

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: P554268

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-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: P554268
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

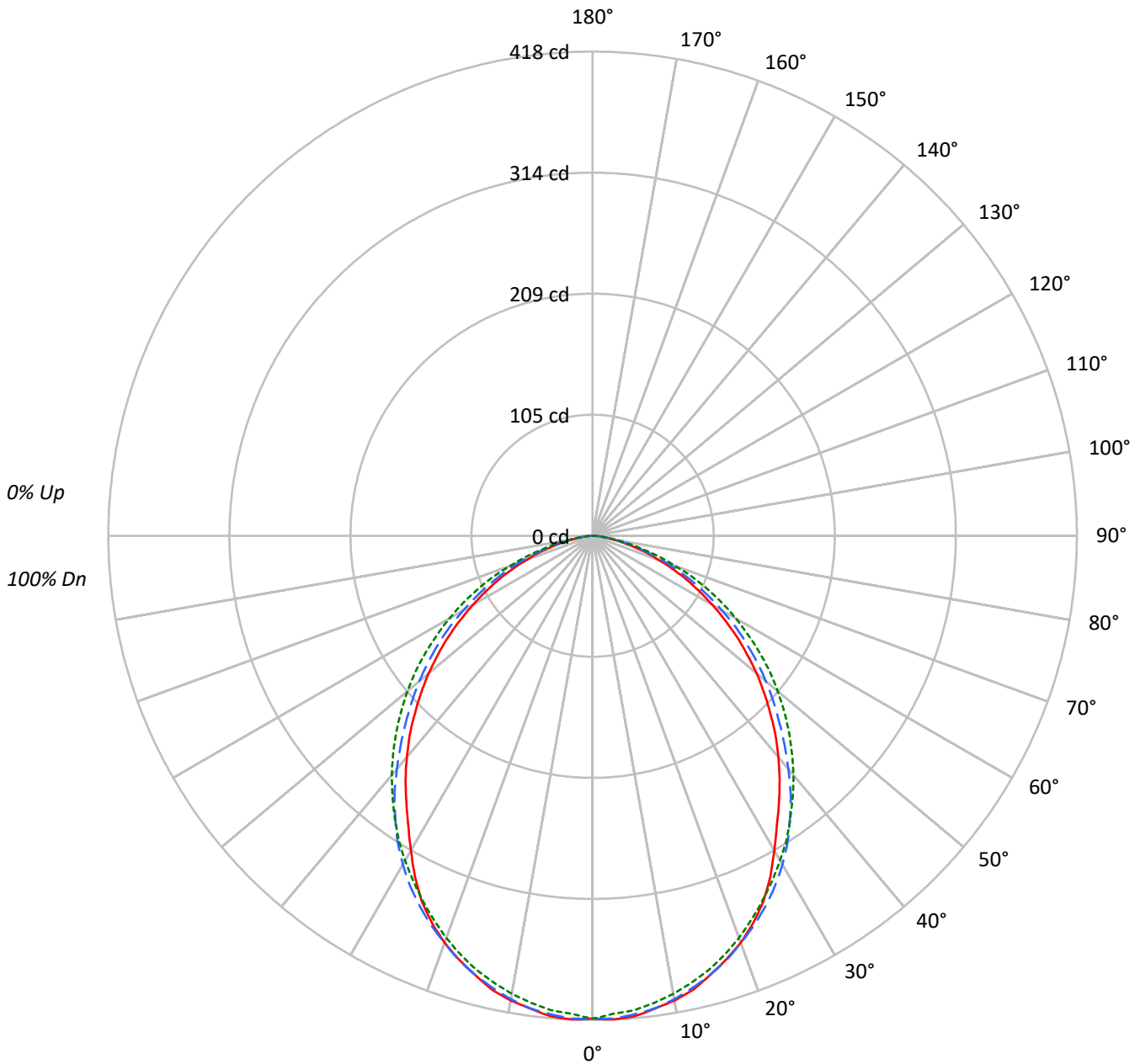
Lumens per Lamp: N/A
Luminaire Lumens: 964.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2244	2244	2244
5°	2250	2240	2221
10°	2226	2220	2194
15°	2186	2186	2161
20°	2140	2143	2115
25°	2070	2095	2062
30°	1949	2037	2012
35°	1842	1952	1955
40°	1752	1846	1895
45°	1652	1735	1824
50°	1546	1634	1746
55°	1426	1521	1651
60°	1284	1387	1536
65°	1135	1234	1397
70°	946	1051	1186
75°	742	840	930
80°	530	592	654
85°	346	346	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	4.1
10°-20°	110.3	11.4
20°-30°	161.1	16.7
30°-40°	182.9	19.0
40°-50°	176.6	18.3
50°-60°	145.7	15.1
60°-70°	97.0	10.1
70°-80°	43.4	4.5
80°-90°	7.8	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°	310.7	32.2
0°-40°	493.6	51.2
0°-60°	815.8	84.6
0°-90°	964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	417	417	417	417	417	
5°	416	416	415	412	411	39
15°	392	393	392	391	388	111
25°	348	351	353	350	347	160
35°	280	284	297	299	298	176
45°	217	221	228	238	240	167
55°	152	155	162	171	176	136
65°	89	92	97	104	110	88
75°	36	38	40	42	45	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°	416.9	416.9	416.9	416.9	416.9
2.5°	418.0	418.2	417.2	414.7	413.1
5°	416.4	416.3	414.7	412.4	411.1
7.5°	411.8	412.1	411.6	408.4	406.7
10°	407.3	407.5	406.2	403.6	401.5
12.5°	401.5	401.4	399.6	398.3	395.0
15°	392.4	393.4	392.4	390.6	387.9
17.5°	383.6	383.6	384.2	381.2	379.1
20°	373.7	374.1	374.1	371.7	369.3
22.5°	362.1	363.6	364.1	361.5	358.6
25°	348.5	351.2	352.8	350.3	347.2
27.5°	332.0	336.2	341.0	339.1	335.7
30°	313.6	319.7	327.7	326.1	323.7
32.5°	296.1	302.2	313.3	312.6	311.4
35°	280.3	284.1	297.1	298.7	297.6
37.5°	265.2	268.8	280.9	284.6	283.6
40°	249.4	253.2	262.8	269.4	269.7
42.5°	233.7	237.4	245.2	254.7	254.7
45°	217.0	220.7	227.9	238.3	239.6
47.5°	200.7	204.5	211.6	222.0	224.1
50°	184.7	188.2	195.2	205.3	208.5
52.5°	168.0	171.9	178.7	188.0	192.7
55°	152.0	154.6	162.1	171.1	176.0
57.5°	135.3	137.7	146.2	153.9	159.0
60°	119.3	122.4	128.9	136.8	142.7
62.5°	103.9	107.1	112.8	119.6	126.4
65°	89.1	91.5	96.9	103.8	109.7
67.5°	74.6	76.7	82.2	87.0	93.2
70°	60.1	62.8	66.8	71.4	75.4
72.5°	48.4	49.5	52.9	56.2	60.4
75°	35.7	37.6	40.4	42.3	44.7
77.5°	25.6	26.7	28.3	30.0	32.2
80°	17.1	17.6	19.1	19.4	21.1
82.5°	10.4	10.7	11.1	11.2	11.9
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)