

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: P554141

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-UNV-82-96-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: P554141
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-30-UNV-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

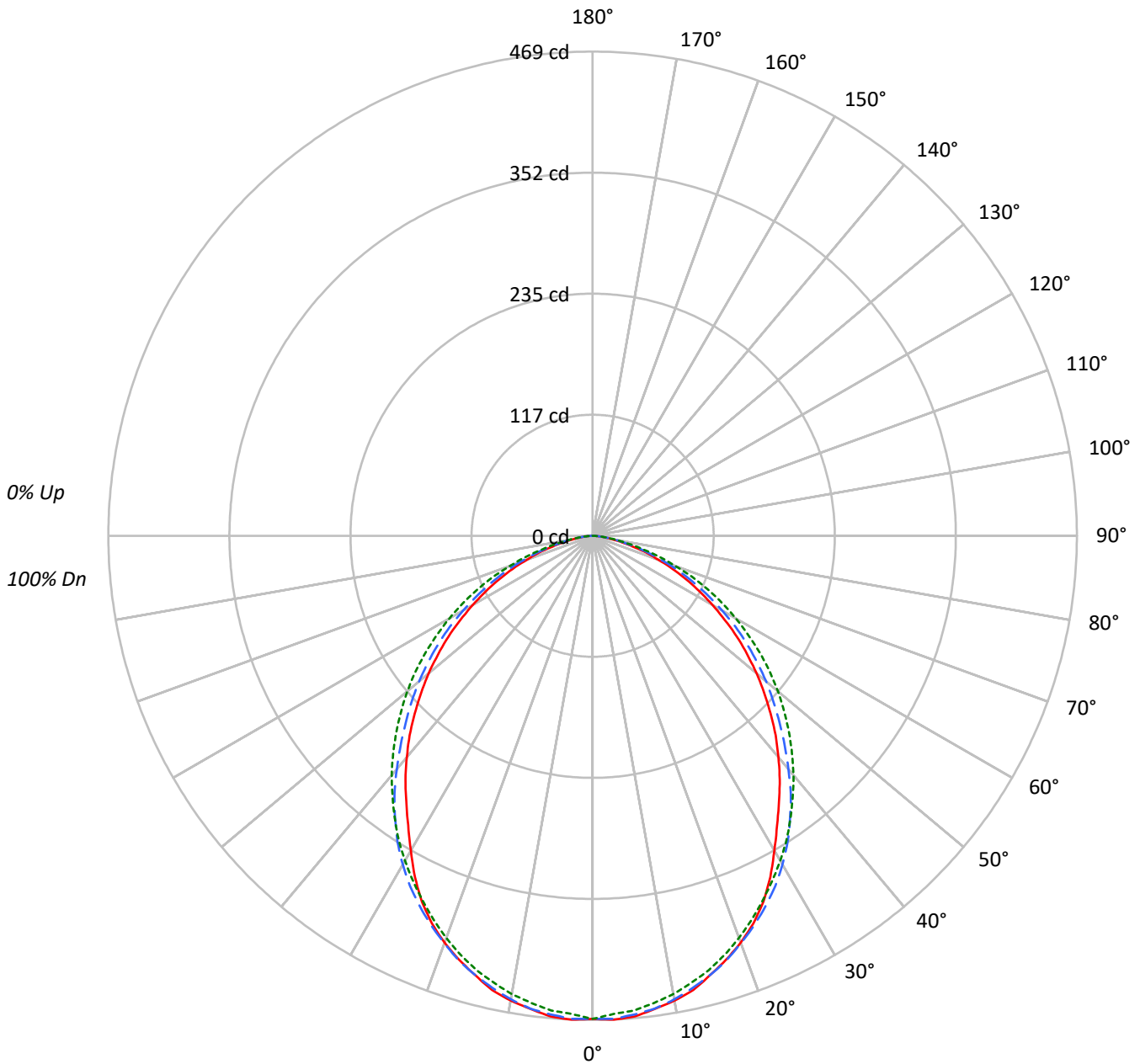
Lumens per Lamp: N/A
Luminaire Lumens: 1082.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2518	2518	2518
5°	2525	2514	2493
10°	2499	2491	2463
15°	2454	2454	2426
20°	2402	2405	2374
25°	2323	2352	2314
30°	2188	2286	2258
35°	2067	2191	2194
40°	1966	2073	2127
45°	1854	1947	2047
50°	1736	1834	1960
55°	1601	1707	1854
60°	1441	1558	1724
65°	1273	1386	1568
70°	1061	1180	1333
75°	834	942	1044
80°	595	663	735
85°	389	389	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	4.1
10°-20°	123.8	11.4
20°-30°	180.9	16.7
30°-40°	205.3	19.0
40°-50°	198.2	18.3
50°-60°	163.5	15.1
60°-70°	108.9	10.1
70°-80°	48.7	4.5
80°-90°	8.7	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°	348.7	32.2
0°-40°	554.0	51.2
0°-60°	915.7	84.6
0°-90°	1082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	467	467	465	463	462	44
15°	440	442	440	438	435	124
25°	391	394	396	393	390	179
35°	315	319	334	335	334	197
45°	244	248	256	268	269	188
55°	171	174	182	192	198	152
65°	100	103	109	116	123	99
75°	40	42	45	48	50	44
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°	467.9	467.9	467.9	467.9	467.9
2.5°	469.2	469.4	468.3	465.4	463.6
5°	467.4	467.2	465.4	462.9	461.5
7.5°	462.2	462.5	462.0	458.4	456.4
10°	457.2	457.3	455.9	453.0	450.7
12.5°	450.7	450.5	448.5	447.1	443.3
15°	440.4	441.5	440.4	438.5	435.4
17.5°	430.5	430.5	431.3	427.8	425.5
20°	419.4	419.9	419.9	417.2	414.5
22.5°	406.5	408.1	408.6	405.7	402.5
25°	391.2	394.2	396.0	393.2	389.7
27.5°	372.7	377.3	382.7	380.6	376.8
30°	352.0	358.8	367.8	366.0	363.3
32.5°	332.4	339.2	351.6	350.9	349.5
35°	314.6	318.9	333.5	335.3	334.0
37.5°	297.7	301.7	315.3	319.4	318.4
40°	279.9	284.2	295.0	302.4	302.7
42.5°	262.3	266.4	275.2	285.8	285.8
45°	243.6	247.7	255.8	267.5	268.9
47.5°	225.2	229.6	237.5	249.2	251.5
50°	207.3	211.2	219.1	230.5	234.1
52.5°	188.6	192.9	200.6	211.0	216.3
55°	170.6	173.5	181.9	192.0	197.6
57.5°	151.9	154.6	164.1	172.8	178.5
60°	133.9	137.3	144.7	153.5	160.2
62.5°	116.7	120.3	126.6	134.3	141.8
65°	100.0	102.6	108.8	116.5	123.1
67.5°	83.8	86.1	92.2	97.6	104.6
70°	67.4	70.5	75.0	80.2	84.7
72.5°	54.3	55.5	59.3	63.1	67.8
75°	40.1	42.2	45.3	47.5	50.2
77.5°	28.8	30.0	31.8	33.6	36.1
80°	19.2	19.8	21.4	21.8	23.7
82.5°	11.7	12.0	12.4	12.6	13.3
85°	6.3	6.3	6.3	5.9	5.9
87.5°	3.6	3.6	3.1	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)