

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: P555577

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-80-88-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: P555577
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

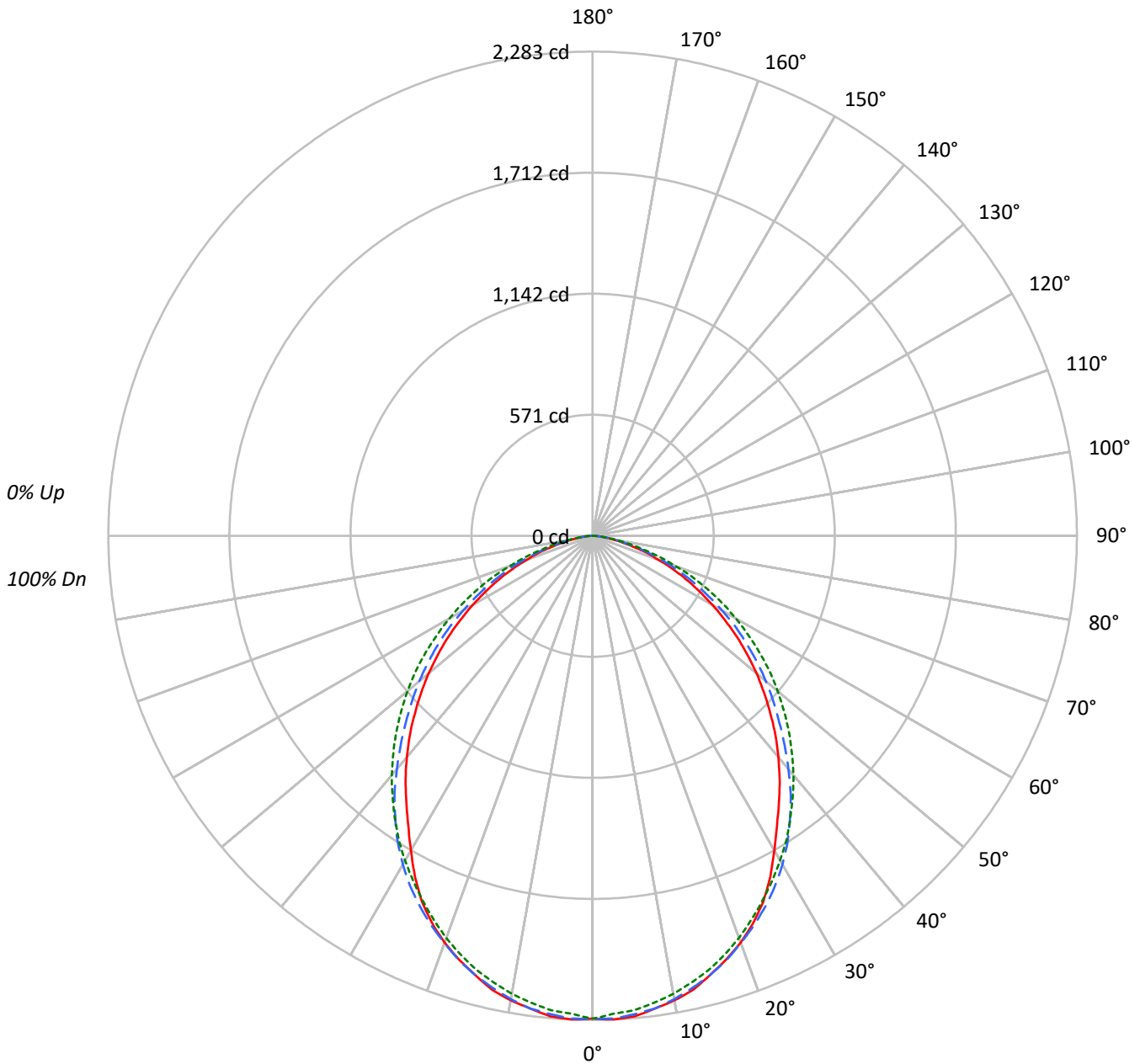
Lumens per Lamp: N/A
Luminaire Lumens: 5265.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555577

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555577

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-88-EDD

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°	12255	12255	12255
5°	12287	12235	12131
10°	12157	12124	11985
15°	11941	11941	11804
20°	11688	11703	11553
25°	11304	11444	11262
30°	10644	11122	10987
35°	10058	10661	10678
40°	9569	10085	10349
45°	9022	9474	9960
50°	8445	8928	9536
55°	7789	8306	9021
60°	7015	7580	8389
65°	6194	6739	7631
70°	5161	5740	6483
75°	4057	4583	5076
80°	2901	3226	3580
85°	1890	1890	1785



TEST NUMBER: P555577

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	4.1
10°-20°	602.3	11.4
20°-30°	880.1	16.7
30°-40°	999.0	19.0
40°-50°	964.4	18.3
50°-60°	795.5	15.1
60°-70°	529.8	10.1
70°-80°	237.1	4.5
80°-90°	42.4	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°	1696.8	32.2
0°-40°	2695.8	51.2
0°-60°	4455.7	84.6
0°-90°	5265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2277	2277	2277	2277	2277	
5°	2274	2274	2265	2252	2246	215
15°	2143	2148	2143	2134	2119	604
25°	1904	1918	1927	1913	1896	872
35°	1531	1552	1623	1631	1625	959
45°	1185	1205	1245	1302	1309	915
55°	830	844	885	934	961	741
65°	486	500	529	567	599	482
75°	195	206	220	231	244	213
85°	31	31	31	29	29	41
90°	0	0	0	0	0	



TEST NUMBER: P555577

CATALOG NUMBER: FUSL-12-2-LD4-3HI-50-UNV-80-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2277.0	2277.0	2277.0	2277.0	2277.0
2.5°	2283.1	2284.0	2278.7	2264.7	2256.0
5°	2274.4	2273.5	2264.7	2252.5	2245.5
7.5°	2249.0	2250.7	2248.1	2230.6	2221.0
10°	2224.5	2225.4	2218.4	2204.4	2193.0
12.5°	2193.0	2192.1	2182.5	2175.5	2157.1
15°	2143.1	2148.4	2143.1	2133.5	2118.6
17.5°	2095.0	2095.0	2098.5	2081.9	2070.5
20°	2040.8	2043.4	2043.4	2030.3	2017.2
22.5°	1977.8	1985.7	1988.3	1974.3	1958.6
25°	1903.5	1918.3	1927.1	1913.1	1896.5
27.5°	1813.4	1836.1	1862.3	1851.8	1833.5
30°	1712.8	1746.0	1789.7	1781.0	1767.9
32.5°	1617.4	1650.7	1711.0	1707.5	1700.5
35°	1530.8	1551.8	1622.7	1631.4	1625.3
37.5°	1448.6	1467.8	1534.3	1554.4	1549.2
40°	1362.0	1383.0	1435.5	1471.3	1473.1
42.5°	1276.3	1296.4	1339.2	1390.9	1390.9
45°	1185.3	1205.4	1244.8	1301.6	1308.6
47.5°	1096.1	1117.1	1155.5	1212.4	1223.8
50°	1008.6	1027.8	1066.3	1121.4	1138.9
52.5°	917.6	938.6	976.2	1027.0	1052.3
55°	830.1	844.1	885.2	934.2	961.4
57.5°	739.2	752.3	798.6	840.6	868.6
60°	651.7	668.3	704.2	747.0	779.4
62.5°	567.7	585.2	615.8	653.4	690.2
65°	486.4	499.5	529.2	566.8	599.2
67.5°	407.6	419.0	448.7	475.0	509.1
70°	328.0	342.9	364.8	390.1	412.0
72.5°	264.2	270.3	288.7	307.0	329.8
75°	195.1	205.6	220.4	230.9	244.1
77.5°	140.0	146.1	154.8	163.6	175.8
80°	93.6	96.2	104.1	105.8	115.5
82.5°	56.9	58.6	60.4	61.2	64.7
85°	30.6	30.6	30.6	28.9	28.9
87.5°	17.5	17.5	14.9	12.2	8.7
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)