

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: P555455

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-97-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: P555455
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-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

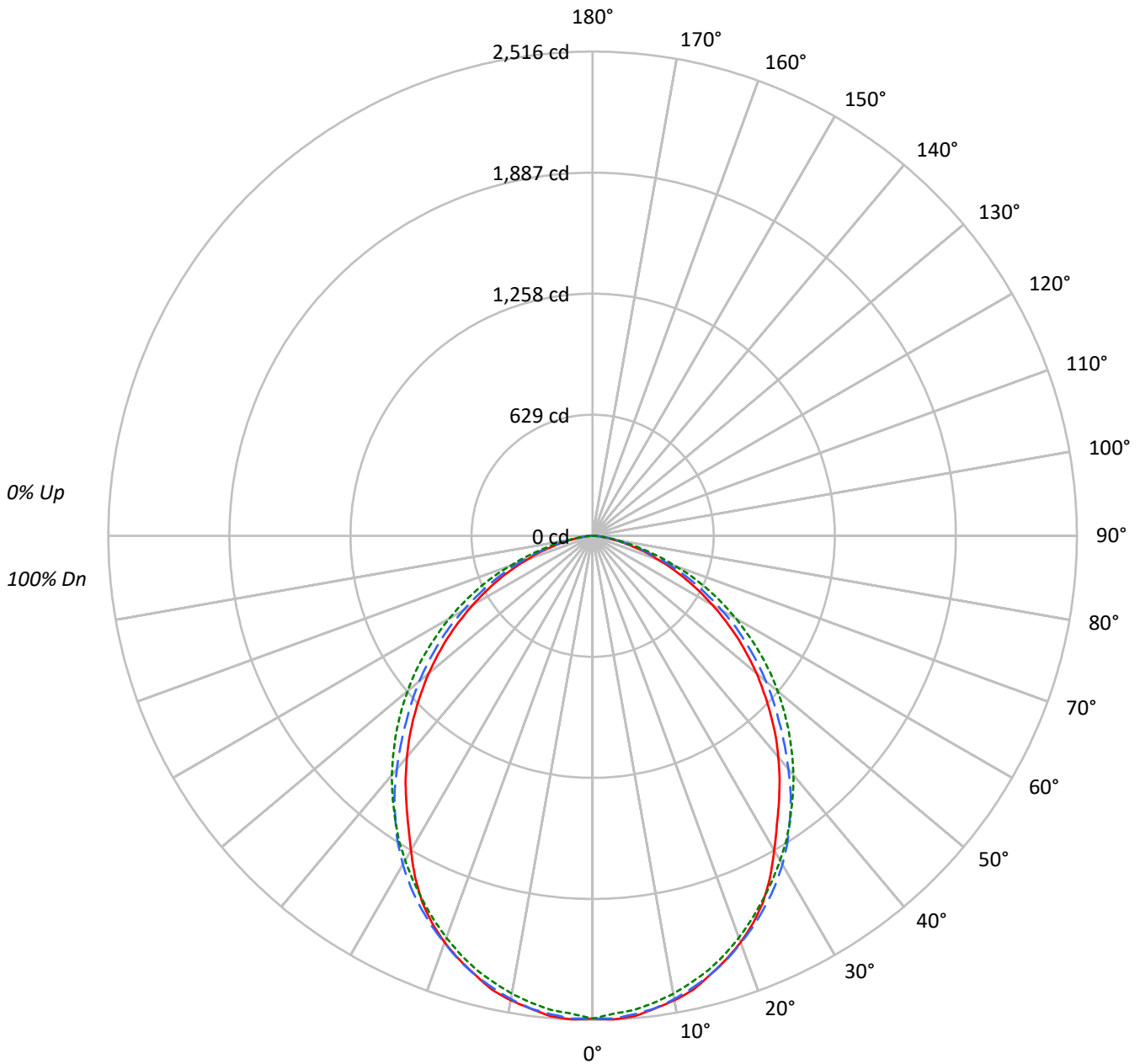
Lumens per Lamp: N/A
Luminaire Lumens: 5801.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	13502	13502	13502
5°	13538	13481	13366
10°	13395	13358	13205
15°	13157	13157	13006
20°	12879	12895	12729
25°	12454	12609	12408
30°	11727	12254	12105
35°	11082	11747	11765
40°	10543	11112	11403
45°	9940	10439	10975
50°	9305	9837	10507
55°	8583	9152	9939
60°	7728	8352	9243
65°	6825	7426	8408
70°	5687	6324	7144
75°	4469	5051	5592
80°	3195	3555	3942
85°	2081	2081	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	4.1
10°-20°	663.6	11.4
20°-30°	969.7	16.7
30°-40°	1100.7	19.0
40°-50°	1062.6	18.3
50°-60°	876.6	15.1
60°-70°	583.7	10.1
70°-80°	261.2	4.5
80°-90°	46.7	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°	1869.5	32.2
0°-40°	2970.2	51.2
0°-60°	4909.4	84.6
0°-90°	5801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2509	2509	2509	2509	2509	
5°	2506	2505	2495	2482	2474	237
15°	2361	2367	2361	2351	2334	666
25°	2097	2114	2123	2108	2090	960
35°	1687	1710	1788	1798	1791	1057
45°	1306	1328	1372	1434	1442	1008
55°	915	930	975	1029	1059	816
65°	536	550	583	624	660	531
75°	215	226	243	254	269	235
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°	2508.8	2508.8	2508.8	2508.8	2508.8
2.5°	2515.5	2516.5	2510.7	2495.3	2485.7
5°	2505.9	2504.9	2495.3	2481.8	2474.1
7.5°	2477.9	2479.9	2477.0	2457.7	2447.1
10°	2451.0	2451.9	2444.2	2428.8	2416.3
12.5°	2416.3	2415.3	2404.7	2397.0	2376.7
15°	2361.3	2367.1	2361.3	2350.7	2334.3
17.5°	2308.3	2308.3	2312.2	2293.9	2281.3
20°	2248.6	2251.4	2251.4	2237.0	2222.5
22.5°	2179.2	2187.8	2190.7	2175.3	2158.0
25°	2097.2	2113.6	2123.3	2107.8	2089.5
27.5°	1998.0	2023.0	2051.9	2040.4	2020.1
30°	1887.1	1923.8	1971.9	1962.3	1947.8
32.5°	1782.1	1818.7	1885.2	1881.3	1873.6
35°	1686.7	1709.8	1787.9	1797.5	1790.7
37.5°	1596.1	1617.3	1690.5	1712.7	1706.9
40°	1500.6	1523.8	1581.6	1621.1	1623.0
42.5°	1406.2	1428.4	1475.6	1532.4	1532.4
45°	1306.0	1328.1	1371.5	1434.1	1441.9
47.5°	1207.6	1230.8	1273.2	1335.8	1348.4
50°	1111.3	1132.5	1174.9	1235.6	1254.9
52.5°	1011.0	1034.2	1075.6	1131.5	1159.5
55°	914.7	930.1	975.4	1029.3	1059.2
57.5°	814.4	828.9	880.0	926.2	957.1
60°	718.0	736.3	775.9	823.1	858.7
62.5°	625.5	644.8	678.5	720.0	760.4
65°	535.9	550.3	583.1	624.5	660.2
67.5°	449.1	461.7	494.4	523.3	560.9
70°	361.4	377.8	401.9	429.9	454.0
72.5°	291.1	297.8	318.1	338.3	363.4
75°	214.9	226.5	242.9	254.4	268.9
77.5°	154.2	161.0	170.6	180.2	193.7
80°	103.1	106.0	114.7	116.6	127.2
82.5°	62.6	64.6	66.5	67.5	71.3
85°	33.7	33.7	33.7	31.8	31.8
87.5°	19.3	19.3	16.4	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)