

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: P553926

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-81-87-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: P553926
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-81-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

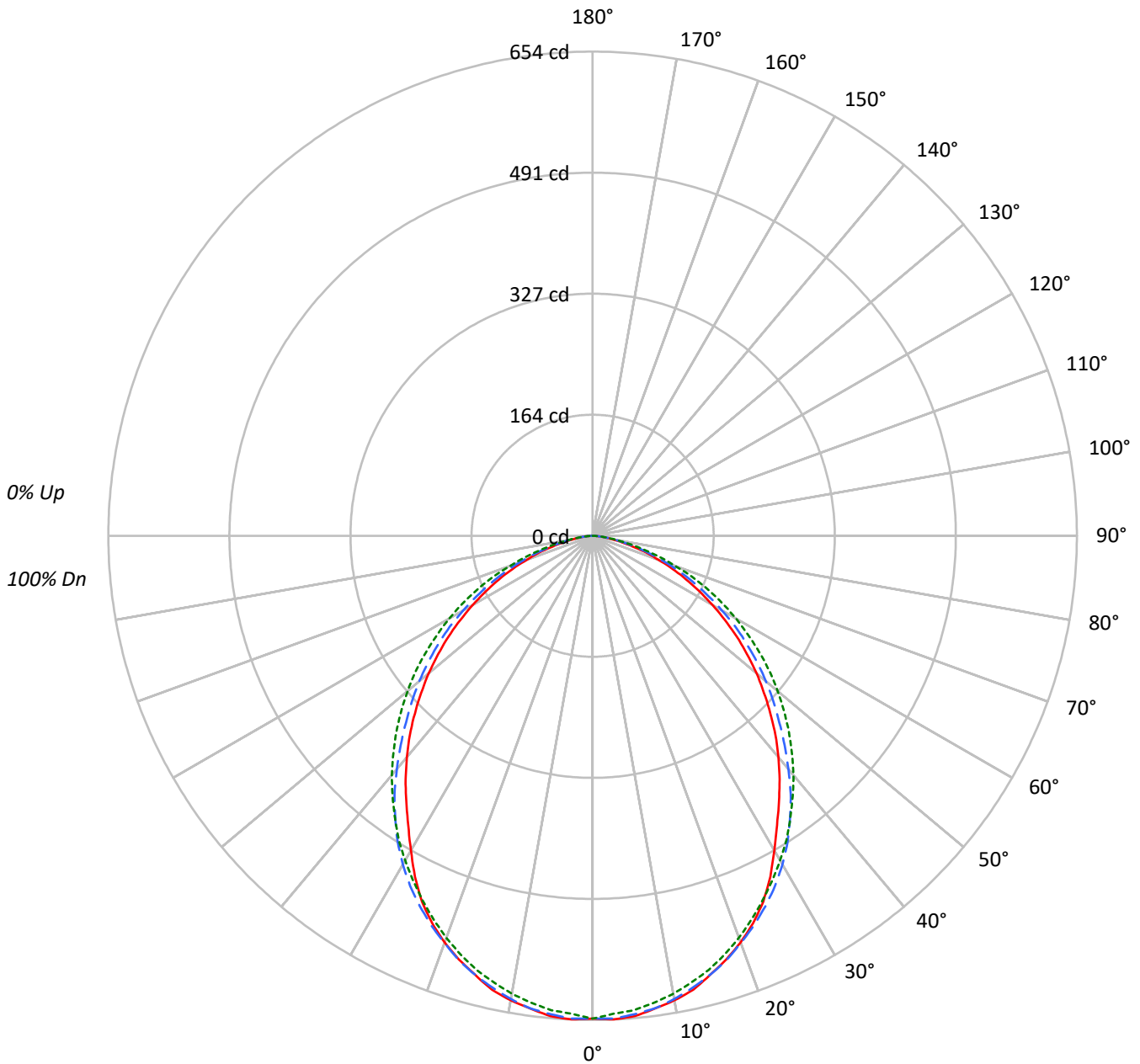
Lumens per Lamp: N/A
Luminaire Lumens: 1508.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3510	3510	3510
5°	3519	3505	3475
10°	3482	3472	3433
15°	3420	3420	3381
20°	3348	3352	3309
25°	3238	3278	3226
30°	3049	3186	3147
35°	2881	3054	3058
40°	2741	2888	2964
45°	2584	2713	2853
50°	2419	2557	2731
55°	2231	2380	2583
60°	2010	2171	2403
65°	1774	1931	2185
70°	1479	1644	1857
75°	1162	1312	1454
80°	831	924	1026
85°	543	543	513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	4.1
10°-20°	172.5	11.4
20°-30°	252.1	16.7
30°-40°	286.1	19.0
40°-50°	276.2	18.3
50°-60°	227.9	15.1
60°-70°	151.7	10.1
70°-80°	67.9	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°	486.0	32.2
0°-40°	772.1	51.2
0°-60°	1276.2	84.6
0°-90°	1508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	651	651	649	645	643	62
15°	614	615	614	611	607	173
25°	545	549	552	548	543	250
35°	438	444	465	467	466	275
45°	340	345	356	373	375	262
55°	238	242	254	268	275	212
65°	139	143	152	162	172	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°	652.2	652.2	652.2	652.2	652.2
2.5°	653.9	654.2	652.7	648.7	646.2
5°	651.4	651.2	648.7	645.2	643.2
7.5°	644.2	644.7	643.9	638.9	636.1
10°	637.1	637.4	635.4	631.4	628.1
12.5°	628.1	627.9	625.1	623.1	617.8
15°	613.8	615.3	613.8	611.1	606.8
17.5°	600.1	600.1	601.1	596.3	593.0
20°	584.5	585.3	585.3	581.5	577.8
22.5°	566.5	568.7	569.5	565.5	561.0
25°	545.2	549.4	552.0	547.9	543.2
27.5°	519.4	525.9	533.4	530.4	525.1
30°	490.6	500.1	512.6	510.1	506.4
32.5°	463.3	472.8	490.1	489.1	487.1
35°	438.5	444.5	464.8	467.3	465.5
37.5°	414.9	420.4	439.5	445.2	443.7
40°	390.1	396.1	411.1	421.4	421.9
42.5°	365.5	371.3	383.6	398.4	398.4
45°	339.5	345.3	356.5	372.8	374.8
47.5°	313.9	319.9	331.0	347.3	350.5
50°	288.9	294.4	305.4	321.2	326.2
52.5°	262.8	268.8	279.6	294.1	301.4
55°	237.8	241.8	253.6	267.6	275.3
57.5°	211.7	215.5	228.7	240.8	248.8
60°	186.7	191.4	201.7	214.0	223.2
62.5°	162.6	167.6	176.4	187.2	197.7
65°	139.3	143.1	151.6	162.4	171.6
67.5°	116.8	120.0	128.5	136.0	145.8
70°	94.0	98.2	104.5	111.7	118.0
72.5°	75.7	77.4	82.7	87.9	94.5
75°	55.9	58.9	63.1	66.1	69.9
77.5°	40.1	41.8	44.3	46.9	50.4
80°	26.8	27.6	29.8	30.3	33.1
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)