

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: P555533

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-81-96-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: P555533
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-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

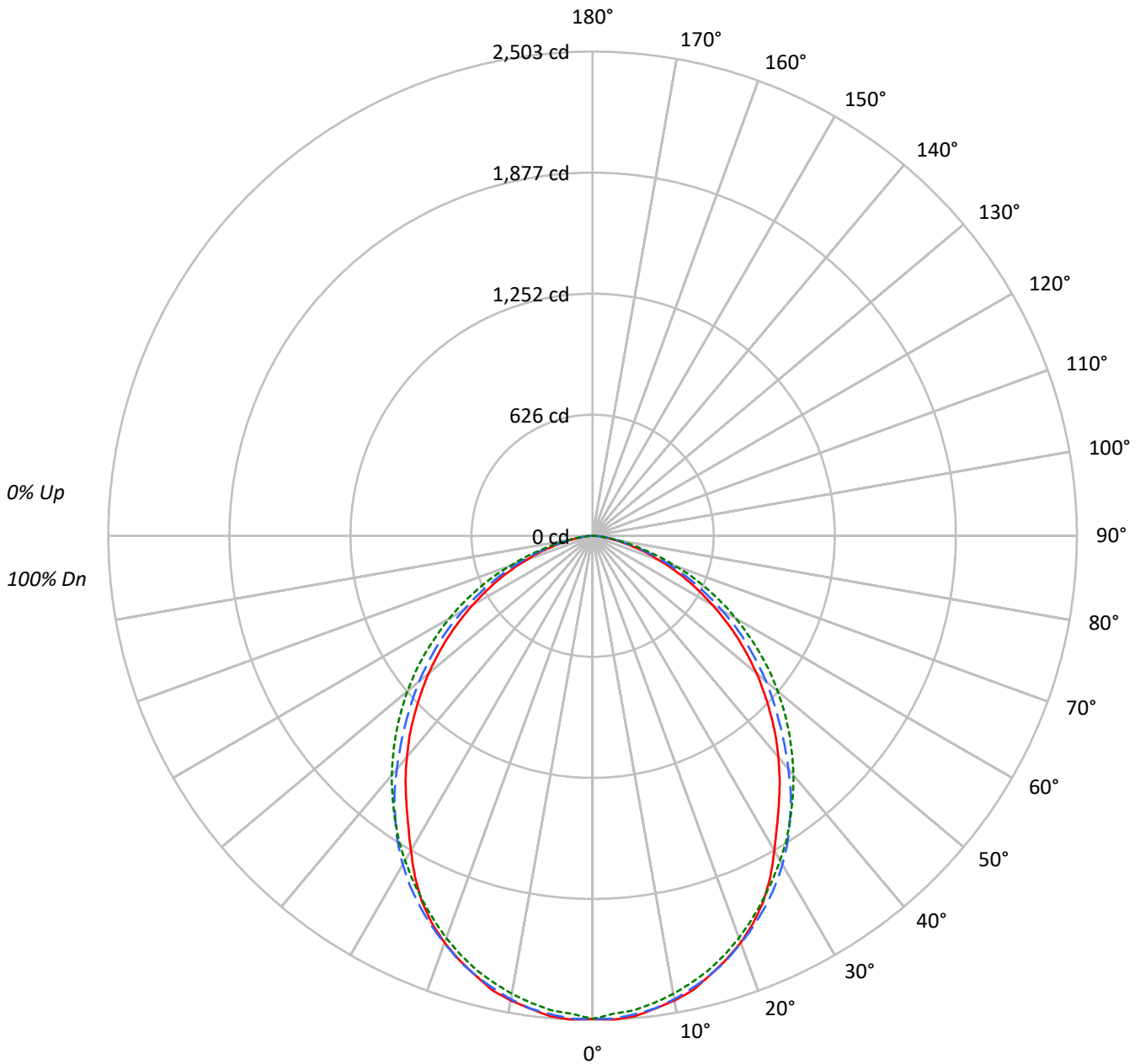
Lumens per Lamp: N/A
Luminaire Lumens: 5773.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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					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								
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°	13437	13437	13437
5°	13473	13416	13302
10°	13330	13293	13141
15°	13093	13093	12944
20°	12816	12833	12668
25°	12394	12548	12348
30°	11671	12195	12046
35°	11028	11690	11709
40°	10492	11058	11348
45°	9892	10389	10921
50°	9260	9790	10456
55°	8541	9108	9891
60°	7692	8311	9199
65°	6791	7390	8367
70°	5660	6294	7109
75°	4448	5026	5565
80°	3180	3536	3924
85°	2075	2075	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.1	4.1
10°-20°	660.4	11.4
20°-30°	965.0	16.7
30°-40°	1095.4	19.0
40°-50°	1057.5	18.3
50°-60°	872.3	15.1
60°-70°	580.9	10.1
70°-80°	260.0	4.5
80°-90°	46.5	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°	1860.5	32.2
0°-40°	2955.9	51.2
0°-60°	4885.7	84.6
0°-90°	5773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2497	2497	2497	2497	2497	
5°	2494	2493	2483	2470	2462	236
15°	2350	2356	2350	2339	2323	662
25°	2087	2103	2113	2098	2079	956
35°	1678	1702	1779	1789	1782	1052
45°	1300	1322	1365	1427	1435	1003
55°	910	926	971	1024	1054	812
65°	533	548	580	622	657	529
75°	214	225	242	253	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°	2496.7	2496.7	2496.7	2496.7	2496.7
2.5°	2503.4	2504.3	2498.6	2483.2	2473.7
5°	2493.8	2492.8	2483.2	2469.8	2462.1
7.5°	2466.0	2467.9	2465.0	2445.8	2435.3
10°	2439.1	2440.1	2432.4	2417.1	2404.6
12.5°	2404.6	2403.6	2393.1	2385.4	2365.3
15°	2349.9	2355.7	2349.9	2339.4	2323.1
17.5°	2297.2	2297.2	2301.0	2282.8	2270.3
20°	2237.7	2240.6	2240.6	2226.2	2211.8
22.5°	2168.6	2177.3	2180.2	2164.8	2147.5
25°	2087.1	2103.4	2113.0	2097.7	2079.4
27.5°	1988.3	2013.3	2042.0	2030.5	2010.4
30°	1878.0	1914.5	1962.4	1952.8	1938.4
32.5°	1773.5	1809.9	1876.1	1872.3	1864.6
35°	1678.5	1701.5	1779.2	1788.8	1782.1
37.5°	1588.4	1609.5	1682.4	1704.4	1698.7
40°	1493.4	1516.4	1574.0	1613.3	1615.2
42.5°	1399.4	1421.5	1468.5	1525.1	1525.1
45°	1299.7	1321.7	1364.9	1427.2	1434.9
47.5°	1201.8	1224.8	1267.0	1329.4	1341.9
50°	1105.9	1127.0	1169.2	1229.6	1248.8
52.5°	1006.2	1029.2	1070.4	1126.0	1153.9
55°	910.2	925.6	970.7	1024.4	1054.1
57.5°	810.5	824.9	875.7	921.7	952.4
60°	714.6	732.8	772.1	819.1	854.6
62.5°	622.5	641.7	675.2	716.5	756.8
65°	533.3	547.7	580.3	621.5	657.0
67.5°	447.0	459.4	492.0	520.8	558.2
70°	359.7	376.0	400.0	427.8	451.8
72.5°	289.7	296.4	316.5	336.7	361.6
75°	213.9	225.4	241.7	253.2	267.6
77.5°	153.5	160.2	169.8	179.4	192.8
80°	102.6	105.5	114.1	116.1	126.6
82.5°	62.3	64.3	66.2	67.1	71.0
85°	33.6	33.6	33.6	31.7	31.7
87.5°	19.2	19.2	16.3	13.4	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)