

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: P554124

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-81-96-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: P554124
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-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

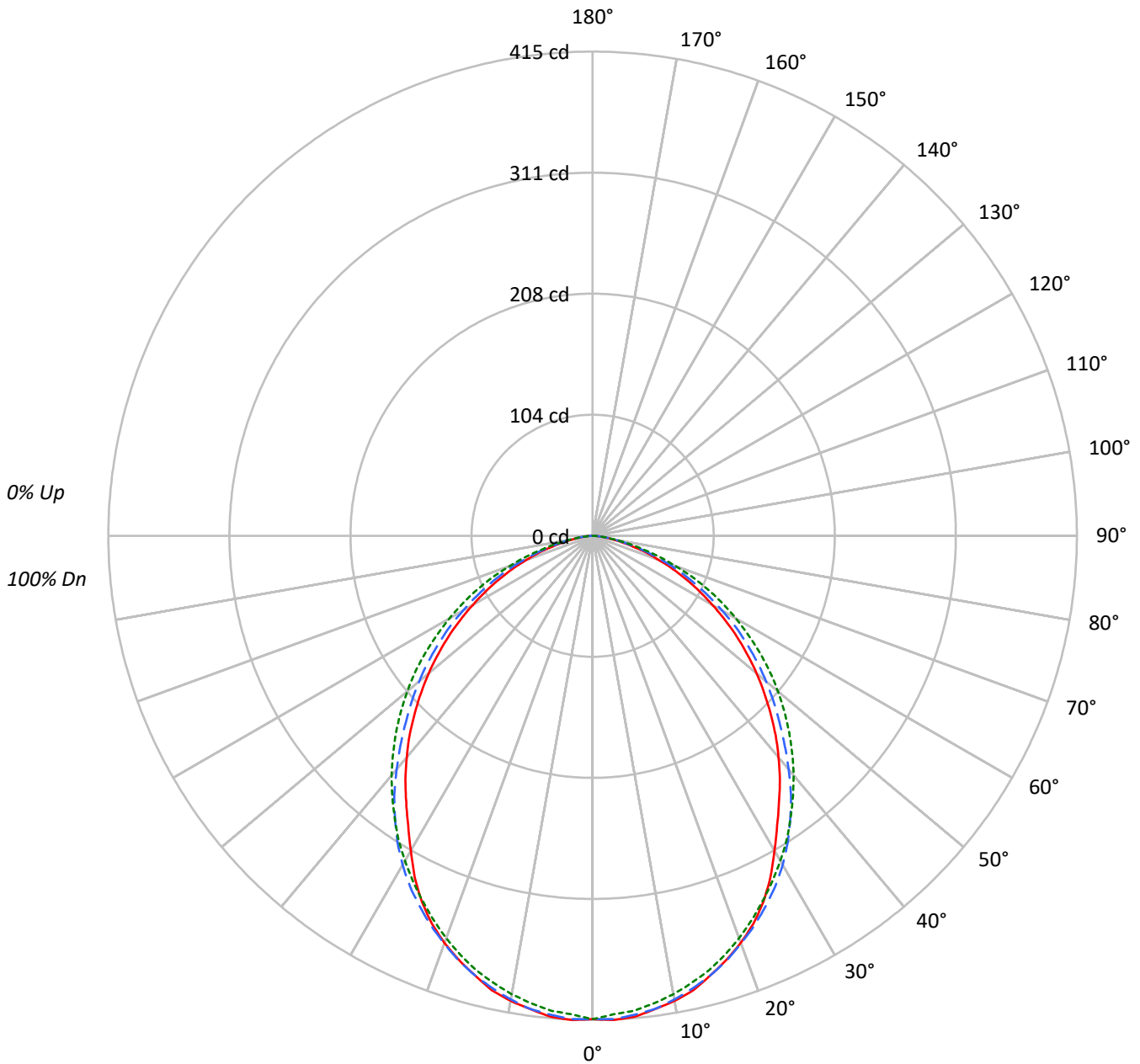
Lumens per Lamp: N/A
Luminaire Lumens: 958.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2230	2230	2230
5°	2236	2226	2207
10°	2212	2206	2181
15°	2173	2173	2148
20°	2127	2129	2102
25°	2056	2082	2049
30°	1936	2024	1999
35°	1830	1940	1943
40°	1741	1835	1883
45°	1642	1724	1812
50°	1536	1624	1735
55°	1417	1512	1641
60°	1277	1379	1526
65°	1127	1226	1388
70°	939	1045	1180
75°	738	834	923
80°	527	586	651
85°	346	346	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	4.1
10°-20°	109.6	11.4
20°-30°	160.1	16.7
30°-40°	181.8	19.0
40°-50°	175.5	18.3
50°-60°	144.8	15.1
60°-70°	96.4	10.1
70°-80°	43.1	4.5
80°-90°	7.7	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°	308.7	32.2
0°-40°	490.5	51.2
0°-60°	810.8	84.6
0°-90°	958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	414	414	412	410	409	39
15°	390	391	390	388	386	110
25°	346	349	351	348	345	159
35°	278	282	295	297	296	175
45°	216	219	226	237	238	166
55°	151	154	161	170	175	135
65°	88	91	96	103	109	88
75°	36	37	40	42	44	39
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°	414.3	414.3	414.3	414.3	414.3
2.5°	415.4	415.6	414.6	412.1	410.5
5°	413.8	413.7	412.1	409.9	408.6
7.5°	409.2	409.5	409.1	405.9	404.1
10°	404.8	404.9	403.6	401.1	399.0
12.5°	399.0	398.9	397.1	395.8	392.5
15°	390.0	390.9	390.0	388.2	385.5
17.5°	381.2	381.2	381.8	378.8	376.7
20°	371.3	371.8	371.8	369.4	367.0
22.5°	359.9	361.3	361.8	359.2	356.4
25°	346.3	349.1	350.6	348.1	345.1
27.5°	330.0	334.1	338.9	337.0	333.6
30°	311.6	317.7	325.7	324.1	321.7
32.5°	294.3	300.3	311.3	310.7	309.4
35°	278.5	282.4	295.3	296.8	295.7
37.5°	263.6	267.1	279.2	282.8	281.9
40°	247.8	251.6	261.2	267.7	268.0
42.5°	232.2	235.9	243.7	253.1	253.1
45°	215.7	219.3	226.5	236.8	238.1
47.5°	199.4	203.3	210.3	220.6	222.7
50°	183.5	187.0	194.0	204.1	207.2
52.5°	167.0	170.8	177.6	186.9	191.5
55°	151.0	153.6	161.1	170.0	174.9
57.5°	134.5	136.9	145.3	153.0	158.1
60°	118.6	121.6	128.1	135.9	141.8
62.5°	103.3	106.5	112.1	118.9	125.6
65°	88.5	90.9	96.3	103.1	109.0
67.5°	74.2	76.2	81.7	86.4	92.6
70°	59.7	62.4	66.4	71.0	75.0
72.5°	48.1	49.2	52.5	55.9	60.0
75°	35.5	37.4	40.1	42.0	44.4
77.5°	25.5	26.6	28.2	29.8	32.0
80°	17.0	17.5	18.9	19.3	21.0
82.5°	10.3	10.7	11.0	11.1	11.8
85°	5.6	5.6	5.6	5.3	5.3
87.5°	3.2	3.2	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)