

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: P554508

Luminaire Tested: **FUSL-12-2-LD4-1STD-40-UNV-81-96-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: P554508
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-40-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

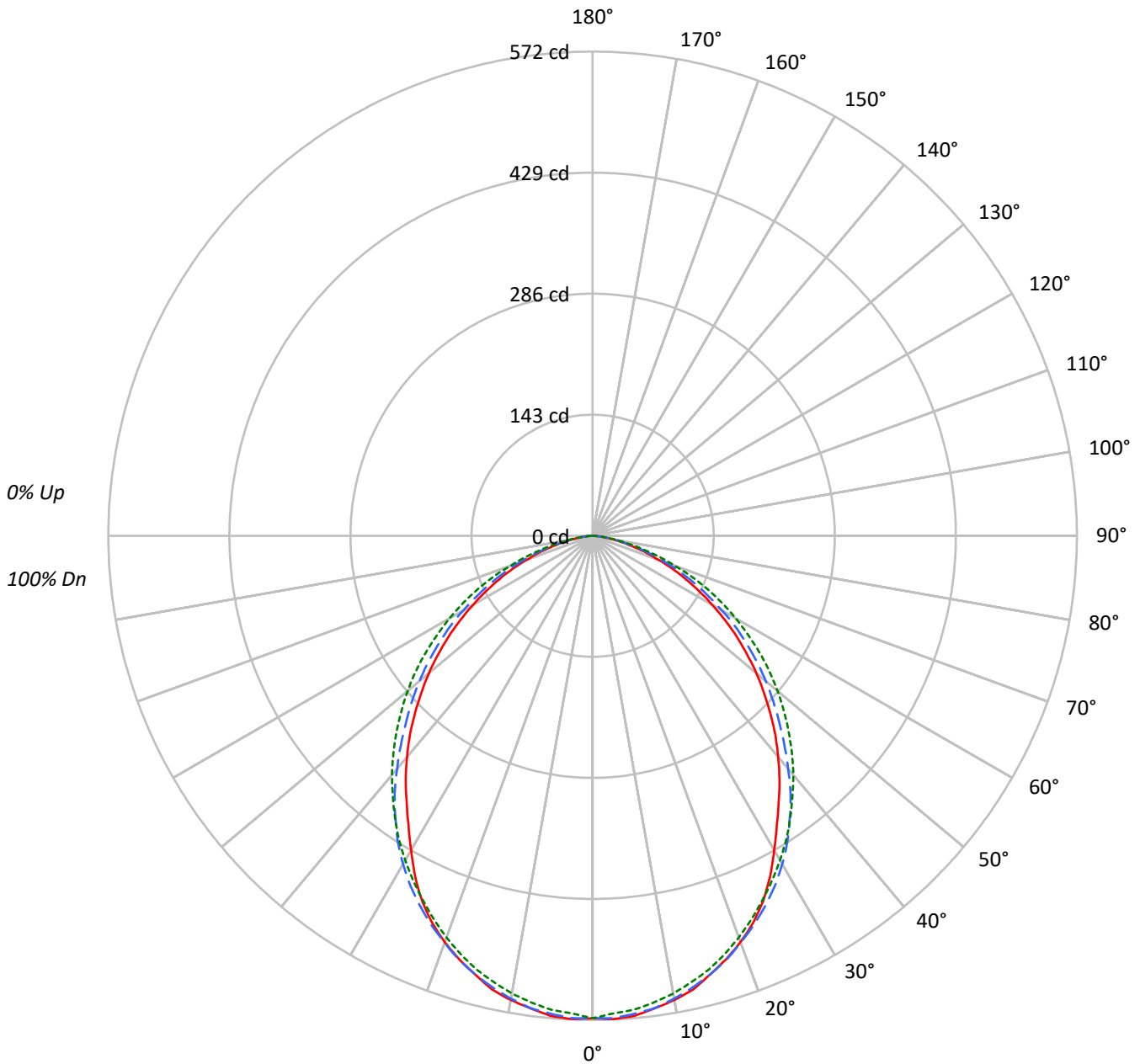
Lumens per Lamp: N/A
Luminaire Lumens: 1318.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P554508

CATALOG NUMBER: FUSL-12-2-LD4-1STD-40-UNV-81-96-EDD-90

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°	3068	3068	3068
5°	3076	3063	3037
10°	3043	3035	3000
15°	2989	2989	2955
20°	2926	2930	2892
25°	2830	2865	2819
30°	2665	2784	2751
35°	2518	2669	2673
40°	2395	2524	2591
45°	2258	2372	2493
50°	2114	2235	2387
55°	1950	2079	2259
60°	1756	1898	2100
65°	1551	1687	1910
70°	1292	1437	1622
75°	1015	1148	1271
80°	725	809	896
85°	475	475	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	4.1
10°-20°	150.8	11.4
20°-30°	220.3	16.7
30°-40°	250.1	19.0
40°-50°	241.4	18.3
50°-60°	199.2	15.1
60°-70°	132.6	10.1
70°-80°	59.4	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°	424.7	32.2
0°-40°	674.8	51.2
0°-60°	1115.4	84.6
0°-90°	1318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	569	569	567	564	562	54
15°	536	538	536	534	530	151
25°	476	480	482	479	475	218
35°	383	388	406	408	407	240
45°	297	302	312	326	328	229
55°	208	211	222	234	241	185
65°	122	125	132	142	150	121
75°	49	52	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°	570.0	570.0	570.0	570.0	570.0
2.5°	571.5	571.8	570.4	566.9	564.7
5°	569.3	569.1	566.9	563.9	562.1
7.5°	563.0	563.4	562.8	558.4	556.0
10°	556.9	557.1	555.3	551.8	549.0
12.5°	549.0	548.8	546.4	544.6	540.0
15°	536.5	537.8	536.5	534.1	530.4
17.5°	524.5	524.5	525.3	521.2	518.3
20°	510.9	511.5	511.5	508.2	505.0
22.5°	495.1	497.1	497.7	494.2	490.3
25°	476.5	480.2	482.4	478.9	474.7
27.5°	453.9	459.6	466.2	463.6	459.0
30°	428.8	437.1	448.0	445.8	442.6
32.5°	404.9	413.2	428.3	427.4	425.7
35°	383.2	388.5	406.2	408.4	406.9
37.5°	362.6	367.4	384.1	389.1	387.8
40°	340.9	346.2	359.3	368.3	368.8
42.5°	319.5	324.5	335.3	348.2	348.2
45°	296.7	301.8	311.6	325.8	327.6
47.5°	274.4	279.6	289.3	303.5	306.4
50°	252.5	257.3	266.9	280.7	285.1
52.5°	229.7	235.0	244.4	257.1	263.4
55°	207.8	211.3	221.6	233.9	240.7
57.5°	185.0	188.3	199.9	210.4	217.4
60°	163.1	167.3	176.3	187.0	195.1
62.5°	142.1	146.5	154.2	163.6	172.8
65°	121.8	125.0	132.5	141.9	150.0
67.5°	102.0	104.9	112.3	118.9	127.4
70°	82.1	85.8	91.3	97.7	103.1
72.5°	66.1	67.7	72.3	76.9	82.6
75°	48.8	51.5	55.2	57.8	61.1
77.5°	35.0	36.6	38.8	40.9	44.0
80°	23.4	24.1	26.1	26.5	28.9
82.5°	14.2	14.7	15.1	15.3	16.2
85°	7.7	7.7	7.7	7.2	7.2
87.5°	4.4	4.4	3.7	3.1	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)