

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: P554455

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-82-87-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: P554455
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-LD4-1STD-35-UNV-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

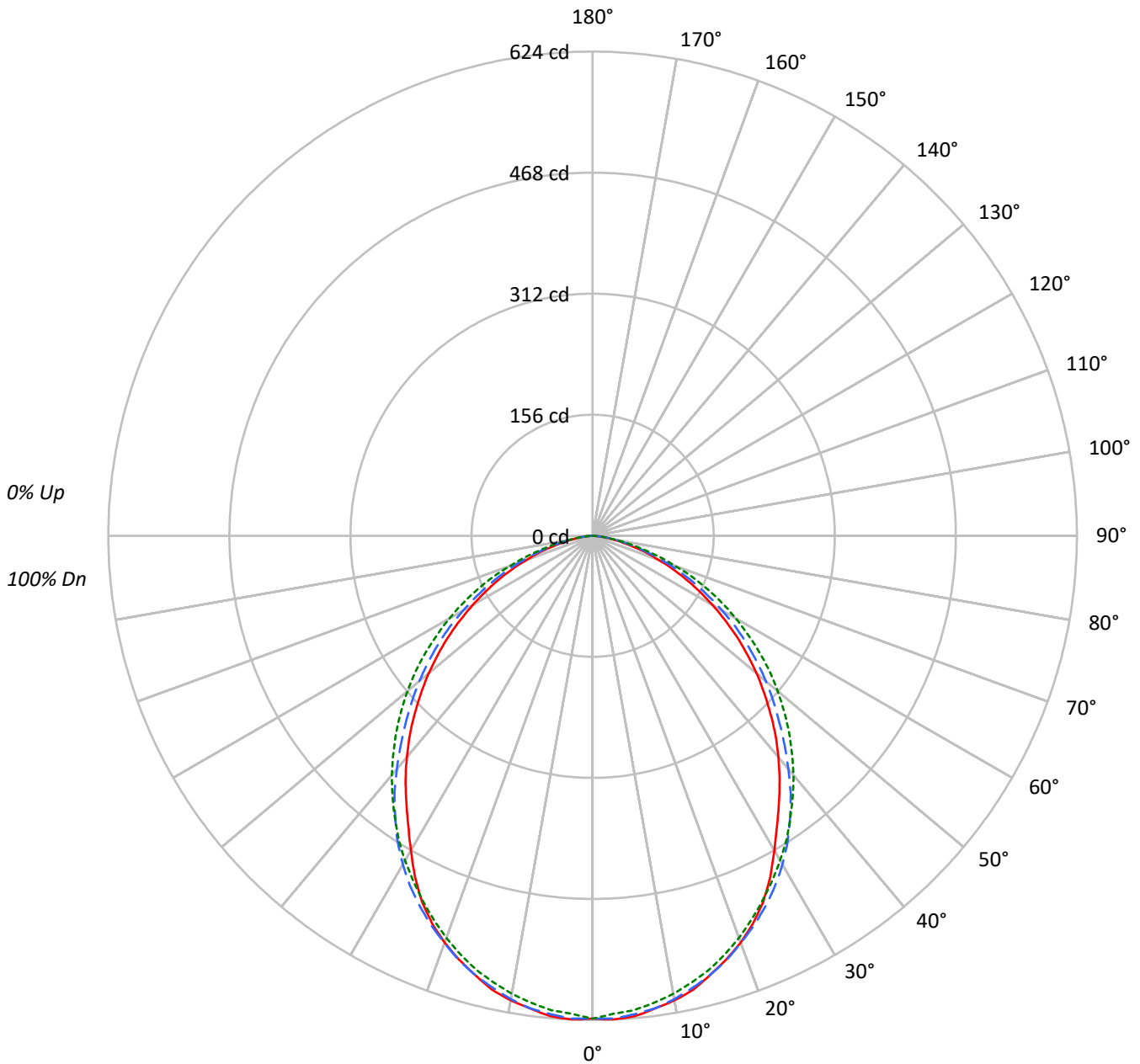
Lumens per Lamp: N/A
Luminaire Lumens: 1439.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3349	3349	3349
5°	3358	3344	3316
10°	3323	3313	3276
15°	3264	3264	3227
20°	3195	3199	3157
25°	3089	3128	3078
30°	2909	3040	3003
35°	2749	2914	2918
40°	2616	2756	2829
45°	2466	2589	2723
50°	2308	2440	2606
55°	2129	2271	2466
60°	1917	2072	2293
65°	1692	1841	2086
70°	1412	1569	1772
75°	1108	1252	1387
80°	793	883	979
85°	519	519	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	4.1
10°-20°	164.6	11.4
20°-30°	240.5	16.7
30°-40°	273.0	19.0
40°-50°	263.6	18.3
50°-60°	217.4	15.1
60°-70°	144.8	10.1
70°-80°	64.8	4.5
80°-90°	11.6	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°	463.7	32.2
0°-40°	736.8	51.2
0°-60°	1217.8	84.6
0°-90°	1439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	622	621	619	616	614	59
15°	586	587	586	583	579	165
25°	520	524	527	523	518	238
35°	418	424	444	446	444	262
45°	324	330	340	356	358	250
55°	227	231	242	255	263	203
65°	133	136	145	155	164	132
75°	53	56	60	63	67	58
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.3	622.3	622.3	622.3	622.3
2.5°	624.0	624.2	622.8	619.0	616.6
5°	621.6	621.4	619.0	615.6	613.7
7.5°	614.7	615.2	614.4	609.7	607.0
10°	608.0	608.2	606.3	602.5	599.4
12.5°	599.4	599.1	596.5	594.6	589.6
15°	585.8	587.2	585.8	583.1	579.1
17.5°	572.6	572.6	573.6	569.0	565.9
20°	557.8	558.5	558.5	554.9	551.3
22.5°	540.6	542.7	543.4	539.6	535.3
25°	520.2	524.3	526.7	522.9	518.3
27.5°	495.6	501.8	509.0	506.1	501.1
30°	468.1	477.2	489.2	486.8	483.2
32.5°	442.1	451.1	467.6	466.7	464.8
35°	418.4	424.1	443.5	445.9	444.2
37.5°	395.9	401.2	419.3	424.8	423.4
40°	372.3	378.0	392.3	402.1	402.6
42.5°	348.8	354.3	366.0	380.1	380.1
45°	324.0	329.5	340.2	355.8	357.7
47.5°	299.6	305.3	315.8	331.4	334.5
50°	275.7	280.9	291.4	306.5	311.3
52.5°	250.8	256.5	266.8	280.7	287.6
55°	226.9	230.7	242.0	255.3	262.8
57.5°	202.0	205.6	218.3	229.8	237.4
60°	178.1	182.7	192.5	204.2	213.0
62.5°	155.2	159.9	168.3	178.6	188.6
65°	132.9	136.5	144.6	154.9	163.8
67.5°	111.4	114.5	122.6	129.8	139.1
70°	89.7	93.7	99.7	106.6	112.6
72.5°	72.2	73.9	78.9	83.9	90.1
75°	53.3	56.2	60.2	63.1	66.7
77.5°	38.3	39.9	42.3	44.7	48.1
80°	25.6	26.3	28.5	28.9	31.6
82.5°	15.5	16.0	16.5	16.7	17.7
85°	8.4	8.4	8.4	7.9	7.9
87.5°	4.8	4.8	4.1	3.3	2.4
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)