

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: P557371

Luminaire Tested: **FUSL-12-4-LD4-2LO-50-UNV-80-94-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: P557371
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-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

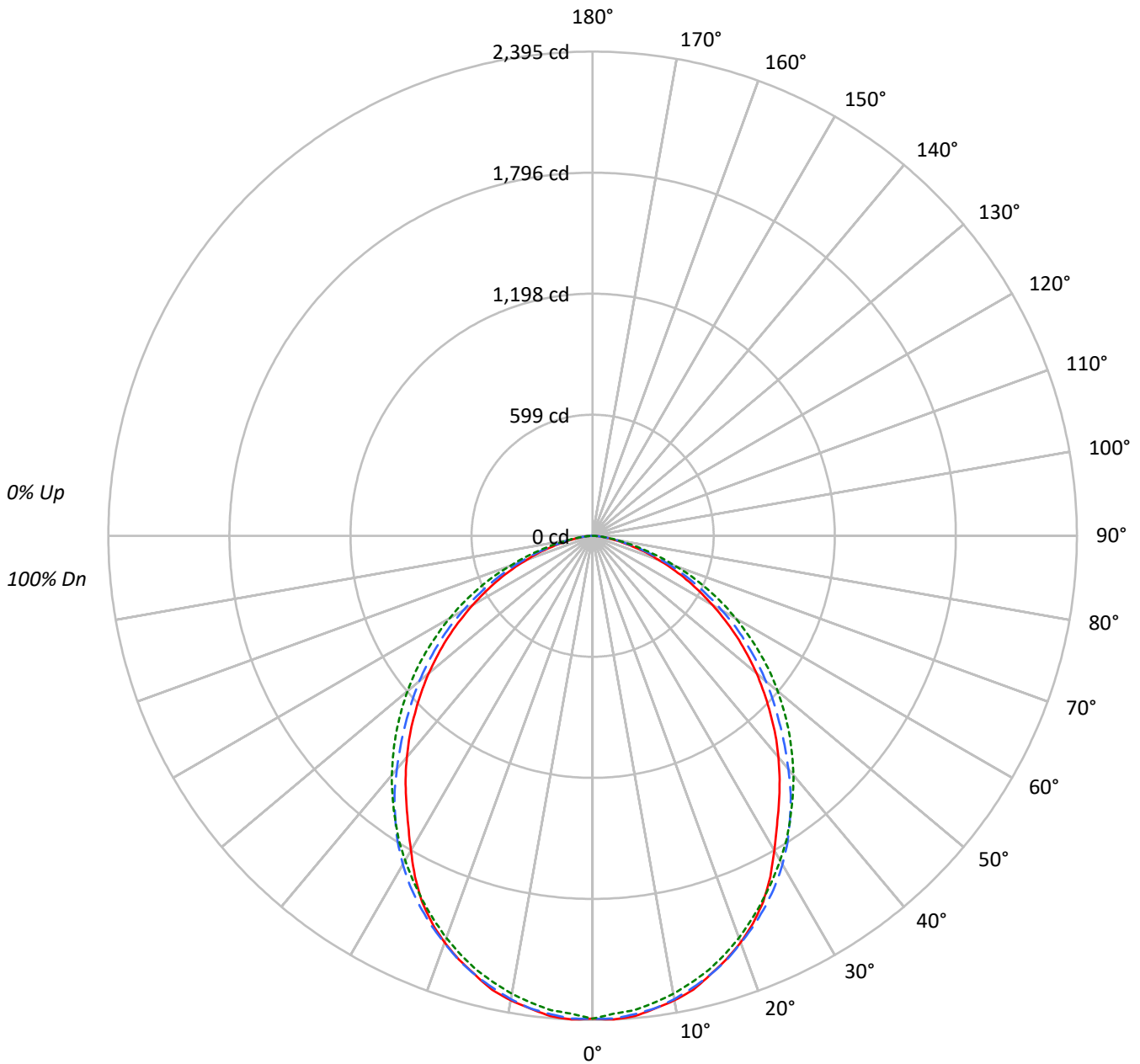
Lumens per Lamp: N/A
Luminaire Lumens: 5523.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	6428	6428	6428
5°	6445	6417	6363
10°	6376	6359	6286
15°	6263	6263	6192
20°	6131	6139	6060
25°	5929	6002	5907
30°	5583	5834	5762
35°	5275	5592	5601
40°	5019	5290	5428
45°	4732	4969	5224
50°	4429	4683	5002
55°	4085	4357	4731
60°	3679	3976	4400
65°	3249	3535	4003
70°	2707	3010	3401
75°	2127	2404	2662
80°	1522	1692	1877
85°	991	991	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	4.1
10°-20°	631.8	11.4
20°-30°	923.2	16.7
30°-40°	1048.0	19.0
40°-50°	1011.7	18.3
50°-60°	834.5	15.1
60°-70°	555.7	10.1
70°-80°	248.7	4.5
80°-90°	44.5	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°	1779.9	32.2
0°-40°	2827.9	51.2
0°-60°	4674.1	84.6
0°-90°	5523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2389	2389	2389	2389	2389	
5°	2386	2385	2376	2363	2356	226
15°	2248	2254	2248	2238	2222	634
25°	1997	2012	2022	2007	1989	914
35°	1606	1628	1702	1711	1705	1006
45°	1243	1264	1306	1365	1373	959
55°	871	886	929	980	1008	777
65°	510	524	555	595	629	506
75°	205	216	231	242	256	224
85°	32	32	32	30	30	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2388.6	2388.6	2388.6	2388.6	2388.6
2.5°	2395.0	2395.9	2390.4	2375.7	2366.5
5°	2385.8	2384.9	2375.7	2362.9	2355.5
7.5°	2359.2	2361.0	2358.3	2339.9	2329.8
10°	2333.5	2334.4	2327.1	2312.4	2300.5
12.5°	2300.5	2299.5	2289.5	2282.1	2262.8
15°	2248.2	2253.7	2248.2	2238.1	2222.5
17.5°	2197.7	2197.7	2201.4	2183.9	2172.0
20°	2140.8	2143.6	2143.6	2129.8	2116.0
22.5°	2074.7	2083.0	2085.7	2071.1	2054.5
25°	1996.7	2012.3	2021.5	2006.8	1989.4
27.5°	1902.2	1926.1	1953.6	1942.6	1923.3
30°	1796.7	1831.6	1877.4	1868.3	1854.5
32.5°	1696.7	1731.5	1794.9	1791.2	1783.8
35°	1605.8	1627.9	1702.2	1711.4	1704.9
37.5°	1519.6	1539.8	1609.5	1630.6	1625.1
40°	1428.7	1450.8	1505.8	1543.4	1545.3
42.5°	1338.8	1359.9	1404.9	1459.0	1459.0
45°	1243.4	1264.5	1305.8	1365.4	1372.8
47.5°	1149.8	1171.8	1212.2	1271.8	1283.7
50°	1058.0	1078.2	1118.6	1176.4	1194.7
52.5°	962.6	984.6	1024.1	1077.3	1103.9
55°	870.8	885.5	928.6	980.0	1008.5
57.5°	775.4	789.1	837.8	881.8	911.2
60°	683.6	701.1	738.7	783.6	817.6
62.5°	595.5	613.9	646.0	685.5	724.0
65°	510.2	524.0	555.2	594.6	628.6
67.5°	427.6	439.5	470.7	498.3	534.1
70°	344.1	359.7	382.6	409.3	432.2
72.5°	277.1	283.5	302.8	322.1	345.9
75°	204.6	215.6	231.2	242.3	256.0
77.5°	146.8	153.2	162.4	171.6	184.4
80°	98.2	100.9	109.2	111.0	121.1
82.5°	59.6	61.5	63.3	64.2	67.9
85°	32.1	32.1	32.1	30.3	30.3
87.5°	18.4	18.4	15.6	12.8	9.2
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)