

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: P554570

Luminaire Tested: **FUSL-12-2-LD4-1STD-50-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: P554570
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-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

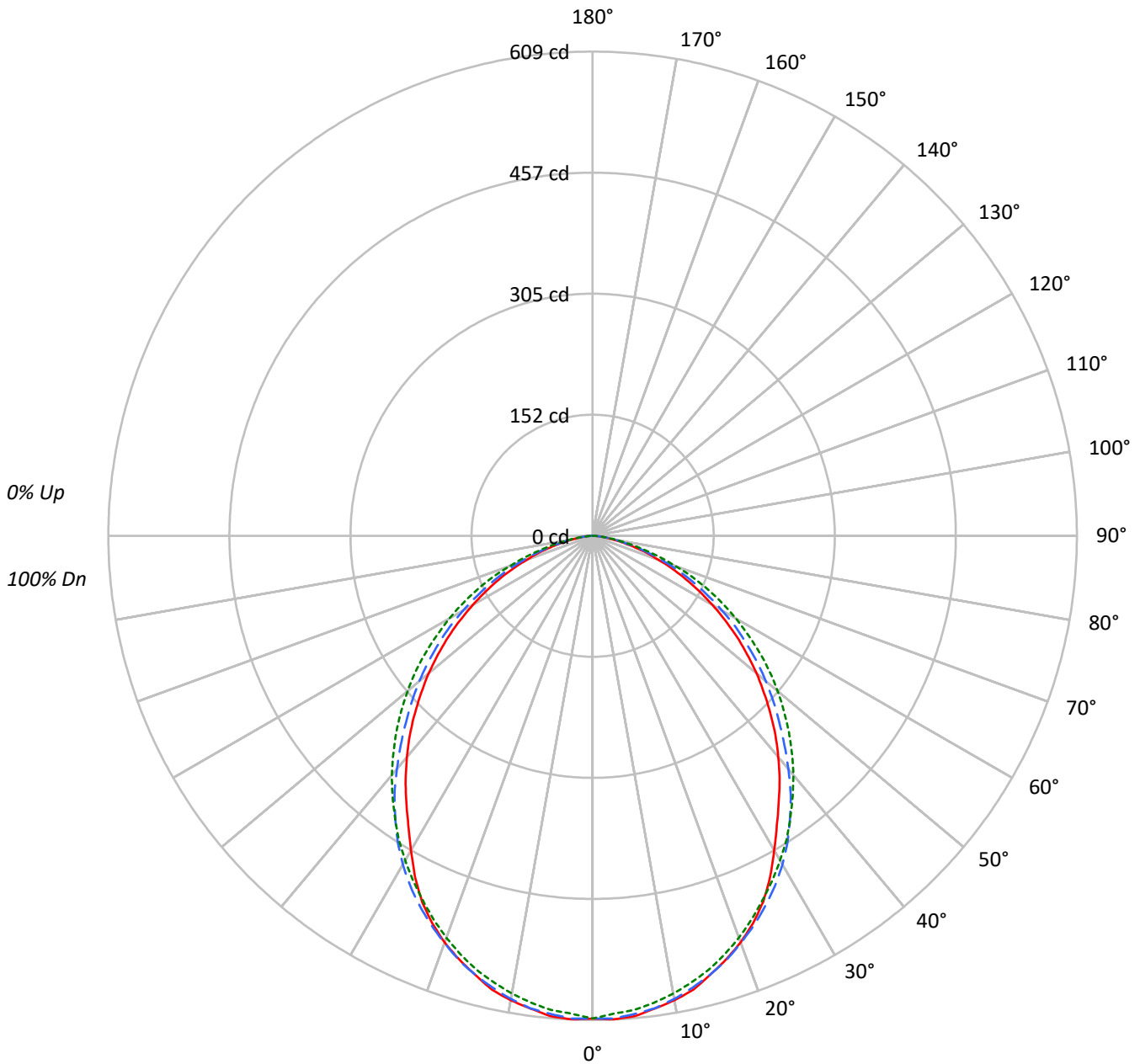
Lumens per Lamp: N/A
Luminaire Lumens: 1404.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3268	3268	3268
5°	3277	3263	3235
10°	3242	3233	3196
15°	3184	3184	3148
20°	3117	3121	3081
25°	3014	3052	3003
30°	2838	2966	2930
35°	2682	2843	2848
40°	2552	2689	2760
45°	2406	2526	2656
50°	2252	2381	2543
55°	2077	2215	2406
60°	1871	2021	2237
65°	1652	1797	2035
70°	1377	1531	1729
75°	1081	1223	1354
80°	775	862	955
85°	506	506	475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	4.1
10°-20°	160.6	11.4
20°-30°	234.7	16.7
30°-40°	266.4	19.0
40°-50°	257.2	18.3
50°-60°	212.2	15.1
60°-70°	141.3	10.1
70°-80°	63.2	4.5
80°-90°	11.3	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°	452.5	32.2
0°-40°	718.9	51.2
0°-60°	1188.2	84.6
0°-90°	1404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	606	606	604	601	599	57
15°	572	573	572	569	565	161
25°	508	512	514	510	506	232
35°	408	414	433	435	433	256
45°	316	321	332	347	349	244
55°	221	225	236	249	256	198
65°	130	133	141	151	160	129
75°	52	55	59	62	65	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°	607.2	607.2	607.2	607.2	607.2
2.5°	608.8	609.1	607.7	603.9	601.6
5°	606.5	606.3	603.9	600.7	598.8
7.5°	599.7	600.2	599.5	594.8	592.3
10°	593.2	593.4	591.6	587.8	584.8
12.5°	584.8	584.6	582.0	580.1	575.2
15°	571.5	572.9	571.5	568.9	565.0
17.5°	558.7	558.7	559.6	555.2	552.1
20°	544.2	544.9	544.9	541.4	537.9
22.5°	527.4	529.5	530.2	526.5	522.3
25°	507.6	511.6	513.9	510.2	505.7
27.5°	483.6	489.6	496.6	493.8	488.9
30°	456.7	465.6	477.3	474.9	471.4
32.5°	431.3	440.2	456.3	455.3	453.5
35°	408.2	413.8	432.7	435.0	433.4
37.5°	386.3	391.4	409.2	414.5	413.1
40°	363.2	368.8	382.8	392.4	392.8
42.5°	340.3	345.7	357.1	370.9	370.9
45°	316.1	321.4	331.9	347.1	349.0
47.5°	292.3	297.9	308.1	323.3	326.3
50°	269.0	274.1	284.4	299.0	303.7
52.5°	244.7	250.3	260.3	273.9	280.6
55°	221.4	225.1	236.1	249.1	256.4
57.5°	197.1	200.6	213.0	224.2	231.6
60°	173.8	178.2	187.8	199.2	207.8
62.5°	151.4	156.1	164.2	174.3	184.0
65°	129.7	133.2	141.1	151.2	159.8
67.5°	108.7	111.7	119.7	126.7	135.8
70°	87.5	91.4	97.3	104.0	109.9
72.5°	70.4	72.1	77.0	81.9	87.9
75°	52.0	54.8	58.8	61.6	65.1
77.5°	37.3	39.0	41.3	43.6	46.9
80°	25.0	25.7	27.8	28.2	30.8
82.5°	15.2	15.6	16.1	16.3	17.3
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)