

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: P553985

Luminaire Tested: **FUSL-12-2-LD4-1HI-40-UNV-81-84-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: P553985
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-40-UNV-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

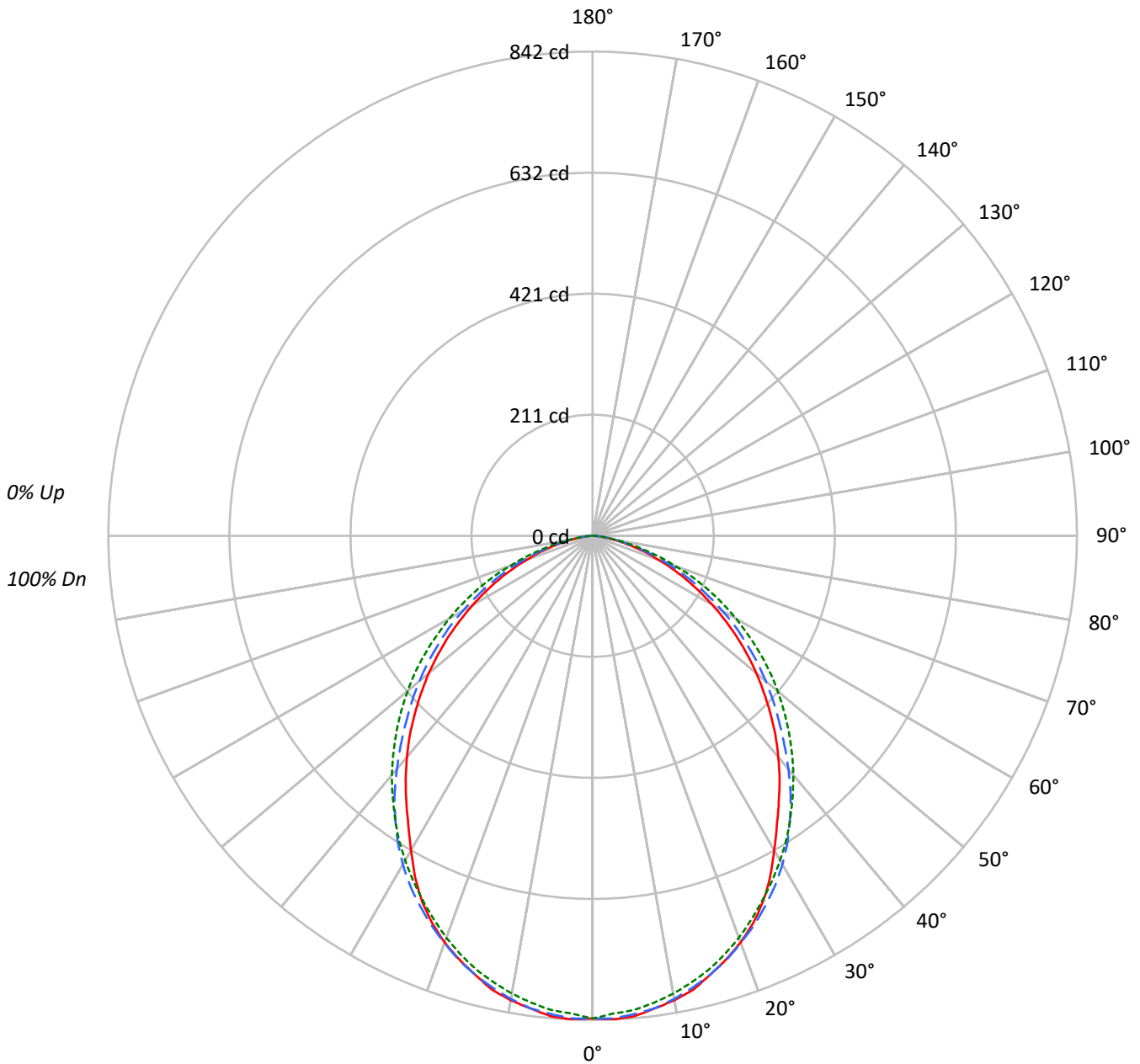
Lumens per Lamp: N/A
Luminaire Lumens: 1941.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4518	4518	4518
5°	4530	4511	4472
10°	4482	4469	4418
15°	4402	4402	4352
20°	4309	4314	4259
25°	4167	4219	4152
30°	3924	4100	4050
35°	3708	3930	3937
40°	3528	3718	3816
45°	3326	3493	3672
50°	3113	3291	3516
55°	2871	3063	3325
60°	2587	2794	3092
65°	2283	2485	2813
70°	1902	2116	2390
75°	1495	1691	1871
80°	1069	1190	1320
85°	698	698	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	4.1
10°-20°	222.0	11.4
20°-30°	324.5	16.7
30°-40°	368.3	19.0
40°-50°	355.5	18.3
50°-60°	293.3	15.1
60°-70°	195.3	10.1
70°-80°	87.4	4.5
80°-90°	15.6	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°	625.5	32.2
0°-40°	993.8	51.2
0°-60°	1642.7	84.6
0°-90°	1941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	838	838	835	830	828	79
15°	790	792	790	786	781	223
25°	702	707	710	705	699	321
35°	564	572	598	601	599	354
45°	437	444	459	480	482	337
55°	306	311	326	344	354	273
65°	179	184	195	209	221	178
75°	72	76	81	85	90	79
85°	11	11	11	11	11	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	839.4	839.4	839.4	839.4	839.4
2.5°	841.7	842.0	840.1	834.9	831.7
5°	838.5	838.1	834.9	830.4	827.8
7.5°	829.1	829.8	828.8	822.3	818.8
10°	820.1	820.4	817.8	812.7	808.5
12.5°	808.5	808.2	804.6	802.0	795.3
15°	790.1	792.0	790.1	786.5	781.1
17.5°	772.4	772.4	773.6	767.5	763.3
20°	752.4	753.3	753.3	748.5	743.7
22.5°	729.1	732.0	733.0	727.9	722.0
25°	701.7	707.2	710.4	705.3	699.2
27.5°	668.5	676.9	686.6	682.7	675.9
30°	631.4	643.7	659.8	656.6	651.7
32.5°	596.3	608.5	630.8	629.5	626.9
35°	564.4	572.1	598.2	601.4	599.2
37.5°	534.0	541.1	565.6	573.1	571.1
40°	502.1	509.9	529.2	542.4	543.1
42.5°	470.5	477.9	493.7	512.8	512.8
45°	437.0	444.4	458.9	479.9	482.4
47.5°	404.1	411.8	426.0	447.0	451.2
50°	371.8	378.9	393.1	413.4	419.9
52.5°	338.3	346.0	359.9	378.6	388.0
55°	306.0	311.2	326.4	344.4	354.4
57.5°	272.5	277.3	294.4	309.9	320.2
60°	240.3	246.4	259.6	275.4	287.3
62.5°	209.3	215.7	227.0	240.9	254.4
65°	179.3	184.1	195.1	209.0	220.9
67.5°	150.3	154.5	165.4	175.1	187.7
70°	120.9	126.4	134.5	143.8	151.9
72.5°	97.4	99.6	106.4	113.2	121.6
75°	71.9	75.8	81.3	85.1	90.0
77.5°	51.6	53.9	57.1	60.3	64.8
80°	34.5	35.5	38.4	39.0	42.6
82.5°	21.0	21.6	22.3	22.6	23.9
85°	11.3	11.3	11.3	10.6	10.6
87.5°	6.4	6.4	5.5	4.5	3.2
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)