

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: P554329

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-82-88-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: P554329
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-50-UNV-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

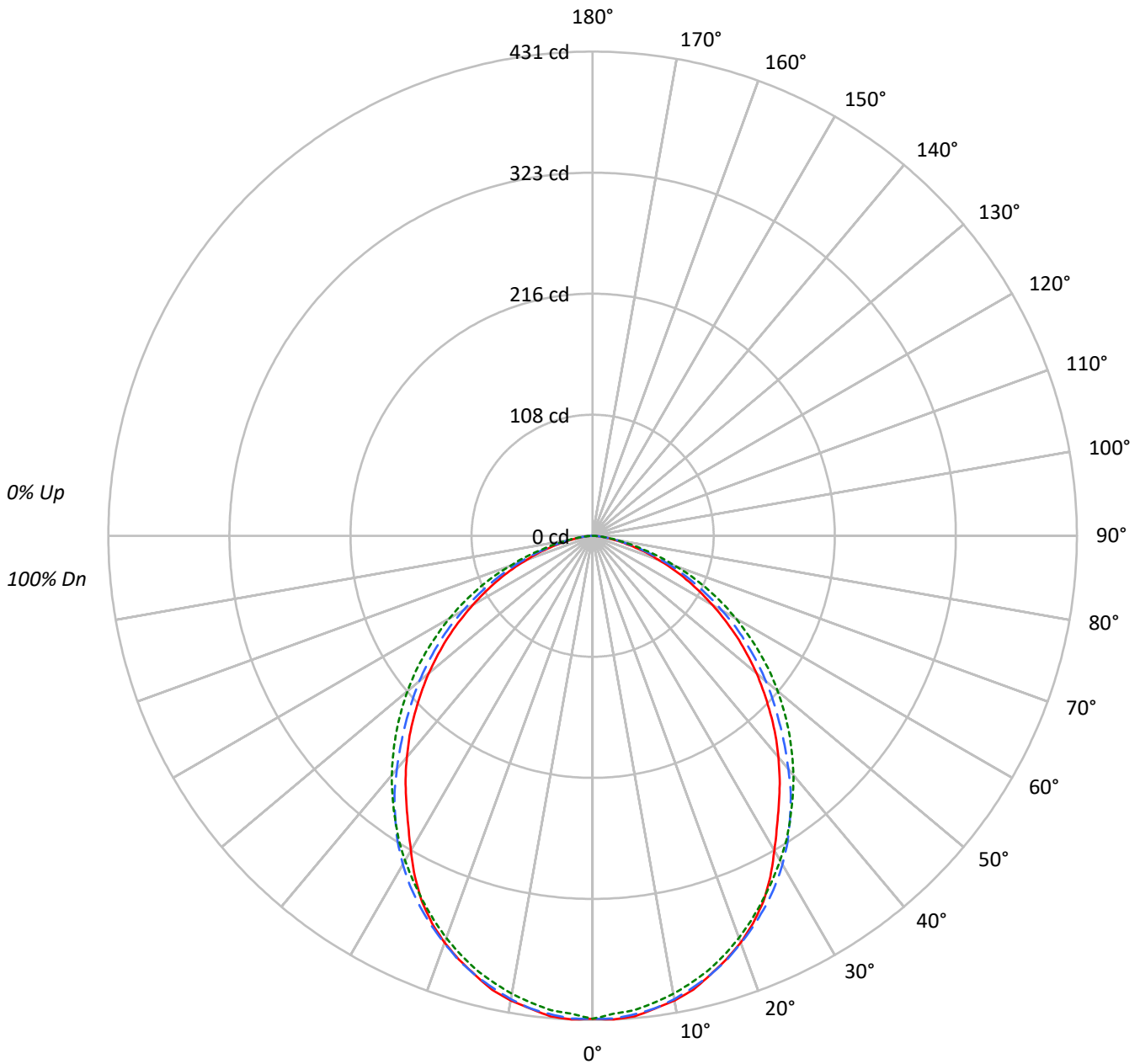
Lumens per Lamp: N/A
Luminaire Lumens: 994.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2314	2314	2314
5°	2320	2310	2290
10°	2295	2289	2263
15°	2254	2254	2229
20°	2207	2210	2181
25°	2134	2160	2126
30°	2010	2100	2074
35°	1899	2012	2016
40°	1806	1904	1954
45°	1703	1789	1881
50°	1594	1685	1800
55°	1470	1568	1703
60°	1324	1431	1583
65°	1169	1272	1440
70°	974	1084	1224
75°	765	865	959
80°	549	611	676
85°	358	358	333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	4.1
10°-20°	113.7	11.4
20°-30°	166.2	16.7
30°-40°	188.6	19.0
40°-50°	182.1	18.3
50°-60°	150.2	15.1
60°-70°	100.0	10.1
70°-80°	44.8	4.5
80°-90°	8.0	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°	320.3	32.2
0°-40°	508.9	51.2
0°-60°	841.2	84.6
0°-90°	994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	430	430	430	430	430	
5°	429	429	428	425	424	41
15°	405	406	405	403	400	114
25°	359	362	364	361	358	165
35°	289	293	306	308	307	181
45°	224	228	235	246	247	173
55°	157	159	167	176	182	140
65°	92	94	100	107	113	91
75°	37	39	42	44	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°	429.9	429.9	429.9	429.9	429.9
2.5°	431.0	431.2	430.2	427.6	425.9
5°	429.4	429.2	427.6	425.3	423.9
7.5°	424.6	424.9	424.4	421.1	419.3
10°	420.0	420.1	418.8	416.2	414.0
12.5°	414.0	413.9	412.0	410.7	407.3
15°	404.6	405.6	404.6	402.8	400.0
17.5°	395.5	395.5	396.2	393.1	390.9
20°	385.3	385.8	385.8	383.3	380.8
22.5°	373.4	374.9	375.4	372.7	369.8
25°	359.4	362.2	363.8	361.2	358.0
27.5°	342.4	346.6	351.6	349.6	346.1
30°	323.4	329.6	337.9	336.2	333.8
32.5°	305.4	311.6	323.0	322.4	321.0
35°	289.0	293.0	306.3	308.0	306.8
37.5°	273.5	277.1	289.7	293.5	292.5
40°	257.1	261.1	271.0	277.8	278.1
42.5°	241.0	244.7	252.8	262.6	262.6
45°	223.8	227.6	235.0	245.7	247.1
47.5°	206.9	210.9	218.2	228.9	231.0
50°	190.4	194.0	201.3	211.7	215.0
52.5°	173.2	177.2	184.3	193.9	198.7
55°	156.7	159.4	167.1	176.4	181.5
57.5°	139.5	142.0	150.8	158.7	164.0
60°	123.0	126.2	132.9	141.0	147.1
62.5°	107.2	110.5	116.3	123.4	130.3
65°	91.8	94.3	99.9	107.0	113.1
67.5°	77.0	79.1	84.7	89.7	96.1
70°	61.9	64.7	68.9	73.7	77.8
72.5°	49.9	51.0	54.5	58.0	62.3
75°	36.8	38.8	41.6	43.6	46.1
77.5°	26.4	27.6	29.2	30.9	33.2
80°	17.7	18.2	19.7	20.0	21.8
82.5°	10.7	11.1	11.4	11.6	12.2
85°	5.8	5.8	5.8	5.4	5.4
87.5°	3.3	3.3	2.8	2.3	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)