

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: P554109

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-80-96-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: P554109
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
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

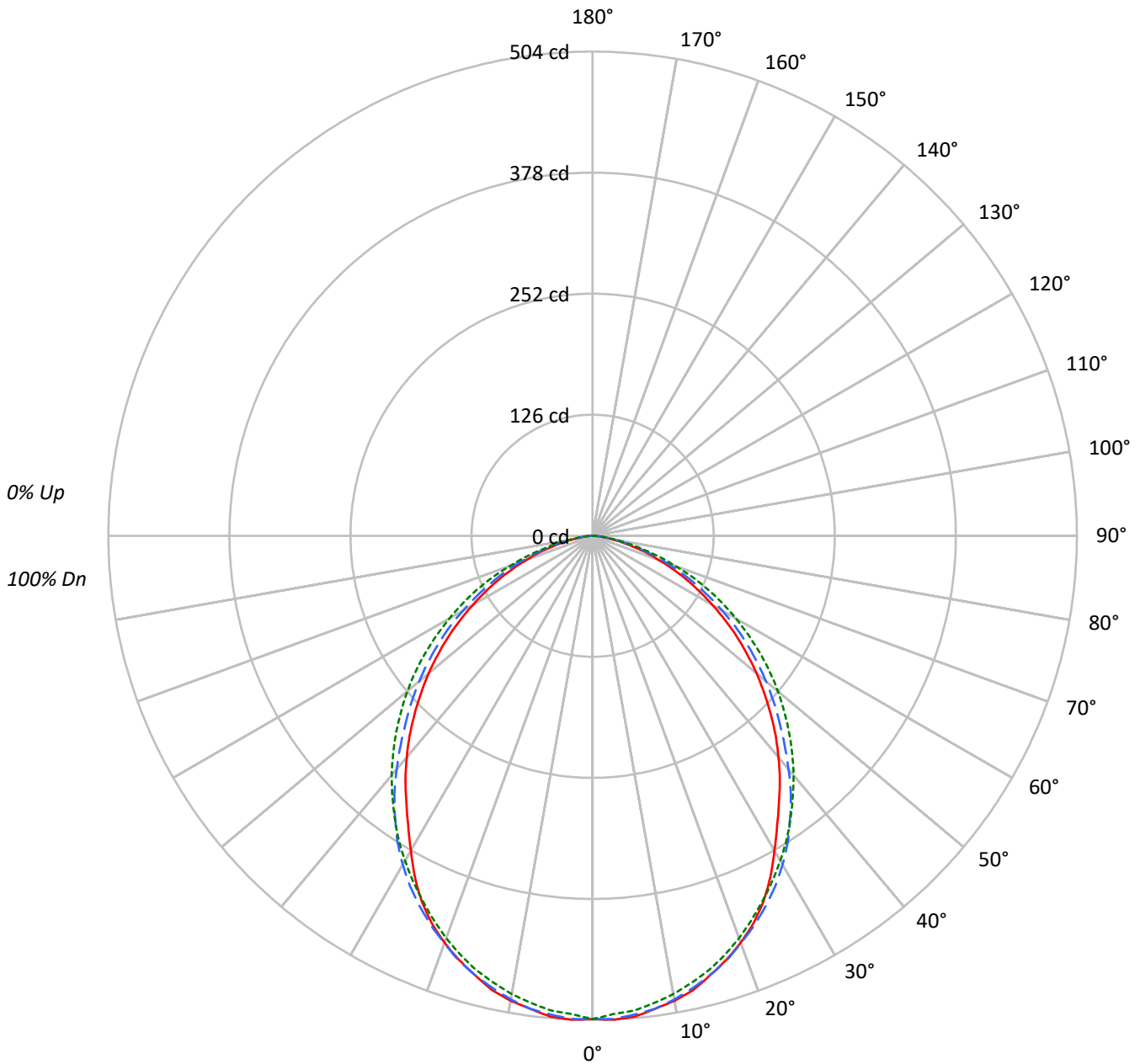
Lumens per Lamp: N/A
Luminaire Lumens: 1163.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	2707	2707	2707
5°	2714	2703	2680
10°	2685	2678	2647
15°	2638	2638	2608
20°	2582	2585	2552
25°	2497	2528	2488
30°	2351	2457	2427
35°	2221	2355	2359
40°	2114	2228	2286
45°	1993	2093	2200
50°	1865	1972	2107
55°	1721	1834	1993
60°	1550	1674	1854
65°	1368	1489	1686
70°	1141	1268	1432
75°	896	1013	1121
80°	642	713	790
85°	420	420	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	4.1
10°-20°	133.0	11.4
20°-30°	194.4	16.7
30°-40°	220.7	19.0
40°-50°	213.0	18.3
50°-60°	175.7	15.1
60°-70°	117.0	10.1
70°-80°	52.4	4.5
80°-90°	9.4	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°	374.8	32.2
0°-40°	595.5	51.2
0°-60°	984.2	84.6
0°-90°	1163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	503	503	503	503	503	
5°	502	502	500	498	496	48
15°	473	475	473	471	468	133
25°	420	424	426	423	419	193
35°	338	343	358	360	359	212
45°	262	266	275	288	289	202
55°	183	186	196	206	212	164
65°	107	110	117	125	132	107
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°	503.0	503.0	503.0	503.0	503.0
2.5°	504.3	504.5	503.4	500.3	498.3
5°	502.4	502.2	500.3	497.6	496.0
7.5°	496.8	497.2	496.6	492.7	490.6
10°	491.4	491.6	490.0	486.9	484.4
12.5°	484.4	484.2	482.1	480.6	476.5
15°	473.4	474.6	473.4	471.3	468.0
17.5°	462.8	462.8	463.5	459.9	457.4
20°	450.8	451.4	451.4	448.5	445.6
22.5°	436.9	438.6	439.2	436.1	432.6
25°	420.5	423.7	425.7	422.6	418.9
27.5°	400.6	405.6	411.4	409.1	405.0
30°	378.3	385.7	395.3	393.4	390.5
32.5°	357.3	364.6	378.0	377.2	375.6
35°	338.1	342.8	358.4	360.4	359.0
37.5°	320.0	324.2	338.9	343.4	342.2
40°	300.9	305.5	317.1	325.0	325.4
42.5°	281.9	286.4	295.8	307.2	307.2
45°	261.8	266.3	275.0	287.5	289.1
47.5°	242.1	246.7	255.3	267.8	270.3
50°	222.8	227.0	235.5	247.7	251.6
52.5°	202.7	207.3	215.6	226.8	232.5
55°	183.4	186.5	195.5	206.4	212.4
57.5°	163.3	166.2	176.4	185.7	191.9
60°	144.0	147.6	155.5	165.0	172.2
62.5°	125.4	129.3	136.0	144.3	152.5
65°	107.4	110.3	116.9	125.2	132.4
67.5°	90.0	92.6	99.1	104.9	112.5
70°	72.5	75.7	80.6	86.2	91.0
72.5°	58.4	59.7	63.8	67.8	72.8
75°	43.1	45.4	48.7	51.0	53.9
77.5°	30.9	32.3	34.2	36.1	38.8
80°	20.7	21.3	23.0	23.4	25.5
82.5°	12.6	12.9	13.3	13.5	14.3
85°	6.8	6.8	6.8	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)