

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: P554457

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-82-88-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: P554457
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-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

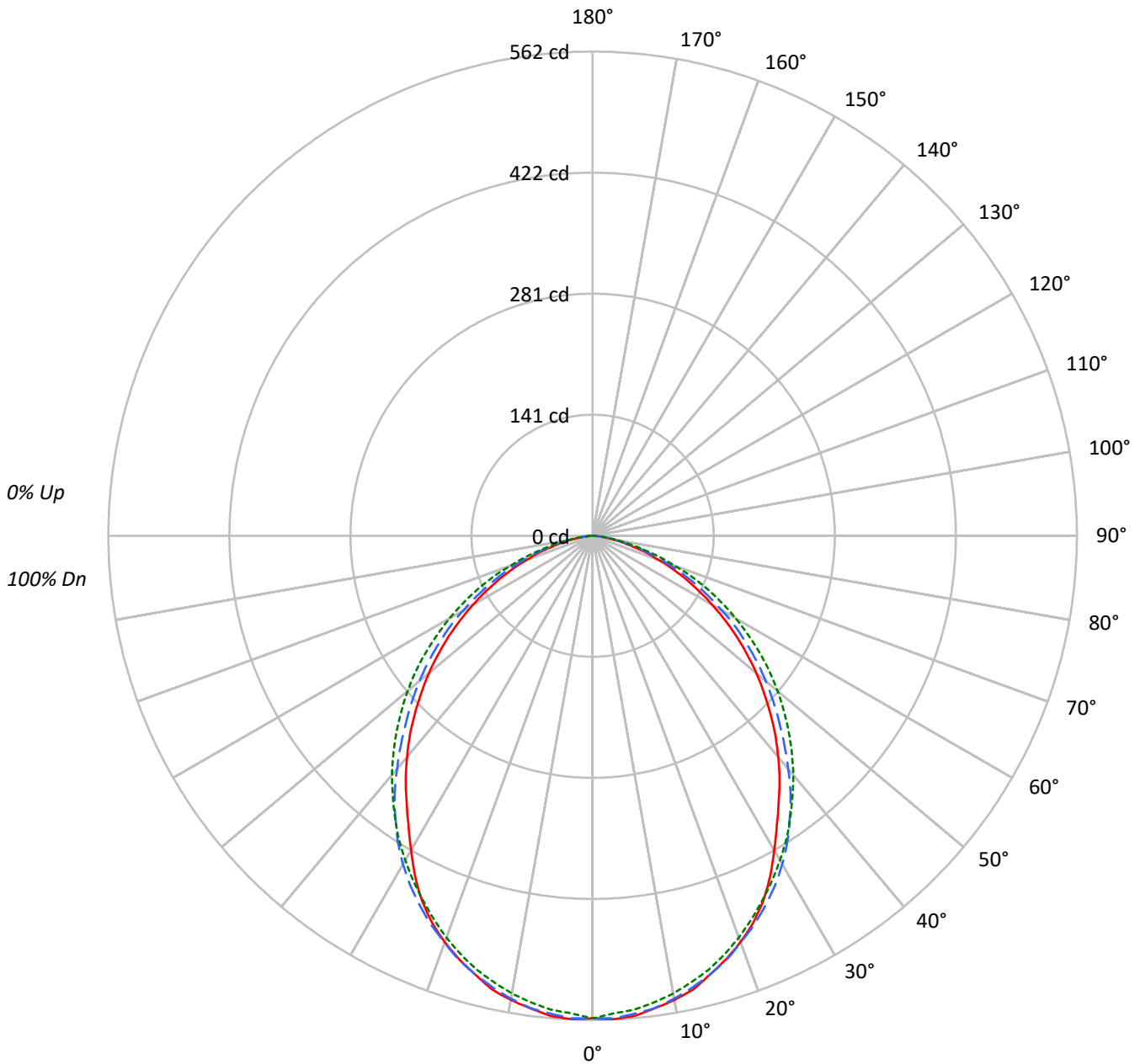
Lumens per Lamp: N/A
Luminaire Lumens: 1295.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3014	3014	3014
5°	3022	3009	2984
10°	2990	2982	2948
15°	2937	2937	2903
20°	2875	2879	2842
25°	2780	2815	2770
30°	2618	2736	2702
35°	2474	2622	2627
40°	2354	2481	2545
45°	2219	2331	2450
50°	2077	2196	2345
55°	1916	2043	2219
60°	1725	1864	2063
65°	1523	1658	1877
70°	1270	1412	1594
75°	998	1127	1248
80°	713	793	880
85°	463	463	438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	4.1
10°-20°	148.1	11.4
20°-30°	216.5	16.7
30°-40°	245.7	19.0
40°-50°	237.2	18.3
50°-60°	195.7	15.1
60°-70°	130.3	10.1
70°-80°	58.3	4.5
80°-90°	10.4	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°	417.3	32.2
0°-40°	663.1	51.2
0°-60°	1096.0	84.6
0°-90°	1295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	559	559	557	554	552	53
15°	527	528	527	525	521	149
25°	468	472	474	470	466	214
35°	376	382	399	401	400	236
45°	292	296	306	320	322	225
55°	204	208	218	230	236	182
65°	120	123	130	139	147	119
75°	48	51	54	57	60	52
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°	560.1	560.1	560.1	560.1	560.1
2.5°	561.6	561.8	560.5	557.0	554.9
5°	559.4	559.2	557.0	554.0	552.3
7.5°	553.2	553.6	553.0	548.7	546.3
10°	547.1	547.4	545.6	542.2	539.4
12.5°	539.4	539.2	536.8	535.1	530.6
15°	527.1	528.4	527.1	524.8	521.1
17.5°	515.3	515.3	516.2	512.1	509.3
20°	502.0	502.6	502.6	499.4	496.2
22.5°	486.5	488.4	489.1	485.6	481.7
25°	468.2	471.8	474.0	470.5	466.5
27.5°	446.0	451.6	458.1	455.5	451.0
30°	421.3	429.5	440.2	438.1	434.8
32.5°	397.8	406.0	420.8	420.0	418.3
35°	376.5	381.7	399.1	401.3	399.8
37.5°	356.3	361.0	377.4	382.3	381.0
40°	335.0	340.2	353.1	361.9	362.3
42.5°	313.9	318.9	329.4	342.1	342.1
45°	291.5	296.5	306.2	320.2	321.9
47.5°	269.6	274.8	284.2	298.2	301.0
50°	248.1	252.8	262.3	275.8	280.1
52.5°	225.7	230.9	240.1	252.6	258.8
55°	204.2	207.6	217.7	229.8	236.5
57.5°	181.8	185.0	196.4	206.8	213.7
60°	160.3	164.4	173.2	183.7	191.7
62.5°	139.6	143.9	151.5	160.7	169.8
65°	119.6	122.9	130.2	139.4	147.4
67.5°	100.3	103.1	110.4	116.8	125.2
70°	80.7	84.3	89.7	96.0	101.3
72.5°	65.0	66.5	71.0	75.5	81.1
75°	48.0	50.6	54.2	56.8	60.0
77.5°	34.4	35.9	38.1	40.2	43.2
80°	23.0	23.7	25.6	26.0	28.4
82.5°	14.0	14.4	14.8	15.1	15.9
85°	7.5	7.5	7.5	7.1	7.1
87.5°	4.3	4.3	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)