

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: P554106

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-80-94-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: P554106
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-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

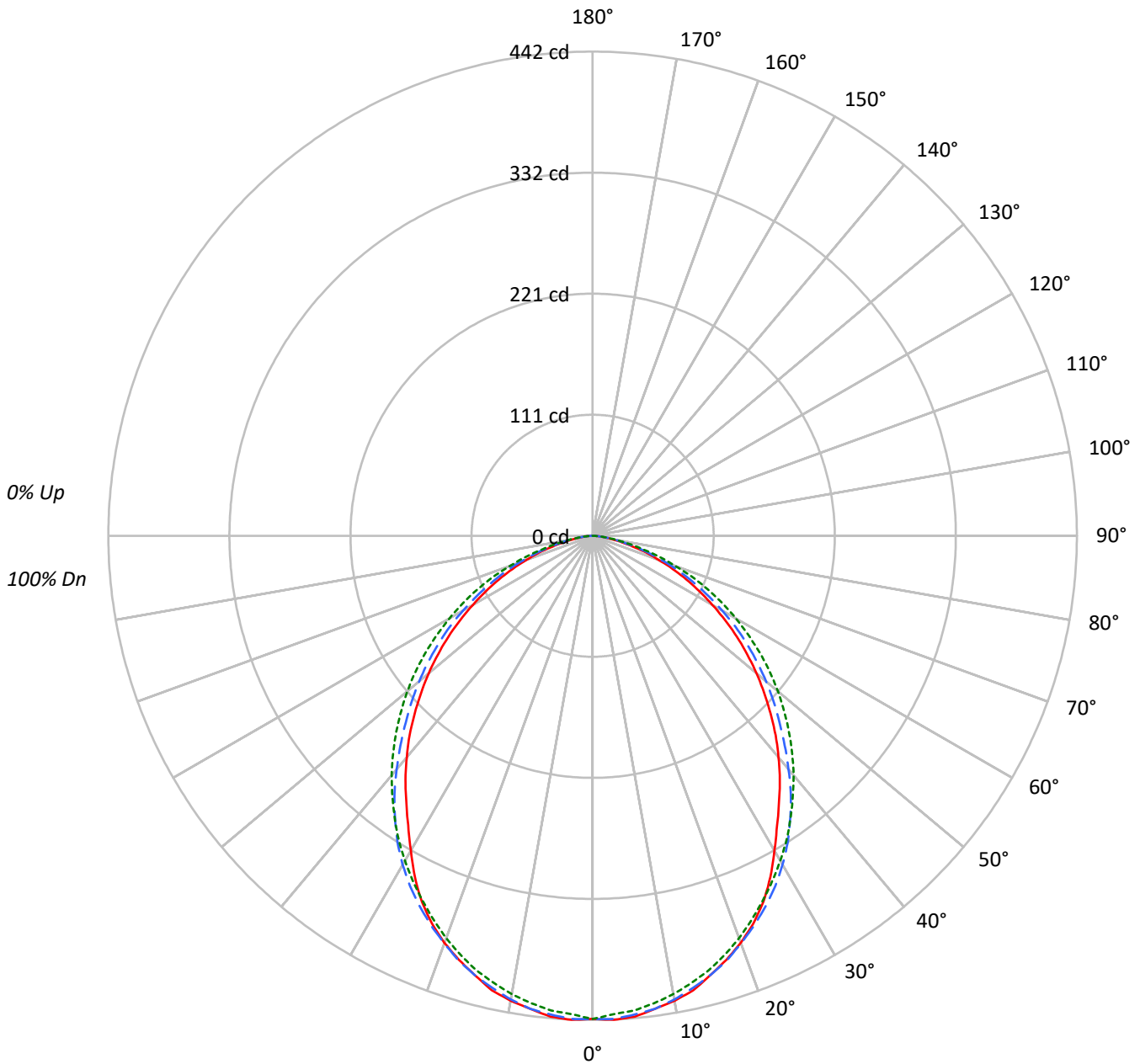
Lumens per Lamp: N/A
Luminaire Lumens: 1020.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	2374	2374	2374
5°	2380	2371	2350
10°	2355	2349	2322
15°	2313	2313	2287
20°	2265	2267	2238
25°	2190	2217	2182
30°	2062	2155	2128
35°	1949	2066	2069
40°	1854	1954	2005
45°	1748	1836	1929
50°	1636	1730	1847
55°	1509	1609	1747
60°	1359	1468	1625
65°	1200	1305	1479
70°	1001	1113	1256
75°	786	888	984
80°	561	626	694
85°	364	364	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	4.1
10°-20°	116.7	11.4
20°-30°	170.5	16.7
30°-40°	193.5	19.0
40°-50°	186.8	18.3
50°-60°	154.1	15.1
60°-70°	102.6	10.1
70°-80°	45.9	4.5
80°-90°	8.2	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°	328.7	32.2
0°-40°	522.3	51.2
0°-60°	863.2	84.6
0°-90°	1020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	441	440	439	436	435	42
15°	415	416	415	413	410	117
25°	369	372	373	371	367	169
35°	297	301	314	316	315	186
45°	230	234	241	252	254	177
55°	161	164	172	181	186	144
65°	94	97	102	110	116	93
75°	38	40	43	45	47	41
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.1	441.1	441.1	441.1	441.1
2.5°	442.3	442.5	441.5	438.8	437.1
5°	440.6	440.4	438.8	436.4	435.0
7.5°	435.7	436.0	435.5	432.1	430.3
10°	431.0	431.1	429.8	427.1	424.9
12.5°	424.9	424.7	422.8	421.5	417.9
15°	415.2	416.2	415.2	413.3	410.5
17.5°	405.9	405.9	406.6	403.3	401.1
20°	395.4	395.9	395.9	393.3	390.8
22.5°	383.2	384.7	385.2	382.5	379.4
25°	368.8	371.6	373.3	370.6	367.4
27.5°	351.3	355.7	360.8	358.8	355.2
30°	331.8	338.3	346.7	345.0	342.5
32.5°	313.3	319.8	331.5	330.8	329.4
35°	296.6	300.6	314.4	316.1	314.9
37.5°	280.6	284.4	297.2	301.1	300.1
40°	263.9	267.9	278.1	285.0	285.4
42.5°	247.3	251.2	259.5	269.5	269.5
45°	229.6	233.5	241.2	252.2	253.5
47.5°	212.3	216.4	223.9	234.9	237.1
50°	195.4	199.1	206.6	217.3	220.6
52.5°	177.8	181.8	189.1	199.0	203.9
55°	160.8	163.5	171.5	181.0	186.2
57.5°	143.2	145.7	154.7	162.9	168.3
60°	126.3	129.5	136.4	144.7	151.0
62.5°	110.0	113.4	119.3	126.6	133.7
65°	94.2	96.8	102.5	109.8	116.1
67.5°	79.0	81.2	86.9	92.0	98.6
70°	63.6	66.4	70.7	75.6	79.8
72.5°	51.2	52.4	55.9	59.5	63.9
75°	37.8	39.8	42.7	44.7	47.3
77.5°	27.1	28.3	30.0	31.7	34.1
80°	18.1	18.6	20.2	20.5	22.4
82.5°	11.0	11.4	11.7	11.9	12.5
85°	5.9	5.9	5.9	5.6	5.6
87.5°	3.4	3.4	2.9	2.4	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)