

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: P554891

Luminaire Tested: **FUSL-12-2-LD4-2LO-30-UNV-81-94-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: P554891
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-LD4-2LO-30-UNV-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

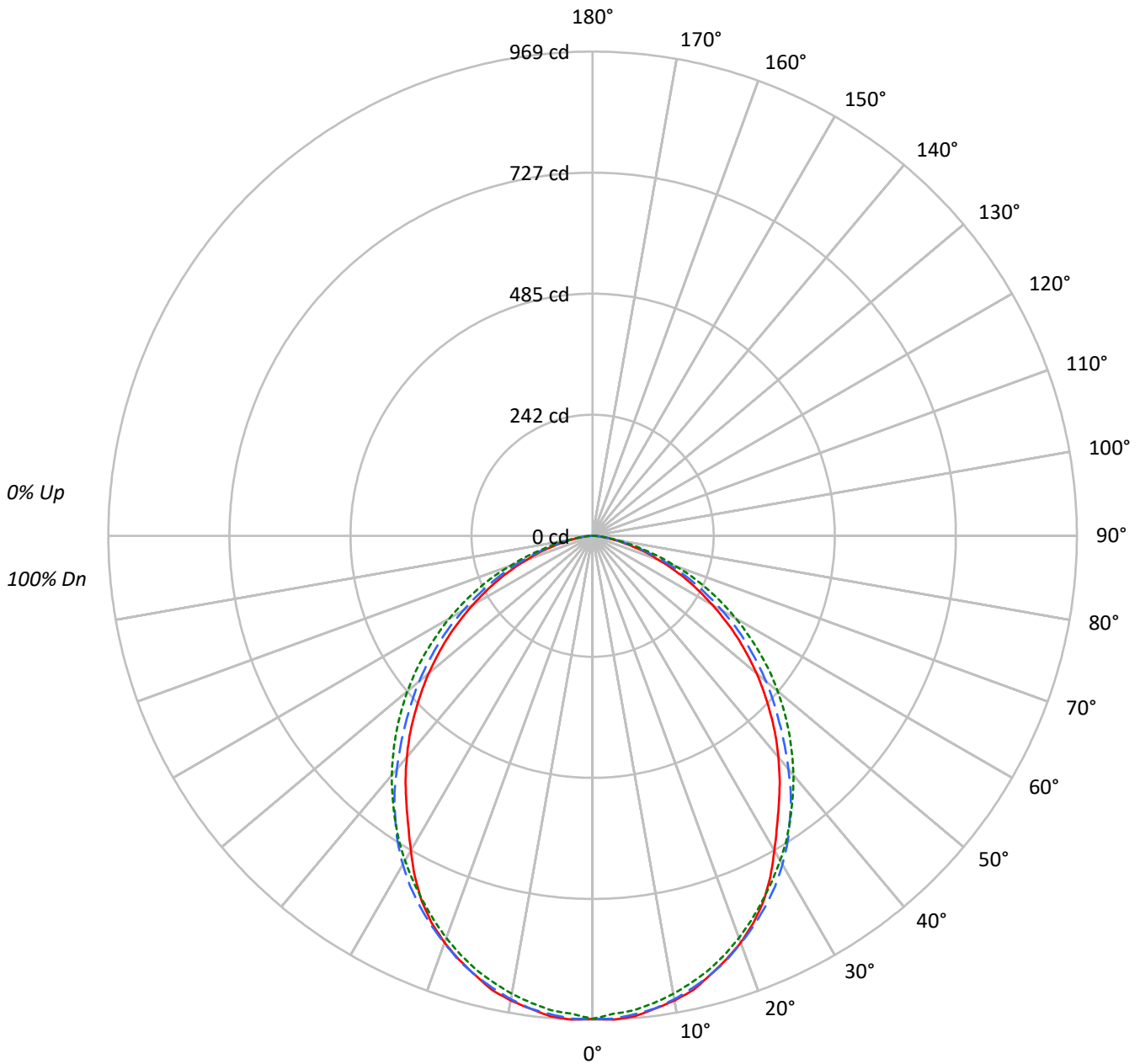
Lumens per Lamp: N/A
Luminaire Lumens: 2235.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5202	5202	5202
5°	5216	5194	5150
10°	5161	5146	5087
15°	5069	5069	5011
20°	4962	4968	4904
25°	4798	4858	4780
30°	4519	4721	4664
35°	4269	4526	4533
40°	4062	4281	4393
45°	3830	4022	4228
50°	3584	3790	4048
55°	3307	3526	3829
60°	2977	3217	3562
65°	2630	2862	3240
70°	2190	2436	2752
75°	1722	1946	2154
80°	1230	1370	1519
85°	803	803	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	4.1
10°-20°	255.7	11.4
20°-30°	373.6	16.7
30°-40°	424.1	19.0
40°-50°	409.4	18.3
50°-60°	337.7	15.1
60°-70°	224.9	10.1
70°-80°	100.6	4.5
80°-90°	18.0	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°	720.3	32.2
0°-40°	1144.3	51.2
0°-60°	1891.4	84.6
0°-90°	2235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	966	965	961	956	953	91
15°	910	912	910	906	899	256
25°	808	814	818	812	805	370
35°	650	659	689	692	690	407
45°	503	512	528	552	556	388
55°	352	358	376	397	408	315
65°	206	212	225	241	254	205
75°	83	87	94	98	104	91
85°	13	13	13	12	12	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.6	966.6	966.6	966.6	966.6
2.5°	969.2	969.6	967.3	961.4	957.7
5°	965.5	965.1	961.4	956.2	953.2
7.5°	954.7	955.4	954.3	946.9	942.8
10°	944.3	944.7	941.7	935.8	930.9
12.5°	930.9	930.6	926.5	923.5	915.7
15°	909.8	912.0	909.8	905.7	899.4
17.5°	889.3	889.3	890.8	883.8	878.9
20°	866.3	867.4	867.4	861.9	856.3
22.5°	839.6	842.9	844.0	838.1	831.4
25°	808.0	814.3	818.0	812.1	805.0
27.5°	769.8	779.4	790.6	786.1	778.3
30°	727.1	741.2	759.7	756.0	750.5
32.5°	686.6	700.7	726.3	724.8	721.9
35°	649.8	658.7	688.8	692.5	689.9
37.5°	614.9	623.1	651.3	659.9	657.6
40°	578.2	587.1	609.4	624.6	625.3
42.5°	541.8	550.3	568.5	590.4	590.4
45°	503.2	511.7	528.4	552.5	555.5
47.5°	465.3	474.2	490.5	514.7	519.5
50°	428.1	436.3	452.7	476.0	483.5
52.5°	389.5	398.4	414.4	435.9	446.7
55°	352.4	358.3	375.8	396.6	408.1
57.5°	313.8	319.3	339.0	356.9	368.7
60°	276.6	283.7	298.9	317.1	330.9
62.5°	241.0	248.4	261.4	277.4	293.0
65°	206.5	212.0	224.7	240.6	254.4
67.5°	173.0	177.9	190.5	201.6	216.1
70°	139.2	145.6	154.8	165.6	174.9
72.5°	112.1	114.7	122.5	130.3	140.0
75°	82.8	87.3	93.6	98.0	103.6
77.5°	59.4	62.0	65.7	69.4	74.6
80°	39.7	40.8	44.2	44.9	49.0
82.5°	24.1	24.9	25.6	26.0	27.5
85°	13.0	13.0	13.0	12.3	12.3
87.5°	7.4	7.4	6.3	5.2	3.7
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)