

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: P554230

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-80-87-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: P554230
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-LD4-1LO-40-UNV-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

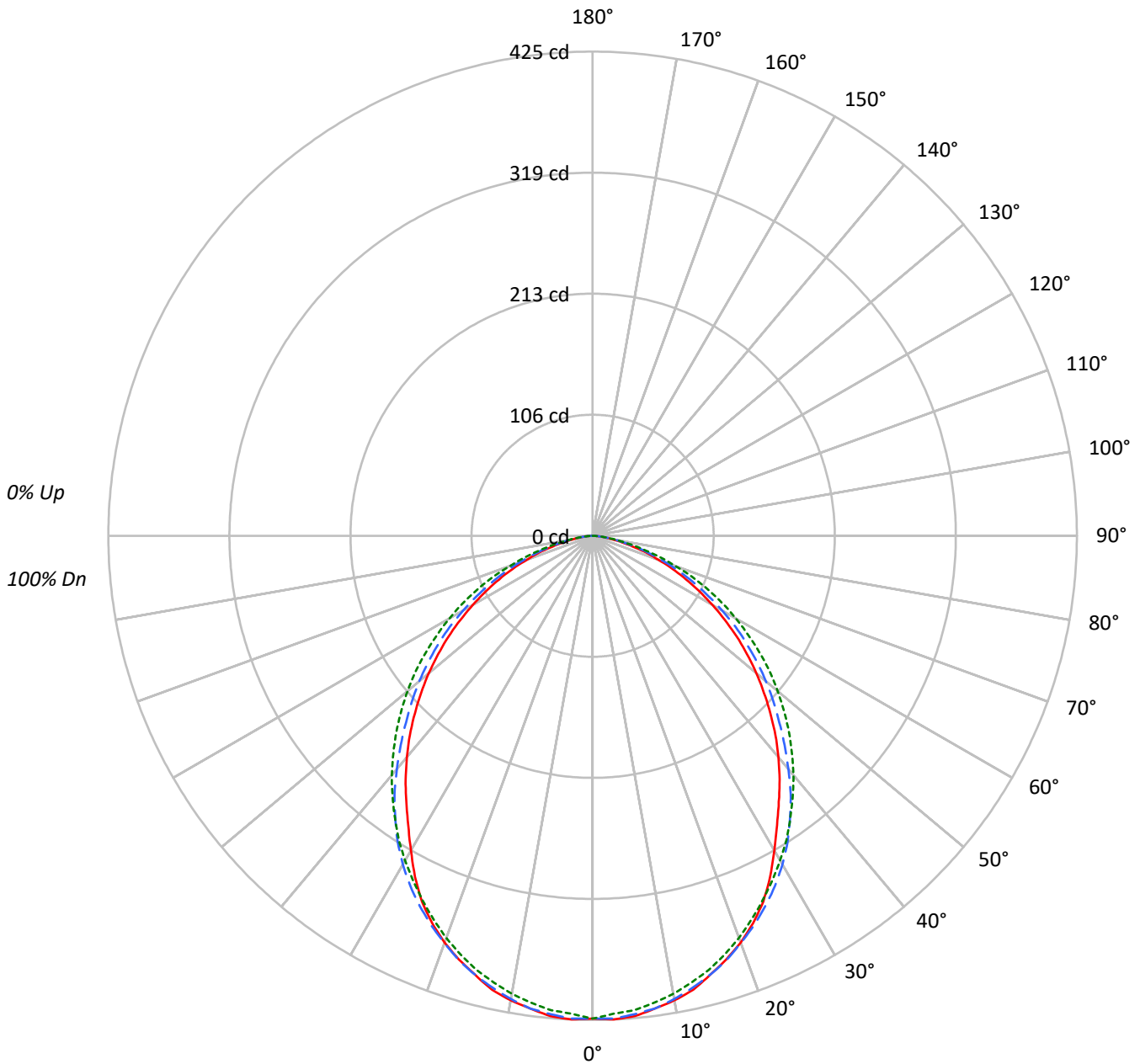
Lumens per Lamp: N/A
Luminaire Lumens: 980.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P554230

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-80-87-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554230

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-80-87-EDD-90

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°	2281	2281	2281
5°	2287	2277	2258
10°	2263	2256	2231
15°	2223	2223	2198
20°	2176	2179	2151
25°	2104	2130	2096
30°	1981	2070	2045
35°	1872	1984	1987
40°	1781	1877	1926
45°	1679	1764	1854
50°	1572	1662	1775
55°	1450	1546	1679
60°	1306	1411	1562
65°	1152	1254	1420
70°	961	1068	1207
75°	755	853	944
80°	539	601	666
85°	352	352	333



TEST NUMBER: P554230

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-80-87-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	4.1
10°-20°	112.1	11.4
20°-30°	163.8	16.7
30°-40°	185.9	19.0
40°-50°	179.5	18.3
50°-60°	148.1	15.1
60°-70°	98.6	10.1
70°-80°	44.1	4.5
80°-90°	7.9	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°	315.8	32.2
0°-40°	501.8	51.2
0°-60°	829.4	84.6
0°-90°	980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	424	424	424	424	424	
5°	423	423	422	419	418	40
15°	399	400	399	397	394	112
25°	354	357	359	356	353	162
35°	285	289	302	304	302	179
45°	221	224	232	242	244	170
55°	154	157	165	174	179	138
65°	90	93	98	106	112	90
75°	36	38	41	43	45	40
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



TEST NUMBER: P554230

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-80-87-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	423.8	423.8	423.8	423.8	423.8
2.5°	425.0	425.1	424.2	421.5	419.9
5°	423.3	423.2	421.5	419.3	418.0
7.5°	418.6	418.9	418.5	415.2	413.4
10°	414.1	414.2	412.9	410.3	408.2
12.5°	408.2	408.0	406.2	404.9	401.5
15°	398.9	399.9	398.9	397.1	394.4
17.5°	390.0	390.0	390.6	387.5	385.4
20°	379.9	380.4	380.4	377.9	375.5
22.5°	368.1	369.6	370.1	367.5	364.6
25°	354.3	357.1	358.7	356.1	353.0
27.5°	337.5	341.8	346.6	344.7	341.3
30°	318.8	325.0	333.1	331.5	329.1
32.5°	301.1	307.2	318.5	317.8	316.5
35°	284.9	288.8	302.0	303.7	302.5
37.5°	269.6	273.2	285.6	289.3	288.4
40°	253.5	257.4	267.2	273.9	274.2
42.5°	237.6	241.3	249.3	258.9	258.9
45°	220.6	224.4	231.7	242.3	243.6
47.5°	204.0	207.9	215.1	225.7	227.8
50°	187.7	191.3	198.5	208.7	212.0
52.5°	170.8	174.7	181.7	191.2	195.9
55°	154.5	157.1	164.8	173.9	178.9
57.5°	137.6	140.0	148.7	156.5	161.7
60°	121.3	124.4	131.1	139.0	145.1
62.5°	105.7	108.9	114.6	121.6	128.5
65°	90.5	93.0	98.5	105.5	111.5
67.5°	75.9	78.0	83.5	88.4	94.8
70°	61.1	63.8	67.9	72.6	76.7
72.5°	49.2	50.3	53.7	57.2	61.4
75°	36.3	38.3	41.0	43.0	45.4
77.5°	26.1	27.2	28.8	30.4	32.7
80°	17.4	17.9	19.4	19.7	21.5
82.5°	10.6	10.9	11.2	11.4	12.0
85°	5.7	5.7	5.7	5.4	5.4
87.5°	3.3	3.3	2.8	2.3	1.6
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)