	709.1
62.5°	516.5	532.4	560.3	594.5	627.9
65°	442.5	454.4	481.5	515.7	545.1
67.5°	370.9	381.2	408.3	432.1	463.2
70°	298.4	312.0	331.9	354.9	374.8
72.5°	240.3	245.9	262.6	279.3	300.0
75°	177.5	187.0	200.5	210.1	222.0
77.5°	127.3	132.9	140.9	148.8	160.0
80°	85.2	87.5	94.7	96.3	105.0
82.5°	51.7	53.3	54.9	55.7	58.9
85°	27.9	27.9	27.9	26.3	26.3
87.5°	15.9	15.9	13.5	11.1	8.0
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)