

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: P554108

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-80-96-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: P554108
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-30-UNV-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

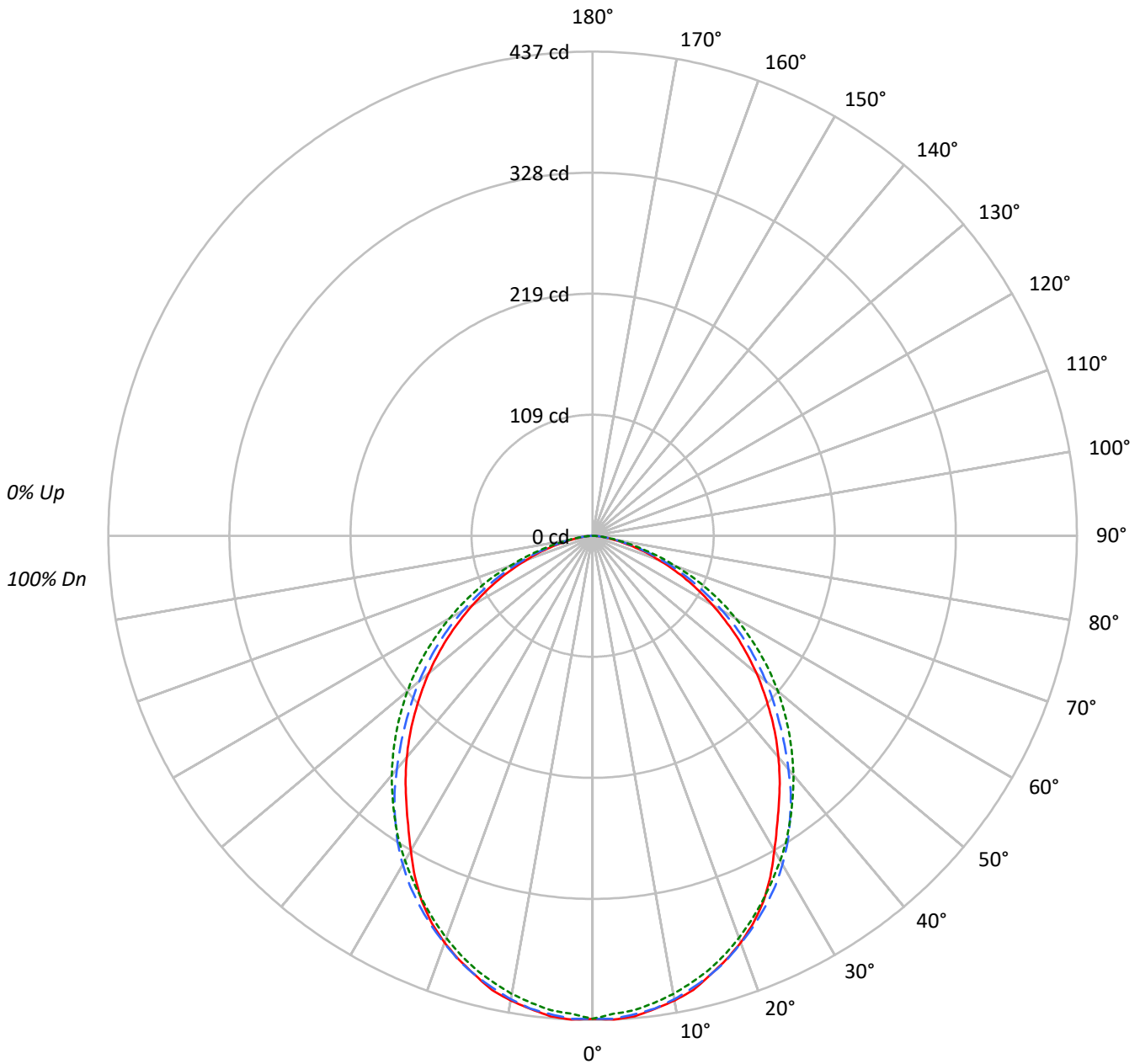
Lumens per Lamp: N/A
Luminaire Lumens: 1008.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P554108

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-80-96-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554108

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-80-96-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°	2346	2346	2346
5°	2352	2343	2323
10°	2328	2321	2295
15°	2286	2286	2260
20°	2238	2241	2212
25°	2164	2191	2156
30°	2038	2130	2104
35°	1926	2041	2045
40°	1832	1931	1981
45°	1727	1814	1907
50°	1617	1710	1826
55°	1491	1590	1727
60°	1343	1451	1606
65°	1186	1290	1461
70°	988	1098	1242
75°	776	878	971
80°	555	617	685
85°	364	364	340



TEST NUMBER: P554108

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-80-96-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	4.1
10°-20°	115.3	11.4
20°-30°	168.5	16.7
30°-40°	191.3	19.0
40°-50°	184.6	18.3
50°-60°	152.3	15.1
60°-70°	101.4	10.1
70°-80°	45.4	4.5
80°-90°	8.1	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°	324.9	32.2
0°-40°	516.1	51.2
0°-60°	853.1	84.6
0°-90°	1008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	435	435	434	431	430	41
15°	410	411	410	408	406	116
25°	364	367	369	366	363	167
35°	293	297	311	312	311	184
45°	227	231	238	249	250	175
55°	159	162	170	179	184	142
65°	93	96	101	108	115	92
75°	37	39	42	44	47	41
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



TEST NUMBER: P554108

CATALOG NUMBER: FUSL-12-2-LD4-1LO-30-UNV-80-96-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	435.9	435.9	435.9	435.9	435.9
2.5°	437.1	437.3	436.3	433.6	431.9
5°	435.4	435.3	433.6	431.2	429.9
7.5°	430.6	430.9	430.4	427.1	425.2
10°	425.9	426.1	424.7	422.0	419.9
12.5°	419.9	419.7	417.8	416.5	413.0
15°	410.3	411.3	410.3	408.5	405.6
17.5°	401.1	401.1	401.8	398.6	396.4
20°	390.7	391.2	391.2	388.7	386.2
22.5°	378.7	380.2	380.7	378.0	375.0
25°	364.4	367.3	368.9	366.3	363.1
27.5°	347.2	351.5	356.6	354.5	351.0
30°	327.9	334.3	342.7	341.0	338.5
32.5°	309.7	316.0	327.6	326.9	325.6
35°	293.1	297.1	310.7	312.3	311.2
37.5°	277.3	281.0	293.7	297.6	296.6
40°	260.8	264.8	274.8	281.7	282.0
42.5°	244.3	248.2	256.4	266.3	266.3
45°	226.9	230.8	238.3	249.2	250.5
47.5°	209.8	213.9	221.2	232.1	234.3
50°	193.1	196.8	204.2	214.7	218.1
52.5°	175.7	179.7	186.9	196.6	201.5
55°	158.9	161.6	169.5	178.9	184.1
57.5°	141.5	144.0	152.9	160.9	166.3
60°	124.8	127.9	134.8	143.0	149.2
62.5°	108.7	112.0	117.9	125.1	132.1
65°	93.1	95.6	101.3	108.5	114.7
67.5°	78.0	80.2	85.9	90.9	97.5
70°	62.8	65.6	69.8	74.7	78.9
72.5°	50.6	51.7	55.3	58.8	63.1
75°	37.3	39.4	42.2	44.2	46.7
77.5°	26.8	28.0	29.6	31.3	33.7
80°	17.9	18.4	19.9	20.3	22.1
82.5°	10.9	11.2	11.6	11.7	12.4
85°	5.9	5.9	5.9	5.5	5.5
87.5°	3.3	3.3	2.8	2.3	1.7
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)