

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: P555380

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-86-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: P555380
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-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

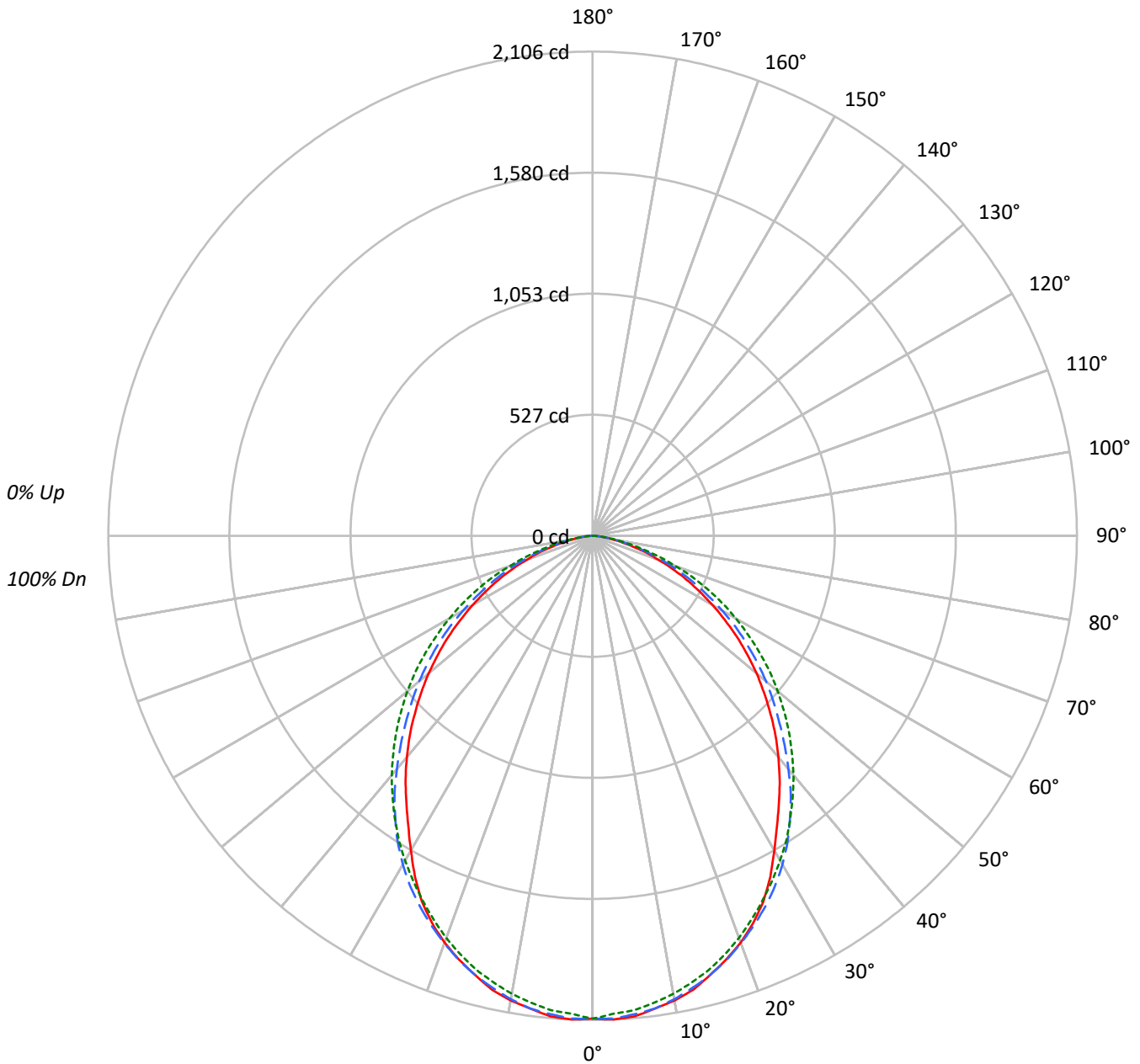
Lumens per Lamp: N/A
Luminaire Lumens: 4857.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	11305	11305	11305
5°	11335	11287	11191
10°	11215	11184	11056
15°	11016	11016	10890
20°	10782	10797	10658
25°	10428	10557	10389
30°	9819	10260	10135
35°	9278	9835	9851
40°	8827	9303	9547
45°	8322	8740	9188
50°	7790	8236	8797
55°	7186	7662	8322
60°	6471	6992	7739
65°	5714	6217	7040
70°	4762	5295	5981
75°	3743	4230	4681
80°	2675	2975	3301
85°	1741	1741	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	4.1
10°-20°	555.6	11.4
20°-30°	811.9	16.7
30°-40°	921.6	19.0
40°-50°	889.7	18.3
50°-60°	733.9	15.1
60°-70°	488.7	10.1
70°-80°	218.7	4.5
80°-90°	39.1	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°	1565.3	32.2
0°-40°	2486.9	51.2
0°-60°	4110.5	84.6
0°-90°	4857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2100	2100	2100	2100	2100	
5°	2098	2097	2089	2078	2072	199
15°	1977	1982	1977	1968	1954	557
25°	1756	1770	1778	1765	1750	804
35°	1412	1432	1497	1505	1499	885
45°	1093	1112	1148	1201	1207	844
55°	766	779	817	862	887	684
65°	449	461	488	523	553	445
75°	180	190	203	213	225	197
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2100.5	2100.5	2100.5	2100.5	2100.5
2.5°	2106.2	2107.0	2102.1	2089.2	2081.2
5°	2098.1	2097.3	2089.2	2077.9	2071.5
7.5°	2074.7	2076.3	2073.9	2057.8	2048.9
10°	2052.1	2052.9	2046.5	2033.5	2023.1
12.5°	2023.1	2022.3	2013.4	2006.9	1990.0
15°	1977.1	1981.9	1977.1	1968.2	1954.5
17.5°	1932.7	1932.7	1935.9	1920.6	1910.1
20°	1882.6	1885.1	1885.1	1873.0	1860.9
22.5°	1824.5	1831.8	1834.2	1821.3	1806.8
25°	1756.0	1769.7	1777.7	1764.8	1749.5
27.5°	1672.8	1693.8	1718.0	1708.3	1691.4
30°	1580.0	1610.7	1651.0	1643.0	1630.9
32.5°	1492.1	1522.7	1578.4	1575.2	1568.7
35°	1412.2	1431.6	1496.9	1505.0	1499.3
37.5°	1336.3	1354.1	1415.4	1434.0	1429.1
40°	1256.4	1275.8	1324.2	1357.3	1358.9
42.5°	1177.4	1195.9	1235.5	1283.1	1283.1
45°	1093.4	1112.0	1148.3	1200.8	1207.2
47.5°	1011.1	1030.5	1066.0	1118.5	1128.9
50°	930.4	948.2	983.7	1034.5	1050.7
52.5°	846.5	865.9	900.6	947.4	970.8
55°	765.8	778.7	816.6	861.8	886.9
57.5°	681.9	694.0	736.8	775.5	801.3
60°	601.2	616.5	649.6	689.1	719.0
62.5°	523.7	539.9	568.1	602.8	636.7
65°	448.7	460.8	488.2	522.9	552.8
67.5°	376.0	386.5	414.0	438.2	469.7
70°	302.6	316.3	336.5	359.9	380.1
72.5°	243.7	249.4	266.3	283.2	304.2
75°	180.0	189.6	203.4	213.0	225.1
77.5°	129.1	134.8	142.8	150.9	162.2
80°	86.3	88.8	96.0	97.6	106.5
82.5°	52.5	54.1	55.7	56.5	59.7
85°	28.2	28.2	28.2	26.6	26.6
87.5°	16.1	16.1	13.7	11.3	8.1
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)