

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: P555537

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-82-84-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: P55537
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-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

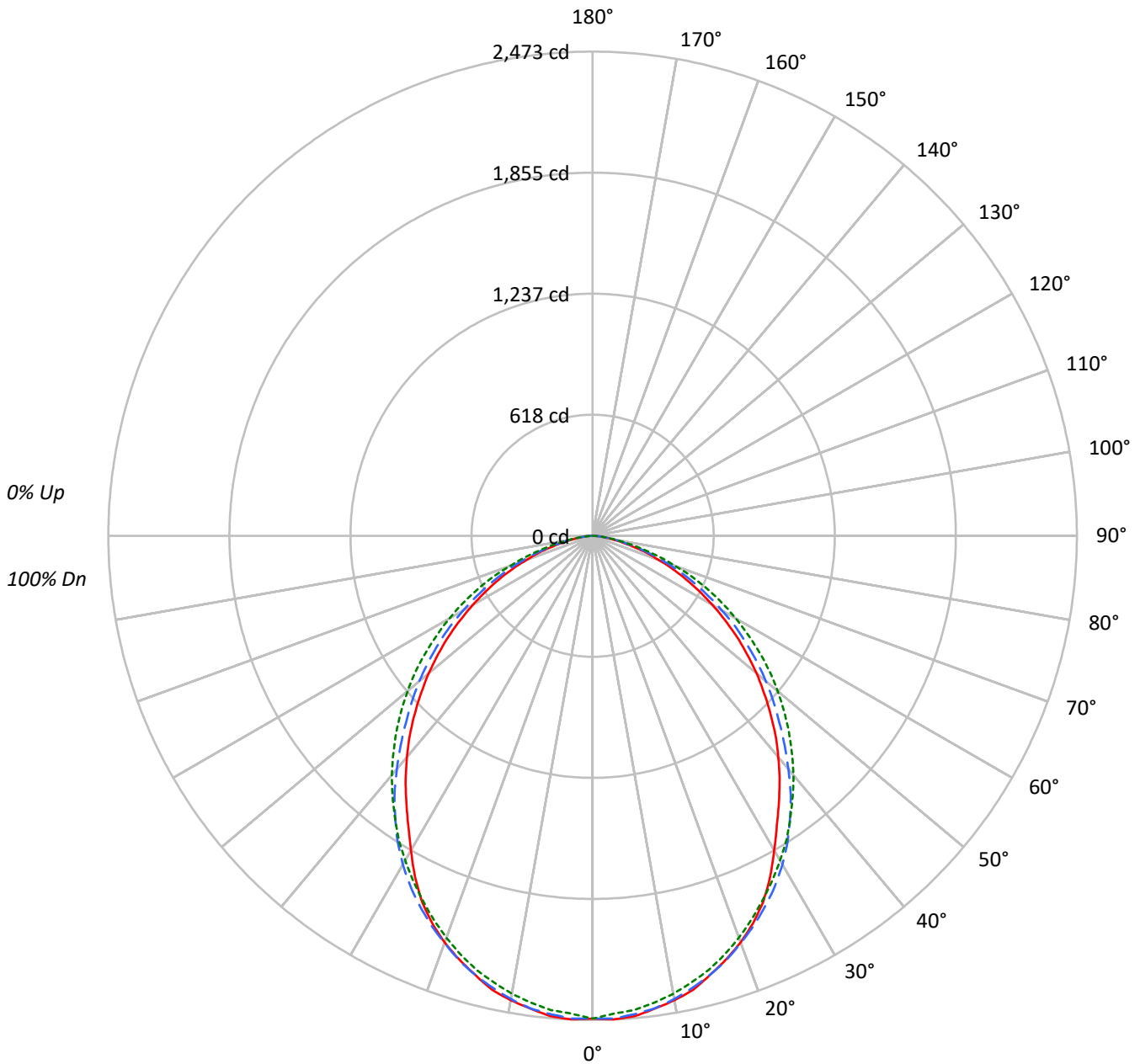
Lumens per Lamp: N/A
Luminaire Lumens: 5702.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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					
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	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°	13272	13272	13272
5°	13307	13251	13138
10°	13166	13130	12979
15°	12932	12932	12785
20°	12659	12675	12512
25°	12241	12393	12197
30°	11527	12046	11898
35°	10893	11546	11565
40°	10363	10922	11208
45°	9771	10261	10787
50°	9146	9669	10328
55°	8435	8996	9769
60°	7597	8209	9086
65°	6707	7300	8264
70°	5591	6216	7021
75°	4394	4964	5496
80°	3143	3493	3877
85°	2050	2050	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	4.1
10°-20°	652.3	11.4
20°-30°	953.2	16.7
30°-40°	1081.9	19.0
40°-50°	1044.5	18.3
50°-60°	861.6	15.1
60°-70°	573.8	10.1
70°-80°	256.7	4.5
80°-90°	45.9	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°	1837.6	32.2
0°-40°	2919.5	51.2
0°-60°	4825.6	84.6
0°-90°	5702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2466	2466	2466	2466	2466	
5°	2463	2462	2453	2439	2432	233
15°	2321	2327	2321	2311	2294	654
25°	2061	2078	2087	2072	2054	944
35°	1658	1681	1757	1767	1760	1039
45°	1284	1306	1348	1410	1417	990
55°	899	914	959	1012	1041	802
65°	527	541	573	614	649	522
75°	211	223	239	250	264	231
85°	33	33	33	31	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2466.0	2466.0	2466.0	2466.0	2466.0
2.5°	2472.6	2473.5	2467.9	2452.7	2443.2
5°	2463.1	2462.2	2452.7	2439.4	2431.9
7.5°	2435.7	2437.5	2434.7	2415.8	2405.3
10°	2409.1	2410.1	2402.5	2387.3	2375.0
12.5°	2375.0	2374.1	2363.7	2356.1	2336.2
15°	2321.0	2326.7	2321.0	2310.6	2294.5
17.5°	2268.9	2268.9	2272.7	2254.7	2242.4
20°	2210.2	2213.0	2213.0	2198.8	2184.6
22.5°	2142.0	2150.5	2153.3	2138.2	2121.1
25°	2061.4	2077.6	2087.0	2071.9	2053.9
27.5°	1963.9	1988.5	2016.9	2005.6	1985.7
30°	1854.9	1890.9	1938.3	1928.8	1914.6
32.5°	1751.7	1787.7	1853.0	1849.2	1841.7
35°	1657.9	1680.6	1757.3	1766.8	1760.2
37.5°	1568.8	1589.7	1661.7	1683.5	1677.8
40°	1475.0	1497.8	1554.6	1593.5	1595.3
42.5°	1382.2	1404.0	1450.4	1506.3	1506.3
45°	1283.7	1305.5	1348.1	1409.7	1417.2
47.5°	1187.0	1209.8	1251.5	1313.0	1325.4
50°	1092.3	1113.1	1154.8	1214.5	1233.5
52.5°	993.8	1016.5	1057.2	1112.2	1139.7
55°	899.0	914.2	958.7	1011.8	1041.1
57.5°	800.5	814.7	864.9	910.4	940.7
60°	705.8	723.8	762.6	809.0	844.1
62.5°	614.8	633.8	666.9	707.7	747.5
65°	526.7	540.9	573.2	613.9	648.9
67.5°	441.5	453.8	486.0	514.4	551.4
70°	355.3	371.4	395.0	422.5	446.2
72.5°	286.1	292.7	312.6	332.5	357.2
75°	211.3	222.6	238.7	250.1	264.3
77.5°	151.6	158.2	167.7	177.2	190.4
80°	101.4	104.2	112.7	114.6	125.1
82.5°	61.6	63.5	65.4	66.3	70.1
85°	33.2	33.2	33.2	31.3	31.3
87.5°	18.9	18.9	16.1	13.3	9.5
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)