

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: P554229

Luminaire Tested: **FUSL-12-2-LD4-1LO-40-UNV-80-86-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: P554229
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-LD4-1LO-40-UNV-80-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

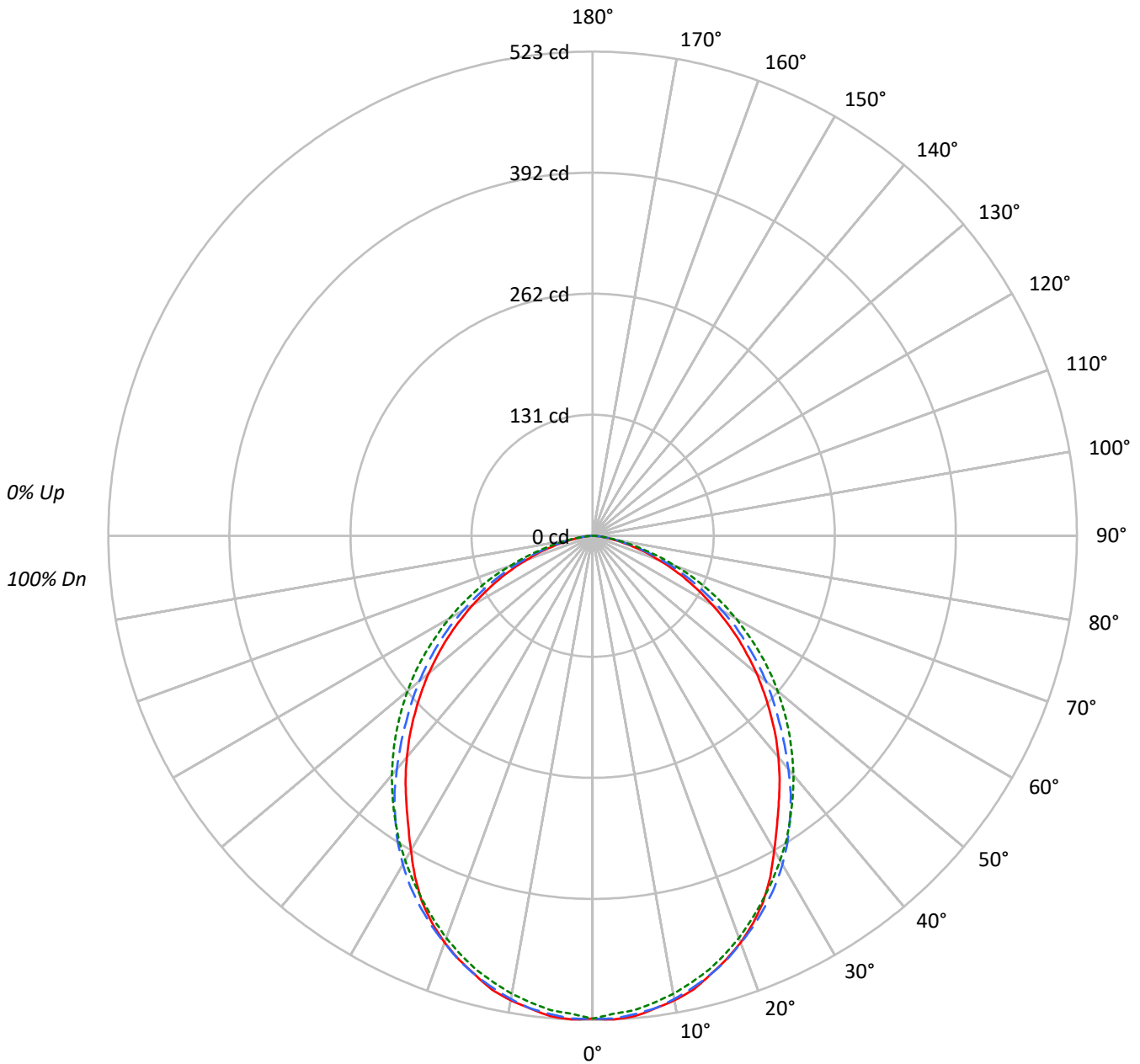
Lumens per Lamp: N/A
Luminaire Lumens: 1206.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

TEST NUMBER: P554229

CATALOG NUMBER: FUSL-12-2-LD4-1LO-40-UNV-80-86-EDD

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°	2807	2807	2807
5°	2815	2803	2779
10°	2784	2777	2745
15°	2735	2735	2704
20°	2678	2681	2647
25°	2589	2621	2580
30°	2438	2548	2516
35°	2303	2442	2446
40°	2192	2310	2370
45°	2066	2170	2282
50°	1934	2045	2184
55°	1785	1903	2066
60°	1607	1736	1921
65°	1419	1543	1748
70°	1182	1316	1485
75°	930	1050	1162
80°	663	738	818
85°	432	432	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	4.1
10°-20°	138.0	11.4
20°-30°	201.6	16.7
30°-40°	228.8	19.0
40°-50°	220.9	18.3
50°-60°	182.2	15.1
60°-70°	121.4	10.1
70°-80°	54.3	4.5
80°-90°	9.7	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°	388.7	32.2
0°-40°	617.5	51.2
0°-60°	1020.6	84.6
0°-90°	1206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	521	521	519	516	514	49
15°	491	492	491	489	485	138
25°	436	439	441	438	434	200
35°	351	356	372	374	372	220
45°	272	276	285	298	300	209
55°	190	193	203	214	220	170
65°	111	114	121	130	137	110
75°	45	47	50	53	56	49
85°	7	7	7	7	7	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	521.6	521.6	521.6	521.6	521.6
2.5°	523.0	523.2	522.0	518.8	516.8
5°	521.0	520.8	518.8	516.0	514.4
7.5°	515.2	515.6	515.0	510.9	508.7
10°	509.5	509.7	508.1	504.9	502.3
12.5°	502.3	502.1	499.9	498.3	494.1
15°	490.9	492.1	490.9	488.7	485.3
17.5°	479.9	479.9	480.7	476.9	474.3
20°	467.5	468.1	468.1	465.1	462.1
22.5°	453.0	454.8	455.4	452.2	448.6
25°	436.0	439.4	441.4	438.2	434.4
27.5°	415.4	420.6	426.6	424.2	420.0
30°	392.3	399.9	410.0	408.0	404.9
32.5°	370.5	378.1	391.9	391.1	389.5
35°	350.6	355.5	371.7	373.7	372.3
37.5°	331.8	336.2	351.4	356.1	354.9
40°	312.0	316.8	328.8	337.0	337.4
42.5°	292.3	296.9	306.8	318.6	318.6
45°	271.5	276.1	285.1	298.2	299.8
47.5°	251.1	255.9	264.7	277.7	280.3
50°	231.0	235.4	244.3	256.9	260.9
52.5°	210.2	215.0	223.6	235.2	241.0
55°	190.2	193.4	202.8	214.0	220.2
57.5°	169.3	172.3	182.9	192.6	199.0
60°	149.3	153.1	161.3	171.1	178.5
62.5°	130.0	134.0	141.1	149.7	158.1
65°	111.4	114.4	121.2	129.8	137.3
67.5°	93.4	96.0	102.8	108.8	116.6
70°	75.1	78.5	83.6	89.4	94.4
72.5°	60.5	61.9	66.1	70.3	75.5
75°	44.7	47.1	50.5	52.9	55.9
77.5°	32.1	33.5	35.5	37.5	40.3
80°	21.4	22.0	23.8	24.2	26.4
82.5°	13.0	13.4	13.8	14.0	14.8
85°	7.0	7.0	7.0	6.6	6.6
87.5°	4.0	4.0	3.4	2.8	2.0
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)