

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: P555672

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-88-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: P555672
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-LD4-3LO-30-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

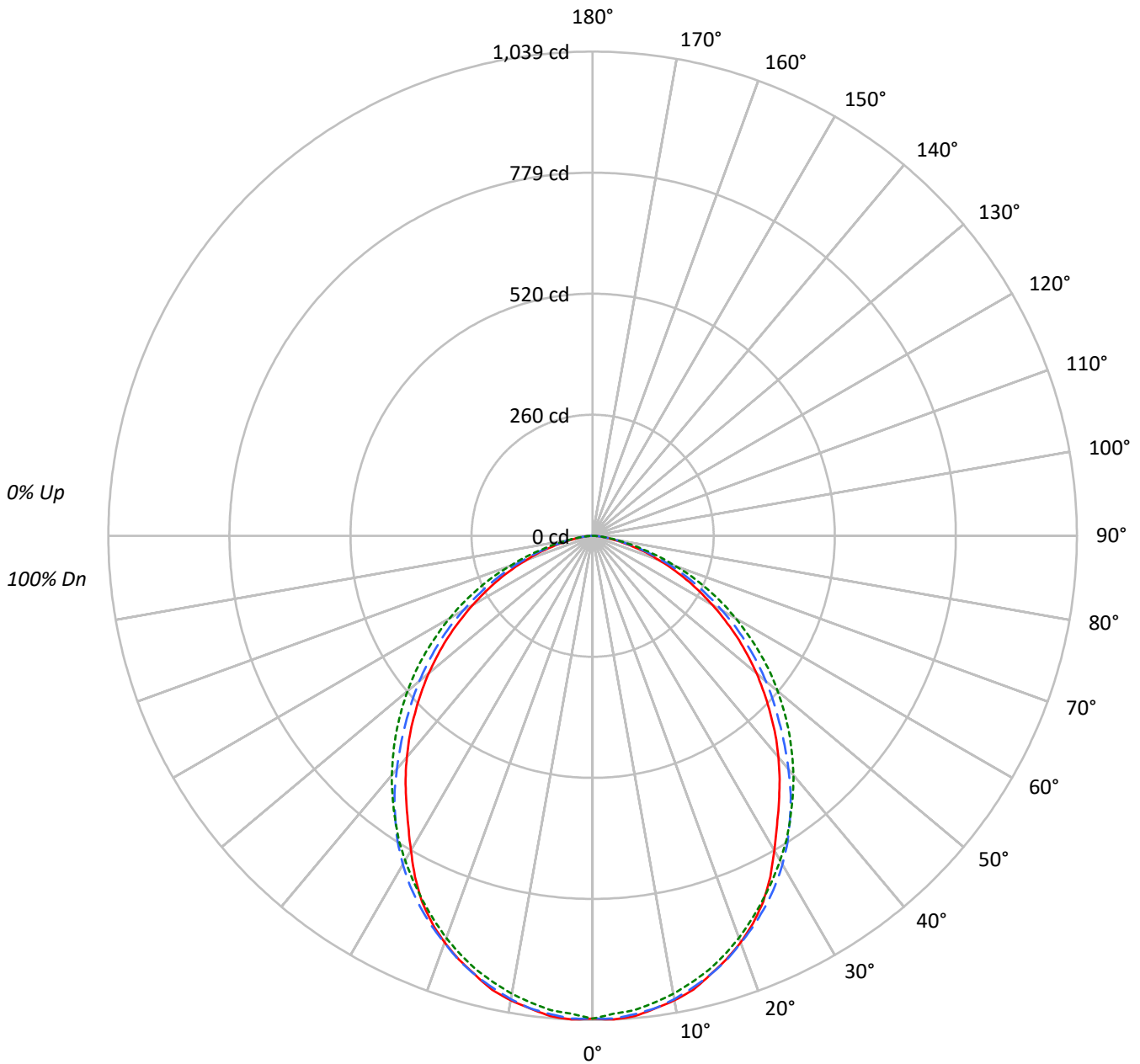
Lumens per Lamp: N/A
Luminaire Lumens: 2396.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: P555672

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-82-88-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°	5577	5577	5577
5°	5592	5568	5521
10°	5532	5517	5454
15°	5434	5434	5372
20°	5319	5326	5258
25°	5144	5208	5125
30°	4844	5062	5000
35°	4577	4851	4859
40°	4354	4590	4710
45°	4106	4312	4532
50°	3843	4063	4340
55°	3545	3780	4105
60°	3193	3450	3818
65°	2818	3067	3473
70°	2349	2612	2950
75°	1847	2086	2310
80°	1320	1469	1627
85°	858	858	809



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	4.1
10°-20°	274.1	11.4
20°-30°	400.5	16.7
30°-40°	454.6	19.0
40°-50°	438.9	18.3
50°-60°	362.0	15.1
60°-70°	241.1	10.1
70°-80°	107.9	4.5
80°-90°	19.3	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°	772.2	32.2
0°-40°	1226.8	51.2
0°-60°	2027.7	84.6
0°-90°	2396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1035	1035	1031	1025	1022	98
15°	975	978	975	971	964	275
25°	866	873	877	871	863	397
35°	697	706	738	742	740	436
45°	539	549	566	592	596	416
55°	378	384	403	425	438	337
65°	221	227	241	258	273	219
75°	89	94	100	105	111	97
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°	1036.2	1036.2	1036.2	1036.2	1036.2
2.5°	1039.0	1039.4	1037.0	1030.6	1026.7
5°	1035.0	1034.6	1030.6	1025.1	1021.9
7.5°	1023.5	1024.3	1023.1	1015.1	1010.7
10°	1012.3	1012.7	1009.5	1003.2	998.0
12.5°	998.0	997.6	993.2	990.0	981.7
15°	975.3	977.7	975.3	970.9	964.2
17.5°	953.4	953.4	955.0	947.4	942.3
20°	928.7	929.9	929.9	923.9	918.0
22.5°	900.1	903.6	904.8	898.5	891.3
25°	866.2	873.0	877.0	870.6	863.0
27.5°	825.2	835.6	847.5	842.7	834.4
30°	779.4	794.6	814.5	810.5	804.5
32.5°	736.1	751.2	778.6	777.1	773.9
35°	696.6	706.2	738.4	742.4	739.6
37.5°	659.2	668.0	698.2	707.4	705.0
40°	619.8	629.4	653.3	669.6	670.4
42.5°	580.8	590.0	609.5	633.0	633.0
45°	539.4	548.6	566.5	592.3	595.5
47.5°	498.8	508.4	525.9	551.7	556.9
50°	459.0	467.7	485.3	510.3	518.3
52.5°	417.6	427.1	444.3	467.3	478.9
55°	377.8	384.1	402.9	425.2	437.5
57.5°	336.4	342.4	363.4	382.6	395.3
60°	296.6	304.1	320.5	340.0	354.7
62.5°	258.4	266.3	280.2	297.4	314.1
65°	221.3	227.3	240.8	258.0	272.7
67.5°	185.5	190.7	204.2	216.2	231.7
70°	149.3	156.0	166.0	177.5	187.5
72.5°	120.2	123.0	131.4	139.7	150.1
75°	88.8	93.5	100.3	105.1	111.1
77.5°	63.7	66.5	70.5	74.4	80.0
80°	42.6	43.8	47.4	48.2	52.5
82.5°	25.9	26.7	27.5	27.9	29.5
85°	13.9	13.9	13.9	13.1	13.1
87.5°	8.0	8.0	6.8	5.6	4.0
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)