

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: P554114

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-81-85-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: P554114
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-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

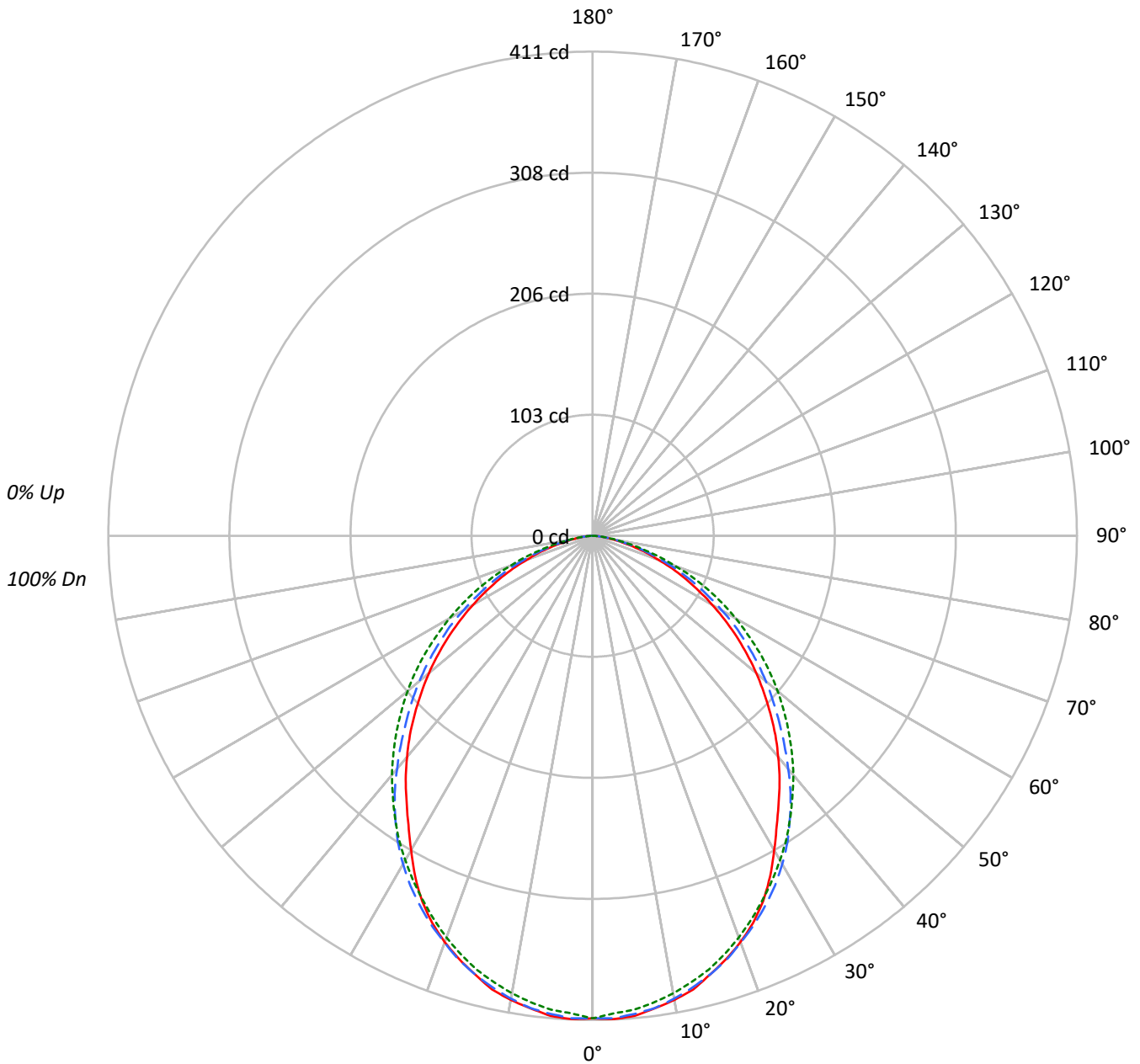
Lumens per Lamp: N/A
Luminaire Lumens: 947.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2204	2204	2204
5°	2210	2201	2182
10°	2187	2181	2155
15°	2148	2148	2123
20°	2103	2105	2078
25°	2033	2058	2026
30°	1915	2000	1976
35°	1809	1918	1920
40°	1721	1814	1862
45°	1623	1704	1792
50°	1519	1606	1716
55°	1401	1494	1622
60°	1262	1364	1509
65°	1114	1212	1373
70°	928	1032	1166
75°	730	823	913
80°	521	580	645
85°	340	340	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	4.1
10°-20°	108.3	11.4
20°-30°	158.3	16.7
30°-40°	179.7	19.0
40°-50°	173.5	18.3
50°-60°	143.1	15.1
60°-70°	95.3	10.1
70°-80°	42.6	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°	305.2	32.2
0°-40°	484.9	51.2
0°-60°	801.4	84.6
0°-90°	947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	409	409	407	405	404	39
15°	386	386	386	384	381	109
25°	342	345	347	344	341	157
35°	275	279	292	293	292	173
45°	213	217	224	234	235	164
55°	149	152	159	168	173	133
65°	88	90	95	102	108	87
75°	35	37	40	42	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°	409.6	409.6	409.6	409.6	409.6
2.5°	410.7	410.8	409.9	407.4	405.8
5°	409.1	408.9	407.4	405.1	403.9
7.5°	404.5	404.8	404.4	401.2	399.5
10°	400.1	400.3	399.0	396.5	394.4
12.5°	394.4	394.3	392.6	391.3	388.0
15°	385.5	386.4	385.5	383.7	381.1
17.5°	376.8	376.8	377.5	374.5	372.4
20°	367.1	367.5	367.5	365.2	362.8
22.5°	355.7	357.2	357.6	355.1	352.3
25°	342.4	345.0	346.6	344.1	341.1
27.5°	326.2	330.3	335.0	333.1	329.8
30°	308.1	314.0	321.9	320.3	318.0
32.5°	290.9	296.9	307.8	307.1	305.9
35°	275.3	279.1	291.9	293.4	292.3
37.5°	260.6	264.0	276.0	279.6	278.6
40°	245.0	248.8	258.2	264.6	265.0
42.5°	229.6	233.2	240.9	250.2	250.2
45°	213.2	216.8	223.9	234.1	235.4
47.5°	197.1	200.9	207.8	218.1	220.1
50°	181.4	184.9	191.8	201.7	204.9
52.5°	165.0	168.8	175.6	184.7	189.3
55°	149.3	151.8	159.2	168.0	172.9
57.5°	133.0	135.3	143.7	151.2	156.2
60°	117.2	120.2	126.7	134.4	140.2
62.5°	102.1	105.3	110.8	117.5	124.1
65°	87.5	89.8	95.2	102.0	107.8
67.5°	73.3	75.4	80.7	85.4	91.6
70°	59.0	61.7	65.6	70.2	74.1
72.5°	47.5	48.6	51.9	55.2	59.3
75°	35.1	37.0	39.6	41.5	43.9
77.5°	25.2	26.3	27.8	29.4	31.6
80°	16.8	17.3	18.7	19.0	20.8
82.5°	10.2	10.5	10.9	11.0	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)