

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: P555377

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-84-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: P555377
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-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

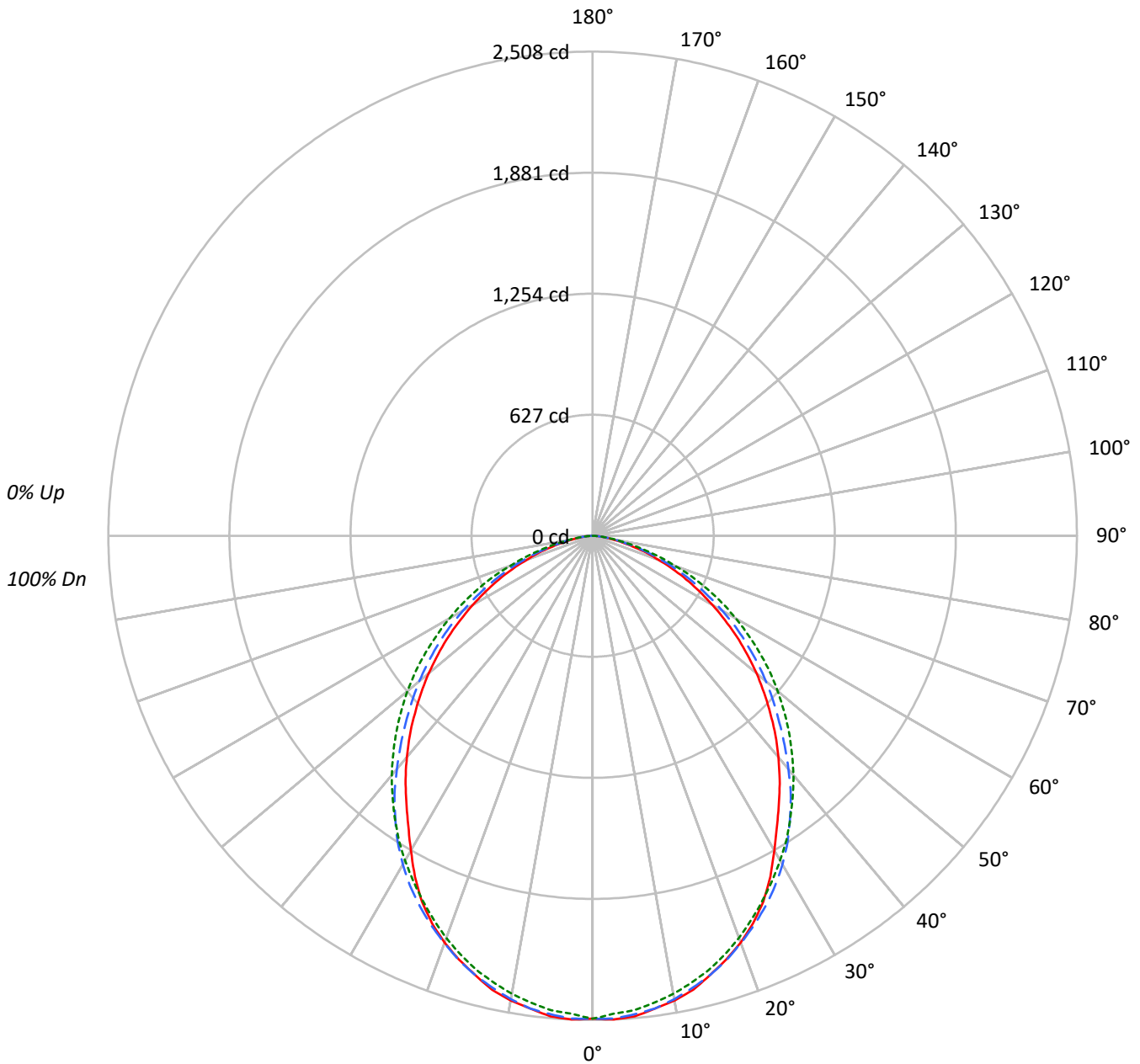
Lumens per Lamp: N/A
Luminaire Lumens: 5784.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13462	13462	13462
5°	13498	13441	13327
10°	13355	13318	13166
15°	13118	13118	12968
20°	12841	12857	12692
25°	12418	12571	12372
30°	11693	12219	12069
35°	11049	11712	11731
40°	10512	11079	11370
45°	9911	10408	10942
50°	9277	9808	10476
55°	8557	9125	9910
60°	7706	8327	9216
65°	6804	7404	8383
70°	5671	6305	7122
75°	4456	5036	5575
80°	3186	3546	3930
85°	2075	2075	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	4.1
10°-20°	661.6	11.4
20°-30°	966.9	16.7
30°-40°	1097.5	19.0
40°-50°	1059.5	18.3
50°-60°	874.0	15.1
60°-70°	582.0	10.1
70°-80°	260.4	4.5
80°-90°	46.6	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°	1864.0	32.2
0°-40°	2961.5	51.2
0°-60°	4895.0	84.6
0°-90°	5784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2501	2501	2501	2501	2501	
5°	2498	2498	2488	2474	2467	236
15°	2354	2360	2354	2344	2328	664
25°	2091	2107	2117	2102	2083	958
35°	1682	1705	1783	1792	1786	1054
45°	1302	1324	1368	1430	1438	1005
55°	912	927	972	1026	1056	814
65°	534	549	581	623	658	530
75°	214	226	242	254	268	234
85°	34	34	34	32	32	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2501.4	2501.4	2501.4	2501.4	2501.4
2.5°	2508.2	2509.1	2503.4	2488.0	2478.4
5°	2498.5	2497.6	2488.0	2474.5	2466.8
7.5°	2470.7	2472.6	2469.7	2450.5	2439.9
10°	2443.8	2444.7	2437.0	2421.7	2409.2
12.5°	2409.2	2408.2	2397.6	2390.0	2369.8
15°	2354.4	2360.2	2354.4	2343.8	2327.5
17.5°	2301.5	2301.5	2305.4	2287.1	2274.6
20°	2242.0	2244.8	2244.8	2230.4	2216.0
22.5°	2172.8	2181.4	2184.3	2168.9	2151.6
25°	2091.1	2107.4	2117.0	2101.7	2083.4
27.5°	1992.1	2017.1	2045.9	2034.4	2014.2
30°	1881.6	1918.1	1966.2	1956.6	1942.1
32.5°	1776.9	1813.4	1879.7	1875.8	1868.1
35°	1681.7	1704.8	1782.6	1792.2	1785.5
37.5°	1591.4	1612.5	1685.6	1707.7	1701.9
40°	1496.2	1519.3	1577.0	1616.4	1618.3
42.5°	1402.1	1424.2	1471.3	1528.0	1528.0
45°	1302.1	1324.2	1367.5	1429.9	1437.6
47.5°	1204.1	1227.2	1269.5	1331.9	1344.4
50°	1108.0	1129.2	1171.4	1232.0	1251.2
52.5°	1008.1	1031.1	1072.5	1128.2	1156.1
55°	912.0	927.3	972.5	1026.3	1056.1
57.5°	812.0	826.4	877.4	923.5	954.3
60°	715.9	734.2	773.6	820.7	856.2
62.5°	623.7	642.9	676.5	717.9	758.2
65°	534.3	548.7	581.4	622.7	658.3
67.5°	447.8	460.3	493.0	521.8	559.3
70°	360.4	376.7	400.7	428.6	452.6
72.5°	290.2	296.9	317.1	337.3	362.3
75°	214.3	225.8	242.2	253.7	268.1
77.5°	153.8	160.5	170.1	179.7	193.2
80°	102.8	105.7	114.4	116.3	126.8
82.5°	62.5	64.4	66.3	67.3	71.1
85°	33.6	33.6	33.6	31.7	31.7
87.5°	19.2	19.2	16.3	13.5	9.6
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)