

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: P555889

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-84-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: P555889
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-LD4-3STD-30-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

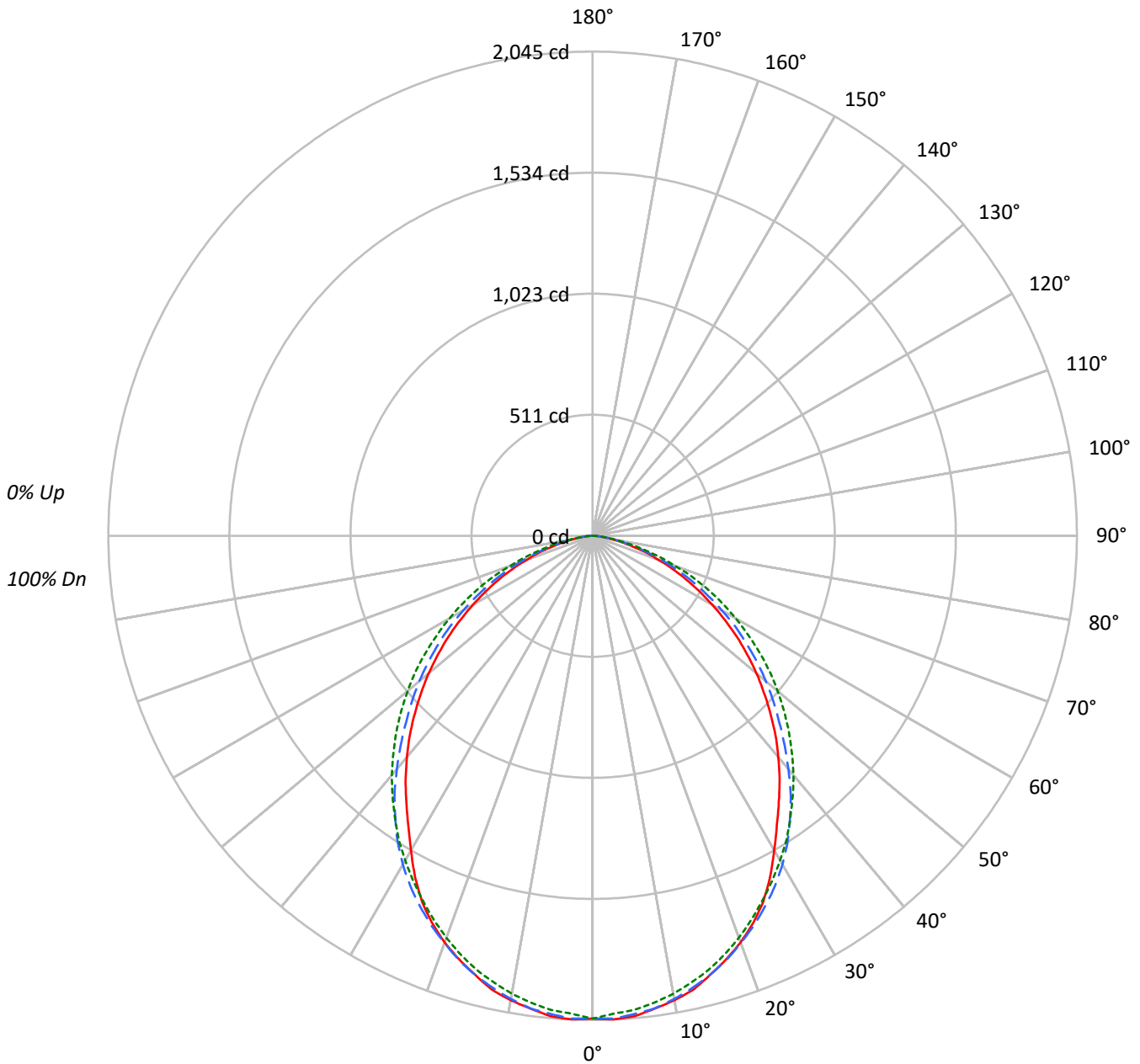
Lumens per Lamp: N/A
Luminaire Lumens: 4715.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	10974	10974	10974
5°	11004	10957	10864
10°	10887	10857	10733
15°	10694	10694	10571
20°	10467	10481	10346
25°	10122	10248	10085
30°	9532	9961	9839
35°	9007	9548	9563
40°	8569	9031	9268
45°	8079	8484	8920
50°	7562	7995	8539
55°	6975	7439	8078
60°	6282	6788	7513
65°	5547	6035	6833
70°	4623	5141	5807
75°	3633	4105	4546
80°	2597	2889	3205
85°	1692	1692	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	4.1
10°-20°	539.4	11.4
20°-30°	788.2	16.7
30°-40°	894.7	19.0
40°-50°	863.7	18.3
50°-60°	712.5	15.1
60°-70°	474.4	10.1
70°-80°	212.3	4.5
80°-90°	38.0	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°	1519.5	32.2
0°-40°	2414.2	51.2
0°-60°	3990.3	84.6
0°-90°	4715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2039	2039	2039	2039	2039	
5°	2037	2036	2028	2017	2011	193
15°	1919	1924	1919	1911	1897	541
25°	1705	1718	1726	1713	1698	781
35°	1371	1390	1453	1461	1456	859
45°	1062	1080	1115	1166	1172	819
55°	743	756	793	837	861	664
65°	436	447	474	508	537	432
75°	175	184	197	207	219	191
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2039.1	2039.1	2039.1	2039.1	2039.1
2.5°	2044.6	2045.4	2040.7	2028.1	2020.3
5°	2036.8	2036.0	2028.1	2017.2	2010.9
7.5°	2014.0	2015.6	2013.3	1997.6	1989.0
10°	1992.1	1992.9	1986.6	1974.1	1963.9
12.5°	1963.9	1963.1	1954.5	1948.2	1931.8
15°	1919.3	1924.0	1919.3	1910.6	1897.3
17.5°	1876.2	1876.2	1879.3	1864.4	1854.2
20°	1827.6	1830.0	1830.0	1818.2	1806.5
22.5°	1771.2	1778.3	1780.6	1768.1	1754.0
25°	1704.6	1717.9	1725.8	1713.2	1698.3
27.5°	1623.9	1644.3	1667.8	1658.4	1641.9
30°	1533.8	1563.6	1602.8	1594.9	1583.2
32.5°	1448.5	1478.2	1532.3	1529.1	1522.9
35°	1370.9	1389.7	1453.2	1461.0	1455.5
37.5°	1297.3	1314.5	1374.0	1392.1	1387.4
40°	1219.7	1238.5	1285.5	1317.6	1319.2
42.5°	1142.9	1161.0	1199.3	1245.6	1245.6
45°	1061.5	1079.5	1114.7	1165.7	1171.9
47.5°	981.6	1000.4	1034.8	1085.8	1095.9
50°	903.2	920.5	954.9	1004.3	1019.9
52.5°	821.8	840.6	874.2	919.7	942.4
55°	743.4	756.0	792.8	836.6	860.9
57.5°	661.9	673.7	715.2	752.8	777.9
60°	583.6	598.5	630.6	669.0	698.0
62.5°	508.4	524.1	551.5	585.2	618.1
65°	435.6	447.3	473.9	507.6	536.6
67.5°	365.1	375.2	401.9	425.4	455.9
70°	293.8	307.1	326.7	349.4	369.0
72.5°	236.6	242.1	258.5	275.0	295.3
75°	174.7	184.1	197.4	206.8	218.6
77.5°	125.3	130.8	138.7	146.5	157.5
80°	83.8	86.2	93.2	94.8	103.4
82.5°	50.9	52.5	54.1	54.8	58.0
85°	27.4	27.4	27.4	25.9	25.9
87.5°	15.7	15.7	13.3	11.0	7.8
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)