

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: P554121

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-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: P554121
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-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

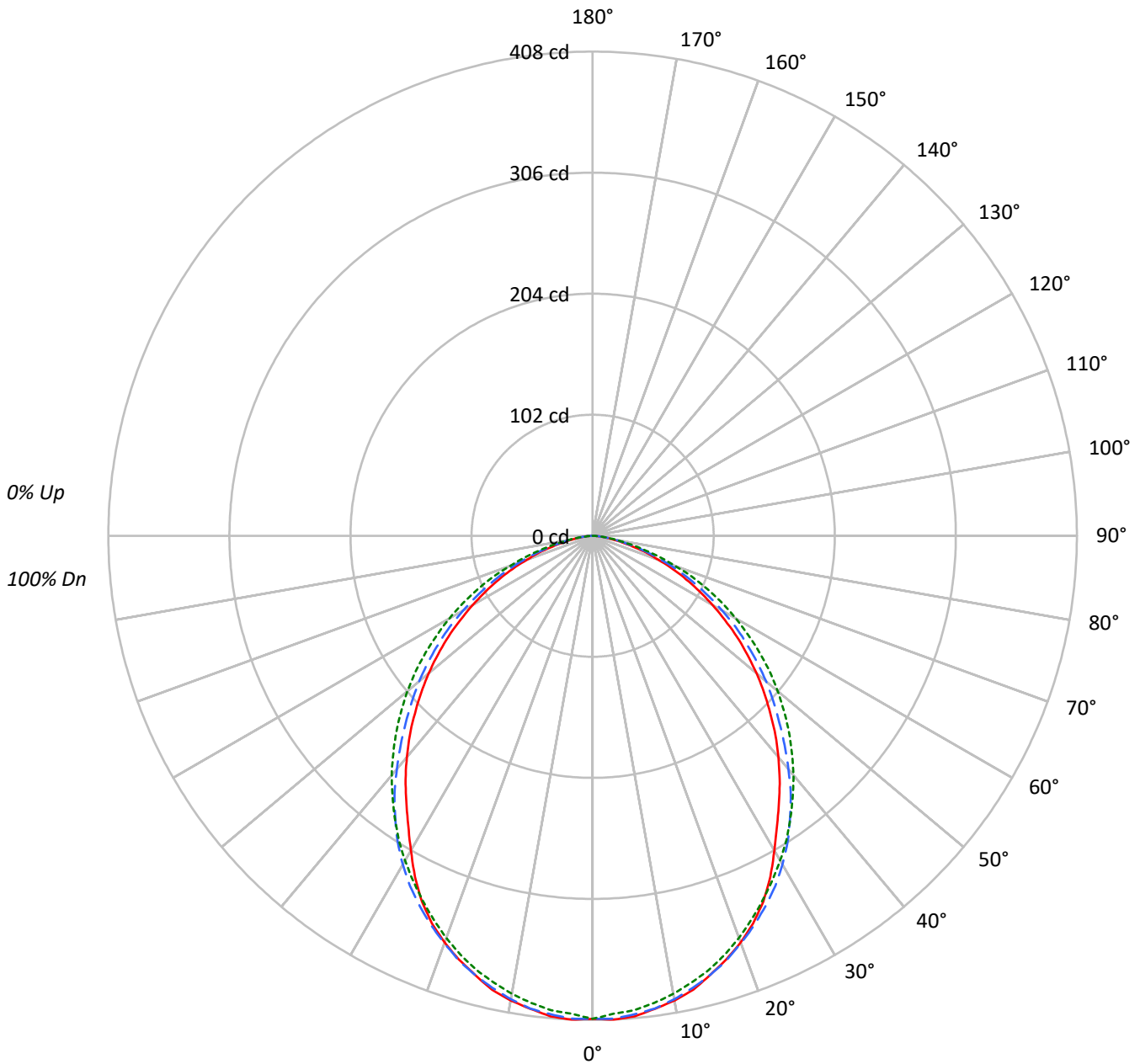
Lumens per Lamp: N/A
Luminaire Lumens: 941.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2190	2190	2190
5°	2196	2187	2168
10°	2173	2167	2142
15°	2134	2134	2110
20°	2089	2092	2065
25°	2020	2045	2013
30°	1902	1988	1964
35°	1798	1905	1909
40°	1710	1803	1850
45°	1612	1694	1780
50°	1510	1596	1705
55°	1392	1484	1612
60°	1254	1355	1499
65°	1107	1205	1364
70°	922	1026	1158
75°	726	819	907
80°	518	576	638
85°	340	340	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	4.1
10°-20°	107.6	11.4
20°-30°	157.3	16.7
30°-40°	178.6	19.0
40°-50°	172.4	18.3
50°-60°	142.2	15.1
60°-70°	94.7	10.1
70°-80°	42.4	4.5
80°-90°	7.6	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°	303.3	32.2
0°-40°	481.8	51.2
0°-60°	796.4	84.6
0°-90°	941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	407	407	407	407	407	
5°	406	406	405	403	401	38
15°	383	384	383	381	379	108
25°	340	343	344	342	339	156
35°	274	277	290	292	290	171
45°	212	215	222	233	234	163
55°	148	151	158	167	172	132
65°	87	89	95	101	107	86
75°	35	37	39	41	44	38
85°	6	6	6	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	407.0	407.0	407.0	407.0	407.0
2.5°	408.1	408.2	407.3	404.8	403.2
5°	406.5	406.3	404.8	402.6	401.3
7.5°	402.0	402.3	401.8	398.7	397.0
10°	397.6	397.7	396.5	394.0	391.9
12.5°	391.9	391.8	390.1	388.8	385.5
15°	383.0	384.0	383.0	381.3	378.7
17.5°	374.4	374.4	375.1	372.1	370.1
20°	364.7	365.2	365.2	362.9	360.5
22.5°	353.5	354.9	355.4	352.9	350.0
25°	340.2	342.9	344.4	341.9	338.9
27.5°	324.1	328.2	332.9	331.0	327.7
30°	306.1	312.1	319.9	318.3	316.0
32.5°	289.1	295.0	305.8	305.2	303.9
35°	273.6	277.4	290.0	291.6	290.5
37.5°	258.9	262.3	274.2	277.8	276.9
40°	243.4	247.2	256.6	263.0	263.3
42.5°	228.1	231.7	239.4	248.6	248.6
45°	211.8	215.4	222.5	232.6	233.9
47.5°	195.9	199.6	206.5	216.7	218.7
50°	180.3	183.7	190.6	200.4	203.6
52.5°	164.0	167.8	174.5	183.5	188.1
55°	148.4	150.9	158.2	167.0	171.8
57.5°	132.1	134.5	142.7	150.2	155.2
60°	116.5	119.4	125.9	133.5	139.3
62.5°	101.5	104.6	110.1	116.8	123.4
65°	86.9	89.3	94.6	101.3	107.1
67.5°	72.9	74.9	80.2	84.9	91.0
70°	58.6	61.3	65.2	69.7	73.6
72.5°	47.2	48.3	51.6	54.9	58.9
75°	34.9	36.7	39.4	41.3	43.6
77.5°	25.0	26.1	27.7	29.2	31.4
80°	16.7	17.2	18.6	18.9	20.6
82.5°	10.2	10.5	10.8	10.9	11.6
85°	5.5	5.5	5.5	5.2	5.2
87.5°	3.1	3.1	2.7	2.2	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)