

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: P555553

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-93-84-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: P555553
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-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

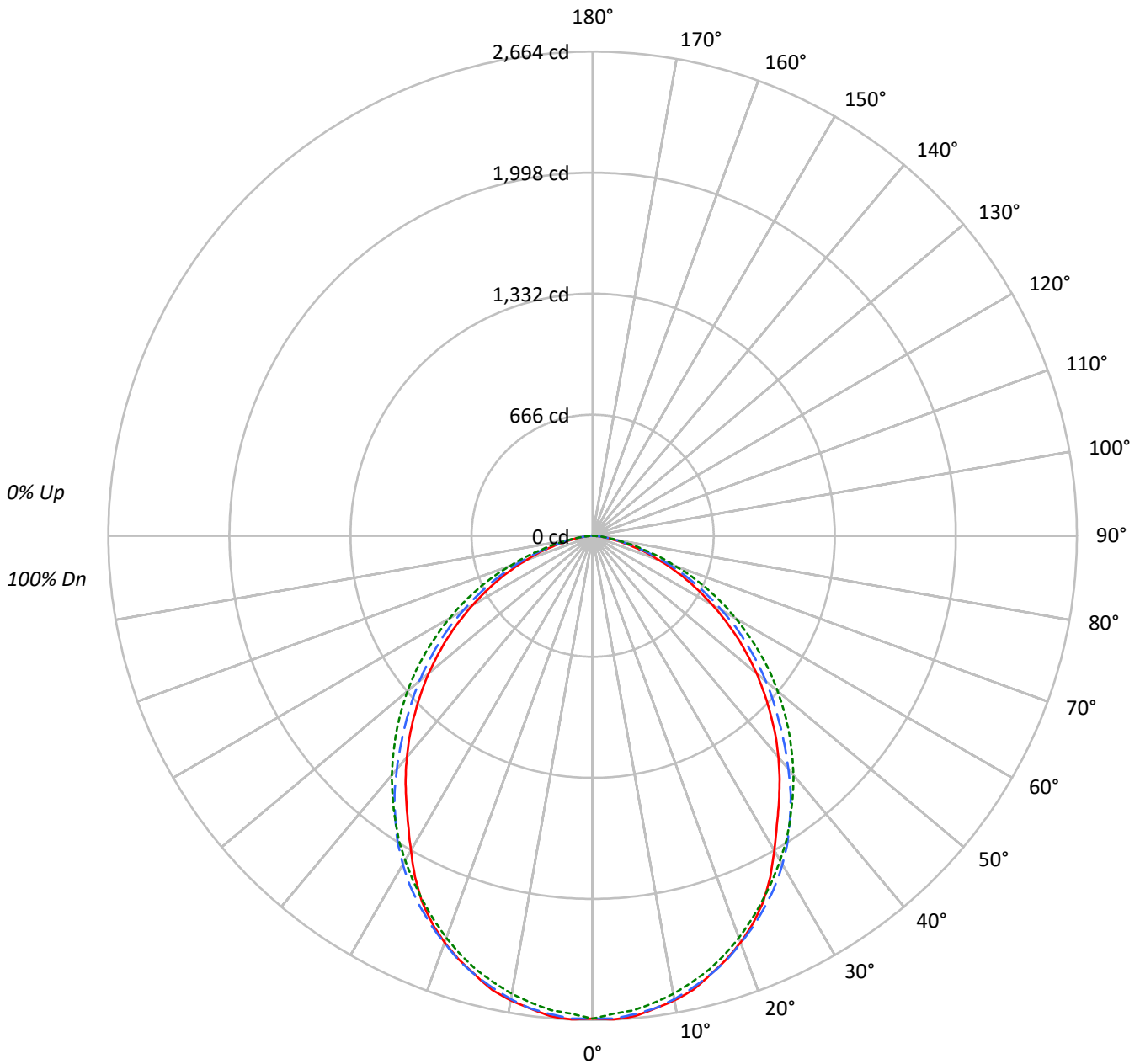
Lumens per Lamp: N/A
Luminaire Lumens: 6143.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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				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	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°	14298	14298	14298
5°	14336	14276	14154
10°	14184	14145	13983
15°	13932	13932	13774
20°	13637	13655	13480
25°	13188	13352	13140
30°	12419	12977	12819
35°	11735	12439	12459
40°	11164	11767	12075
45°	10526	11055	11622
50°	9853	10417	11127
55°	9089	9692	10525
60°	8185	8844	9789
65°	7227	7864	8903
70°	6022	6697	7564
75°	4733	5348	5922
80°	3384	3766	4175
85°	2205	2205	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	4.1
10°-20°	702.7	11.4
20°-30°	1026.9	16.7
30°-40°	1165.6	19.0
40°-50°	1125.2	18.3
50°-60°	928.2	15.1
60°-70°	618.1	10.1
70°-80°	276.6	4.5
80°-90°	49.5	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°	1979.7	32.2
0°-40°	3145.3	51.2
0°-60°	5198.8	84.6
0°-90°	6143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2657	2657	2657	2657	2657	
5°	2654	2653	2642	2628	2620	251
15°	2500	2507	2500	2489	2472	705
25°	2221	2238	2248	2232	2213	1017
35°	1786	1811	1893	1904	1896	1119
45°	1383	1406	1452	1519	1527	1067
55°	969	985	1033	1090	1122	864
65°	568	583	618	661	699	563
75°	228	240	257	269	285	249
85°	36	36	36	34	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2656.7	2656.7	2656.7	2656.7	2656.7
2.5°	2663.8	2664.9	2658.7	2642.4	2632.2
5°	2653.6	2652.6	2642.4	2628.1	2619.9
7.5°	2624.0	2626.1	2623.0	2602.6	2591.4
10°	2595.5	2596.5	2588.3	2572.0	2558.7
12.5°	2558.7	2557.7	2546.5	2538.3	2516.9
15°	2500.5	2506.7	2500.5	2489.3	2472.0
17.5°	2444.4	2444.4	2448.5	2429.1	2415.8
20°	2381.1	2384.2	2384.2	2368.9	2353.6
22.5°	2307.6	2316.8	2319.9	2303.6	2285.2
25°	2220.9	2238.2	2248.4	2232.1	2212.7
27.5°	2115.8	2142.3	2172.9	2160.7	2139.2
30°	1998.4	2037.2	2088.2	2078.0	2062.7
32.5°	1887.1	1925.9	1996.3	1992.3	1984.1
35°	1786.1	1810.6	1893.3	1903.5	1896.3
37.5°	1690.2	1712.6	1790.2	1813.7	1807.5
40°	1589.1	1613.6	1674.8	1716.7	1718.7
42.5°	1489.1	1512.6	1562.6	1622.8	1622.8
45°	1382.9	1406.4	1452.4	1518.7	1526.9
47.5°	1278.8	1303.3	1348.2	1414.6	1427.9
50°	1176.8	1199.2	1244.1	1308.4	1328.9
52.5°	1070.6	1095.1	1139.0	1198.2	1227.8
55°	968.6	984.9	1032.9	1090.0	1121.7
57.5°	862.4	877.7	931.8	980.8	1013.5
60°	760.4	779.8	821.6	871.6	909.4
62.5°	662.4	682.8	718.5	762.4	805.3
65°	567.5	582.8	617.5	661.4	699.1
67.5°	475.6	488.9	523.6	554.2	594.0
70°	382.7	400.1	425.6	455.2	480.7
72.5°	308.2	315.4	336.8	358.2	384.8
75°	227.6	239.8	257.2	269.4	284.8
77.5°	163.3	170.4	180.7	190.9	205.1
80°	109.2	112.3	121.5	123.5	134.7
82.5°	66.3	68.4	70.4	71.4	75.5
85°	35.7	35.7	35.7	33.7	33.7
87.5°	20.4	20.4	17.4	14.3	10.2
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)