

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: P554128

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-82-84-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: P554128
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-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

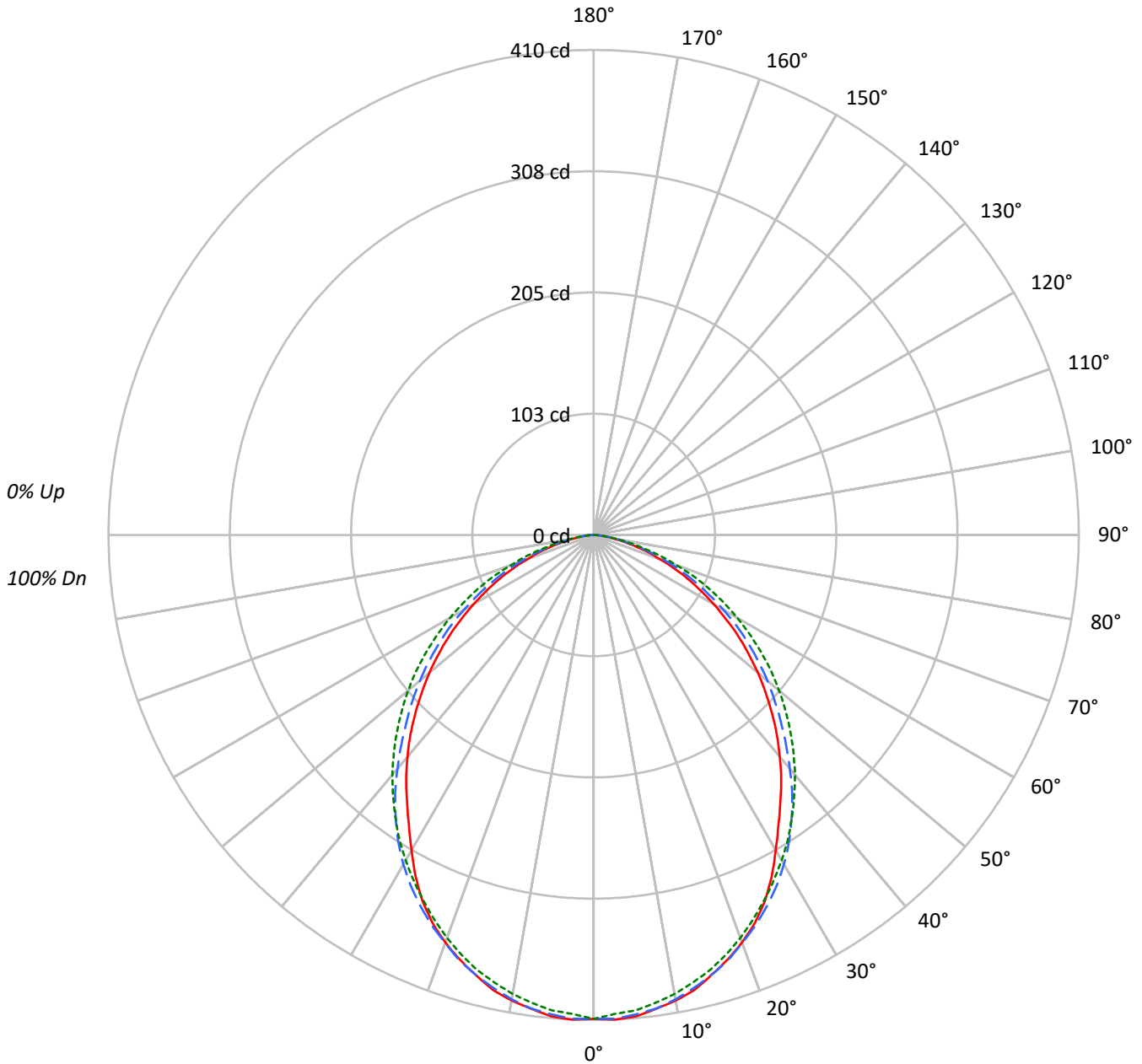
Lumens per Lamp: N/A
Luminaire Lumens: 946.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2202	2202	2202
5°	2207	2198	2180
10°	2184	2178	2153
15°	2146	2146	2121
20°	2100	2103	2076
25°	2031	2056	2024
30°	1912	1999	1974
35°	1807	1916	1918
40°	1719	1812	1860
45°	1621	1703	1789
50°	1517	1604	1713
55°	1400	1493	1620
60°	1260	1362	1507
65°	1113	1211	1372
70°	927	1031	1164
75°	728	823	913
80°	521	580	642
85°	340	340	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	4.1
10°-20°	108.2	11.4
20°-30°	158.1	16.7
30°-40°	179.5	19.0
40°-50°	173.3	18.3
50°-60°	142.9	15.1
60°-70°	95.2	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°	304.9	32.2
0°-40°	484.4	51.2
0°-60°	800.6	84.6
0°-90°	946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	409	408	407	405	404	39
15°	385	386	385	383	381	109
25°	342	345	346	344	341	157
35°	275	279	292	293	292	172
45°	213	217	224	234	235	164
55°	149	152	159	168	173	133
65°	87	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°	409.1	409.1	409.1	409.1	409.1
2.5°	410.2	410.4	409.4	406.9	405.3
5°	408.6	408.5	406.9	404.7	403.5
7.5°	404.1	404.4	403.9	400.8	399.1
10°	399.7	399.8	398.6	396.1	394.0
12.5°	394.0	393.9	392.1	390.9	387.6
15°	385.1	386.0	385.1	383.3	380.7
17.5°	376.4	376.4	377.1	374.1	372.0
20°	366.7	367.2	367.2	364.8	362.4
22.5°	355.4	356.8	357.3	354.7	351.9
25°	342.0	344.7	346.3	343.7	340.8
27.5°	325.8	329.9	334.6	332.7	329.4
30°	307.7	313.7	321.6	320.0	317.6
32.5°	290.6	296.6	307.4	306.8	305.5
35°	275.1	278.8	291.6	293.1	292.0
37.5°	260.3	263.7	275.7	279.3	278.4
40°	244.7	248.5	257.9	264.4	264.7
42.5°	229.3	232.9	240.6	249.9	249.9
45°	213.0	216.6	223.7	233.9	235.1
47.5°	196.9	200.7	207.6	217.8	219.9
50°	181.2	184.7	191.6	201.5	204.6
52.5°	164.9	168.6	175.4	184.5	189.1
55°	149.2	151.7	159.1	167.9	172.7
57.5°	132.8	135.2	143.5	151.0	156.1
60°	117.1	120.1	126.5	134.2	140.0
62.5°	102.0	105.1	110.6	117.4	124.0
65°	87.4	89.7	95.1	101.8	107.7
67.5°	73.2	75.3	80.6	85.3	91.5
70°	58.9	61.6	65.5	70.1	74.0
72.5°	47.5	48.6	51.9	55.2	59.3
75°	35.0	36.9	39.6	41.5	43.9
77.5°	25.1	26.2	27.8	29.4	31.6
80°	16.8	17.3	18.7	19.0	20.7
82.5°	10.2	10.5	10.8	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)