

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: P555543

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-82-87-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: P555543
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-40-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

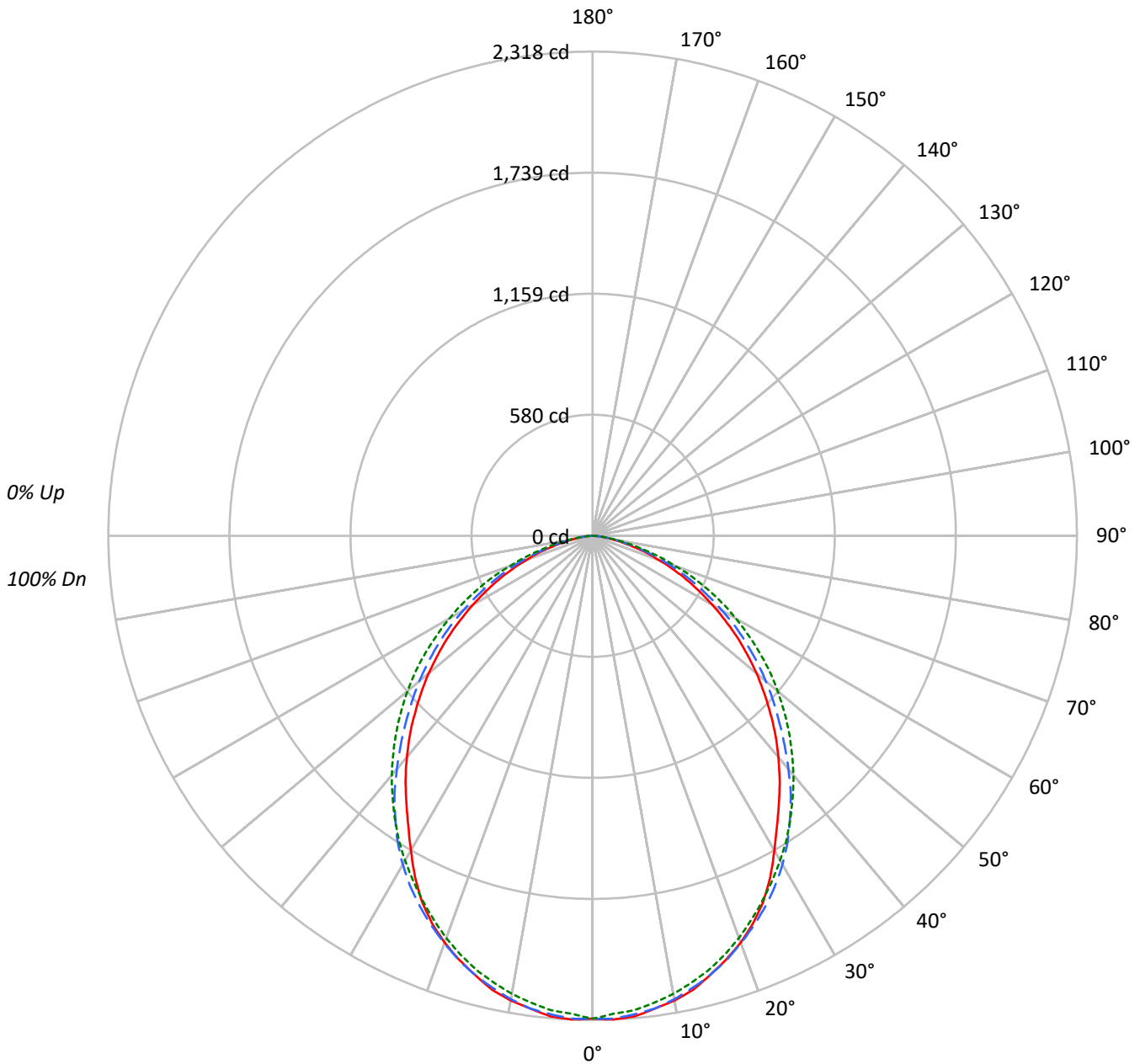
Lumens per Lamp: N/A
Luminaire Lumens: 5346.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	12443	12443	12443
5°	12476	12424	12318
10°	12344	12310	12169
15°	12125	12125	11986
20°	11868	11884	11731
25°	11477	11620	11435
30°	10808	11294	11156
35°	10213	10825	10843
40°	9716	10241	10508
45°	9160	9620	10114
50°	8575	9065	9682
55°	7909	8435	9159
60°	7122	7696	8519
65°	6288	6844	7748
70°	5242	5829	6582
75°	4119	4654	5153
80°	2944	3276	3632
85°	1920	1920	1809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	4.1
10°-20°	611.5	11.4
20°-30°	893.6	16.7
30°-40°	1014.4	19.0
40°-50°	979.2	18.3
50°-60°	807.8	15.1
60°-70°	537.9	10.1
70°-80°	240.7	4.5
80°-90°	43.1	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°	1722.9	32.2
0°-40°	2737.2	51.2
0°-60°	4524.3	84.6
0°-90°	5346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2312	2312	2312	2312	2312	
5°	2309	2308	2300	2287	2280	219
15°	2176	2181	2176	2166	2151	613
25°	1933	1948	1957	1942	1926	885
35°	1554	1576	1648	1656	1650	974
45°	1204	1224	1264	1322	1329	929
55°	843	857	899	949	976	752
65°	494	507	537	576	608	490
75°	198	209	224	234	248	217
85°	31	31	31	29	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2312.0	2312.0	2312.0	2312.0	2312.0
2.5°	2318.2	2319.1	2313.8	2299.6	2290.7
5°	2309.3	2308.5	2299.6	2287.1	2280.0
7.5°	2283.6	2285.4	2282.7	2264.9	2255.2
10°	2258.7	2259.6	2252.5	2238.3	2226.7
12.5°	2226.7	2225.9	2216.1	2209.0	2190.3
15°	2176.1	2181.4	2176.1	2166.3	2151.2
17.5°	2127.3	2127.3	2130.8	2113.9	2102.4
20°	2072.2	2074.9	2074.9	2061.5	2048.2
22.5°	2008.2	2016.2	2018.9	2004.7	1988.7
25°	1932.7	1947.8	1956.7	1942.5	1925.6
27.5°	1841.3	1864.3	1891.0	1880.3	1861.7
30°	1739.1	1772.9	1817.3	1808.4	1795.1
32.5°	1642.3	1676.0	1737.3	1733.8	1726.7
35°	1554.4	1575.7	1647.6	1656.5	1650.3
37.5°	1470.9	1490.4	1557.9	1578.3	1573.0
40°	1382.9	1404.3	1457.6	1494.0	1495.7
42.5°	1295.9	1316.3	1359.8	1412.3	1412.3
45°	1203.5	1224.0	1263.9	1321.7	1328.8
47.5°	1112.9	1134.2	1173.3	1231.1	1242.6
50°	1024.1	1043.6	1082.7	1138.7	1156.4
52.5°	931.7	953.0	991.2	1042.8	1068.5
55°	842.9	857.1	898.9	948.6	976.1
57.5°	750.5	763.9	810.9	853.6	882.0
60°	661.7	678.6	715.0	758.5	791.4
62.5°	576.4	594.2	625.3	663.5	700.8
65°	493.8	507.2	537.4	575.6	608.4
67.5°	413.9	425.5	455.7	482.3	516.9
70°	333.1	348.2	370.4	396.1	418.3
72.5°	268.2	274.5	293.1	311.8	334.9
75°	198.1	208.7	223.8	234.5	247.8
77.5°	142.1	148.3	157.2	166.1	178.5
80°	95.0	97.7	105.7	107.5	117.2
82.5°	57.7	59.5	61.3	62.2	65.7
85°	31.1	31.1	31.1	29.3	29.3
87.5°	17.8	17.8	15.1	12.4	8.9
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)