

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: P555483

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-94-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: P555483
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-35-UNV-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

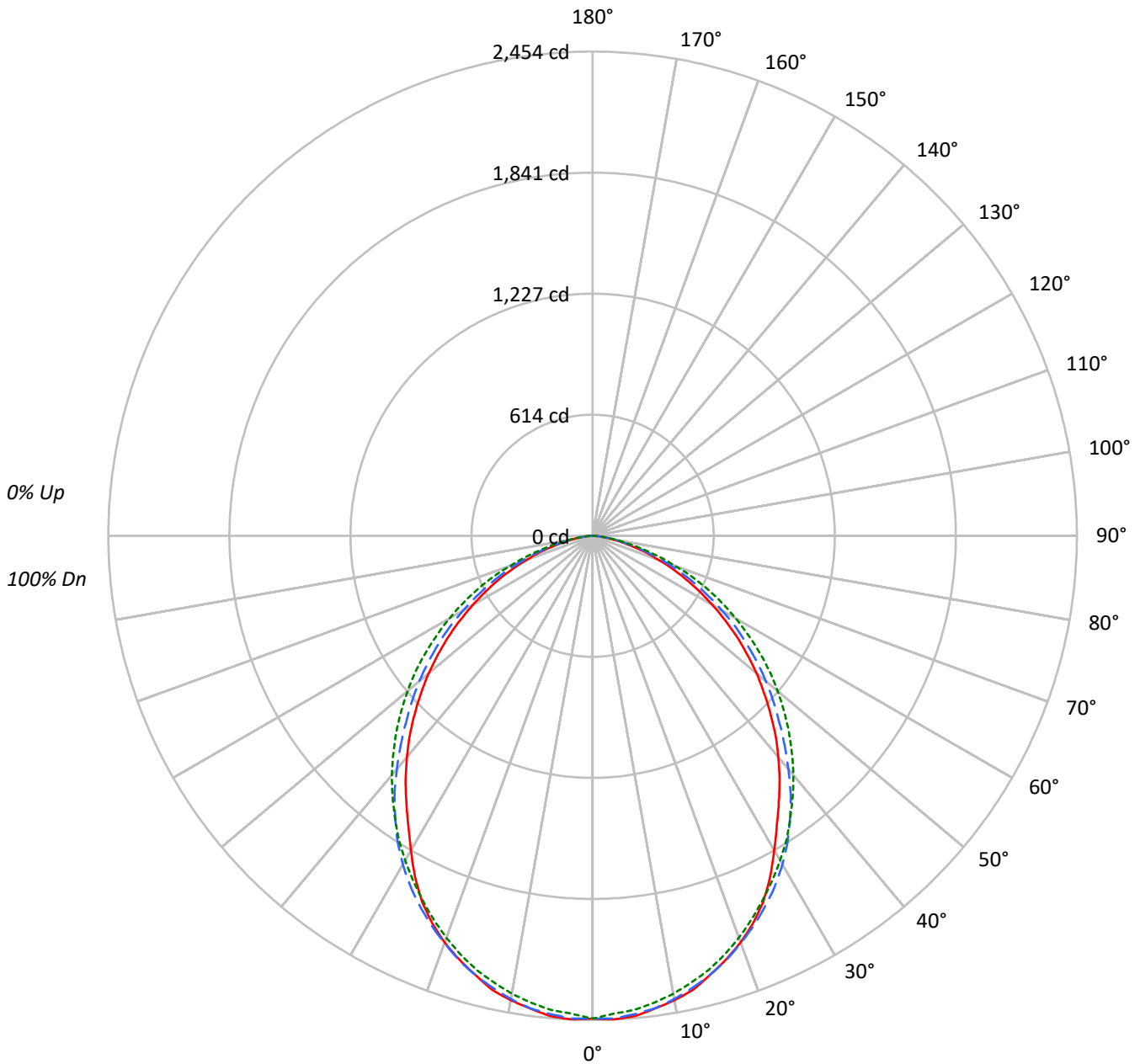
Lumens per Lamp: N/A
Luminaire Lumens: 5658.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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									
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°	13169	13169	13169
5°	13204	13149	13037
10°	13064	13029	12879
15°	12832	12832	12686
20°	12561	12577	12415
25°	12147	12298	12102
30°	11438	11952	11806
35°	10809	11457	11475
40°	10283	10838	11122
45°	9695	10182	10704
50°	9075	9594	10248
55°	8371	8926	9694
60°	7538	8145	9016
65°	6656	7242	8200
70°	5547	6168	6968
75°	4358	4926	5454
80°	3118	3468	3846
85°	2032	2032	1914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	4.1
10°-20°	647.2	11.4
20°-30°	945.8	16.7
30°-40°	1073.6	19.0
40°-50°	1036.4	18.3
50°-60°	854.9	15.1
60°-70°	569.3	10.1
70°-80°	254.8	4.5
80°-90°	45.6	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°	1823.4	32.2
0°-40°	2897.0	51.2
0°-60°	4788.3	84.6
0°-90°	5658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2447	2447	2447	2447	2447	
5°	2444	2443	2434	2421	2413	231
15°	2303	2309	2303	2293	2277	649
25°	2046	2062	2071	2056	2038	937
35°	1645	1668	1744	1753	1747	1031
45°	1274	1295	1338	1399	1406	983
55°	892	907	951	1004	1033	796
65°	523	537	569	609	644	518
75°	210	221	237	248	262	229
85°	33	33	33	31	31	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2446.9	2446.9	2446.9	2446.9	2446.9
2.5°	2453.5	2454.5	2448.8	2433.8	2424.4
5°	2444.1	2443.2	2433.8	2420.6	2413.1
7.5°	2416.9	2418.7	2415.9	2397.1	2386.8
10°	2390.5	2391.5	2384.0	2368.9	2356.7
12.5°	2356.7	2355.8	2345.4	2337.9	2318.2
15°	2303.1	2308.8	2303.1	2292.8	2276.8
17.5°	2251.4	2251.4	2255.2	2237.3	2225.1
20°	2193.1	2195.9	2195.9	2181.8	2167.7
22.5°	2125.4	2133.9	2136.7	2121.7	2104.8
25°	2045.5	2061.5	2070.9	2055.9	2038.0
27.5°	1948.7	1973.2	2001.4	1990.1	1970.3
30°	1840.6	1876.3	1923.3	1913.9	1899.8
32.5°	1738.1	1773.9	1838.7	1835.0	1827.4
35°	1645.1	1667.6	1743.8	1753.2	1746.6
37.5°	1556.7	1577.4	1648.8	1670.5	1664.8
40°	1463.7	1486.2	1542.6	1581.2	1583.0
42.5°	1371.5	1393.1	1439.2	1494.7	1494.7
45°	1273.8	1295.4	1337.7	1398.8	1406.3
47.5°	1177.9	1200.4	1241.8	1302.9	1315.1
50°	1083.9	1104.6	1145.9	1205.1	1223.9
52.5°	986.1	1008.7	1049.1	1103.6	1130.9
55°	892.1	907.1	951.3	1004.0	1033.1
57.5°	794.3	808.4	858.3	903.4	933.5
60°	700.3	718.2	756.7	802.8	837.6
62.5°	610.1	628.9	661.8	702.2	741.7
65°	522.7	536.8	568.7	609.1	643.9
67.5°	438.1	450.3	482.2	510.4	547.1
70°	352.5	368.5	392.0	419.3	442.8
72.5°	283.9	290.5	310.2	330.0	354.4
75°	209.6	220.9	236.9	248.2	262.3
77.5°	150.4	157.0	166.4	175.8	188.9
80°	100.6	103.4	111.9	113.7	124.1
82.5°	61.1	63.0	64.9	65.8	69.6
85°	32.9	32.9	32.9	31.0	31.0
87.5°	18.8	18.8	16.0	13.2	9.4
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)