

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: P553930

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-81-94-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: P553930
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-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

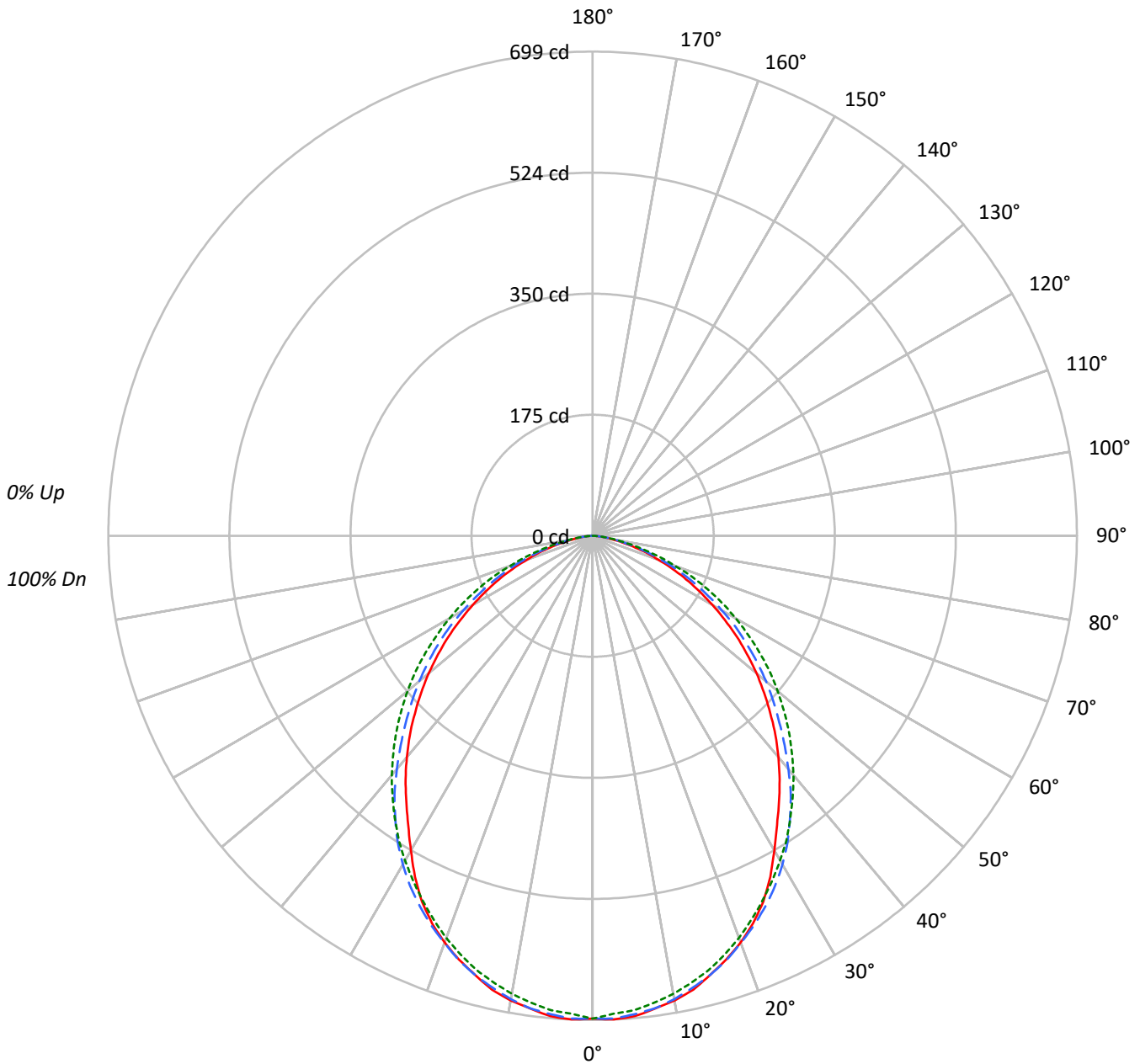
Lumens per Lamp: N/A
Luminaire Lumens: 1612.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	3752	3752	3752
5°	3762	3746	3714
10°	3722	3712	3669
15°	3656	3656	3614
20°	3578	3583	3537
25°	3461	3504	3448
30°	3259	3406	3364
35°	3079	3264	3269
40°	2930	3088	3169
45°	2762	2901	3050
50°	2586	2734	2920
55°	2385	2543	2761
60°	2147	2321	2568
65°	1896	2063	2337
70°	1580	1758	1984
75°	1241	1404	1553
80°	890	989	1097
85°	580	580	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	4.1
10°-20°	184.4	11.4
20°-30°	269.5	16.7
30°-40°	305.9	19.0
40°-50°	295.3	18.3
50°-60°	243.6	15.1
60°-70°	162.2	10.1
70°-80°	72.6	4.5
80°-90°	13.0	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°	519.5	32.2
0°-40°	825.4	51.2
0°-60°	1364.2	84.6
0°-90°	1612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	696	696	693	690	688	66
15°	656	658	656	653	649	185
25°	583	587	590	586	581	267
35°	469	475	497	500	498	294
45°	363	369	381	398	401	280
55°	254	258	271	286	294	227
65°	149	153	162	174	184	148
75°	60	63	68	71	75	65
85°	9	9	9	9	9	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.1	697.1	697.1	697.1	697.1
2.5°	699.0	699.3	697.7	693.4	690.7
5°	696.3	696.1	693.4	689.6	687.5
7.5°	688.6	689.1	688.3	683.0	680.0
10°	681.1	681.3	679.2	674.9	671.4
12.5°	671.4	671.2	668.2	666.1	660.5
15°	656.2	657.8	656.2	653.2	648.7
17.5°	641.4	641.4	642.5	637.4	633.9
20°	624.8	625.6	625.6	621.6	617.6
22.5°	605.6	608.0	608.8	604.5	599.7
25°	582.8	587.3	590.0	585.7	580.6
27.5°	555.2	562.2	570.2	567.0	561.4
30°	524.4	534.6	548.0	545.3	541.3
32.5°	495.2	505.4	523.9	522.8	520.7
35°	468.7	475.1	496.8	499.5	497.6
37.5°	443.5	449.4	469.8	475.9	474.3
40°	417.0	423.4	439.5	450.5	451.0
42.5°	390.8	396.9	410.0	425.8	425.8
45°	362.9	369.1	381.1	398.5	400.7
47.5°	335.6	342.0	353.8	371.2	374.7
50°	308.8	314.7	326.5	343.4	348.7
52.5°	280.9	287.4	298.9	314.4	322.2
55°	254.2	258.5	271.0	286.0	294.3
57.5°	226.3	230.3	244.5	257.4	266.0
60°	199.5	204.6	215.6	228.7	238.6
62.5°	173.8	179.2	188.5	200.1	211.3
65°	148.9	152.9	162.0	173.6	183.5
67.5°	124.8	128.3	137.4	145.4	155.9
70°	100.4	105.0	111.7	119.4	126.1
72.5°	80.9	82.8	88.4	94.0	101.0
75°	59.7	62.9	67.5	70.7	74.7
77.5°	42.9	44.7	47.4	50.1	53.8
80°	28.7	29.5	31.9	32.4	35.4
82.5°	17.4	17.9	18.5	18.7	19.8
85°	9.4	9.4	9.4	8.8	8.8
87.5°	5.4	5.4	4.6	3.7	2.7
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)