

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: P554202

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-82-94-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: P554202
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-35-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

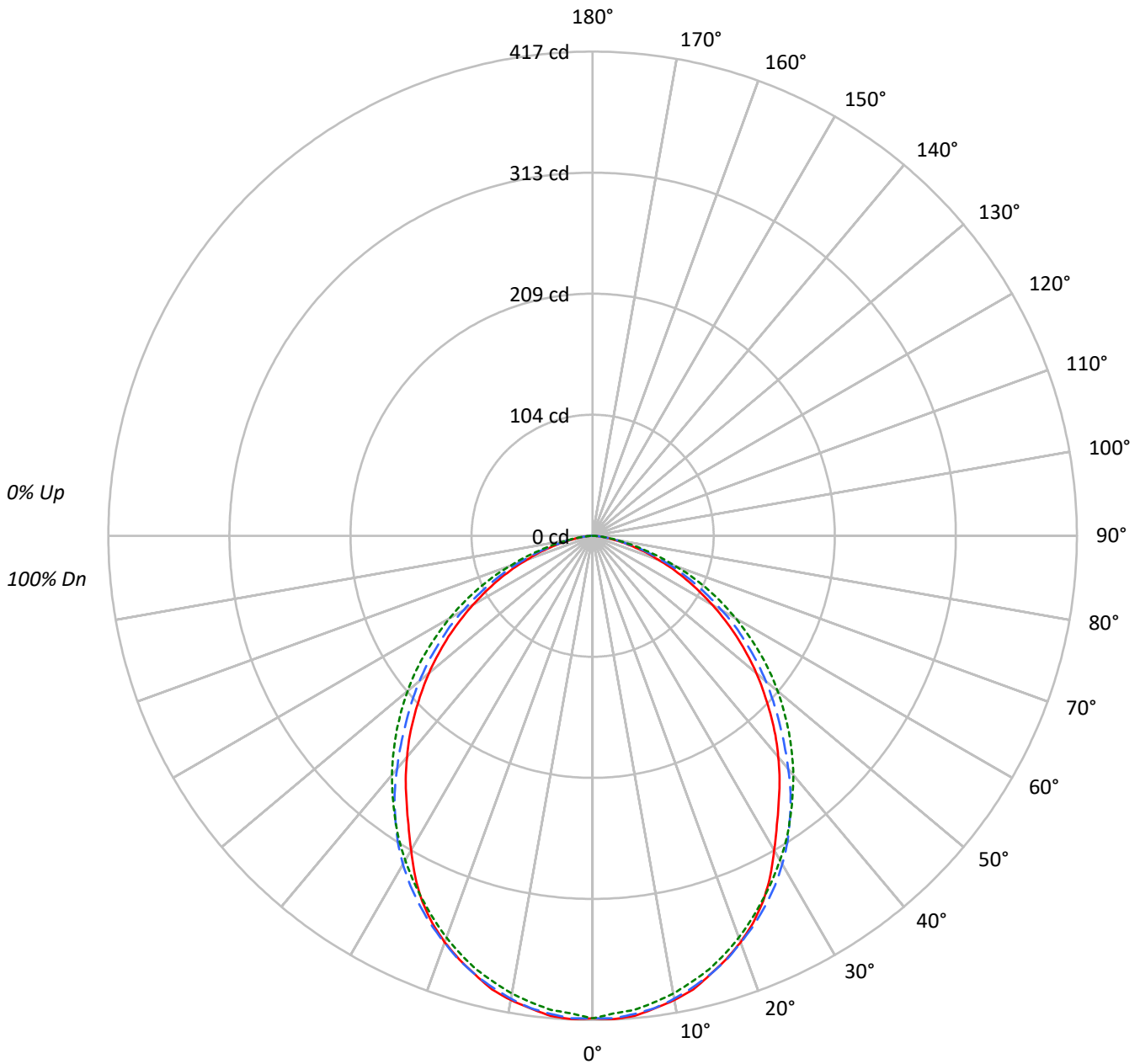
Lumens per Lamp: N/A
Luminaire Lumens: 961.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2237	2237	2237
5°	2243	2233	2214
10°	2219	2213	2188
15°	2180	2180	2155
20°	2133	2136	2109
25°	2063	2089	2056
30°	1943	2030	2005
35°	1836	1946	1949
40°	1747	1841	1889
45°	1646	1729	1818
50°	1541	1629	1741
55°	1422	1516	1647
60°	1281	1383	1532
65°	1131	1230	1393
70°	943	1048	1183
75°	740	836	925
80°	530	589	654
85°	346	346	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	4.1
10°-20°	109.9	11.4
20°-30°	160.6	16.7
30°-40°	182.4	19.0
40°-50°	176.0	18.3
50°-60°	145.2	15.1
60°-70°	96.7	10.1
70°-80°	43.3	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°	309.7	32.2
0°-40°	492.1	51.2
0°-60°	813.3	84.6
0°-90°	961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	415	415	413	411	410	39
15°	391	392	391	389	387	110
25°	347	350	352	349	346	159
35°	279	283	296	298	297	175
45°	216	220	227	238	239	167
55°	152	154	162	170	176	135
65°	89	91	97	104	109	88
75°	36	38	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°	415.6	415.6	415.6	415.6	415.6
2.5°	416.7	416.9	415.9	413.4	411.8
5°	415.1	415.0	413.4	411.1	409.9
7.5°	410.5	410.8	410.3	407.1	405.4
10°	406.0	406.2	404.9	402.4	400.3
12.5°	400.3	400.1	398.4	397.1	393.7
15°	391.2	392.1	391.2	389.4	386.7
17.5°	382.4	382.4	383.0	380.0	377.9
20°	372.5	373.0	373.0	370.6	368.2
22.5°	361.0	362.4	362.9	360.4	357.5
25°	347.4	350.1	351.7	349.2	346.2
27.5°	331.0	335.1	339.9	338.0	334.7
30°	312.6	318.7	326.7	325.1	322.7
32.5°	295.2	301.3	312.3	311.7	310.4
35°	279.4	283.2	296.2	297.8	296.7
37.5°	264.4	267.9	280.1	283.7	282.8
40°	248.6	252.4	262.0	268.6	268.9
42.5°	233.0	236.6	244.4	253.9	253.9
45°	216.3	220.0	227.2	237.6	238.9
47.5°	200.1	203.9	210.9	221.3	223.4
50°	184.1	187.6	194.6	204.7	207.9
52.5°	167.5	171.3	178.2	187.4	192.1
55°	151.5	154.1	161.6	170.5	175.5
57.5°	134.9	137.3	145.8	153.4	158.5
60°	119.0	122.0	128.5	136.4	142.3
62.5°	103.6	106.8	112.4	119.3	126.0
65°	88.8	91.2	96.6	103.5	109.4
67.5°	74.4	76.5	81.9	86.7	92.9
70°	59.9	62.6	66.6	71.2	75.2
72.5°	48.2	49.3	52.7	56.0	60.2
75°	35.6	37.5	40.2	42.2	44.5
77.5°	25.5	26.7	28.3	29.9	32.1
80°	17.1	17.6	19.0	19.3	21.1
82.5°	10.4	10.7	11.0	11.2	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)