

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: P553965

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-93-96-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: P553965
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-LD4-1HI-35-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

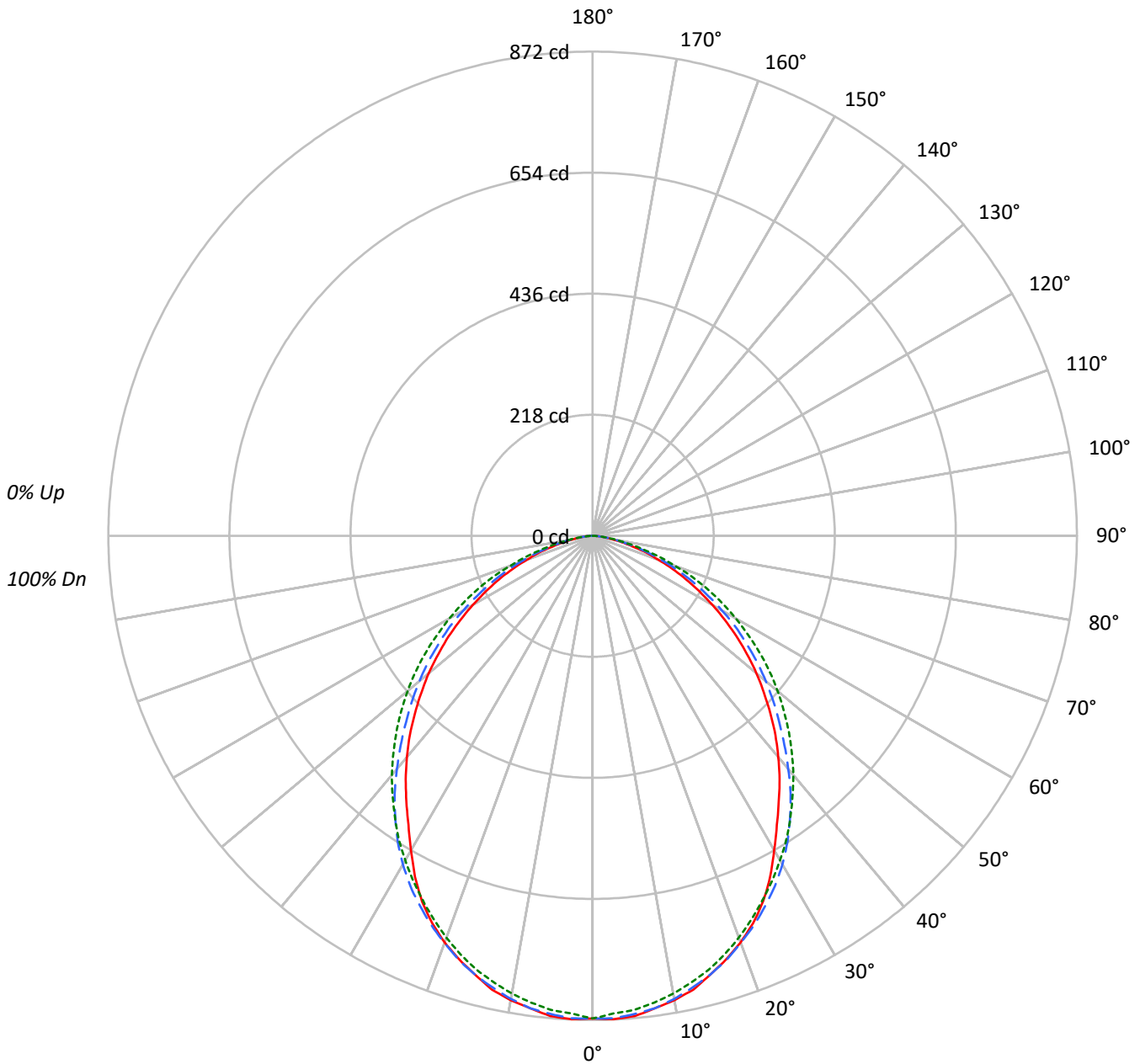
Lumens per Lamp: N/A
Luminaire Lumens: 2010.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	4679	4679	4679
5°	4691	4671	4632
10°	4641	4628	4575
15°	4559	4559	4506
20°	4462	4468	4411
25°	4315	4369	4299
30°	4064	4246	4194
35°	3840	4070	4077
40°	3653	3850	3951
45°	3444	3617	3803
50°	3224	3409	3641
55°	2974	3172	3444
60°	2678	2893	3202
65°	2365	2572	2914
70°	1970	2192	2475
75°	1549	1751	1938
80°	1106	1230	1367
85°	722	722	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	4.1
10°-20°	229.9	11.4
20°-30°	336.0	16.7
30°-40°	381.4	19.0
40°-50°	368.2	18.3
50°-60°	303.7	15.1
60°-70°	202.3	10.1
70°-80°	90.5	4.5
80°-90°	16.2	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°	647.8	32.2
0°-40°	1029.2	51.2
0°-60°	1701.1	84.6
0°-90°	2010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	868	868	865	860	857	82
15°	818	820	818	814	809	231
25°	727	732	736	730	724	333
35°	584	592	620	623	620	366
45°	452	460	475	497	500	349
55°	317	322	338	357	367	283
65°	186	191	202	216	229	184
75°	74	78	84	88	93	81
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.3	869.3	869.3	869.3	869.3
2.5°	871.6	871.9	869.9	864.6	861.3
5°	868.3	867.9	864.6	859.9	857.3
7.5°	858.6	859.3	858.3	851.6	847.9
10°	849.2	849.6	846.9	841.6	837.2
12.5°	837.2	836.9	833.2	830.5	823.5
15°	818.2	820.2	818.2	814.5	808.8
17.5°	799.8	799.8	801.1	794.8	790.5
20°	779.1	780.1	780.1	775.1	770.1
22.5°	755.1	758.1	759.1	753.7	747.7
25°	726.7	732.4	735.7	730.3	724.0
27.5°	692.3	701.0	711.0	707.0	700.0
30°	653.9	666.6	683.3	679.9	674.9
32.5°	617.5	630.2	653.2	651.9	649.2
35°	584.4	592.4	619.5	622.8	620.5
37.5°	553.0	560.4	585.7	593.4	591.4
40°	520.0	528.0	548.0	561.7	562.4
42.5°	487.2	494.9	511.3	531.0	531.0
45°	452.5	460.2	475.2	496.9	499.6
47.5°	418.4	426.5	441.1	462.9	467.2
50°	385.0	392.4	407.1	428.1	434.8
52.5°	350.3	358.3	372.7	392.1	401.7
55°	316.9	322.3	338.0	356.7	367.0
57.5°	282.2	287.2	304.9	320.9	331.6
60°	248.8	255.1	268.8	285.2	297.5
62.5°	216.7	223.4	235.1	249.5	263.5
65°	185.7	190.7	202.0	216.4	228.8
67.5°	155.6	160.0	171.3	181.3	194.4
70°	125.2	130.9	139.3	148.9	157.3
72.5°	100.9	103.2	110.2	117.2	125.9
75°	74.5	78.5	84.2	88.2	93.2
77.5°	53.4	55.8	59.1	62.4	67.1
80°	35.7	36.7	39.7	40.4	44.1
82.5°	21.7	22.4	23.0	23.4	24.7
85°	11.7	11.7	11.7	11.0	11.0
87.5°	6.7	6.7	5.7	4.7	3.3
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)