

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: P555431

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-93-87-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: P555431
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-30-UNV-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

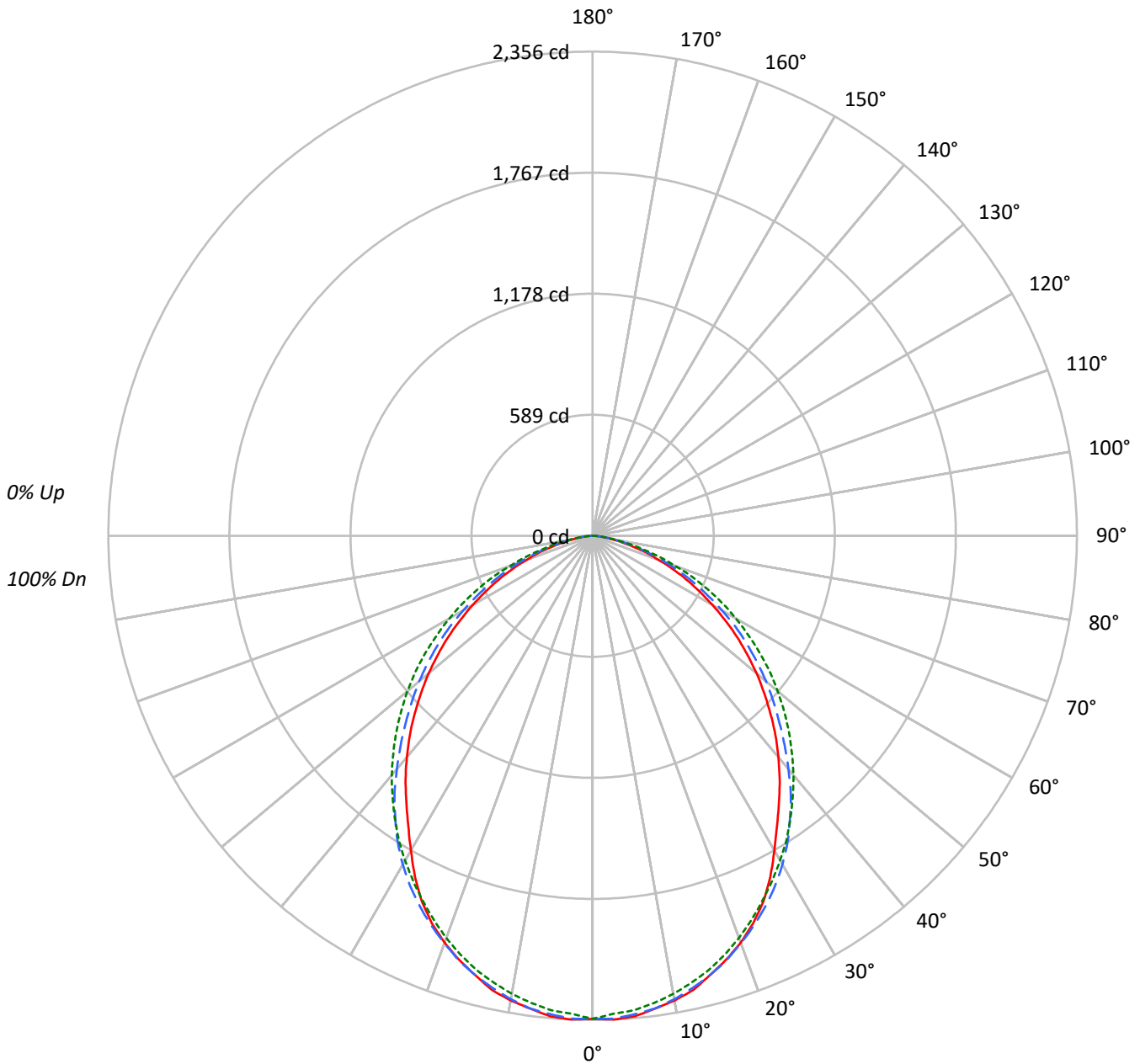
Lumens per Lamp: N/A
Luminaire Lumens: 5434.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555431

CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-93-87-EDD

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°	12648	12648	12648
5°	12682	12628	12521
10°	12547	12513	12369
15°	12324	12324	12184
20°	12064	12079	11924
25°	11666	11811	11623
30°	10985	11480	11339
35°	10381	11003	11021
40°	9876	10408	10682
45°	9311	9778	10280
50°	8716	9214	9842
55°	8039	8573	9310
60°	7240	7823	8658
65°	6393	6956	7875
70°	5328	5925	6691
75°	4186	4731	5238
80°	2994	3329	3694
85°	1951	1951	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	4.1
10°-20°	621.6	11.4
20°-30°	908.4	16.7
30°-40°	1031.1	19.0
40°-50°	995.3	18.3
50°-60°	821.1	15.1
60°-70°	546.8	10.1
70°-80°	244.7	4.5
80°-90°	43.8	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°	1751.2	32.2
0°-40°	2782.3	51.2
0°-60°	4598.7	84.6
0°-90°	5434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2350	2350	2350	2350	2350	
5°	2347	2346	2337	2325	2318	222
15°	2212	2217	2212	2202	2187	624
25°	1965	1980	1989	1974	1957	900
35°	1580	1602	1675	1684	1678	990
45°	1223	1244	1285	1343	1351	944
55°	857	871	914	964	992	765
65°	502	516	546	585	618	498
75°	201	212	228	238	252	220
85°	32	32	32	30	30	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2350.1	2350.1	2350.1	2350.1	2350.1
2.5°	2356.4	2357.3	2351.9	2337.4	2328.4
5°	2347.4	2346.5	2337.4	2324.8	2317.6
7.5°	2321.2	2323.0	2320.3	2302.2	2292.3
10°	2295.9	2296.8	2289.6	2275.1	2263.4
12.5°	2263.4	2262.5	2252.6	2245.3	2226.4
15°	2211.9	2217.3	2211.9	2202.0	2186.7
17.5°	2162.3	2162.3	2165.9	2148.7	2137.0
20°	2106.3	2109.0	2109.0	2095.5	2081.9
22.5°	2041.3	2049.4	2052.1	2037.7	2021.4
25°	1964.6	1979.9	1988.9	1974.5	1957.3
27.5°	1871.6	1895.0	1922.1	1911.3	1892.3
30°	1767.7	1802.0	1847.2	1838.2	1824.6
32.5°	1669.3	1703.6	1765.9	1762.3	1755.1
35°	1580.0	1601.6	1674.7	1683.8	1677.5
37.5°	1495.1	1514.9	1583.6	1604.3	1598.9
40°	1405.7	1427.4	1481.5	1518.6	1520.4
42.5°	1317.2	1338.0	1382.2	1435.5	1435.5
45°	1223.3	1244.1	1284.7	1343.4	1350.6
47.5°	1131.2	1152.9	1192.6	1251.3	1263.1
50°	1041.0	1060.8	1100.5	1157.4	1175.5
52.5°	947.1	968.7	1007.6	1059.9	1086.1
55°	856.8	871.2	913.7	964.2	992.2
57.5°	762.9	776.4	824.3	867.6	896.5
60°	672.6	689.8	726.8	771.0	804.4
62.5°	585.9	604.0	635.6	674.4	712.3
65°	502.0	515.5	546.2	585.0	618.4
67.5°	420.7	432.5	463.2	490.2	525.4
70°	338.6	353.9	376.5	402.7	425.2
72.5°	272.7	279.0	297.9	316.9	340.4
75°	201.3	212.2	227.5	238.3	251.9
77.5°	144.5	150.8	159.8	168.8	181.5
80°	96.6	99.3	107.4	109.2	119.2
82.5°	58.7	60.5	62.3	63.2	66.8
85°	31.6	31.6	31.6	29.8	29.8
87.5°	18.1	18.1	15.3	12.6	9.0
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)