

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: P554249

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-81-88-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: P554249
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-40-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

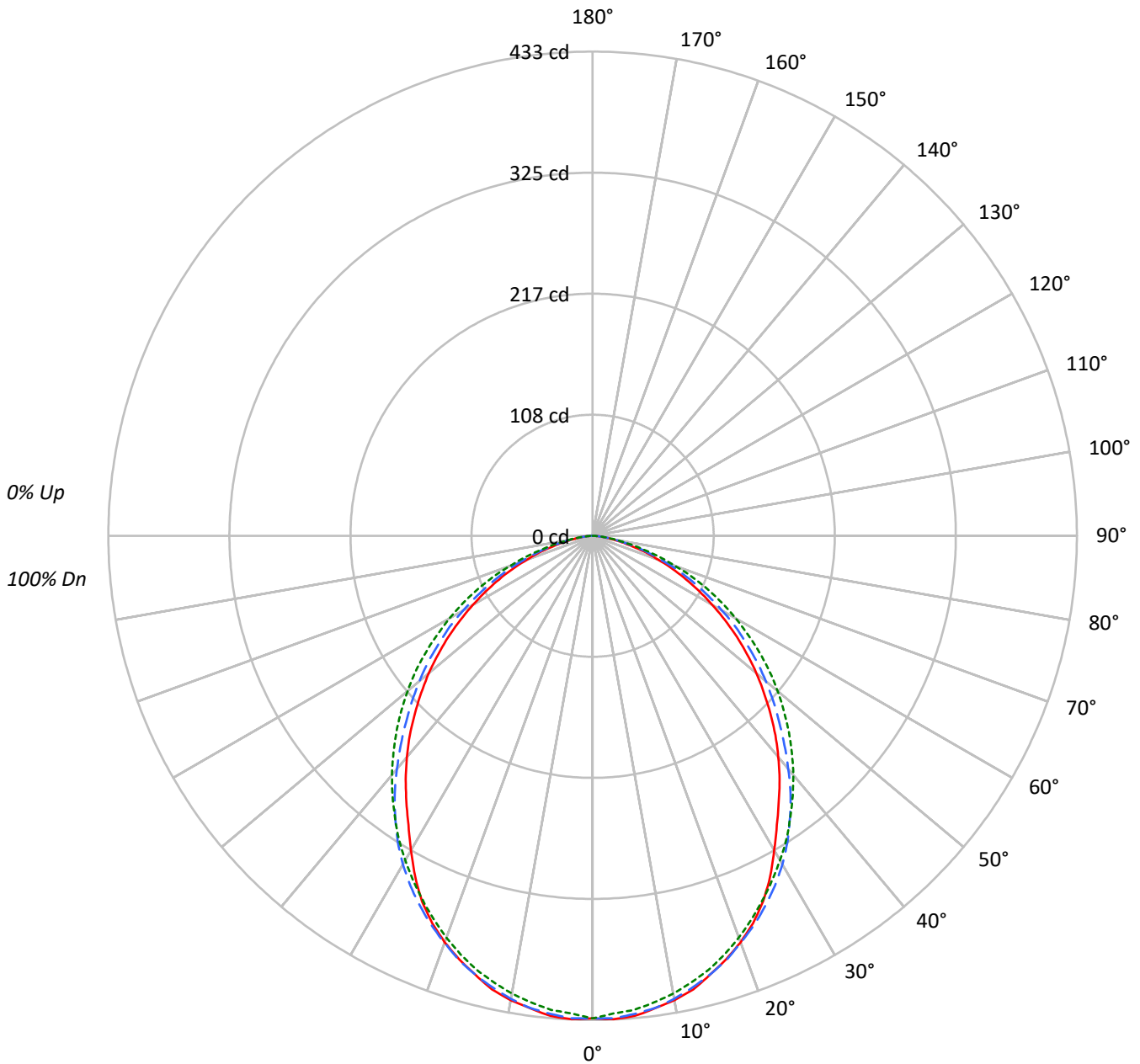
Lumens per Lamp: N/A
Luminaire Lumens: 998.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2323	2323	2323
5°	2329	2319	2299
10°	2305	2298	2272
15°	2263	2263	2238
20°	2215	2218	2190
25°	2143	2169	2135
30°	2018	2109	2082
35°	1907	2021	2024
40°	1814	1912	1962
45°	1710	1796	1888
50°	1601	1692	1808
55°	1477	1574	1710
60°	1329	1437	1590
65°	1174	1277	1447
70°	979	1087	1229
75°	769	869	963
80°	549	611	679
85°	358	358	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	4.1
10°-20°	114.2	11.4
20°-30°	166.8	16.7
30°-40°	189.4	19.0
40°-50°	182.8	18.3
50°-60°	150.8	15.1
60°-70°	100.4	10.1
70°-80°	44.9	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°	321.6	32.2
0°-40°	511.0	51.2
0°-60°	844.6	84.6
0°-90°	998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	432	432	432	432	432	
5°	431	431	429	427	426	41
15°	406	407	406	404	402	115
25°	361	364	365	363	360	165
35°	290	294	308	309	308	182
45°	225	228	236	247	248	173
55°	157	160	168	177	182	140
65°	92	95	100	107	114	91
75°	37	39	42	44	46	40
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°	431.6	431.6	431.6	431.6	431.6
2.5°	432.8	432.9	431.9	429.3	427.6
5°	431.1	430.9	429.3	427.0	425.6
7.5°	426.3	426.6	426.1	422.8	421.0
10°	421.7	421.8	420.5	417.8	415.7
12.5°	415.7	415.5	413.7	412.4	408.9
15°	406.2	407.2	406.2	404.4	401.6
17.5°	397.1	397.1	397.8	394.6	392.5
20°	386.8	387.3	387.3	384.9	382.4
22.5°	374.9	376.4	376.9	374.2	371.3
25°	360.8	363.6	365.3	362.6	359.5
27.5°	343.7	348.0	353.0	351.0	347.5
30°	324.7	331.0	339.3	337.6	335.1
32.5°	306.6	312.9	324.3	323.7	322.3
35°	290.2	294.2	307.6	309.2	308.1
37.5°	274.6	278.2	290.8	294.6	293.7
40°	258.2	262.1	272.1	278.9	279.2
42.5°	241.9	245.7	253.9	263.6	263.6
45°	224.7	228.5	236.0	246.7	248.1
47.5°	207.8	211.7	219.0	229.8	232.0
50°	191.2	194.8	202.1	212.6	215.9
52.5°	173.9	177.9	185.0	194.7	199.5
55°	157.4	160.0	167.8	177.1	182.2
57.5°	140.1	142.6	151.4	159.3	164.7
60°	123.5	126.7	133.5	141.6	147.7
62.5°	107.6	110.9	116.7	123.9	130.8
65°	92.2	94.7	100.3	107.4	113.6
67.5°	77.3	79.4	85.1	90.0	96.5
70°	62.2	65.0	69.1	74.0	78.1
72.5°	50.1	51.2	54.7	58.2	62.5
75°	37.0	39.0	41.8	43.8	46.3
77.5°	26.5	27.7	29.3	31.0	33.3
80°	17.7	18.2	19.7	20.1	21.9
82.5°	10.8	11.1	11.4	11.6	12.3
85°	5.8	5.8	5.8	5.5	5.5
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)