

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: P554222

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-93-97-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: P554222
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-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

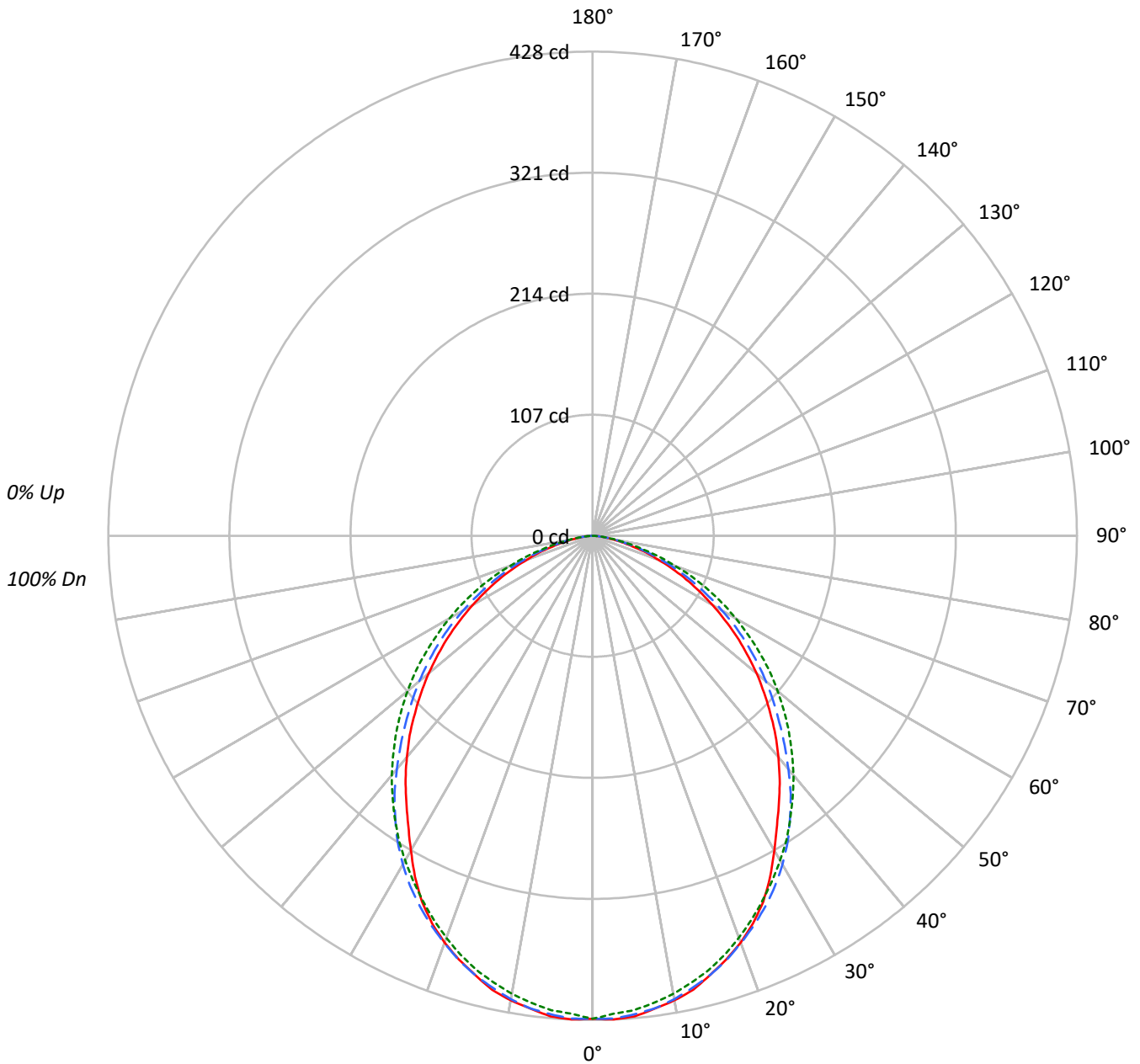
Lumens per Lamp: N/A
Luminaire Lumens: 987.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2298	2298	2298
5°	2304	2294	2274
10°	2279	2273	2247
15°	2239	2239	2213
20°	2191	2194	2166
25°	2119	2146	2111
30°	1995	2085	2060
35°	1886	1999	2002
40°	1794	1891	1940
45°	1691	1776	1867
50°	1583	1674	1788
55°	1460	1558	1691
60°	1315	1421	1573
65°	1161	1263	1430
70°	968	1076	1215
75°	761	859	952
80°	542	604	669
85°	352	352	333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	4.1
10°-20°	112.9	11.4
20°-30°	165.0	16.7
30°-40°	187.3	19.0
40°-50°	180.8	18.3
50°-60°	149.1	15.1
60°-70°	99.3	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°	318.1	32.2
0°-40°	505.4	51.2
0°-60°	835.3	84.6
0°-90°	987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	427	427	427	427	427	
5°	426	426	425	422	421	40
15°	402	403	402	400	397	113
25°	357	360	361	359	356	163
35°	287	291	304	306	305	180
45°	222	226	233	244	245	171
55°	156	158	166	175	180	139
65°	91	94	99	106	112	90
75°	37	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°	426.9	426.9	426.9	426.9	426.9
2.5°	428.0	428.2	427.2	424.6	422.9
5°	426.4	426.2	424.6	422.3	420.9
7.5°	421.6	421.9	421.4	418.2	416.4
10°	417.0	417.2	415.9	413.2	411.1
12.5°	411.1	410.9	409.1	407.8	404.4
15°	401.8	402.7	401.8	400.0	397.2
17.5°	392.7	392.7	393.4	390.3	388.2
20°	382.6	383.1	383.1	380.6	378.1
22.5°	370.8	372.2	372.7	370.1	367.2
25°	356.8	359.6	361.3	358.6	355.5
27.5°	339.9	344.2	349.1	347.2	343.7
30°	321.1	327.3	335.5	333.9	331.4
32.5°	303.2	309.4	320.8	320.1	318.8
35°	287.0	290.9	304.2	305.8	304.7
37.5°	271.6	275.2	287.6	291.4	290.4
40°	255.3	259.3	269.1	275.8	276.2
42.5°	239.3	243.0	251.1	260.7	260.7
45°	222.2	226.0	233.4	244.0	245.3
47.5°	205.5	209.4	216.6	227.3	229.4
50°	189.1	192.7	199.9	210.2	213.5
52.5°	172.0	176.0	183.0	192.5	197.3
55°	155.6	158.2	166.0	175.1	180.2
57.5°	138.6	141.0	149.7	157.6	162.8
60°	122.2	125.3	132.0	140.0	146.1
62.5°	106.4	109.7	115.4	122.5	129.4
65°	91.2	93.6	99.2	106.3	112.3
67.5°	76.4	78.5	84.1	89.0	95.4
70°	61.5	64.3	68.4	73.1	77.2
72.5°	49.5	50.7	54.1	57.6	61.8
75°	36.6	38.5	41.3	43.3	45.8
77.5°	26.2	27.4	29.0	30.7	33.0
80°	17.5	18.0	19.5	19.8	21.6
82.5°	10.7	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)