

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: P556606

Luminaire Tested: **FUSL-12-4-LD4-1LO-50-UNV-80-97-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: P556606
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-12-4-LD4-1LO-50-UNV-80-97-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

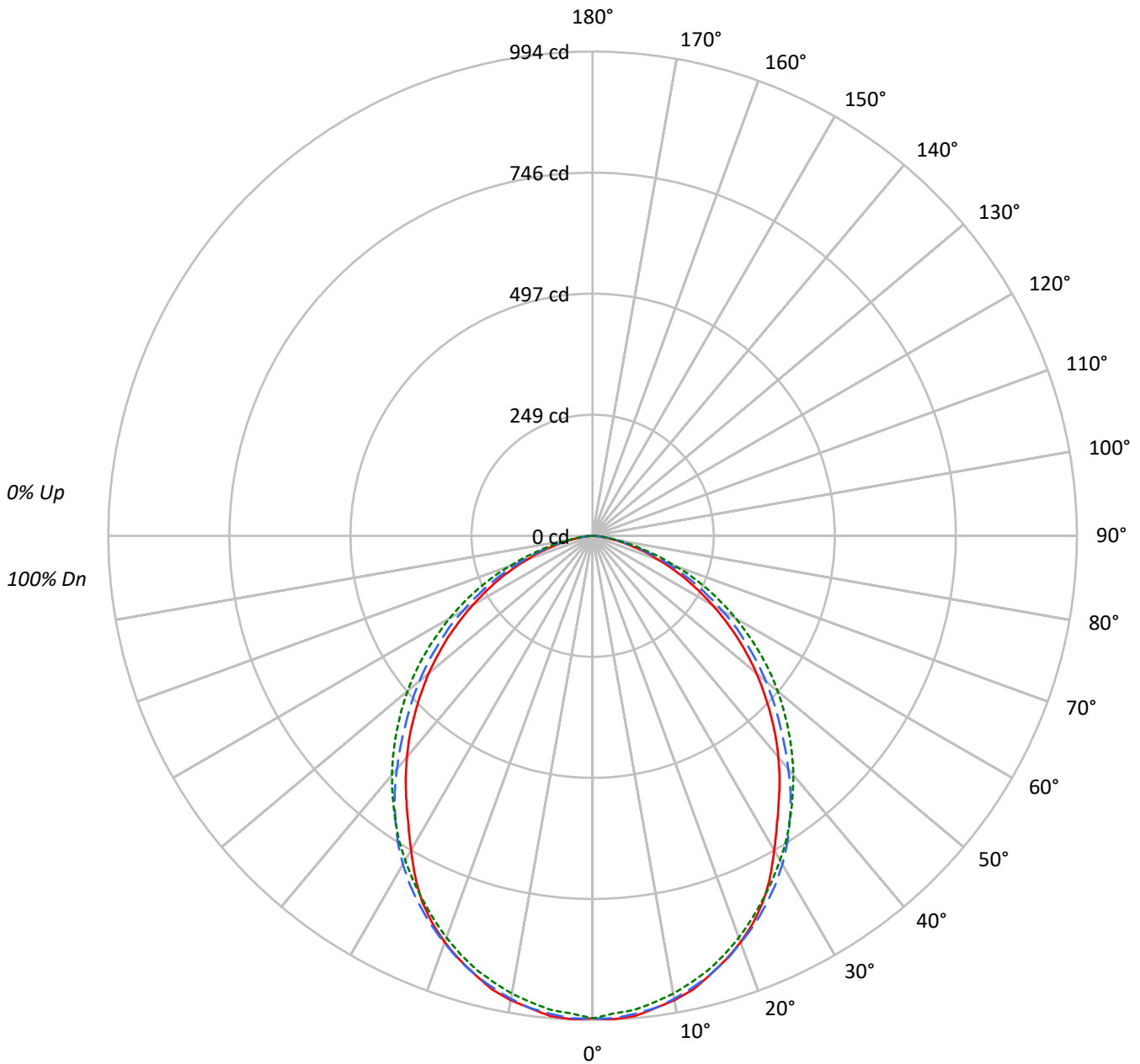
Lumens per Lamp: N/A
Luminaire Lumens: 2291.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2666	2666	2666
5°	2673	2662	2639
10°	2645	2638	2608
15°	2598	2598	2568
20°	2543	2546	2513
25°	2459	2490	2450
30°	2316	2420	2390
35°	2188	2320	2323
40°	2082	2194	2252
45°	1963	2061	2167
50°	1837	1942	2075
55°	1695	1807	1962
60°	1526	1649	1825
65°	1347	1466	1660
70°	1123	1249	1411
75°	883	997	1104
80°	631	702	778
85°	411	411	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	4.1
10°-20°	262.1	11.4
20°-30°	383.0	16.7
30°-40°	434.7	19.0
40°-50°	419.6	18.3
50°-60°	346.2	15.1
60°-70°	230.5	10.1
70°-80°	103.2	4.5
80°-90°	18.5	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°	738.3	32.2
0°-40°	1173.0	51.2
0°-60°	1938.9	84.6
0°-90°	2291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	990	989	986	980	977	94
15°	933	935	933	928	922	263
25°	828	835	838	832	825	379
35°	666	675	706	710	707	417
45°	516	524	542	566	569	398
55°	361	367	385	406	418	322
65°	212	217	230	247	261	210
75°	85	89	96	100	106	93
85°	13	13	13	13	13	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.8	990.8	990.8	990.8	990.8
2.5°	993.5	993.8	991.6	985.5	981.7
5°	989.7	989.3	985.5	980.1	977.1
7.5°	978.6	979.4	978.2	970.6	966.4
10°	968.0	968.3	965.3	959.2	954.3
12.5°	954.3	953.9	949.7	946.6	938.7
15°	932.6	934.8	932.6	928.4	921.9
17.5°	911.6	911.6	913.1	905.9	901.0
20°	888.0	889.2	889.2	883.5	877.7
22.5°	860.6	864.0	865.2	859.1	852.2
25°	828.3	834.7	838.5	832.5	825.2
27.5°	789.1	799.0	810.4	805.8	797.8
30°	745.3	759.8	778.8	775.0	769.3
32.5°	703.8	718.3	744.5	743.0	740.0
35°	666.1	675.3	706.1	709.9	707.2
37.5°	630.3	638.7	667.6	676.4	674.1
40°	592.7	601.8	624.6	640.2	641.0
42.5°	555.3	564.1	582.8	605.2	605.2
45°	515.8	524.5	541.6	566.4	569.4
47.5°	476.9	486.1	502.8	527.6	532.5
50°	438.9	447.2	464.0	488.0	495.6
52.5°	399.3	408.4	424.8	446.9	457.9
55°	361.2	367.3	385.2	406.5	418.3
57.5°	321.6	327.3	347.5	365.8	378.0
60°	283.6	290.8	306.4	325.1	339.1
62.5°	247.0	254.6	268.0	284.3	300.3
65°	211.6	217.3	230.3	246.7	260.7
67.5°	177.4	182.3	195.3	206.7	221.5
70°	142.7	149.2	158.7	169.8	179.3
72.5°	115.0	117.6	125.6	133.6	143.5
75°	84.9	89.4	95.9	100.5	106.2
77.5°	60.9	63.6	67.4	71.2	76.5
80°	40.7	41.9	45.3	46.1	50.2
82.5°	24.7	25.5	26.3	26.6	28.2
85°	13.3	13.3	13.3	12.6	12.6
87.5°	7.6	7.6	6.5	5.3	3.8
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)