

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: P554167

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-80-87-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: P554167
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-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

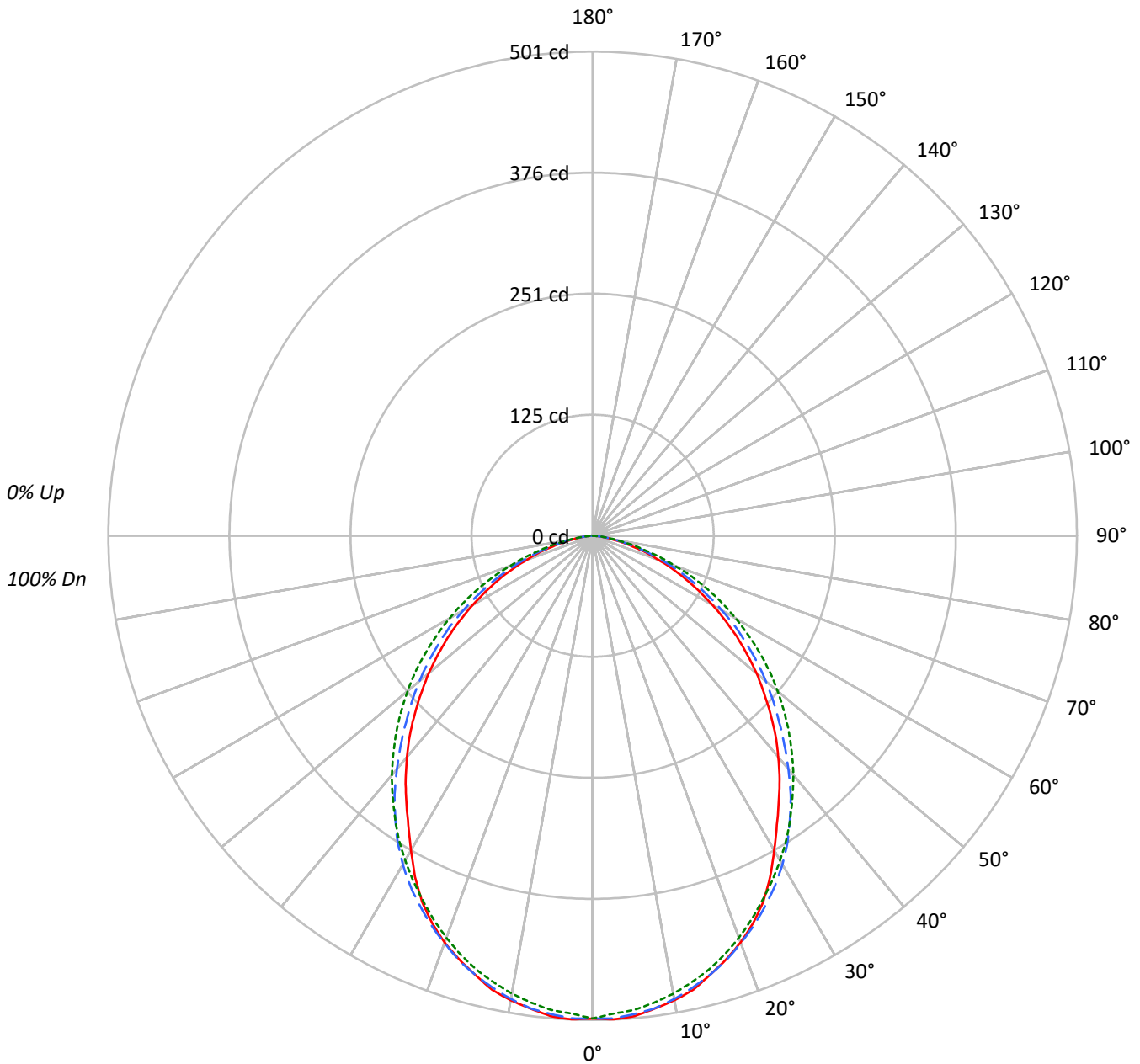
Lumens per Lamp: N/A
Luminaire Lumens: 1155.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (Ain): 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°	2688	2688	2688
5°	2695	2684	2661
10°	2667	2660	2629
15°	2619	2619	2590
20°	2564	2568	2534
25°	2480	2510	2470
30°	2335	2440	2410
35°	2206	2339	2342
40°	2099	2212	2271
45°	1979	2079	2185
50°	1853	1958	2092
55°	1709	1822	1979
60°	1539	1663	1841
65°	1359	1479	1673
70°	1133	1259	1423
75°	890	1006	1112
80°	635	707	784
85°	414	414	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	4.1
10°-20°	132.1	11.4
20°-30°	193.1	16.7
30°-40°	219.2	19.0
40°-50°	211.6	18.3
50°-60°	174.5	15.1
60°-70°	116.2	10.1
70°-80°	52.0	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°	372.2	32.2
0°-40°	591.4	51.2
0°-60°	977.5	84.6
0°-90°	1155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	499	499	497	494	493	47
15°	470	471	470	468	465	133
25°	418	421	423	420	416	191
35°	336	340	356	358	356	210
45°	260	264	273	286	287	201
55°	182	185	194	205	211	163
65°	107	110	116	124	131	106
75°	43	45	48	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°	499.5	499.5	499.5	499.5	499.5
2.5°	500.9	501.0	499.9	496.8	494.9
5°	498.9	498.7	496.8	494.1	492.6
7.5°	493.4	493.8	493.2	489.3	487.2
10°	488.0	488.2	486.7	483.6	481.1
12.5°	481.1	480.9	478.8	477.2	473.2
15°	470.1	471.3	470.1	468.0	464.8
17.5°	459.6	459.6	460.4	456.7	454.2
20°	447.7	448.3	448.3	445.4	442.5
22.5°	433.9	435.6	436.2	433.1	429.7
25°	417.6	420.8	422.7	419.7	416.0
27.5°	397.8	402.8	408.5	406.2	402.2
30°	375.7	383.0	392.6	390.7	387.8
32.5°	354.8	362.1	375.4	374.6	373.0
35°	335.8	340.4	356.0	357.9	356.5
37.5°	317.8	322.0	336.6	341.0	339.8
40°	298.8	303.4	314.9	322.8	323.2
42.5°	280.0	284.4	293.8	305.1	305.1
45°	260.0	264.4	273.1	285.5	287.1
47.5°	240.4	245.1	253.5	266.0	268.5
50°	221.3	225.5	233.9	246.0	249.8
52.5°	201.3	205.9	214.2	225.3	230.9
55°	182.1	185.2	194.2	204.9	210.9
57.5°	162.2	165.0	175.2	184.4	190.6
60°	143.0	146.6	154.5	163.9	171.0
62.5°	124.5	128.4	135.1	143.3	151.4
65°	106.7	109.6	116.1	124.3	131.4
67.5°	89.4	91.9	98.4	104.2	111.7
70°	72.0	75.2	80.0	85.6	90.4
72.5°	58.0	59.3	63.3	67.4	72.3
75°	42.8	45.1	48.4	50.7	53.5
77.5°	30.7	32.0	34.0	35.9	38.6
80°	20.5	21.1	22.8	23.2	25.3
82.5°	12.5	12.9	13.2	13.4	14.2
85°	6.7	6.7	6.7	6.3	6.3
87.5°	3.8	3.8	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)