

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: P555513

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-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: P555513
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

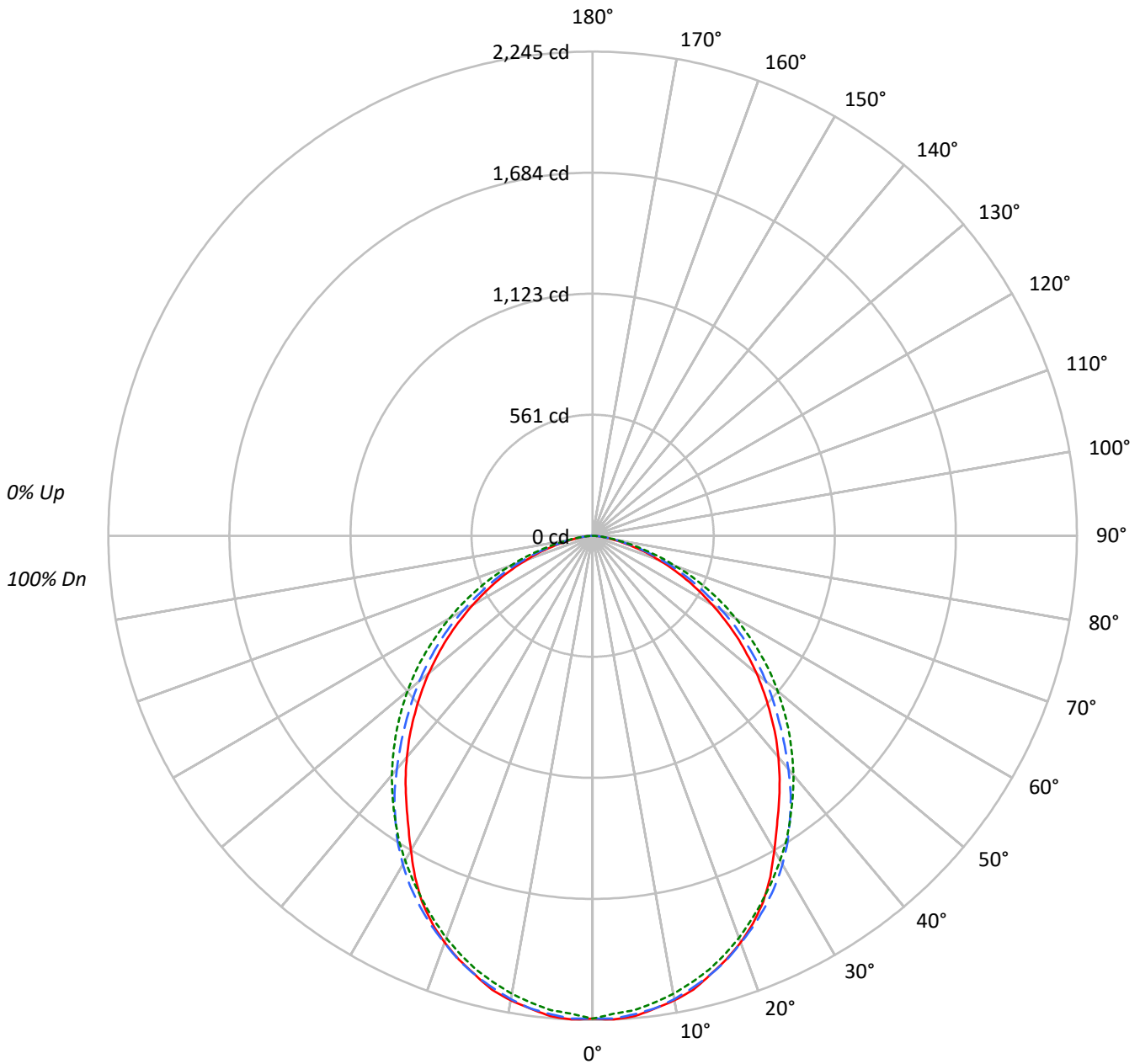
Lumens per Lamp: N/A
Luminaire Lumens: 5177.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P555513

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-80-88-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555513

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-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°	12050	12050	12050
5°	12082	12031	11929
10°	11954	11921	11784
15°	11741	11741	11607
20°	11493	11508	11360
25°	11114	11253	11074
30°	10466	10936	10803
35°	9889	10483	10500
40°	9409	9917	10177
45°	8871	9316	9794
50°	8303	8779	9377
55°	7659	8168	8870
60°	6898	7453	8249
65°	6090	6627	7503
70°	5075	5644	6375
75°	3988	4508	4991
80°	2851	3174	3518
85°	1859	1859	1754



TEST NUMBER: P555513

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-80-88-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	4.1
10°-20°	592.2	11.4
20°-30°	865.4	16.7
30°-40°	982.3	19.0
40°-50°	948.3	18.3
50°-60°	782.3	15.1
60°-70°	520.9	10.1
70°-80°	233.1	4.5
80°-90°	41.7	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°	1668.4	32.2
0°-40°	2650.7	51.2
0°-60°	4381.3	84.6
0°-90°	5177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2236	2236	2227	2215	2208	212
15°	2107	2112	2107	2098	2083	594
25°	1872	1886	1895	1881	1865	857
35°	1505	1526	1596	1604	1598	943
45°	1166	1185	1224	1280	1287	899
55°	816	830	870	919	945	729
65°	478	491	520	557	589	474
75°	192	202	217	227	240	210
85°	30	30	30	28	28	41
90°	0	0	0	0	0	



TEST NUMBER: P555513

CATALOG NUMBER: FUSL-12-2-LD4-3HI-40-UNV-80-88-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2238.9	2238.9	2238.9	2238.9	2238.9
2.5°	2244.9	2245.8	2240.6	2226.9	2218.3
5°	2236.3	2235.5	2226.9	2214.8	2208.0
7.5°	2211.4	2213.1	2210.5	2193.3	2183.9
10°	2187.3	2188.2	2181.3	2167.5	2156.3
12.5°	2156.3	2155.5	2146.0	2139.1	2121.1
15°	2107.3	2112.5	2107.3	2097.9	2083.2
17.5°	2060.0	2060.0	2063.5	2047.1	2035.9
20°	2006.7	2009.3	2009.3	1996.4	1983.5
22.5°	1944.8	1952.5	1955.1	1941.3	1925.8
25°	1871.6	1886.3	1894.9	1881.1	1864.8
27.5°	1783.0	1805.4	1831.2	1820.9	1802.8
30°	1684.1	1716.8	1759.8	1751.2	1738.3
32.5°	1590.4	1623.1	1682.4	1679.0	1672.1
35°	1505.2	1525.9	1595.5	1604.1	1598.1
37.5°	1424.4	1443.3	1508.7	1528.5	1523.3
40°	1339.2	1359.9	1411.5	1446.7	1448.5
42.5°	1254.9	1274.7	1316.9	1367.6	1367.6
45°	1165.5	1185.3	1224.0	1279.9	1286.8
47.5°	1077.7	1098.4	1136.2	1192.1	1203.3
50°	991.7	1010.7	1048.5	1102.7	1119.9
52.5°	902.3	922.9	959.9	1009.8	1034.7
55°	816.3	830.0	870.5	918.6	945.3
57.5°	726.8	739.7	785.3	826.6	854.1
60°	640.8	657.1	692.4	734.6	766.4
62.5°	558.2	575.4	605.5	642.5	678.6
65°	478.2	491.1	520.4	557.4	589.2
67.5°	400.8	412.0	441.2	467.1	500.6
70°	322.5	337.2	358.7	383.6	405.1
72.5°	259.8	265.8	283.8	301.9	324.3
75°	191.8	202.1	216.8	227.1	240.0
77.5°	137.6	143.6	152.2	160.8	172.9
80°	92.0	94.6	102.4	104.1	113.5
82.5°	55.9	57.6	59.3	60.2	63.6
85°	30.1	30.1	30.1	28.4	28.4
87.5°	17.2	17.2	14.6	12.0	8.6
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)