

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: P554562

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-81-85-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: P554562
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-50-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

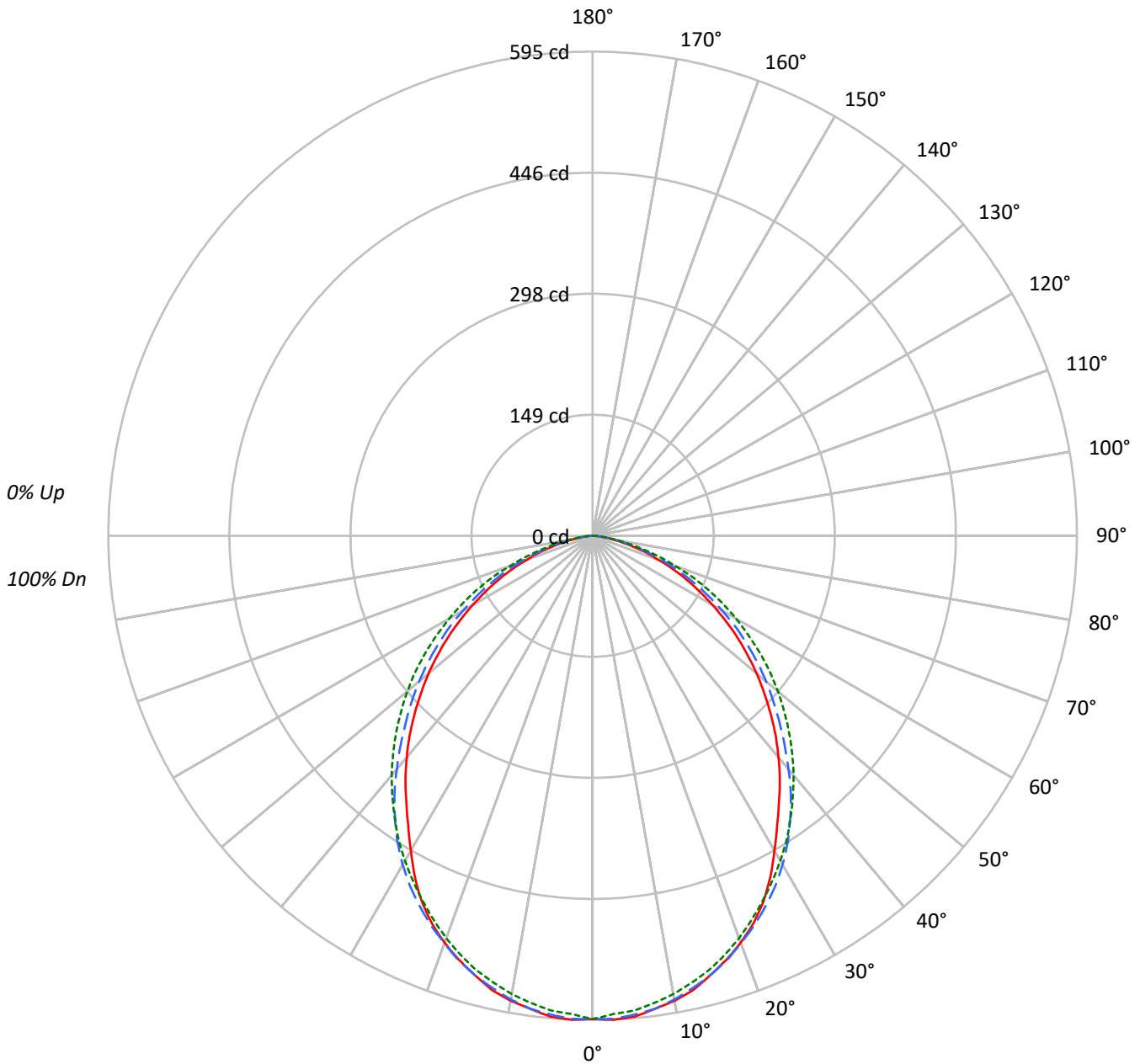
Lumens per Lamp: N/A
Luminaire Lumens: 1373.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3196	3196	3196
5°	3204	3191	3164
10°	3170	3161	3125
15°	3114	3114	3078
20°	3048	3052	3013
25°	2948	2984	2937
30°	2776	2900	2865
35°	2623	2780	2784
40°	2496	2630	2699
45°	2353	2471	2598
50°	2202	2328	2487
55°	2031	2167	2352
60°	1829	1976	2188
65°	1615	1757	1990
70°	1345	1496	1690
75°	1058	1196	1323
80°	756	840	933
85°	494	494	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	4.1
10°-20°	157.1	11.4
20°-30°	229.5	16.7
30°-40°	260.5	19.0
40°-50°	251.5	18.3
50°-60°	207.5	15.1
60°-70°	138.2	10.1
70°-80°	61.8	4.5
80°-90°	11.1	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°	442.5	32.2
0°-40°	703.0	51.2
0°-60°	1162.0	84.6
0°-90°	1373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	593	593	591	587	586	56
15°	559	560	559	556	552	158
25°	496	500	502	499	495	227
35°	399	405	423	425	424	250
45°	309	314	325	339	341	238
55°	216	220	231	244	251	193
65°	127	130	138	148	156	126
75°	51	54	58	60	64	56
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°	593.8	593.8	593.8	593.8	593.8
2.5°	595.4	595.6	594.2	590.6	588.3
5°	593.1	592.9	590.6	587.4	585.6
7.5°	586.5	586.9	586.3	581.7	579.2
10°	580.1	580.3	578.5	574.9	571.9
12.5°	571.9	571.7	569.2	567.3	562.5
15°	558.9	560.3	558.9	556.4	552.5
17.5°	546.3	546.3	547.3	542.9	540.0
20°	532.2	532.9	532.9	529.5	526.0
22.5°	515.8	517.8	518.5	514.9	510.8
25°	496.4	500.3	502.5	498.9	494.6
27.5°	472.9	478.8	485.7	482.9	478.1
30°	446.7	455.3	466.7	464.4	461.0
32.5°	421.8	430.5	446.2	445.3	443.5
35°	399.2	404.7	423.2	425.4	423.8
37.5°	377.8	382.8	400.1	405.4	404.0
40°	355.2	360.7	374.3	383.7	384.1
42.5°	332.8	338.1	349.2	362.7	362.7
45°	309.1	314.3	324.6	339.4	341.3
47.5°	285.8	291.3	301.3	316.2	319.1
50°	263.0	268.0	278.1	292.4	297.0
52.5°	239.3	244.8	254.6	267.8	274.4
55°	216.5	220.1	230.9	243.6	250.7
57.5°	192.8	196.2	208.3	219.2	226.5
60°	169.9	174.3	183.6	194.8	203.3
62.5°	148.0	152.6	160.6	170.4	180.0
65°	126.8	130.3	138.0	147.8	156.3
67.5°	106.3	109.3	117.0	123.9	132.8
70°	85.5	89.4	95.1	101.7	107.4
72.5°	68.9	70.5	75.3	80.1	86.0
75°	50.9	53.6	57.5	60.2	63.6
77.5°	36.5	38.1	40.4	42.7	45.9
80°	24.4	25.1	27.1	27.6	30.1
82.5°	14.8	15.3	15.7	16.0	16.9
85°	8.0	8.0	8.0	7.5	7.5
87.5°	4.6	4.6	3.9	3.2	2.3
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)