

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: P554140

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-82-96-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: P554140
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-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

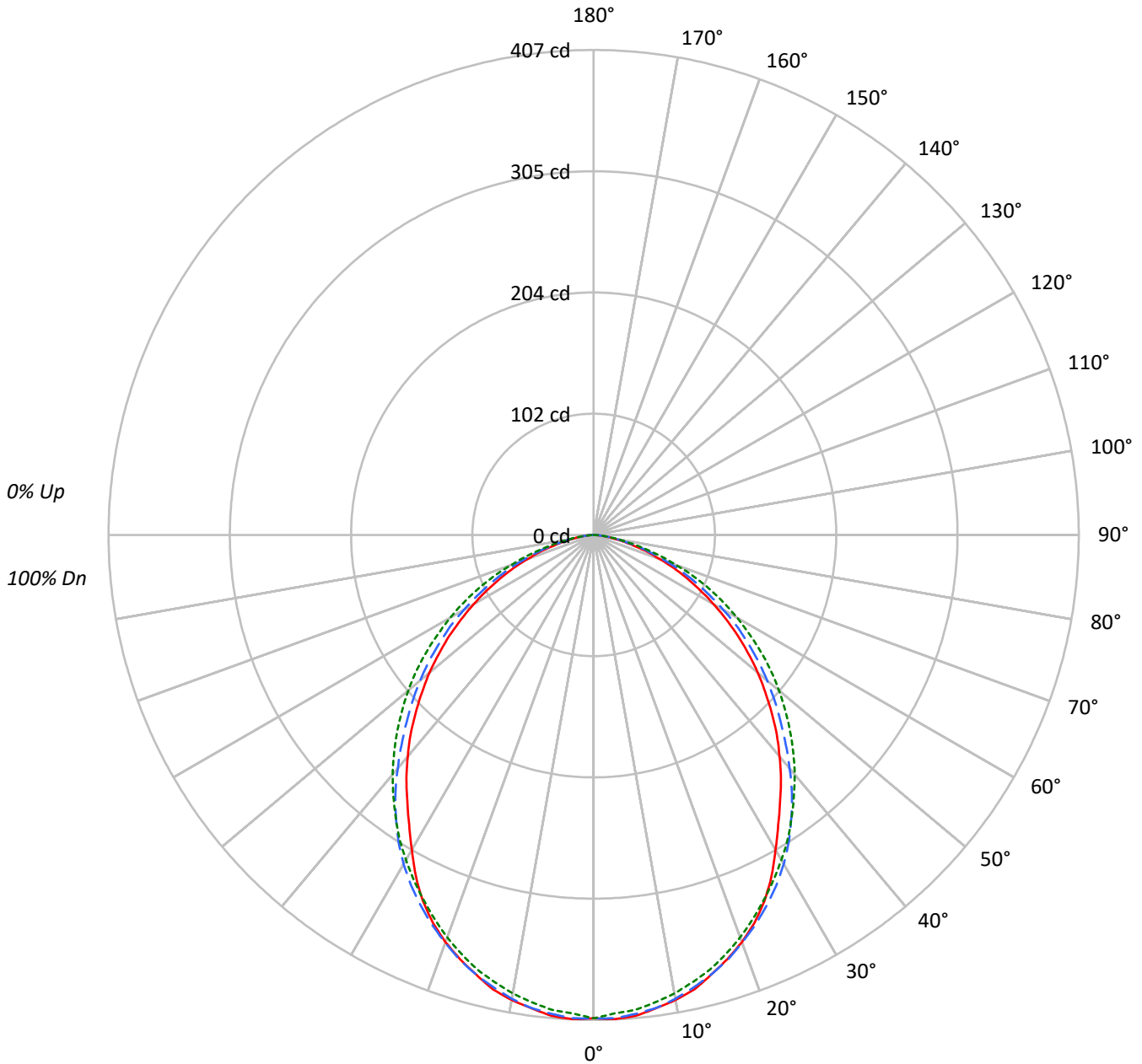
Lumens per Lamp: N/A
Luminaire Lumens: 938.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2183	2183	2183
5°	2189	2180	2162
10°	2166	2160	2135
15°	2127	2127	2103
20°	2082	2085	2058
25°	2014	2039	2007
30°	1896	1982	1958
35°	1792	1899	1903
40°	1704	1796	1844
45°	1607	1688	1774
50°	1505	1591	1699
55°	1388	1480	1607
60°	1250	1351	1495
65°	1103	1201	1360
70°	919	1023	1155
75°	724	817	905
80°	518	573	638
85°	340	340	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	4.1
10°-20°	107.3	11.4
20°-30°	156.8	16.7
30°-40°	178.0	19.0
40°-50°	171.8	18.3
50°-60°	141.7	15.1
60°-70°	94.4	10.1
70°-80°	42.2	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°	302.3	32.2
0°-40°	480.3	51.2
0°-60°	793.8	84.6
0°-90°	938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	405	405	404	401	400	38
15°	382	383	382	380	378	108
25°	339	342	343	341	338	155
35°	273	276	289	291	290	171
45°	211	215	222	232	233	163
55°	148	150	158	166	171	132
65°	87	89	94	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°	405.7	405.7	405.7	405.7	405.7
2.5°	406.8	406.9	406.0	403.5	401.9
5°	405.2	405.0	403.5	401.3	400.1
7.5°	400.7	401.0	400.5	397.4	395.7
10°	396.3	396.5	395.2	392.7	390.7
12.5°	390.7	390.5	388.8	387.6	384.3
15°	381.8	382.8	381.8	380.1	377.5
17.5°	373.2	373.2	373.9	370.9	368.9
20°	363.6	364.1	364.1	361.7	359.4
22.5°	352.4	353.8	354.2	351.7	348.9
25°	339.1	341.8	343.3	340.8	337.9
27.5°	323.1	327.1	331.8	329.9	326.6
30°	305.1	311.1	318.9	317.3	315.0
32.5°	288.2	294.1	304.8	304.2	303.0
35°	272.7	276.5	289.1	290.6	289.6
37.5°	258.1	261.5	273.3	276.9	276.0
40°	242.6	246.4	255.7	262.1	262.4
42.5°	227.4	231.0	238.6	247.8	247.8
45°	211.2	214.8	221.8	231.9	233.1
47.5°	195.3	199.0	205.9	216.0	218.0
50°	179.7	183.1	190.0	199.8	202.9
52.5°	163.5	167.2	173.9	183.0	187.5
55°	147.9	150.4	157.7	166.4	171.3
57.5°	131.7	134.0	142.3	149.8	154.8
60°	116.1	119.1	125.5	133.1	138.9
62.5°	101.1	104.3	109.7	116.4	123.0
65°	86.6	89.0	94.3	101.0	106.8
67.5°	72.6	74.6	79.9	84.6	90.7
70°	58.4	61.1	65.0	69.5	73.4
72.5°	47.1	48.2	51.4	54.7	58.8
75°	34.8	36.6	39.3	41.1	43.5
77.5°	24.9	26.0	27.6	29.1	31.3
80°	16.7	17.1	18.5	18.9	20.6
82.5°	10.1	10.4	10.8	10.9	11.5
85°	5.5	5.5	5.5	5.1	5.1
87.5°	3.1	3.1	2.6	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)