

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: P553876

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-82-86-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: P553876
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-30-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

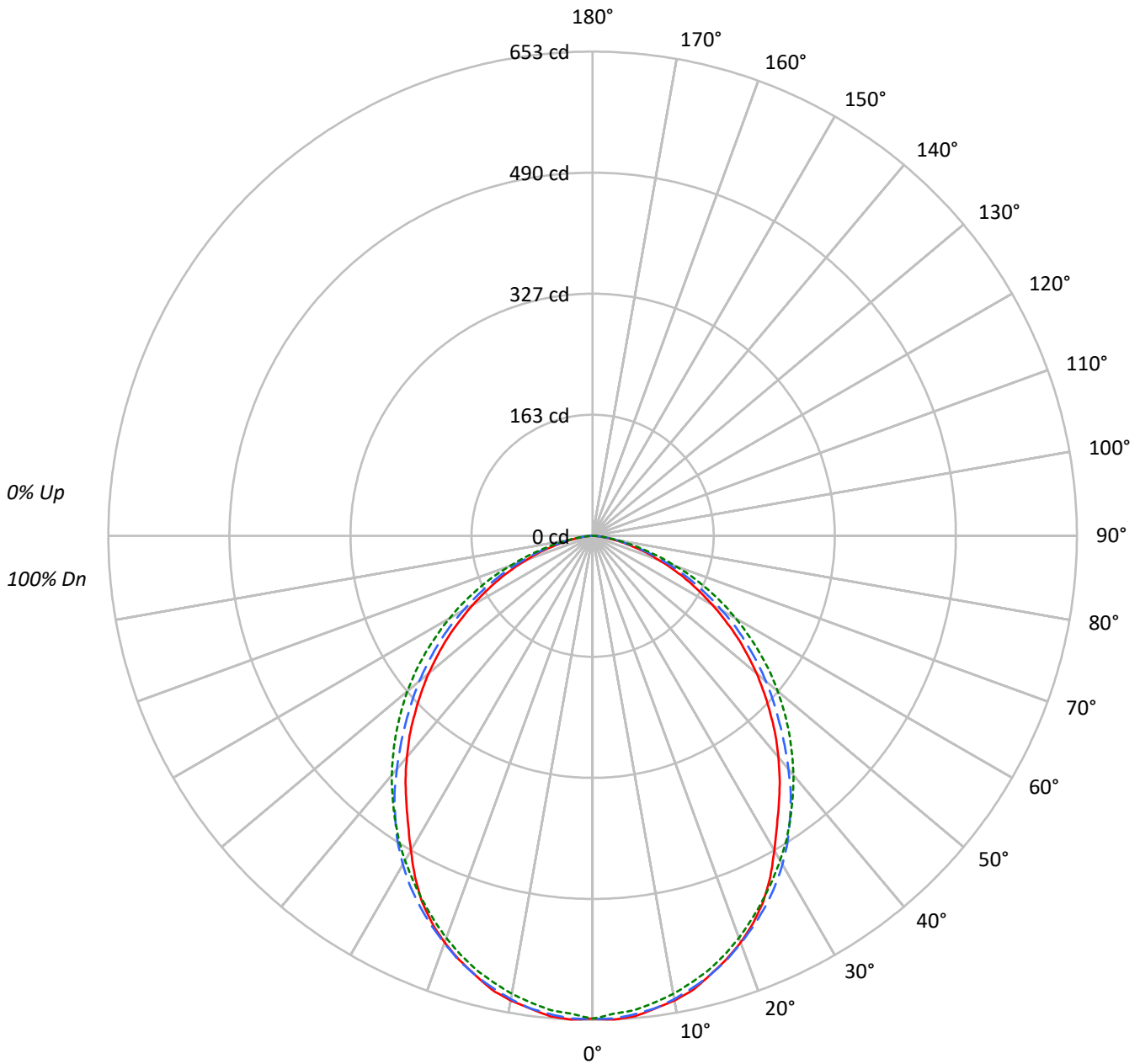
Lumens per Lamp: N/A
Luminaire Lumens: 1506.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3505	3505	3505
5°	3515	3500	3470
10°	3477	3468	3428
15°	3416	3416	3377
20°	3343	3348	3305
25°	3233	3273	3222
30°	3045	3181	3143
35°	2877	3049	3054
40°	2737	2885	2961
45°	2580	2710	2849
50°	2416	2554	2728
55°	2228	2376	2580
60°	2006	2168	2399
65°	1771	1928	2183
70°	1476	1641	1855
75°	1160	1312	1451
80°	831	924	1023
85°	543	543	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	4.1
10°-20°	172.3	11.4
20°-30°	251.7	16.7
30°-40°	285.8	19.0
40°-50°	275.9	18.3
50°-60°	227.6	15.1
60°-70°	151.5	10.1
70°-80°	67.8	4.5
80°-90°	12.2	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°	485.3	32.2
0°-40°	771.1	51.2
0°-60°	1274.5	84.6
0°-90°	1506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	651	650	648	644	642	62
15°	613	614	613	610	606	173
25°	544	549	551	547	542	249
35°	438	444	464	467	465	274
45°	339	345	356	372	374	262
55°	238	242	253	267	275	212
65°	139	143	151	162	171	138
75°	56	59	63	66	70	61
85°	9	9	9	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	651.3	651.3	651.3	651.3	651.3
2.5°	653.1	653.3	651.8	647.8	645.3
5°	650.6	650.3	647.8	644.3	642.3
7.5°	643.3	643.8	643.0	638.0	635.3
10°	636.3	636.5	634.5	630.5	627.3
12.5°	627.3	627.0	624.3	622.3	617.0
15°	613.0	614.5	613.0	610.3	606.0
17.5°	599.3	599.3	600.3	595.5	592.3
20°	583.7	584.5	584.5	580.7	577.0
22.5°	565.7	568.0	568.7	564.7	560.2
25°	544.5	548.7	551.2	547.2	542.5
27.5°	518.7	525.2	532.7	529.7	524.4
30°	489.9	499.4	511.9	509.4	505.7
32.5°	462.6	472.2	489.4	488.4	486.4
35°	437.9	443.9	464.1	466.6	464.9
37.5°	414.4	419.9	438.9	444.6	443.1
40°	389.6	395.6	410.6	420.9	421.4
42.5°	365.1	370.8	383.1	397.8	397.8
45°	339.0	344.8	356.1	372.3	374.3
47.5°	313.5	319.5	330.5	346.8	350.0
50°	288.5	294.0	305.0	320.8	325.8
52.5°	262.5	268.5	279.2	293.8	301.0
55°	237.5	241.5	253.2	267.2	275.0
57.5°	211.4	215.2	228.4	240.5	248.5
60°	186.4	191.2	201.4	213.7	222.9
62.5°	162.4	167.4	176.2	186.9	197.4
65°	139.1	142.9	151.4	162.1	171.4
67.5°	116.6	119.9	128.4	135.9	145.6
70°	93.8	98.1	104.3	111.6	117.9
72.5°	75.6	77.3	82.6	87.8	94.3
75°	55.8	58.8	63.1	66.1	69.8
77.5°	40.0	41.8	44.3	46.8	50.3
80°	26.8	27.5	29.8	30.3	33.0
82.5°	16.3	16.8	17.3	17.5	18.5
85°	8.8	8.8	8.8	8.3	8.3
87.5°	5.0	5.0	4.3	3.5	2.5
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)