

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: P555525

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-81-86-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: P555525
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-40-UNV-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

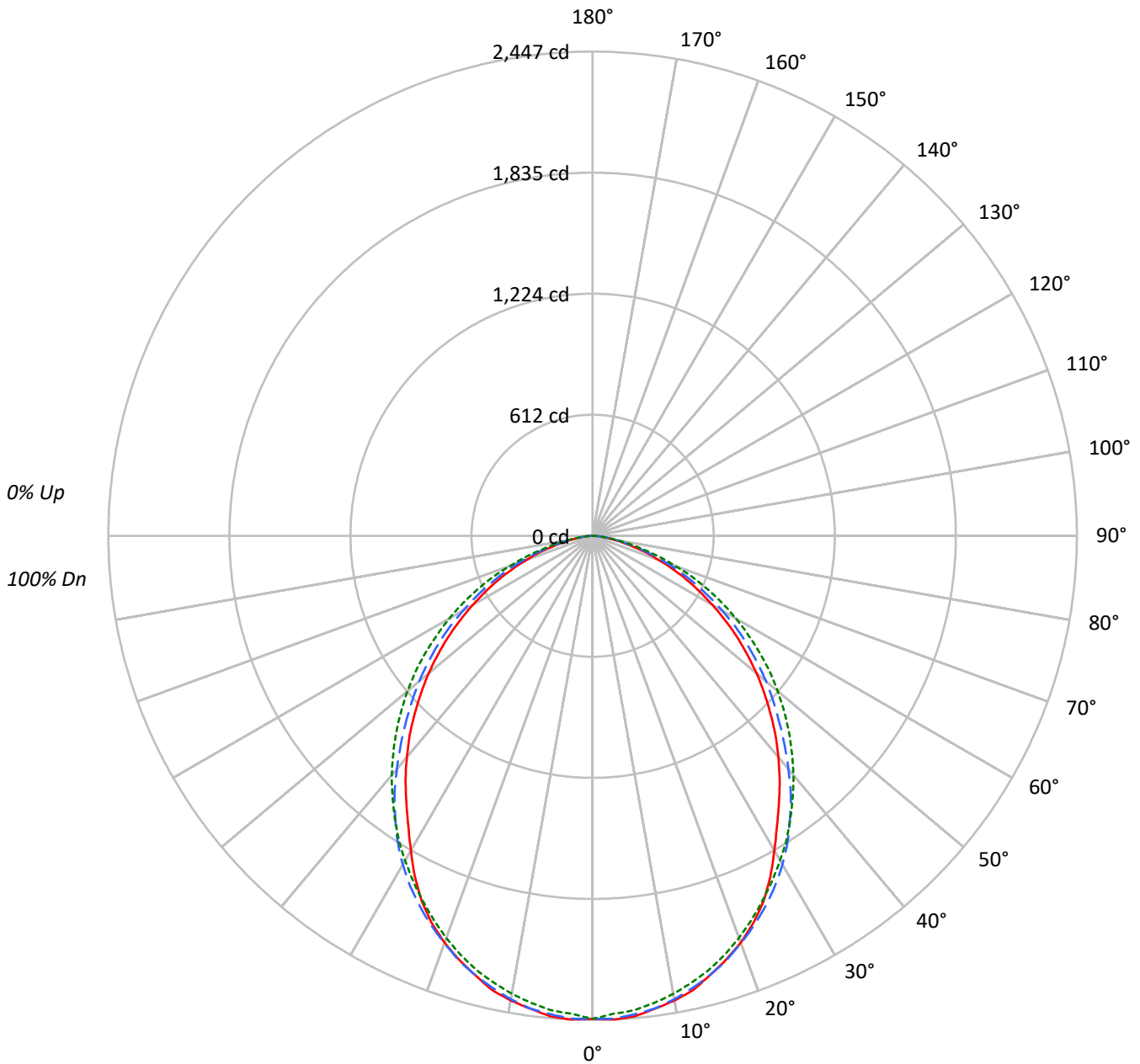
Lumens per Lamp: N/A
Luminaire Lumens: 5644.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	13137	13137	13137
5°	13172	13116	13004
10°	13032	12996	12848
15°	12801	12801	12655
20°	12530	12546	12385
25°	12117	12267	12073
30°	11411	11923	11777
35°	10782	11429	11447
40°	10257	10811	11094
45°	9671	10156	10677
50°	9053	9571	10222
55°	8350	8905	9670
60°	7520	8126	8993
65°	6640	7224	8180
70°	5533	6153	6950
75°	4348	4914	5440
80°	3109	3459	3837
85°	2025	2025	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	4.1
10°-20°	645.6	11.4
20°-30°	943.5	16.7
30°-40°	1070.9	19.0
40°-50°	1033.8	18.3
50°-60°	852.8	15.1
60°-70°	567.9	10.1
70°-80°	254.1	4.5
80°-90°	45.5	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°	1818.9	32.2
0°-40°	2889.8	51.2
0°-60°	4776.5	84.6
0°-90°	5644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2441	2441	2441	2441	2441	
5°	2438	2437	2428	2415	2407	231
15°	2297	2303	2297	2287	2271	648
25°	2040	2056	2066	2051	2033	934
35°	1641	1664	1740	1749	1742	1028
45°	1271	1292	1334	1395	1403	980
55°	890	905	949	1002	1031	794
65°	521	535	567	608	642	517
75°	209	220	236	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°	2440.9	2440.9	2440.9	2440.9	2440.9
2.5°	2447.4	2448.4	2442.8	2427.8	2418.4
5°	2438.1	2437.1	2427.8	2414.6	2407.1
7.5°	2410.9	2412.8	2409.9	2391.2	2380.9
10°	2384.6	2385.6	2378.1	2363.1	2350.9
12.5°	2350.9	2349.9	2339.6	2332.1	2312.4
15°	2297.4	2303.0	2297.4	2287.1	2271.2
17.5°	2245.8	2245.8	2249.6	2231.8	2219.6
20°	2187.7	2190.5	2190.5	2176.4	2162.4
22.5°	2120.2	2128.6	2131.4	2116.4	2099.6
25°	2040.5	2056.4	2065.8	2050.8	2033.0
27.5°	1943.9	1968.3	1996.4	1985.2	1965.5
30°	1836.1	1871.7	1918.6	1909.2	1895.1
32.5°	1733.8	1769.5	1834.2	1830.4	1822.9
35°	1641.0	1663.5	1739.5	1748.8	1742.3
37.5°	1552.9	1573.5	1644.8	1666.3	1660.7
40°	1460.0	1482.5	1538.8	1577.2	1579.1
42.5°	1368.1	1389.7	1435.6	1491.0	1491.0
45°	1270.6	1292.2	1334.4	1395.3	1402.8
47.5°	1175.0	1197.5	1238.7	1299.7	1311.9
50°	1081.2	1101.8	1143.1	1202.2	1220.9
52.5°	983.7	1006.2	1046.5	1100.9	1128.1
55°	889.9	904.9	949.0	1001.5	1030.6
57.5°	792.4	806.4	856.1	901.1	931.2
60°	698.6	716.4	754.9	800.8	835.5
62.5°	608.6	627.3	660.2	700.5	739.9
65°	521.4	535.4	567.3	607.6	642.3
67.5°	437.0	449.2	481.1	509.2	545.8
70°	351.6	367.6	391.0	418.2	441.7
72.5°	283.2	289.8	309.4	329.1	353.5
75°	209.1	220.4	236.3	247.6	261.6
77.5°	150.0	156.6	166.0	175.4	188.5
80°	100.3	103.1	111.6	113.5	123.8
82.5°	61.0	62.8	64.7	65.6	69.4
85°	32.8	32.8	32.8	30.9	30.9
87.5°	18.8	18.8	15.9	13.1	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)