

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: P554303

Luminaire Tested: **FUSL-12-2-LD4-1LO-50-UNV-80-97-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: P554303
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-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

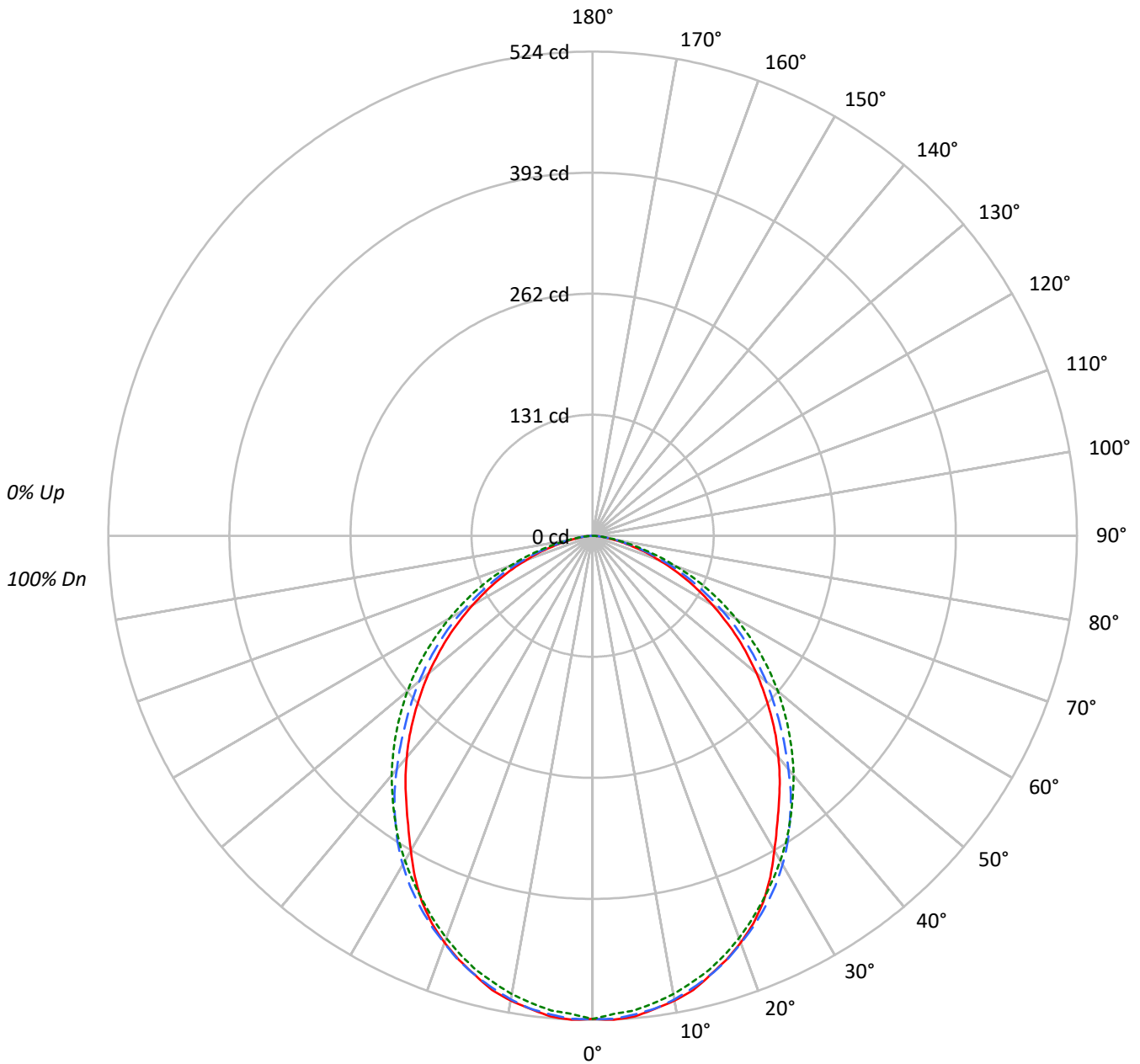
Lumens per Lamp: N/A
Luminaire Lumens: 1209.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2814	2814	2814
5°	2822	2809	2786
10°	2792	2784	2752
15°	2742	2742	2711
20°	2684	2687	2653
25°	2596	2628	2586
30°	2444	2554	2523
35°	2309	2448	2452
40°	2198	2316	2377
45°	2072	2175	2287
50°	1939	2051	2189
55°	1788	1908	2072
60°	1610	1741	1927
65°	1422	1547	1752
70°	1185	1319	1489
75°	932	1052	1164
80°	666	741	821
85°	432	432	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	4.1
10°-20°	138.3	11.4
20°-30°	202.1	16.7
30°-40°	229.4	19.0
40°-50°	221.5	18.3
50°-60°	182.7	15.1
60°-70°	121.7	10.1
70°-80°	54.4	4.5
80°-90°	9.7	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°	389.6	32.2
0°-40°	619.0	51.2
0°-60°	1023.2	84.6
0°-90°	1209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	522	522	520	517	516	49
15°	492	493	492	490	486	139
25°	437	440	442	439	436	200
35°	352	356	373	375	373	220
45°	272	277	286	299	300	210
55°	191	194	203	214	221	170
65°	112	115	122	130	138	111
75°	45	47	51	53	56	49
85°	7	7	7	7	7	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	522.9	522.9	522.9	522.9	522.9
2.5°	524.3	524.5	523.3	520.0	518.0
5°	522.3	522.1	520.0	517.2	515.6
7.5°	516.4	516.8	516.2	512.2	510.0
10°	510.8	511.0	509.4	506.2	503.6
12.5°	503.6	503.4	501.2	499.6	495.3
15°	492.1	493.3	492.1	489.9	486.5
17.5°	481.1	481.1	481.9	478.1	475.5
20°	468.6	469.2	469.2	466.2	463.2
22.5°	454.2	456.0	456.6	453.4	449.7
25°	437.1	440.5	442.5	439.3	435.5
27.5°	416.4	421.6	427.6	425.2	421.0
30°	393.3	400.9	411.0	409.0	406.0
32.5°	371.4	379.0	392.9	392.1	390.5
35°	351.5	356.3	372.6	374.6	373.2
37.5°	332.6	337.1	352.3	356.9	355.7
40°	312.8	317.6	329.6	337.9	338.3
42.5°	293.1	297.7	307.5	319.4	319.4
45°	272.2	276.8	285.8	298.9	300.5
47.5°	251.7	256.5	265.3	278.4	281.0
50°	231.6	236.0	244.9	257.5	261.5
52.5°	210.7	215.5	224.2	235.8	241.6
55°	190.6	193.8	203.3	214.5	220.8
57.5°	169.7	172.7	183.4	193.0	199.5
60°	149.6	153.5	161.7	171.5	179.0
62.5°	130.4	134.4	141.4	150.0	158.5
65°	111.7	114.7	121.5	130.2	137.6
67.5°	93.6	96.2	103.0	109.1	116.9
70°	75.3	78.7	83.8	89.6	94.6
72.5°	60.7	62.1	66.3	70.5	75.7
75°	44.8	47.2	50.6	53.0	56.0
77.5°	32.1	33.5	35.6	37.6	40.4
80°	21.5	22.1	23.9	24.3	26.5
82.5°	13.1	13.5	13.9	14.1	14.9
85°	7.0	7.0	7.0	6.6	6.6
87.5°	4.0	4.0	3.4	2.8	2.0
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)