

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: P553942

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-82-87-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: P553942
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-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 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

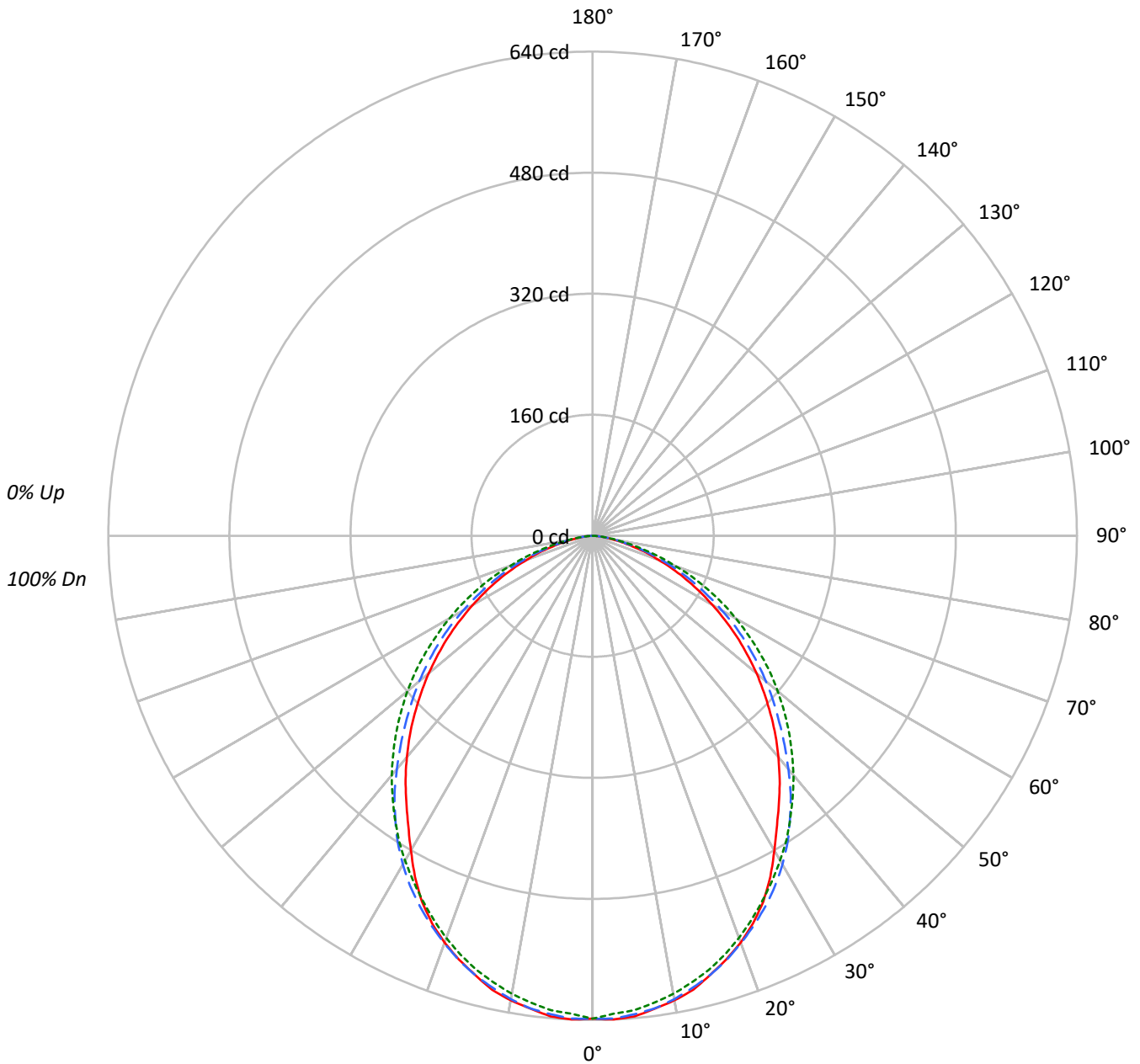
Lumens per Lamp: N/A
Luminaire Lumens: 1476.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3435	3435	3435
5°	3445	3430	3401
10°	3408	3399	3360
15°	3348	3348	3309
20°	3277	3281	3239
25°	3169	3208	3157
30°	2984	3118	3080
35°	2820	2989	2993
40°	2682	2827	2902
45°	2529	2656	2793
50°	2367	2503	2673
55°	2183	2329	2529
60°	1967	2125	2352
65°	1736	1890	2139
70°	1448	1610	1817
75°	1137	1285	1422
80°	812	905	1004
85°	531	531	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	4.1
10°-20°	168.8	11.4
20°-30°	246.7	16.7
30°-40°	280.1	19.0
40°-50°	270.4	18.3
50°-60°	223.0	15.1
60°-70°	148.5	10.1
70°-80°	66.5	4.5
80°-90°	11.9	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°	475.7	32.2
0°-40°	755.7	51.2
0°-60°	1249.1	84.6
0°-90°	1476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	638	637	635	632	630	60
15°	601	602	601	598	594	169
25°	534	538	540	536	532	244
35°	429	435	455	457	456	269
45°	332	338	349	365	367	256
55°	233	237	248	262	270	208
65°	136	140	148	159	168	135
75°	55	58	62	65	68	60
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°	638.3	638.3	638.3	638.3	638.3
2.5°	640.0	640.3	638.8	634.9	632.4
5°	637.6	637.4	634.9	631.5	629.5
7.5°	630.5	631.0	630.2	625.3	622.6
10°	623.6	623.9	621.9	618.0	614.8
12.5°	614.8	614.5	611.8	609.9	604.7
15°	600.8	602.3	600.8	598.1	593.9
17.5°	587.3	587.3	588.3	583.6	580.5
20°	572.1	572.9	572.9	569.2	565.5
22.5°	554.5	556.7	557.4	553.5	549.1
25°	533.6	537.8	540.2	536.3	531.7
27.5°	508.4	514.7	522.1	519.2	514.0
30°	480.2	489.5	501.7	499.3	495.6
32.5°	453.4	462.7	479.7	478.7	476.7
35°	429.2	435.0	454.9	457.4	455.6
37.5°	406.1	411.5	430.1	435.8	434.3
40°	381.8	387.7	402.4	412.5	413.0
42.5°	357.8	363.4	375.4	389.9	389.9
45°	332.3	337.9	349.0	364.9	366.9
47.5°	307.3	313.2	323.9	339.9	343.1
50°	282.7	288.1	298.9	314.4	319.3
52.5°	257.2	263.1	273.7	287.9	295.0
55°	232.7	236.6	248.2	261.9	269.5
57.5°	207.2	210.9	223.9	235.7	243.5
60°	182.7	187.4	197.4	209.4	218.5
62.5°	159.2	164.1	172.6	183.2	193.5
65°	136.3	140.0	148.4	158.9	168.0
67.5°	114.3	117.5	125.8	133.2	142.7
70°	92.0	96.1	102.3	109.4	115.5
72.5°	74.1	75.8	80.9	86.1	92.5
75°	54.7	57.6	61.8	64.7	68.4
77.5°	39.2	41.0	43.4	45.9	49.3
80°	26.2	27.0	29.2	29.7	32.4
82.5°	15.9	16.4	16.9	17.2	18.1
85°	8.6	8.6	8.6	8.1	8.1
87.5°	4.9	4.9	4.2	3.4	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)