

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: P554244

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-81-86-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: P554244
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-81-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

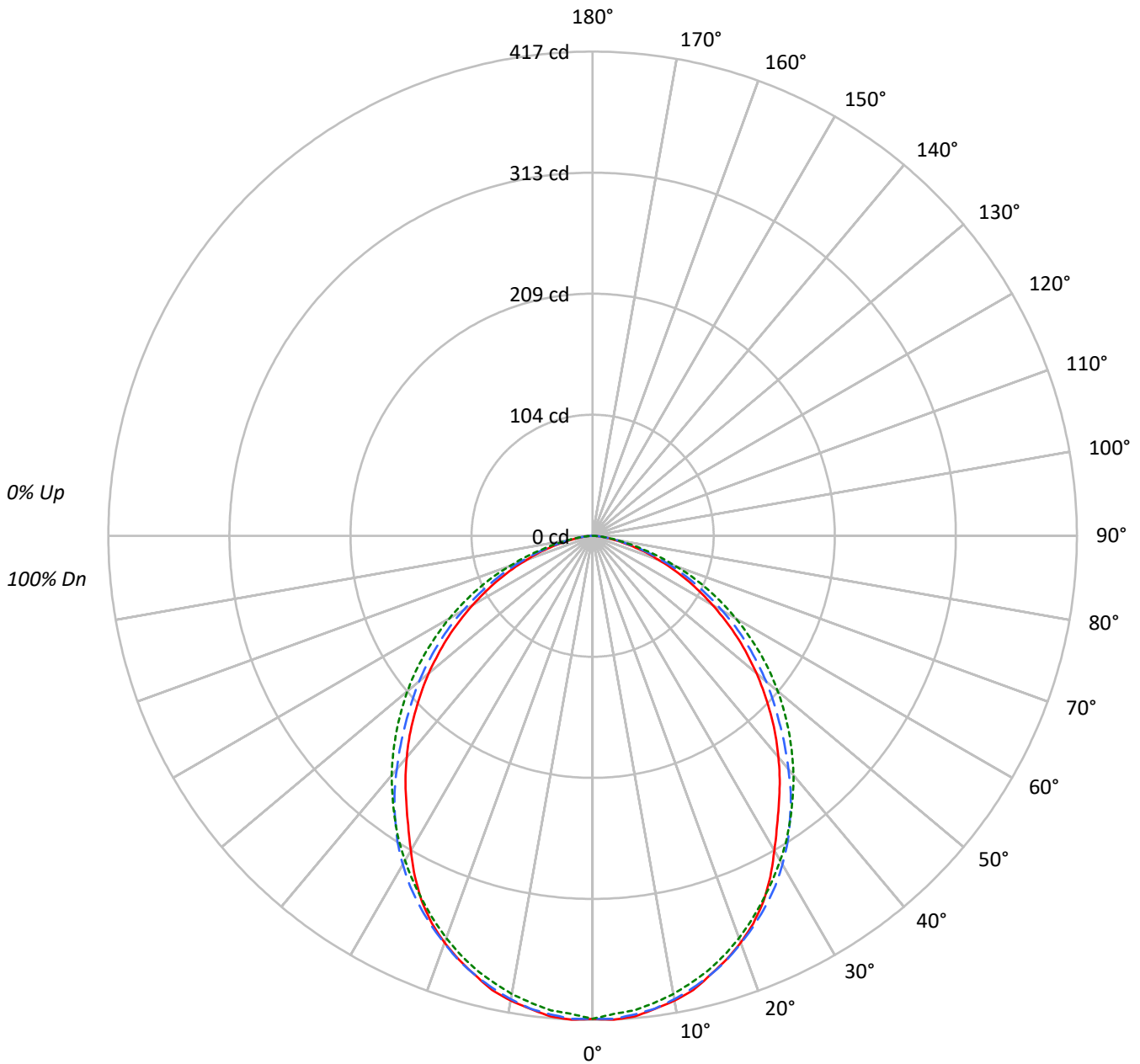
Lumens per Lamp: N/A
Luminaire Lumens: 962.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (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°	2239	2239	2239
5°	2245	2236	2217
10°	2222	2215	2190
15°	2182	2182	2157
20°	2136	2139	2111
25°	2065	2091	2058
30°	1945	2032	2007
35°	1838	1948	1951
40°	1749	1843	1891
45°	1649	1731	1820
50°	1543	1631	1742
55°	1423	1517	1649
60°	1282	1385	1533
65°	1132	1231	1394
70°	943	1048	1185
75°	740	838	927
80°	530	589	654
85°	346	346	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	4.1
10°-20°	110.0	11.4
20°-30°	160.8	16.7
30°-40°	182.5	19.0
40°-50°	176.2	18.3
50°-60°	145.4	15.1
60°-70°	96.8	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°	310.0	32.2
0°-40°	492.6	51.2
0°-60°	814.1	84.6
0°-90°	962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	416	415	414	412	410	39
15°	392	392	392	390	387	110
25°	348	350	352	350	346	159
35°	280	284	296	298	297	175
45°	217	220	227	238	239	167
55°	152	154	162	171	176	135
65°	89	91	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°	416.0	416.0	416.0	416.0	416.0
2.5°	417.2	417.3	416.4	413.8	412.2
5°	415.6	415.4	413.8	411.6	410.3
7.5°	410.9	411.2	410.8	407.6	405.8
10°	406.5	406.6	405.3	402.8	400.7
12.5°	400.7	400.5	398.8	397.5	394.1
15°	391.6	392.5	391.6	389.8	387.1
17.5°	382.8	382.8	383.4	380.4	378.3
20°	372.9	373.4	373.4	371.0	368.6
22.5°	361.4	362.8	363.3	360.7	357.9
25°	347.8	350.5	352.1	349.6	346.5
27.5°	331.3	335.5	340.3	338.4	335.0
30°	312.9	319.0	327.0	325.4	323.0
32.5°	295.5	301.6	312.6	312.0	310.7
35°	279.7	283.5	296.5	298.1	297.0
37.5°	264.7	268.2	280.3	284.0	283.1
40°	248.9	252.7	262.3	268.8	269.2
42.5°	233.2	236.9	244.7	254.1	254.1
45°	216.6	220.2	227.4	237.8	239.1
47.5°	200.3	204.1	211.1	221.5	223.6
50°	184.3	187.8	194.8	204.9	208.1
52.5°	167.7	171.5	178.4	187.6	192.3
55°	151.7	154.2	161.7	170.7	175.7
57.5°	135.1	137.5	145.9	153.6	158.7
60°	119.1	122.1	128.7	136.5	142.4
62.5°	103.7	106.9	112.5	119.4	126.1
65°	88.9	91.3	96.7	103.6	109.5
67.5°	74.5	76.6	82.0	86.8	93.0
70°	59.9	62.7	66.6	71.3	75.3
72.5°	48.3	49.4	52.7	56.1	60.3
75°	35.6	37.6	40.3	42.2	44.6
77.5°	25.6	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)