

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: P554345

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-93-88-EDD**

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: P554345
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-50-UNV-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

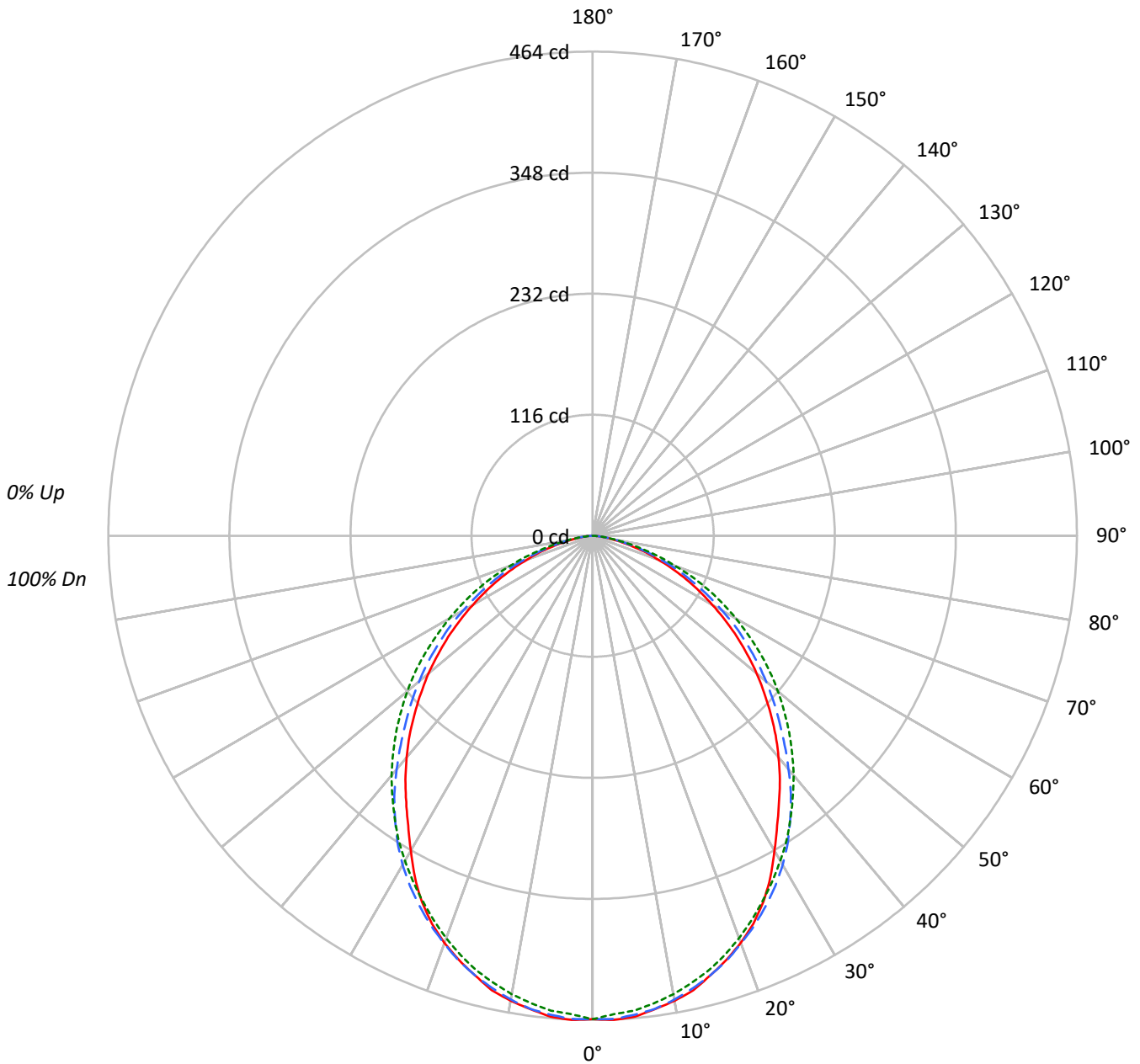
Lumens per Lamp: N/A
Luminaire Lumens: 1071.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2493	2493	2493
5°	2499	2489	2468
10°	2473	2466	2438
15°	2429	2429	2401
20°	2377	2381	2350
25°	2299	2328	2291
30°	2165	2263	2235
35°	2046	2169	2172
40°	1947	2051	2106
45°	1835	1927	2026
50°	1718	1816	1940
55°	1585	1690	1835
60°	1427	1541	1706
65°	1259	1372	1552
70°	1050	1168	1319
75°	826	932	1031
80°	589	657	728
85°	383	383	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	4.1
10°-20°	122.5	11.4
20°-30°	179.0	16.7
30°-40°	203.2	19.0
40°-50°	196.2	18.3
50°-60°	161.8	15.1
60°-70°	107.8	10.1
70°-80°	48.2	4.5
80°-90°	8.6	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°	345.2	32.2
0°-40°	548.4	51.2
0°-60°	906.4	84.6
0°-90°	1071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	463	463	463	463	463	
5°	463	462	461	458	457	44
15°	436	437	436	434	431	123
25°	387	390	392	389	386	177
35°	311	316	330	332	331	195
45°	241	245	253	265	266	186
55°	169	172	180	190	196	151
65°	99	102	108	115	122	98
75°	40	42	45	47	50	43
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	463.2	463.2	463.2	463.2	463.2
2.5°	464.4	464.6	463.5	460.7	458.9
5°	462.6	462.5	460.7	458.2	456.8
7.5°	457.5	457.8	457.3	453.7	451.8
10°	452.5	452.7	451.3	448.4	446.1
12.5°	446.1	445.9	444.0	442.5	438.8
15°	436.0	437.0	436.0	434.0	431.0
17.5°	426.2	426.2	426.9	423.5	421.2
20°	415.1	415.7	415.7	413.0	410.3
22.5°	402.3	403.9	404.5	401.6	398.4
25°	387.2	390.2	392.0	389.2	385.8
27.5°	368.9	373.5	378.8	376.7	373.0
30°	348.4	355.2	364.1	362.3	359.6
32.5°	329.0	335.8	348.1	347.3	345.9
35°	311.4	315.7	330.1	331.9	330.6
37.5°	294.7	298.6	312.1	316.2	315.1
40°	277.1	281.3	292.0	299.3	299.7
42.5°	259.6	263.7	272.4	282.9	282.9
45°	241.1	245.2	253.2	264.8	266.2
47.5°	223.0	227.2	235.1	246.6	248.9
50°	205.2	209.1	216.9	228.1	231.7
52.5°	186.7	190.9	198.6	208.9	214.1
55°	168.9	171.7	180.1	190.0	195.6
57.5°	150.4	153.0	162.5	171.0	176.7
60°	132.6	135.9	143.2	152.0	158.5
62.5°	115.5	119.0	125.3	132.9	140.4
65°	98.9	101.6	107.7	115.3	121.9
67.5°	82.9	85.2	91.3	96.6	103.6
70°	66.7	69.8	74.2	79.4	83.8
72.5°	53.7	55.0	58.7	62.5	67.1
75°	39.7	41.8	44.8	47.0	49.6
77.5°	28.5	29.7	31.5	33.3	35.8
80°	19.0	19.6	21.2	21.5	23.5
82.5°	11.6	11.9	12.3	12.5	13.2
85°	6.2	6.2	6.2	5.9	5.9
87.5°	3.6	3.6	3.0	2.5	1.8
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)