

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: P554174

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-80-97-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: P554174
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-80-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

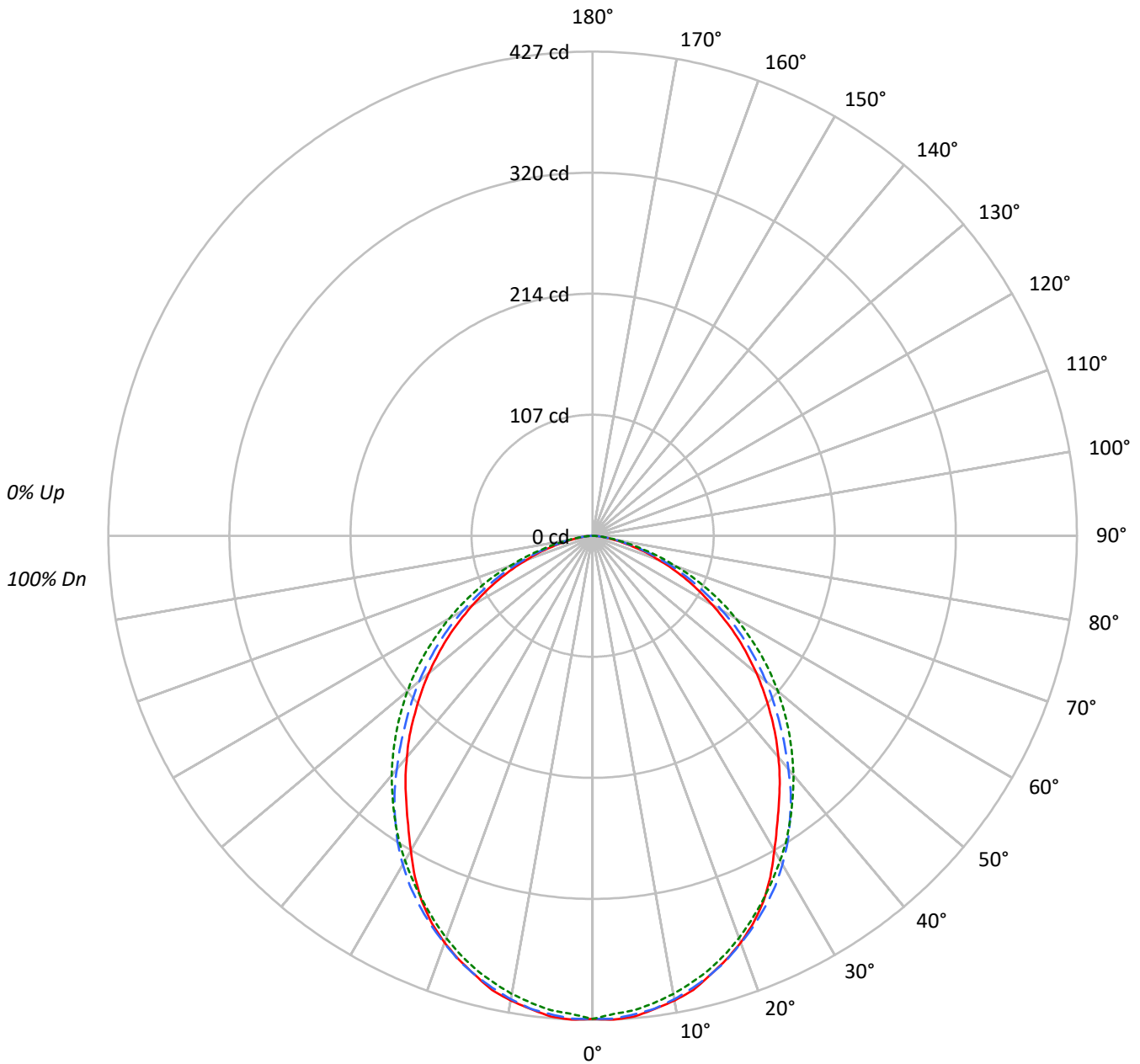
Lumens per Lamp: N/A
Luminaire Lumens: 985.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2293	2293	2293
5°	2299	2289	2270
10°	2275	2268	2242
15°	2234	2234	2209
20°	2187	2190	2162
25°	2115	2141	2107
30°	1991	2081	2055
35°	1882	1995	1998
40°	1790	1887	1936
45°	1687	1773	1863
50°	1580	1670	1784
55°	1457	1554	1688
60°	1312	1418	1569
65°	1159	1261	1428
70°	966	1073	1213
75°	759	857	950
80°	542	604	669
85°	352	352	333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	4.1
10°-20°	112.7	11.4
20°-30°	164.7	16.7
30°-40°	186.9	19.0
40°-50°	180.4	18.3
50°-60°	148.8	15.1
60°-70°	99.1	10.1
70°-80°	44.4	4.5
80°-90°	7.9	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°	317.4	32.2
0°-40°	504.3	51.2
0°-60°	833.6	84.6
0°-90°	985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	426	425	424	421	420	40
15°	401	402	401	399	396	113
25°	356	359	360	358	355	163
35°	286	290	304	305	304	179
45°	222	226	233	244	245	171
55°	155	158	166	175	180	139
65°	91	93	99	106	112	90
75°	36	38	41	43	46	40
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	426.0	426.0	426.0	426.0	426.0
2.5°	427.1	427.3	426.3	423.7	422.1
5°	425.5	425.3	423.7	421.4	420.1
7.5°	420.8	421.1	420.6	417.3	415.5
10°	416.2	416.3	415.0	412.4	410.3
12.5°	410.3	410.1	408.3	407.0	403.6
15°	400.9	401.9	400.9	399.1	396.4
17.5°	391.9	391.9	392.6	389.5	387.4
20°	381.8	382.3	382.3	379.8	377.4
22.5°	370.0	371.5	372.0	369.4	366.4
25°	356.1	358.9	360.5	357.9	354.8
27.5°	339.3	343.5	348.4	346.5	343.0
30°	320.4	326.7	334.8	333.2	330.7
32.5°	302.6	308.8	320.1	319.4	318.1
35°	286.4	290.3	303.6	305.2	304.1
37.5°	271.0	274.6	287.0	290.8	289.8
40°	254.8	258.7	268.6	275.3	275.6
42.5°	238.8	242.5	250.6	260.2	260.2
45°	221.7	225.5	232.9	243.5	244.8
47.5°	205.1	209.0	216.2	226.8	228.9
50°	188.7	192.3	199.5	209.8	213.1
52.5°	171.7	175.6	182.6	192.1	196.9
55°	155.3	157.9	165.6	174.8	179.9
57.5°	138.3	140.7	149.4	157.3	162.5
60°	121.9	125.0	131.7	139.8	145.8
62.5°	106.2	109.5	115.2	122.2	129.1
65°	91.0	93.4	99.0	106.0	112.1
67.5°	76.3	78.4	84.0	88.9	95.2
70°	61.4	64.2	68.2	73.0	77.1
72.5°	49.4	50.6	54.0	57.4	61.7
75°	36.5	38.5	41.2	43.2	45.7
77.5°	26.2	27.3	29.0	30.6	32.9
80°	17.5	18.0	19.5	19.8	21.6
82.5°	10.6	11.0	11.3	11.5	12.1
85°	5.7	5.7	5.7	5.4	5.4
87.5°	3.3	3.3	2.8	2.3	1.6
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)