

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: P554556

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-80-96-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: P554556
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-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

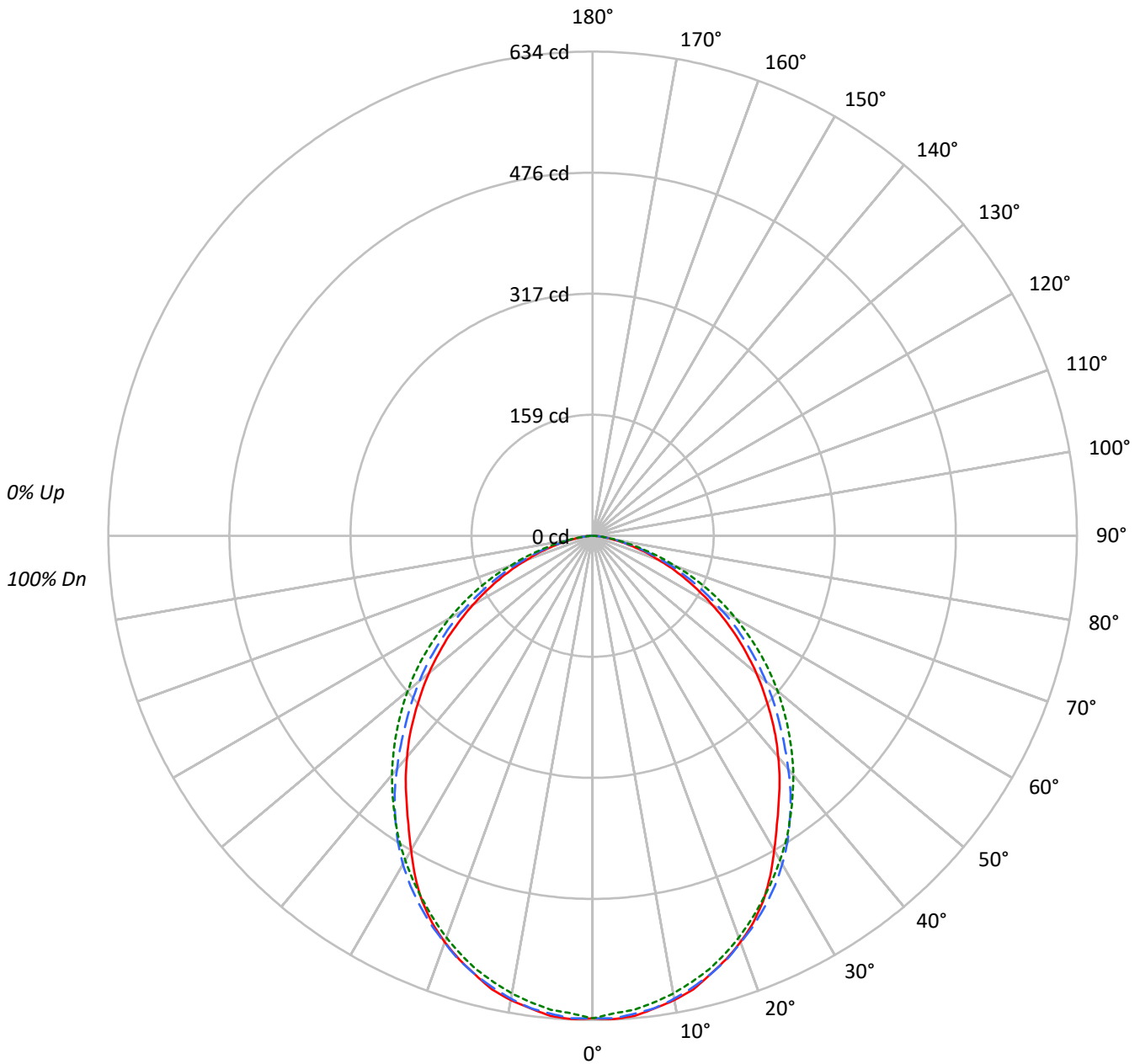
Lumens per Lamp: N/A
Luminaire Lumens: 1461.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	3400	3400	3400
5°	3410	3395	3366
10°	3374	3364	3325
15°	3314	3314	3276
20°	3243	3247	3206
25°	3137	3175	3125
30°	2954	3086	3049
35°	2791	2959	2963
40°	2655	2798	2872
45°	2503	2629	2764
50°	2344	2478	2646
55°	2162	2305	2503
60°	1946	2103	2328
65°	1719	1871	2118
70°	1432	1592	1799
75°	1125	1273	1408
80°	806	896	992
85°	525	525	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	4.1
10°-20°	167.1	11.4
20°-30°	244.2	16.7
30°-40°	277.2	19.0
40°-50°	267.6	18.3
50°-60°	220.8	15.1
60°-70°	147.0	10.1
70°-80°	65.8	4.5
80°-90°	11.8	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°	470.8	32.2
0°-40°	748.1	51.2
0°-60°	1236.4	84.6
0°-90°	1461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	631	631	628	625	623	60
15°	595	596	595	592	588	168
25°	528	532	535	531	526	242
35°	425	431	450	453	451	266
45°	329	334	345	361	363	254
55°	230	234	246	259	267	206
65°	135	139	147	157	166	134
75°	54	57	61	64	68	59
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°	631.8	631.8	631.8	631.8	631.8
2.5°	633.5	633.8	632.3	628.4	626.0
5°	631.1	630.9	628.4	625.0	623.1
7.5°	624.1	624.6	623.8	619.0	616.3
10°	617.3	617.5	615.6	611.7	608.5
12.5°	608.5	608.3	605.6	603.7	598.6
15°	594.7	596.2	594.7	592.0	587.9
17.5°	581.4	581.4	582.3	577.7	574.6
20°	566.3	567.0	567.0	563.4	559.8
22.5°	548.8	551.0	551.7	547.9	543.5
25°	528.2	532.3	534.7	530.9	526.3
27.5°	503.2	509.5	516.8	513.9	508.8
30°	475.3	484.5	496.6	494.2	490.6
32.5°	448.8	458.0	474.8	473.8	471.9
35°	424.8	430.6	450.3	452.7	451.0
37.5°	402.0	407.3	425.8	431.3	429.9
40°	377.9	383.8	398.3	408.3	408.8
42.5°	354.2	359.7	371.6	386.0	386.0
45°	328.9	334.5	345.4	361.2	363.1
47.5°	304.1	310.0	320.7	336.4	339.6
50°	279.9	285.2	295.9	311.2	316.0
52.5°	254.6	260.5	270.9	285.0	292.0
55°	230.4	234.2	245.6	259.2	266.8
57.5°	205.1	208.8	221.6	233.3	241.0
60°	180.8	185.5	195.4	207.3	216.3
62.5°	157.5	162.4	170.9	181.3	191.5
65°	135.0	138.6	146.9	157.3	166.3
67.5°	113.1	116.3	124.5	131.8	141.3
70°	91.0	95.2	101.2	108.3	114.3
72.5°	73.3	75.0	80.1	85.2	91.5
75°	54.1	57.0	61.2	64.1	67.7
77.5°	38.8	40.5	43.0	45.4	48.8
80°	26.0	26.7	28.9	29.4	32.0
82.5°	15.8	16.3	16.7	17.0	18.0
85°	8.5	8.5	8.5	8.0	8.0
87.5°	4.9	4.9	4.1	3.4	2.4
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)