

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: P554995

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-80-85-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: P554995
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-LD4-2LO-40-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

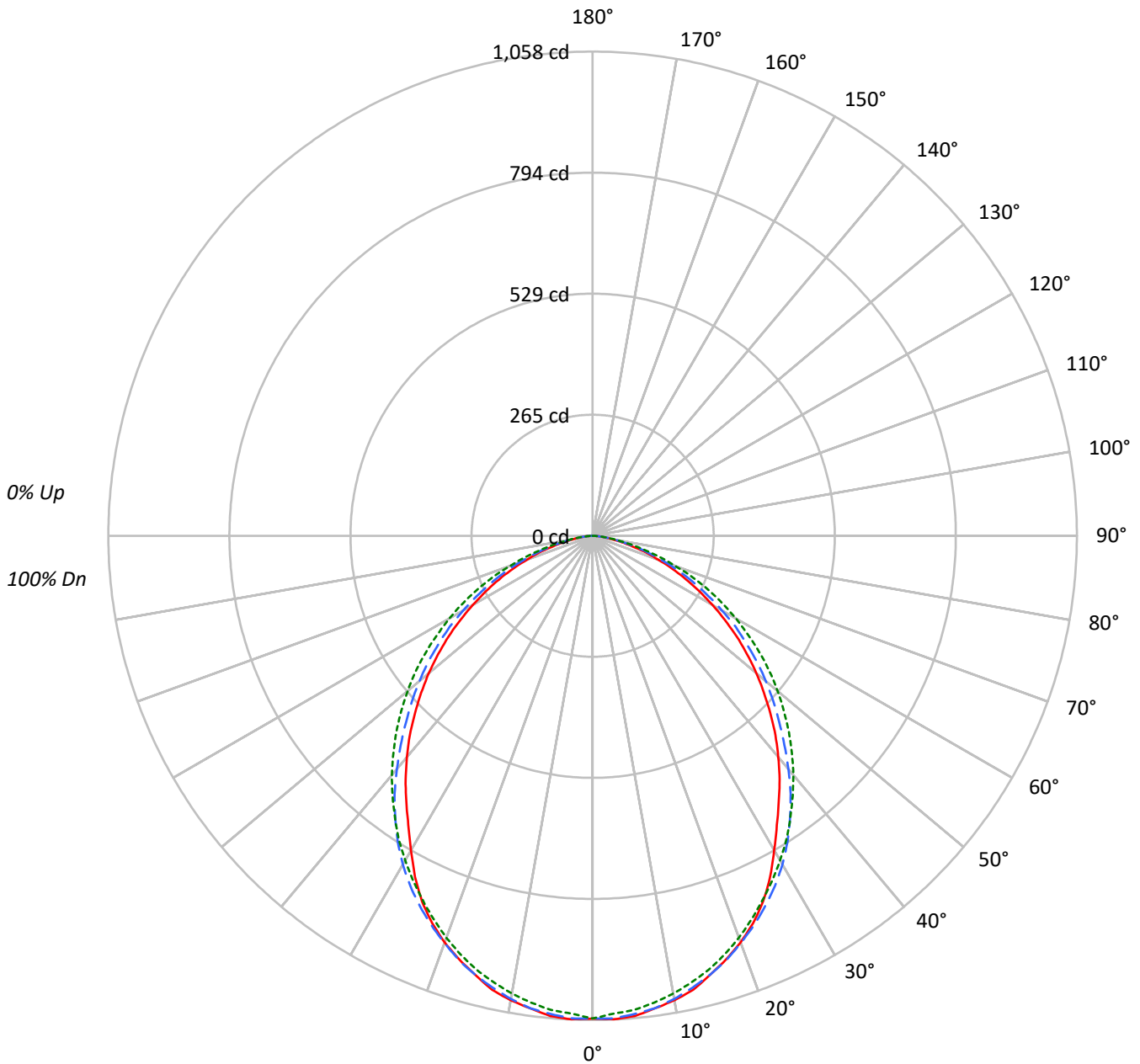
Lumens per Lamp: N/A
Luminaire Lumens: 2439.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5677	5677	5677
5°	5692	5668	5620
10°	5632	5616	5552
15°	5532	5532	5469
20°	5415	5422	5352
25°	5236	5301	5217
30°	4931	5152	5090
35°	4659	4939	4947
40°	4432	4672	4794
45°	4179	4389	4614
50°	3912	4136	4418
55°	3609	3848	4178
60°	3250	3511	3887
65°	2869	3123	3535
70°	2392	2659	3004
75°	1880	2123	2352
80°	1345	1494	1658
85°	877	877	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	4.1
10°-20°	279.0	11.4
20°-30°	407.7	16.7
30°-40°	462.8	19.0
40°-50°	446.7	18.3
50°-60°	368.5	15.1
60°-70°	245.4	10.1
70°-80°	109.8	4.5
80°-90°	19.7	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°	786.0	32.2
0°-40°	1248.8	51.2
0°-60°	2064.1	84.6
0°-90°	2439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1054	1053	1049	1044	1040	100
15°	993	995	993	988	982	280
25°	882	889	893	886	878	404
35°	709	719	752	756	753	444
45°	549	558	577	603	606	424
55°	385	391	410	433	445	343
65°	225	231	245	263	278	223
75°	90	95	102	107	113	99
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.8	1054.8	1054.8	1054.8	1054.8
2.5°	1057.6	1058.0	1055.6	1049.1	1045.1
5°	1053.6	1053.2	1049.1	1043.5	1040.2
7.5°	1041.8	1042.6	1041.4	1033.3	1028.9
10°	1030.5	1030.9	1027.7	1021.2	1015.9
12.5°	1015.9	1015.5	1011.0	1007.8	999.3
15°	992.8	995.2	992.8	988.3	981.5
17.5°	970.5	970.5	972.1	964.4	959.2
20°	945.4	946.6	946.6	940.5	934.5
22.5°	916.2	919.9	921.1	914.6	907.3
25°	881.8	888.7	892.7	886.2	878.5
27.5°	840.0	850.6	862.7	857.9	849.4
30°	793.4	808.8	829.1	825.0	819.0
32.5°	749.3	764.7	792.6	791.0	787.8
35°	709.1	718.9	751.7	755.7	752.9
37.5°	671.1	680.0	710.8	720.1	717.7
40°	630.9	640.7	665.0	681.6	682.4
42.5°	591.2	600.5	620.4	644.3	644.3
45°	549.1	558.4	576.6	603.0	606.2
47.5°	507.7	517.5	535.3	561.6	566.9
50°	467.2	476.1	494.0	519.5	527.6
52.5°	425.1	434.8	452.2	475.7	487.5
55°	384.6	391.0	410.1	432.8	445.3
57.5°	342.4	348.5	370.0	389.4	402.4
60°	301.9	309.6	326.2	346.1	361.1
62.5°	263.0	271.1	285.3	302.7	319.7
65°	225.3	231.4	245.2	262.6	277.6
67.5°	188.8	194.1	207.9	220.0	235.8
70°	152.0	158.8	169.0	180.7	190.9
72.5°	122.4	125.2	133.7	142.2	152.8
75°	90.4	95.2	102.1	107.0	113.1
77.5°	64.8	67.7	71.7	75.8	81.5
80°	43.4	44.6	48.2	49.0	53.5
82.5°	26.3	27.2	28.0	28.4	30.0
85°	14.2	14.2	14.2	13.4	13.4
87.5°	8.1	8.1	6.9	5.7	4.1
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)