

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: P554189

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-81-96-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: P554189
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-35-UNV-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

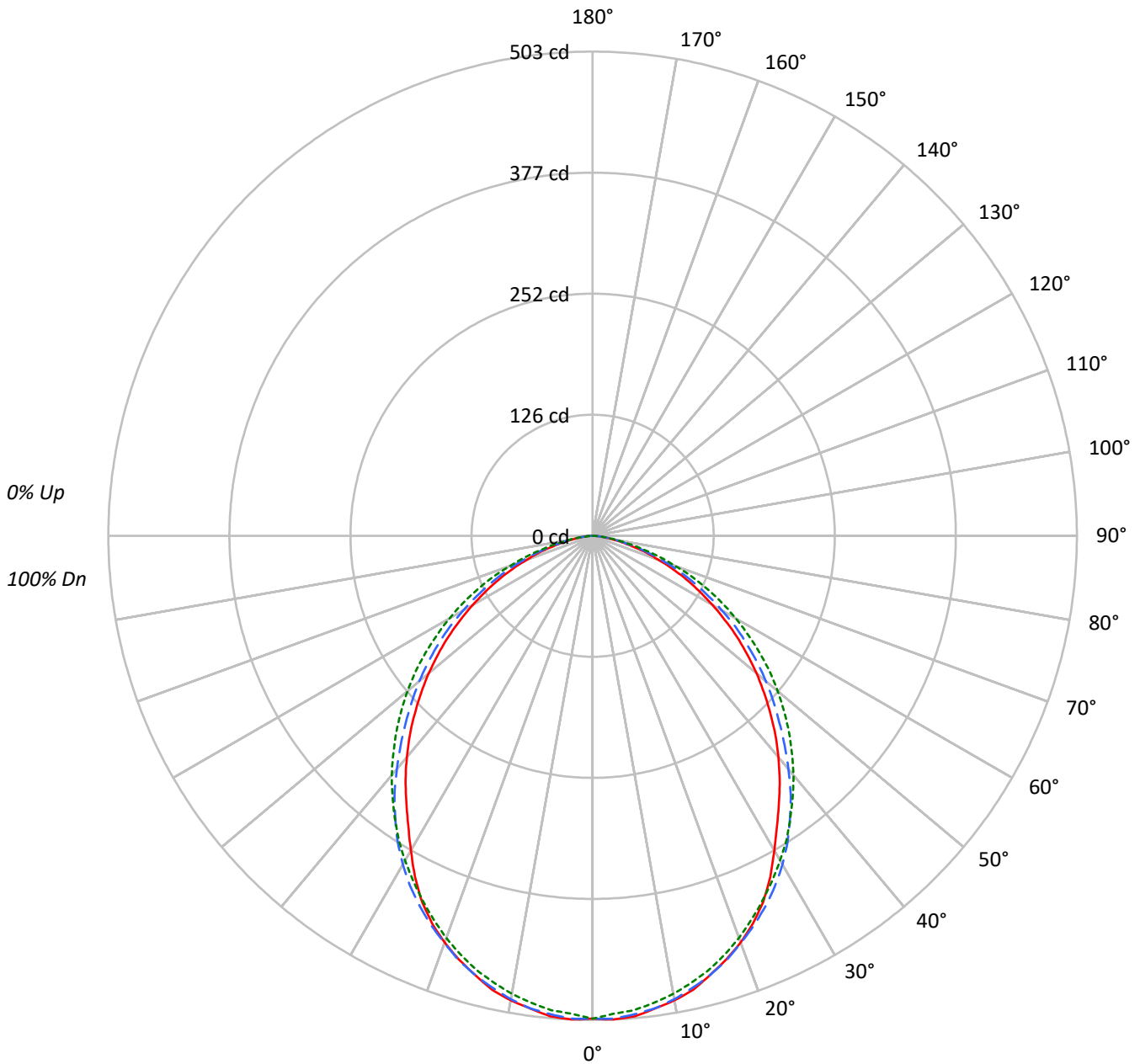
Lumens per Lamp: N/A
Luminaire Lumens: 1160.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P554189

CATALOG NUMBER: FUSL-12-2-LD4-1LO-35-UNV-81-96-EDD

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°	2700	2700	2700
5°	2707	2696	2673
10°	2678	2671	2641
15°	2631	2631	2601
20°	2575	2578	2545
25°	2491	2521	2481
30°	2345	2450	2421
35°	2216	2349	2353
40°	2108	2222	2281
45°	1987	2088	2194
50°	1860	1967	2101
55°	1716	1830	1987
60°	1546	1669	1848
65°	1365	1485	1681
70°	1138	1265	1429
75°	894	1011	1119
80°	638	710	787
85°	414	414	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	4.1
10°-20°	132.7	11.4
20°-30°	193.9	16.7
30°-40°	220.1	19.0
40°-50°	212.5	18.3
50°-60°	175.3	15.1
60°-70°	116.7	10.1
70°-80°	52.2	4.5
80°-90°	9.3	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°	373.8	32.2
0°-40°	594.0	51.2
0°-60°	981.7	84.6
0°-90°	1160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1160.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	501	501	499	496	495	47
15°	472	473	472	470	467	133
25°	419	423	425	422	418	192
35°	337	342	358	359	358	211
45°	261	266	274	287	288	201
55°	183	186	195	206	212	163
65°	107	110	117	125	132	106
75°	43	45	49	51	54	47
85°	7	7	7	6	6	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	501.7	501.7	501.7	501.7	501.7
2.5°	503.0	503.2	502.1	499.0	497.0
5°	501.1	500.9	499.0	496.3	494.7
7.5°	495.5	495.9	495.3	491.5	489.3
10°	490.1	490.3	488.8	485.7	483.2
12.5°	483.2	483.0	480.9	479.3	475.3
15°	472.2	473.3	472.2	470.1	466.8
17.5°	461.6	461.6	462.4	458.7	456.2
20°	449.6	450.2	450.2	447.3	444.4
22.5°	435.8	437.5	438.1	435.0	431.5
25°	419.4	422.7	424.6	421.5	417.8
27.5°	399.5	404.5	410.3	408.0	404.0
30°	377.4	384.7	394.3	392.4	389.5
32.5°	356.4	363.7	377.0	376.2	374.7
35°	337.3	341.9	357.5	359.4	358.1
37.5°	319.2	323.4	338.0	342.5	341.3
40°	300.1	304.7	316.3	324.2	324.6
42.5°	281.2	285.6	295.1	306.4	306.4
45°	261.1	265.6	274.3	286.8	288.3
47.5°	241.5	246.1	254.6	267.1	269.6
50°	222.2	226.5	234.9	247.1	250.9
52.5°	202.2	206.8	215.1	226.3	231.9
55°	182.9	186.0	195.0	205.8	211.8
57.5°	162.9	165.7	176.0	185.2	191.4
60°	143.6	147.2	155.1	164.6	171.7
62.5°	125.1	128.9	135.7	144.0	152.1
65°	107.2	110.0	116.6	124.9	132.0
67.5°	89.8	92.3	98.9	104.7	112.2
70°	72.3	75.5	80.4	86.0	90.8
72.5°	58.2	59.6	63.6	67.6	72.7
75°	43.0	45.3	48.6	50.9	53.8
77.5°	30.8	32.2	34.1	36.0	38.7
80°	20.6	21.2	22.9	23.3	25.4
82.5°	12.5	12.9	13.3	13.5	14.3
85°	6.7	6.7	6.7	6.4	6.4
87.5°	3.9	3.9	3.3	2.7	1.9
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)