

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: P557365

Luminaire Tested: **FUSL-12-4-LD4-2LO-50-UNV-80-86-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: P557365
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-12-4-LD4-2LO-50-UNV-80-86-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

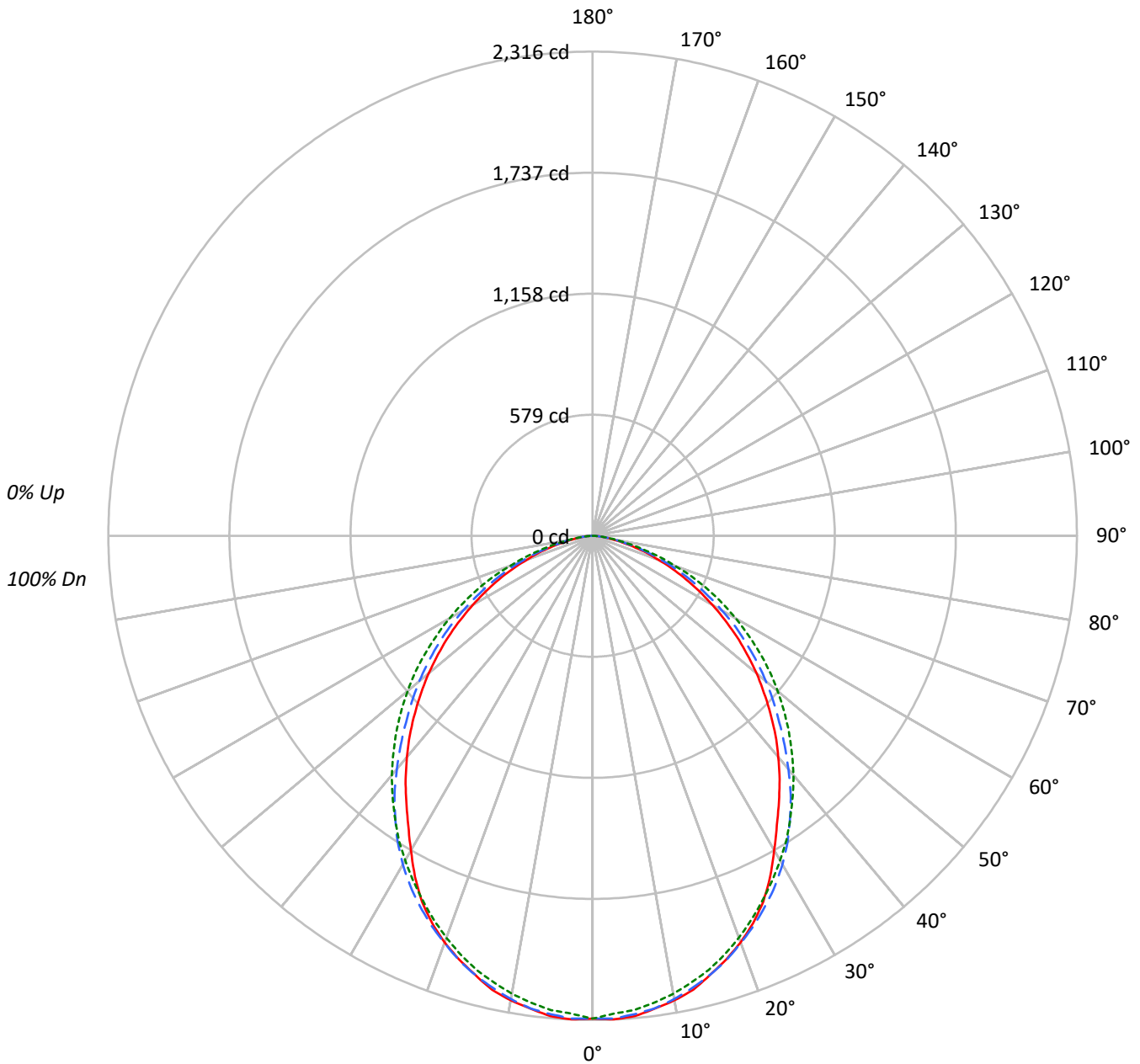
Lumens per Lamp: N/A
Luminaire Lumens: 5340.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	6215	6215	6215
5°	6231	6205	6152
10°	6165	6148	6078
15°	6056	6056	5986
20°	5928	5935	5859
25°	5732	5803	5711
30°	5398	5640	5572
35°	5100	5407	5415
40°	4853	5114	5249
45°	4575	4805	5051
50°	4283	4528	4836
55°	3950	4213	4574
60°	3557	3844	4254
65°	3141	3418	3869
70°	2618	2911	3288
75°	2057	2325	2573
80°	1471	1636	1815
85°	960	960	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.4	4.1
10°-20°	610.8	11.4
20°-30°	892.6	16.7
30°-40°	1013.3	19.0
40°-50°	978.1	18.3
50°-60°	806.9	15.1
60°-70°	537.3	10.1
70°-80°	240.4	4.5
80°-90°	43.0	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°	1720.9	32.2
0°-40°	2734.2	51.2
0°-60°	4519.2	84.6
0°-90°	5340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2309	2309	2309	2309	2309	
5°	2307	2306	2297	2285	2278	218
15°	2174	2179	2174	2164	2149	613
25°	1931	1946	1954	1940	1924	884
35°	1553	1574	1646	1655	1648	973
45°	1202	1223	1262	1320	1327	928
55°	842	856	898	948	975	751
65°	493	507	537	575	608	489
75°	198	208	224	234	248	216
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°	2309.4	2309.4	2309.4	2309.4	2309.4
2.5°	2315.6	2316.5	2311.2	2297.0	2288.1
5°	2306.8	2305.9	2297.0	2284.6	2277.5
7.5°	2281.0	2282.8	2280.1	2262.4	2252.6
10°	2256.2	2257.1	2250.0	2235.8	2224.2
12.5°	2224.2	2223.4	2213.6	2206.5	2187.9
15°	2173.7	2179.0	2173.7	2163.9	2148.8
17.5°	2124.9	2124.9	2128.4	2111.6	2100.0
20°	2069.9	2072.5	2072.5	2059.2	2045.9
22.5°	2006.0	2014.0	2016.6	2002.4	1986.5
25°	1930.6	1945.7	1954.5	1940.3	1923.5
27.5°	1839.2	1862.3	1888.9	1878.2	1859.6
30°	1737.2	1770.9	1815.2	1806.4	1793.1
32.5°	1640.5	1674.2	1735.4	1731.8	1724.7
35°	1552.6	1573.9	1645.8	1654.6	1648.4
37.5°	1469.2	1488.7	1556.2	1576.6	1571.3
40°	1381.4	1402.7	1455.9	1492.3	1494.1
42.5°	1294.4	1314.8	1358.3	1410.7	1410.7
45°	1202.2	1222.6	1262.5	1320.2	1327.3
47.5°	1111.7	1133.0	1172.0	1229.7	1241.2
50°	1023.0	1042.5	1081.5	1137.4	1155.1
52.5°	930.7	952.0	990.1	1041.6	1067.3
55°	842.0	856.2	897.9	947.5	975.0
57.5°	749.7	763.0	810.0	852.6	881.0
60°	661.0	677.8	714.2	757.7	790.5
62.5°	575.8	593.5	624.6	662.7	700.0
65°	493.3	506.6	536.8	574.9	607.7
67.5°	413.4	425.0	455.1	481.8	516.4
70°	332.7	347.8	370.0	395.7	417.9
72.5°	267.9	274.1	292.8	311.4	334.5
75°	197.8	208.5	223.6	234.2	247.5
77.5°	142.0	148.2	157.0	165.9	178.3
80°	94.9	97.6	105.6	107.4	117.1
82.5°	57.7	59.4	61.2	62.1	65.7
85°	31.1	31.1	31.1	29.3	29.3
87.5°	17.7	17.7	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)