

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: P555628

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-93-96-EDD-90**

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: P555628
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-50-UNV-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

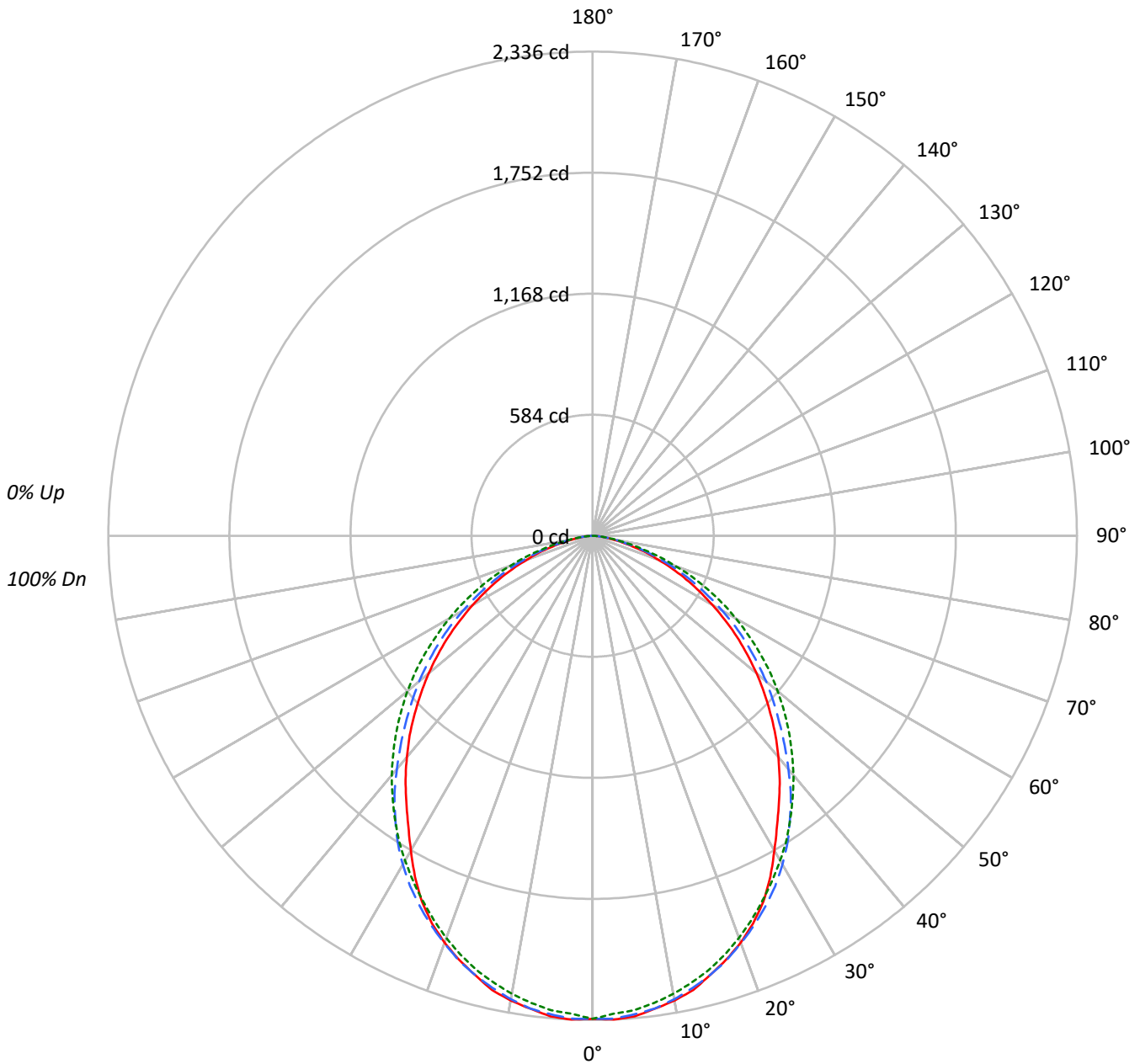
Lumens per Lamp: N/A
Luminaire Lumens: 5388.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	12541	12541	12541
5°	12574	12521	12414
10°	12441	12407	12265
15°	12220	12220	12080
20°	11962	11977	11823
25°	11567	11711	11525
30°	10893	11383	11243
35°	10293	10910	10928
40°	9792	10321	10591
45°	9232	9696	10193
50°	8642	9136	9759
55°	7971	8500	9231
60°	7178	7756	8585
65°	6338	6897	7809
70°	5283	5874	6634
75°	4151	4691	5194
80°	2969	3301	3663
85°	1933	1933	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	4.1
10°-20°	616.3	11.4
20°-30°	900.7	16.7
30°-40°	1022.4	19.0
40°-50°	986.9	18.3
50°-60°	814.1	15.1
60°-70°	542.2	10.1
70°-80°	242.6	4.5
80°-90°	43.4	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°	1736.4	32.2
0°-40°	2758.8	51.2
0°-60°	4559.8	84.6
0°-90°	5388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2330	2330	2330	2330	2330	
5°	2328	2327	2318	2305	2298	220
15°	2193	2199	2193	2183	2168	618
25°	1948	1963	1972	1958	1941	892
35°	1567	1588	1661	1670	1663	982
45°	1213	1234	1274	1332	1339	936
55°	850	864	906	956	984	758
65°	498	511	542	580	613	494
75°	200	210	226	236	250	218
85°	31	31	31	30	30	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2330.2	2330.2	2330.2	2330.2	2330.2
2.5°	2336.4	2337.3	2332.0	2317.6	2308.7
5°	2327.5	2326.6	2317.6	2305.1	2297.9
7.5°	2301.5	2303.3	2300.6	2282.7	2272.9
10°	2276.5	2277.4	2270.2	2255.9	2244.2
12.5°	2244.2	2243.3	2233.5	2226.3	2207.5
15°	2193.2	2198.6	2193.2	2183.4	2168.1
17.5°	2144.0	2144.0	2147.6	2130.5	2118.9
20°	2088.5	2091.2	2091.2	2077.7	2064.3
22.5°	2024.0	2032.1	2034.8	2020.4	2004.3
25°	1947.9	1963.1	1972.1	1957.8	1940.8
27.5°	1855.7	1879.0	1905.9	1895.1	1876.3
30°	1752.8	1786.8	1831.6	1822.6	1809.2
32.5°	1655.2	1689.2	1751.0	1747.4	1740.2
35°	1566.6	1588.1	1660.6	1669.5	1663.3
37.5°	1482.4	1502.1	1570.2	1590.7	1585.4
40°	1393.8	1415.3	1469.0	1505.7	1507.5
42.5°	1306.1	1326.7	1370.5	1423.3	1423.3
45°	1213.0	1233.6	1273.9	1332.0	1339.2
47.5°	1121.7	1143.2	1182.5	1240.7	1252.4
50°	1032.2	1051.8	1091.2	1147.6	1165.5
52.5°	939.1	960.5	999.0	1050.9	1076.9
55°	849.5	863.9	905.9	956.1	983.8
57.5°	756.4	769.9	817.3	860.3	888.9
60°	666.9	683.9	720.6	764.5	797.6
62.5°	581.0	598.9	630.2	668.7	706.3
65°	497.7	511.2	541.6	580.1	613.2
67.5°	417.2	428.8	459.2	486.1	521.0
70°	335.7	350.9	373.3	399.3	421.6
72.5°	270.3	276.6	295.4	314.2	337.5
75°	199.6	210.4	225.6	236.3	249.8
77.5°	143.2	149.5	158.4	167.4	179.9
80°	95.8	98.5	106.5	108.3	118.2
82.5°	58.2	60.0	61.8	62.7	66.2
85°	31.3	31.3	31.3	29.5	29.5
87.5°	17.9	17.9	15.2	12.5	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)