

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: P554468

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-93-86-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: P554468
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-LD4-1STD-35-UNV-93-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

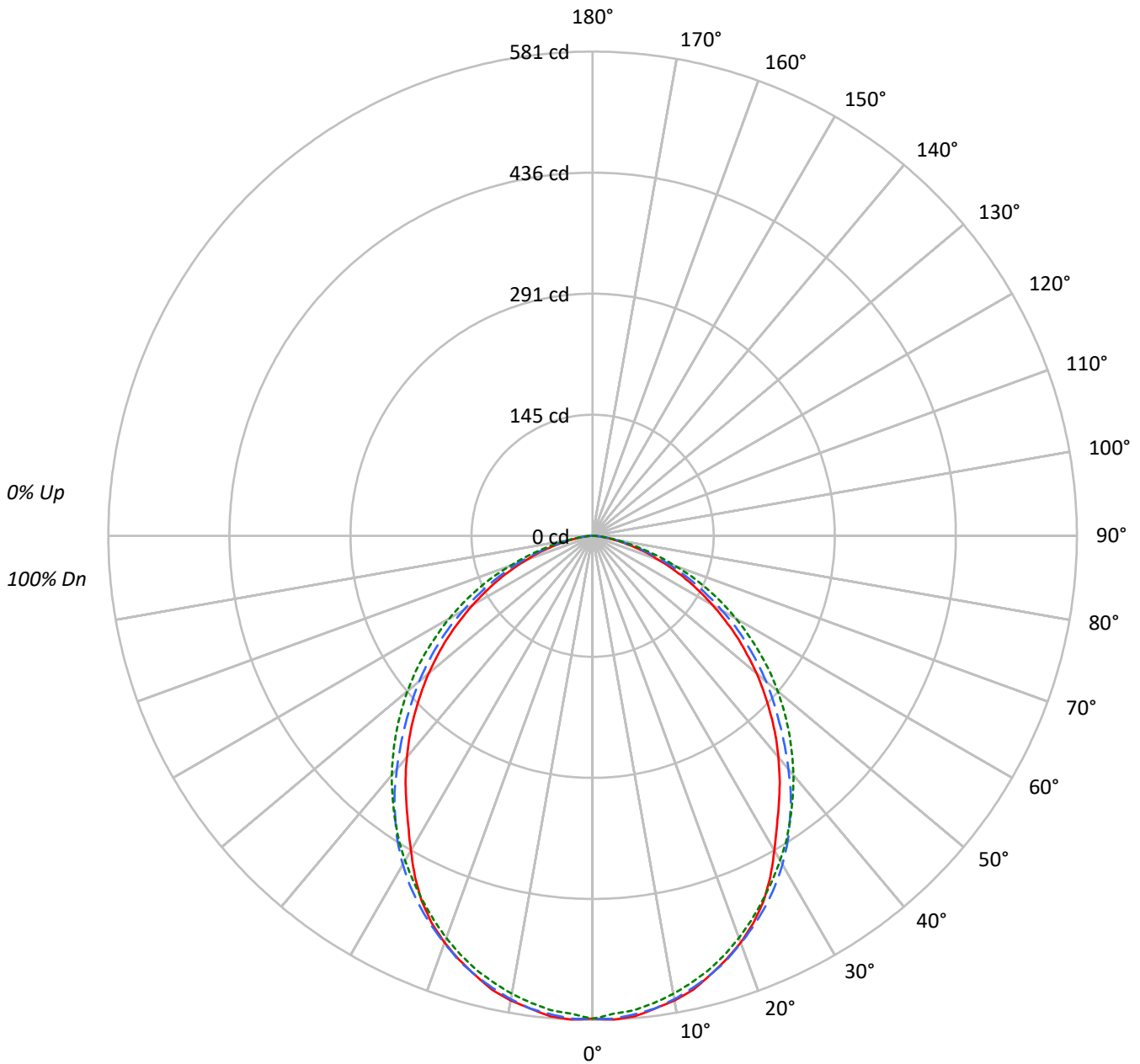
Lumens per Lamp: N/A
Luminaire Lumens: 1340.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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				20				
RC	80				70				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	100	100	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86	86	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73	73	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	63	63	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54	54	54	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47	47	47	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37	37	37	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34	34	34	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3119	3119	3119
5°	3127	3114	3088
10°	3094	3086	3050
15°	3039	3039	3004
20°	2975	2979	2940
25°	2877	2913	2866
30°	2709	2831	2796
35°	2560	2713	2718
40°	2435	2566	2634
45°	2296	2411	2535
50°	2149	2272	2427
55°	1983	2114	2296
60°	1786	1929	2136
65°	1577	1715	1942
70°	1314	1460	1651
75°	1031	1167	1291
80°	738	821	911
85°	482	482	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	4.1
10°-20°	153.3	11.4
20°-30°	224.0	16.7
30°-40°	254.3	19.0
40°-50°	245.5	18.3
50°-60°	202.5	15.1
60°-70°	134.8	10.1
70°-80°	60.3	4.5
80°-90°	10.8	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°	431.8	32.2
0°-40°	686.1	51.2
0°-60°	1134.1	84.6
0°-90°	1340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	580	580	580	580	580	
5°	579	579	576	573	572	55
15°	546	547	546	543	539	154
25°	484	488	490	487	483	222
35°	390	395	413	415	414	244
45°	302	307	317	331	333	233
55°	211	215	225	238	245	189
65°	124	127	135	144	152	123
75°	50	52	56	59	62	54
85°	8	8	8	7	7	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579.5	579.5	579.5	579.5	579.5
2.5°	581.1	581.3	580.0	576.4	574.2
5°	578.8	578.6	576.4	573.3	571.5
7.5°	572.4	572.8	572.2	567.7	565.3
10°	566.2	566.4	564.6	561.0	558.1
12.5°	558.1	557.9	555.5	553.7	549.0
15°	545.5	546.8	545.5	543.0	539.2
17.5°	533.2	533.2	534.1	529.9	527.0
20°	519.4	520.1	520.1	516.7	513.4
22.5°	503.4	505.4	506.0	502.5	498.5
25°	484.5	488.2	490.5	486.9	482.7
27.5°	461.5	467.3	474.0	471.3	466.6
30°	435.9	444.4	455.5	453.3	449.9
32.5°	411.6	420.1	435.5	434.6	432.8
35°	389.6	395.0	413.0	415.2	413.7
37.5°	368.7	373.6	390.5	395.6	394.3
40°	346.6	352.0	365.3	374.5	374.9
42.5°	324.8	329.9	340.9	354.0	354.0
45°	301.7	306.8	316.8	331.3	333.1
47.5°	279.0	284.3	294.1	308.6	311.5
50°	256.7	261.6	271.4	285.4	289.9
52.5°	233.5	238.9	248.5	261.4	267.8
55°	211.3	214.8	225.3	237.8	244.7
57.5°	188.1	191.5	203.3	214.0	221.1
60°	165.9	170.1	179.2	190.1	198.4
62.5°	144.5	148.9	156.7	166.3	175.7
65°	123.8	127.1	134.7	144.3	152.5
67.5°	103.7	106.6	114.2	120.9	129.6
70°	83.5	87.3	92.8	99.3	104.9
72.5°	67.2	68.8	73.5	78.1	83.9
75°	49.6	52.3	56.1	58.8	62.1
77.5°	35.6	37.2	39.4	41.6	44.7
80°	23.8	24.5	26.5	26.9	29.4
82.5°	14.5	14.9	15.4	15.6	16.5
85°	7.8	7.8	7.8	7.3	7.3
87.5°	4.5	4.5	3.8	3.1	2.2
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)