

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: P554606

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-UNV-93-97-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: P554606
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-50-UNV-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

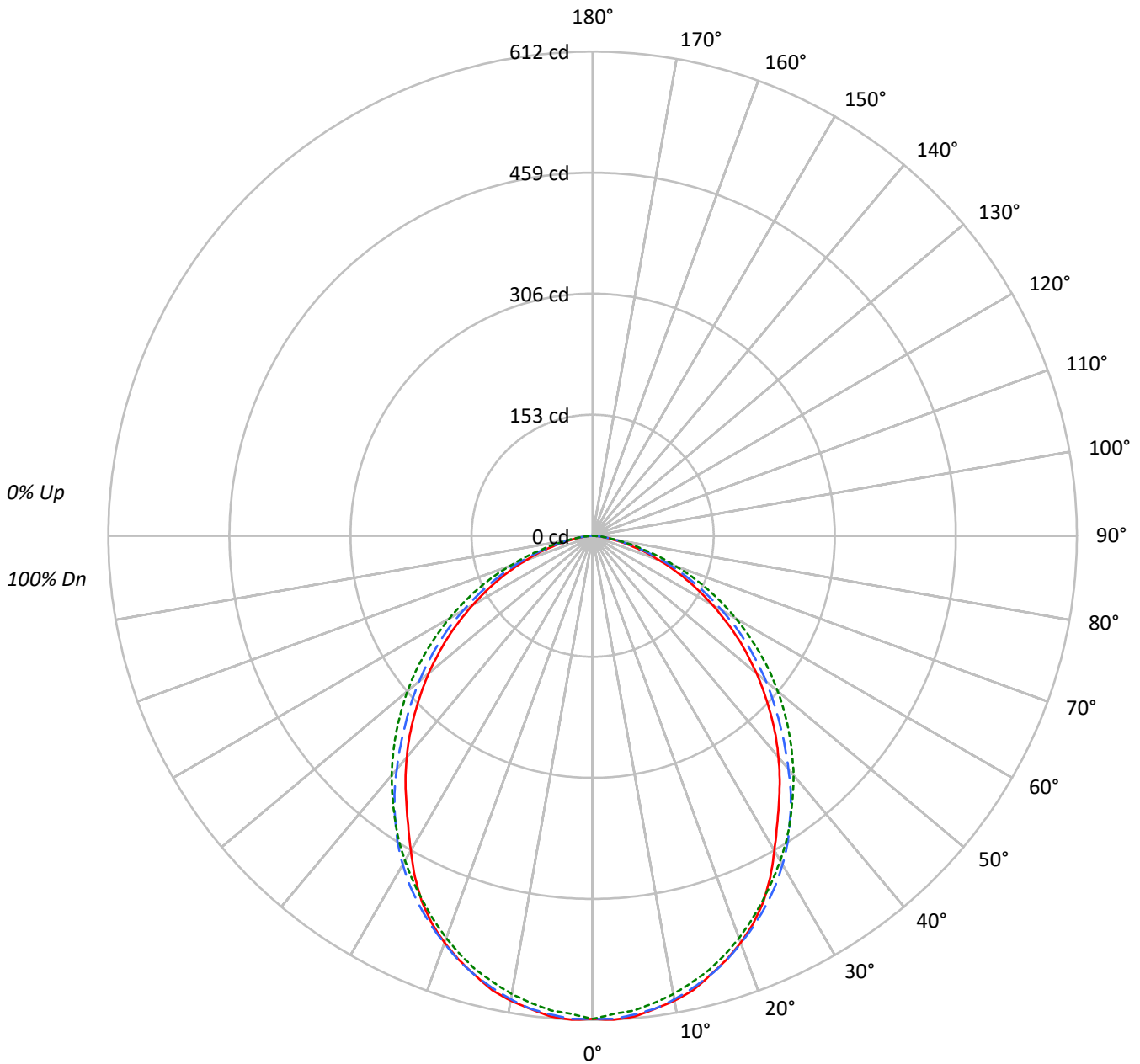
Lumens per Lamp: N/A
Luminaire Lumens: 1412.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	3287	3287	3287
5°	3295	3281	3253
10°	3260	3251	3214
15°	3203	3203	3166
20°	3135	3139	3099
25°	3032	3069	3020
30°	2854	2983	2946
35°	2697	2859	2864
40°	2566	2705	2776
45°	2420	2541	2672
50°	2265	2395	2557
55°	2089	2228	2419
60°	1882	2032	2250
65°	1661	1807	2046
70°	1385	1539	1739
75°	1088	1229	1362
80°	778	865	961
85°	506	506	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	4.1
10°-20°	161.5	11.4
20°-30°	236.0	16.7
30°-40°	267.9	19.0
40°-50°	258.7	18.3
50°-60°	213.4	15.1
60°-70°	142.1	10.1
70°-80°	63.6	4.5
80°-90°	11.4	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°	455.0	32.2
0°-40°	723.0	51.2
0°-60°	1195.0	84.6
0°-90°	1412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	610	610	607	604	602	58
15°	575	576	575	572	568	162
25°	510	514	517	513	509	234
35°	410	416	435	438	436	257
45°	318	323	334	349	351	245
55°	223	226	237	250	258	199
65°	130	134	142	152	161	129
75°	52	55	59	62	66	57
85°	8	8	8	8	8	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	610.7	610.7	610.7	610.7	610.7
2.5°	612.3	612.5	611.1	607.4	605.0
5°	609.9	609.7	607.4	604.1	602.2
7.5°	603.1	603.6	602.9	598.2	595.6
10°	596.6	596.8	594.9	591.2	588.1
12.5°	588.1	587.9	585.3	583.4	578.5
15°	574.8	576.2	574.8	572.2	568.2
17.5°	561.9	561.9	562.8	558.3	555.3
20°	547.3	548.0	548.0	544.5	541.0
22.5°	530.4	532.5	533.2	529.5	525.3
25°	510.5	514.5	516.8	513.1	508.6
27.5°	486.3	492.4	499.5	496.6	491.7
30°	459.3	468.3	480.0	477.6	474.1
32.5°	433.8	442.7	458.9	457.9	456.1
35°	410.5	416.2	435.2	437.5	435.9
37.5°	388.5	393.7	411.5	416.9	415.5
40°	365.3	370.9	385.0	394.6	395.1
42.5°	342.3	347.7	359.2	373.0	373.0
45°	317.9	323.3	333.8	349.1	351.0
47.5°	293.9	299.6	309.9	325.2	328.2
50°	270.5	275.7	286.0	300.8	305.4
52.5°	246.1	251.7	261.8	275.4	282.2
55°	222.6	226.4	237.4	250.5	257.8
57.5°	198.2	201.8	214.2	225.4	233.0
60°	174.8	179.2	188.8	200.3	209.0
62.5°	152.3	156.9	165.2	175.2	185.1
65°	130.4	134.0	141.9	152.0	160.7
67.5°	109.3	112.4	120.3	127.4	136.5
70°	88.0	92.0	97.8	104.6	110.5
72.5°	70.8	72.5	77.4	82.3	88.4
75°	52.3	55.1	59.1	61.9	65.5
77.5°	37.5	39.2	41.5	43.9	47.2
80°	25.1	25.8	27.9	28.4	31.0
82.5°	15.2	15.7	16.2	16.4	17.4
85°	8.2	8.2	8.2	7.7	7.7
87.5°	4.7	4.7	4.0	3.3	2.3
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)