

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: P553910

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-80-87-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: P553910
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-LD4-1HI-35-UNV-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

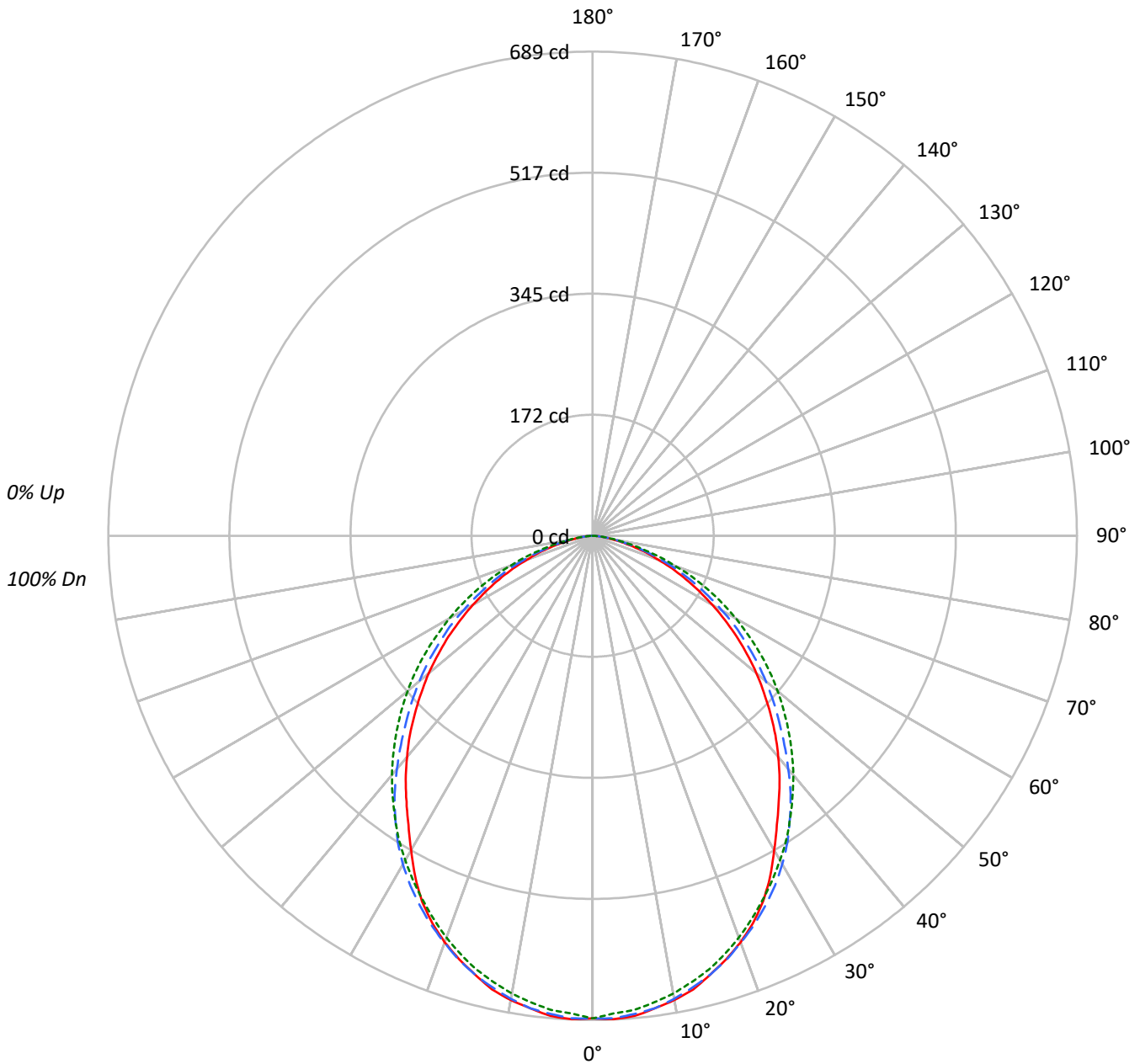
Lumens per Lamp: N/A
Luminaire Lumens: 1588.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	3696	3696	3696
5°	3706	3690	3659
10°	3666	3657	3615
15°	3602	3602	3560
20°	3525	3530	3485
25°	3409	3451	3397
30°	3210	3355	3314
35°	3033	3215	3221
40°	2886	3042	3121
45°	2721	2857	3004
50°	2547	2693	2876
55°	2350	2505	2721
60°	2116	2286	2531
65°	1868	2032	2301
70°	1556	1731	1956
75°	1223	1383	1530
80°	874	973	1079
85°	568	568	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	4.1
10°-20°	181.7	11.4
20°-30°	265.4	16.7
30°-40°	301.3	19.0
40°-50°	290.9	18.3
50°-60°	239.9	15.1
60°-70°	159.8	10.1
70°-80°	71.5	4.5
80°-90°	12.8	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°	511.8	32.2
0°-40°	813.1	51.2
0°-60°	1343.9	84.6
0°-90°	1588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	687	687	687	687	687	
5°	686	686	683	679	677	65
15°	646	648	646	644	639	182
25°	574	579	581	577	572	263
35°	462	468	489	492	490	289
45°	358	364	375	393	395	276
55°	250	255	267	282	290	223
65°	147	151	160	171	181	145
75°	59	62	66	70	74	64
85°	9	9	9	9	9	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686.8	686.8	686.8	686.8	686.8
2.5°	688.6	688.9	687.3	683.1	680.4
5°	686.0	685.7	683.1	679.4	677.3
7.5°	678.3	678.9	678.1	672.8	669.9
10°	670.9	671.2	669.1	664.9	661.4
12.5°	661.4	661.2	658.3	656.2	650.6
15°	646.4	648.0	646.4	643.5	639.0
17.5°	631.9	631.9	632.9	627.9	624.5
20°	615.5	616.3	616.3	612.4	608.4
22.5°	596.5	598.9	599.7	595.5	590.7
25°	574.1	578.6	581.2	577.0	572.0
27.5°	546.9	553.8	561.7	558.5	553.0
30°	516.6	526.6	539.8	537.2	533.2
32.5°	487.8	497.9	516.1	515.0	512.9
35°	461.7	468.0	489.4	492.1	490.2
37.5°	436.9	442.7	462.8	468.8	467.3
40°	410.8	417.1	433.0	443.8	444.3
42.5°	384.9	391.0	403.9	419.5	419.5
45°	357.5	363.6	375.4	392.6	394.7
47.5°	330.6	336.9	348.5	365.7	369.1
50°	304.2	310.0	321.6	338.2	343.5
52.5°	276.8	283.1	294.4	309.7	317.4
55°	250.4	254.6	267.0	281.8	290.0
57.5°	222.9	226.9	240.9	253.5	262.0
60°	196.6	201.6	212.4	225.3	235.1
62.5°	171.2	176.5	185.7	197.1	208.2
65°	146.7	150.7	159.6	171.0	180.7
67.5°	122.9	126.4	135.3	143.3	153.6
70°	98.9	103.4	110.0	117.7	124.3
72.5°	79.7	81.5	87.1	92.6	99.5
75°	58.8	62.0	66.5	69.7	73.6
77.5°	42.2	44.1	46.7	49.3	53.0
80°	28.2	29.0	31.4	31.9	34.8
82.5°	17.1	17.7	18.2	18.5	19.5
85°	9.2	9.2	9.2	8.7	8.7
87.5°	5.3	5.3	4.5	3.7	2.6
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)