

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: P553939

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-82-85-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: P553939
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-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

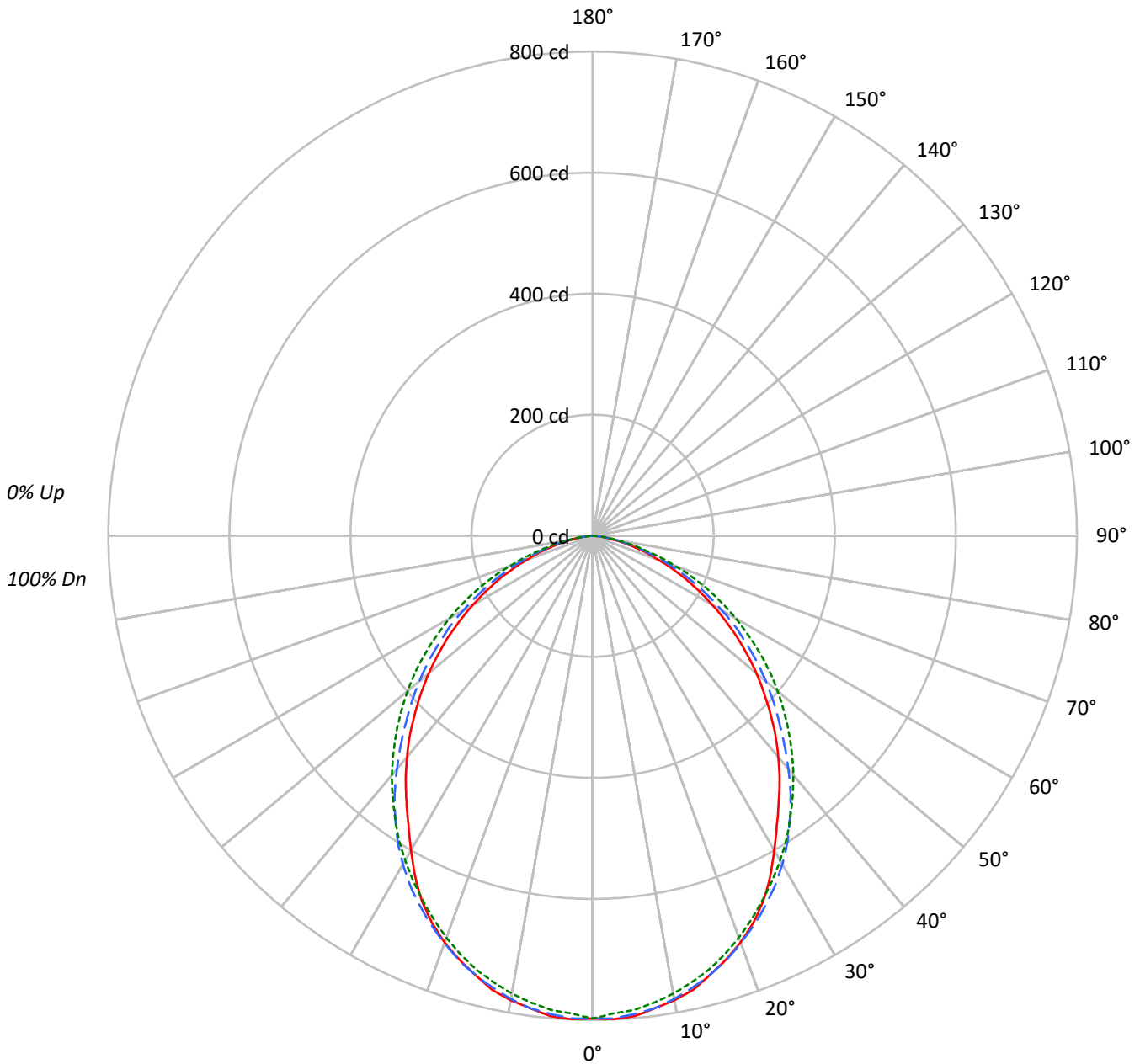
Lumens per Lamp: N/A
Luminaire Lumens: 1844.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4292	4292	4292
5°	4304	4285	4249
10°	4258	4246	4198
15°	4182	4182	4134
20°	4094	4099	4046
25°	3959	4008	3944
30°	3728	3895	3848
35°	3522	3734	3740
40°	3351	3532	3625
45°	3159	3318	3488
50°	2957	3127	3340
55°	2728	2909	3159
60°	2456	2654	2939
65°	2169	2361	2673
70°	1808	2011	2271
75°	1420	1605	1778
80°	1017	1131	1252
85°	661	661	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	4.1
10°-20°	210.9	11.4
20°-30°	308.3	16.7
30°-40°	349.9	19.0
40°-50°	337.8	18.3
50°-60°	278.6	15.1
60°-70°	185.6	10.1
70°-80°	83.0	4.5
80°-90°	14.8	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°	594.3	32.2
0°-40°	944.2	51.2
0°-60°	1560.6	84.6
0°-90°	1844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	797	796	793	789	786	75
15°	751	752	751	747	742	212
25°	667	672	675	670	664	305
35°	536	544	568	571	569	336
45°	415	422	436	456	458	320
55°	291	296	310	327	337	259
65°	170	175	185	198	210	169
75°	68	72	77	81	86	75
85°	11	11	11	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	797.5	797.5	797.5	797.5	797.5
2.5°	799.6	799.9	798.1	793.2	790.1
5°	796.6	796.3	793.2	788.9	786.5
7.5°	787.7	788.3	787.4	781.2	777.9
10°	779.1	779.4	777.0	772.1	768.1
12.5°	768.1	767.8	764.4	761.9	755.5
15°	750.6	752.4	750.6	747.2	742.0
17.5°	733.8	733.8	735.0	729.2	725.2
20°	714.8	715.7	715.7	711.1	706.5
22.5°	692.7	695.5	696.4	691.5	686.0
25°	666.7	671.9	674.9	670.0	664.2
27.5°	635.1	643.1	652.3	648.6	642.2
30°	599.9	611.5	626.8	623.8	619.2
32.5°	566.5	578.1	599.3	598.0	595.6
35°	536.1	543.5	568.3	571.4	569.2
37.5°	507.3	514.1	537.4	544.4	542.6
40°	477.0	484.4	502.8	515.3	515.9
42.5°	447.0	454.0	469.1	487.1	487.1
45°	415.1	422.2	436.0	455.9	458.3
47.5°	383.9	391.2	404.7	424.6	428.6
50°	353.2	360.0	373.5	392.8	398.9
52.5°	321.4	328.7	341.9	359.7	368.6
55°	290.7	295.6	310.0	327.2	336.7
57.5°	258.9	263.5	279.7	294.4	304.2
60°	228.2	234.1	246.6	261.6	273.0
62.5°	198.8	205.0	215.7	228.9	241.7
65°	170.3	174.9	185.4	198.5	209.9
67.5°	142.8	146.8	157.2	166.4	178.3
70°	114.9	120.1	127.8	136.6	144.3
72.5°	92.5	94.7	101.1	107.5	115.5
75°	68.3	72.0	77.2	80.9	85.5
77.5°	49.0	51.2	54.2	57.3	61.6
80°	32.8	33.7	36.5	37.1	40.4
82.5°	19.9	20.5	21.1	21.4	22.7
85°	10.7	10.7	10.7	10.1	10.1
87.5°	6.1	6.1	5.2	4.3	3.1
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)