

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: P554397

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-82-96-EDD**

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: P554397
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-30-UNV-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

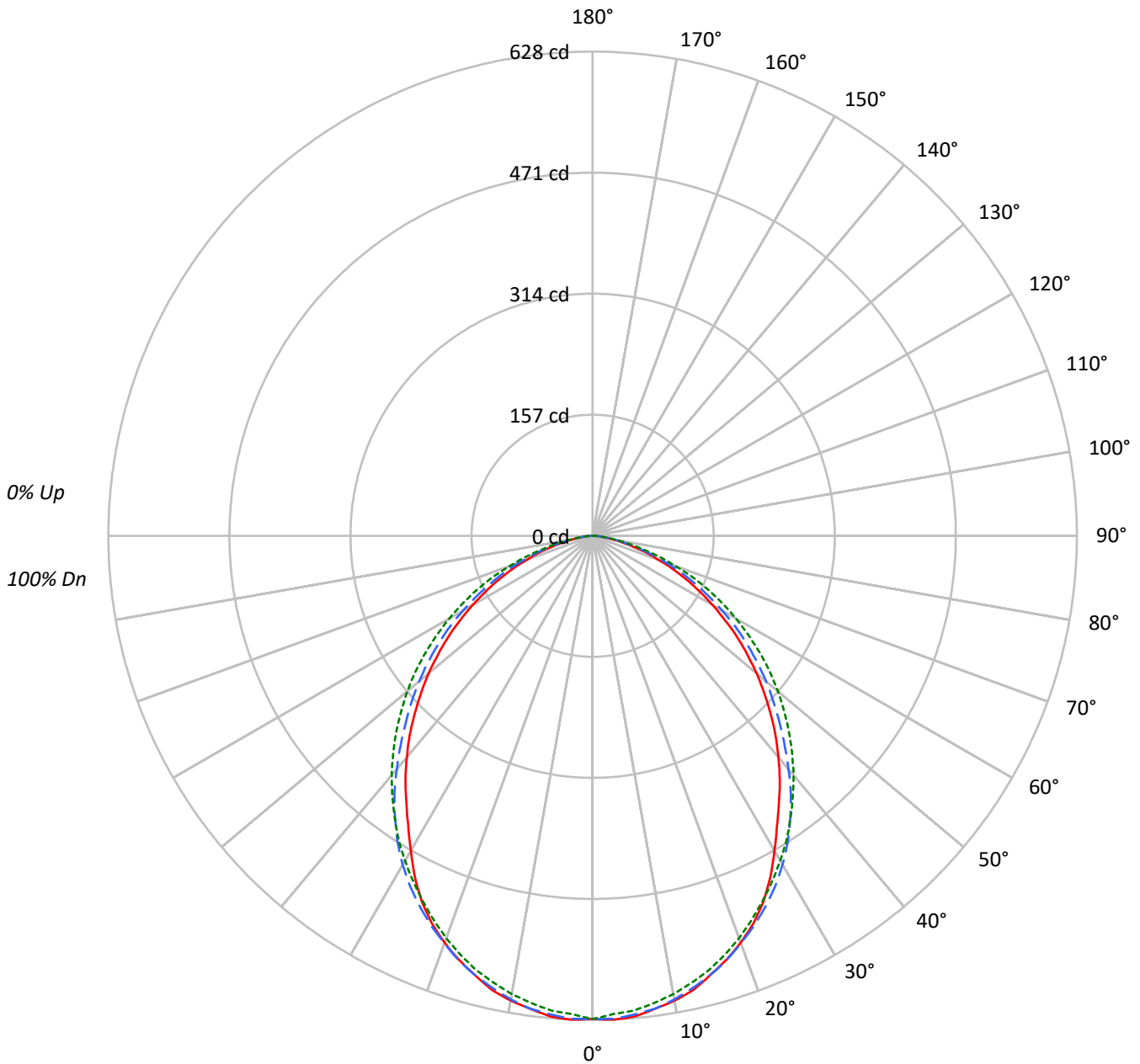
Lumens per Lamp: N/A
Luminaire Lumens: 1449.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3373	3373	3373
5°	3381	3367	3339
10°	3346	3336	3298
15°	3286	3286	3249
20°	3217	3221	3180
25°	3111	3150	3099
30°	2930	3061	3023
35°	2768	2934	2939
40°	2633	2776	2848
45°	2483	2608	2742
50°	2324	2457	2624
55°	2144	2286	2483
60°	1931	2086	2309
65°	1705	1854	2100
70°	1421	1580	1784
75°	1117	1262	1397
80°	800	886	986
85°	519	519	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	4.1
10°-20°	165.8	11.4
20°-30°	242.2	16.7
30°-40°	274.9	19.0
40°-50°	265.4	18.3
50°-60°	218.9	15.1
60°-70°	145.8	10.1
70°-80°	65.3	4.5
80°-90°	11.7	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°	467.0	32.2
0°-40°	741.9	51.2
0°-60°	1226.3	84.6
0°-90°	1449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	626	626	623	620	618	59
15°	590	591	590	587	583	166
25°	524	528	530	526	522	240
35°	421	427	447	449	447	264
45°	326	332	343	358	360	252
55°	228	232	244	257	265	204
65°	134	138	146	156	165	133
75°	54	57	61	64	67	59
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°	626.7	626.7	626.7	626.7	626.7
2.5°	628.3	628.6	627.1	623.3	620.9
5°	625.9	625.7	623.3	619.9	618.0
7.5°	619.0	619.4	618.7	613.9	611.2
10°	612.2	612.5	610.5	606.7	603.5
12.5°	603.5	603.3	600.7	598.7	593.7
15°	589.8	591.3	589.8	587.2	583.1
17.5°	576.6	576.6	577.5	573.0	569.8
20°	561.7	562.4	562.4	558.8	555.2
22.5°	544.3	546.5	547.2	543.4	539.0
25°	523.9	528.0	530.4	526.5	521.9
27.5°	499.1	505.3	512.5	509.7	504.6
30°	471.4	480.5	492.6	490.2	486.5
32.5°	445.1	454.3	470.9	469.9	468.0
35°	421.3	427.1	446.6	449.0	447.3
37.5°	398.7	404.0	422.3	427.8	426.4
40°	374.8	380.6	395.1	404.9	405.4
42.5°	351.2	356.8	368.6	382.8	382.8
45°	326.2	331.7	342.6	358.2	360.2
47.5°	301.7	307.4	318.0	333.7	336.8
50°	277.6	282.9	293.5	308.6	313.4
52.5°	252.5	258.3	268.7	282.6	289.6
55°	228.5	232.3	243.6	257.1	264.6
57.5°	203.4	207.0	219.8	231.4	239.1
60°	179.4	183.9	193.8	205.6	214.5
62.5°	156.2	161.1	169.5	179.8	189.9
65°	133.9	137.5	145.6	156.0	164.9
67.5°	112.2	115.3	123.5	130.7	140.1
70°	90.3	94.4	100.4	107.4	113.4
72.5°	72.7	74.4	79.4	84.5	90.8
75°	53.7	56.6	60.7	63.6	67.2
77.5°	38.5	40.2	42.6	45.0	48.4
80°	25.8	26.5	28.6	29.1	31.8
82.5°	15.6	16.1	16.6	16.9	17.8
85°	8.4	8.4	8.4	7.9	7.9
87.5°	4.8	4.8	4.1	3.4	2.4
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)