

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: P554432

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-81-84-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: P554432
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-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

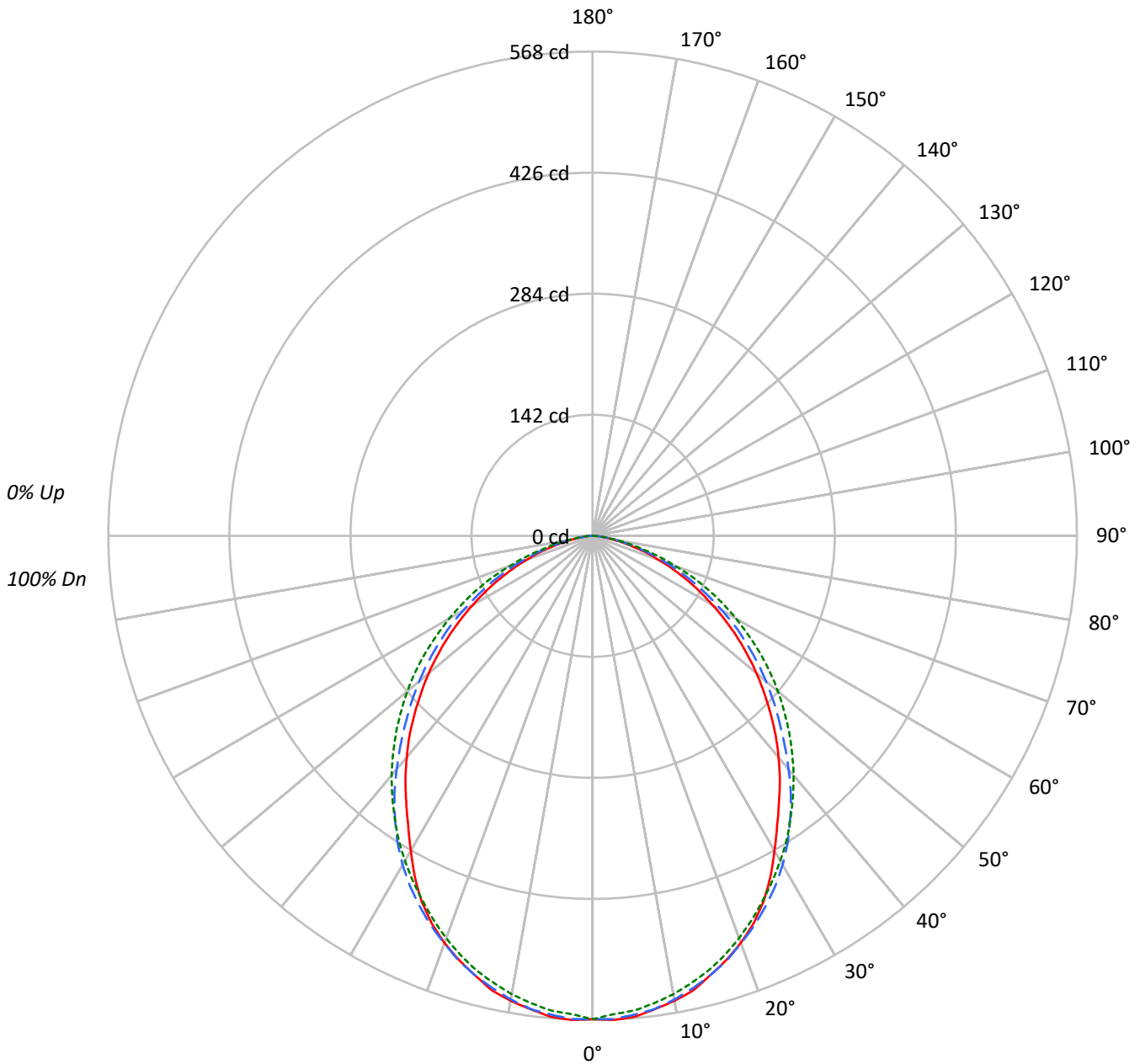
Lumens per Lamp: N/A
Luminaire Lumens: 1311.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3052	3052	3052
5°	3059	3046	3021
10°	3027	3019	2984
15°	2973	2973	2939
20°	2911	2914	2877
25°	2815	2849	2804
30°	2651	2770	2736
35°	2505	2654	2659
40°	2382	2511	2577
45°	2246	2359	2481
50°	2102	2223	2375
55°	1939	2068	2246
60°	1747	1887	2089
65°	1542	1678	1900
70°	1286	1429	1614
75°	1011	1142	1264
80°	722	803	893
85°	469	469	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	4.1
10°-20°	150.0	11.4
20°-30°	219.1	16.7
30°-40°	248.8	19.0
40°-50°	240.1	18.3
50°-60°	198.1	15.1
60°-70°	131.9	10.1
70°-80°	59.0	4.5
80°-90°	10.6	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°	422.5	32.2
0°-40°	671.3	51.2
0°-60°	1109.5	84.6
0°-90°	1311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1311.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	566	566	564	561	559	54
15°	534	535	534	531	528	150
25°	474	478	480	476	472	217
35°	381	386	404	406	405	239
45°	295	300	310	324	326	228
55°	207	210	220	233	239	185
65°	121	124	132	141	149	120
75°	49	51	55	58	61	53
85°	8	8	8	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	567.0	567.0	567.0	567.0	567.0
2.5°	568.5	568.7	567.4	563.9	561.7
5°	566.3	566.1	563.9	560.9	559.1
7.5°	560.0	560.4	559.8	555.4	553.0
10°	553.9	554.1	552.4	548.9	546.1
12.5°	546.1	545.8	543.4	541.7	537.1
15°	533.6	535.0	533.6	531.3	527.5
17.5°	521.7	521.7	522.5	518.4	515.6
20°	508.2	508.8	508.8	505.5	502.3
22.5°	492.5	494.4	495.1	491.6	487.7
25°	474.0	477.7	479.8	476.4	472.2
27.5°	451.5	457.2	463.7	461.1	456.5
30°	426.5	434.8	445.7	443.5	440.2
32.5°	402.7	411.0	426.0	425.2	423.4
35°	381.2	386.4	404.0	406.2	404.7
37.5°	360.7	365.5	382.0	387.1	385.8
40°	339.1	344.4	357.4	366.4	366.8
42.5°	317.8	322.8	333.5	346.3	346.3
45°	295.1	300.1	310.0	324.1	325.9
47.5°	272.9	278.2	287.7	301.9	304.7
50°	251.1	255.9	265.5	279.2	283.6
52.5°	228.5	233.7	243.1	255.7	262.0
55°	206.7	210.2	220.4	232.6	239.4
57.5°	184.1	187.3	198.9	209.3	216.3
60°	162.3	166.4	175.3	186.0	194.1
62.5°	141.4	145.7	153.3	162.7	171.9
65°	121.1	124.4	131.8	141.1	149.2
67.5°	101.5	104.3	111.7	118.3	126.8
70°	81.7	85.4	90.8	97.1	102.6
72.5°	65.8	67.3	71.9	76.5	82.1
75°	48.6	51.2	54.9	57.5	60.8
77.5°	34.9	36.4	38.6	40.7	43.8
80°	23.3	24.0	25.9	26.4	28.8
82.5°	14.2	14.6	15.0	15.2	16.1
85°	7.6	7.6	7.6	7.2	7.2
87.5°	4.4	4.4	3.7	3.0	2.2
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)