

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: P555109

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-86-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: P555109
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-50-UNV-93-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

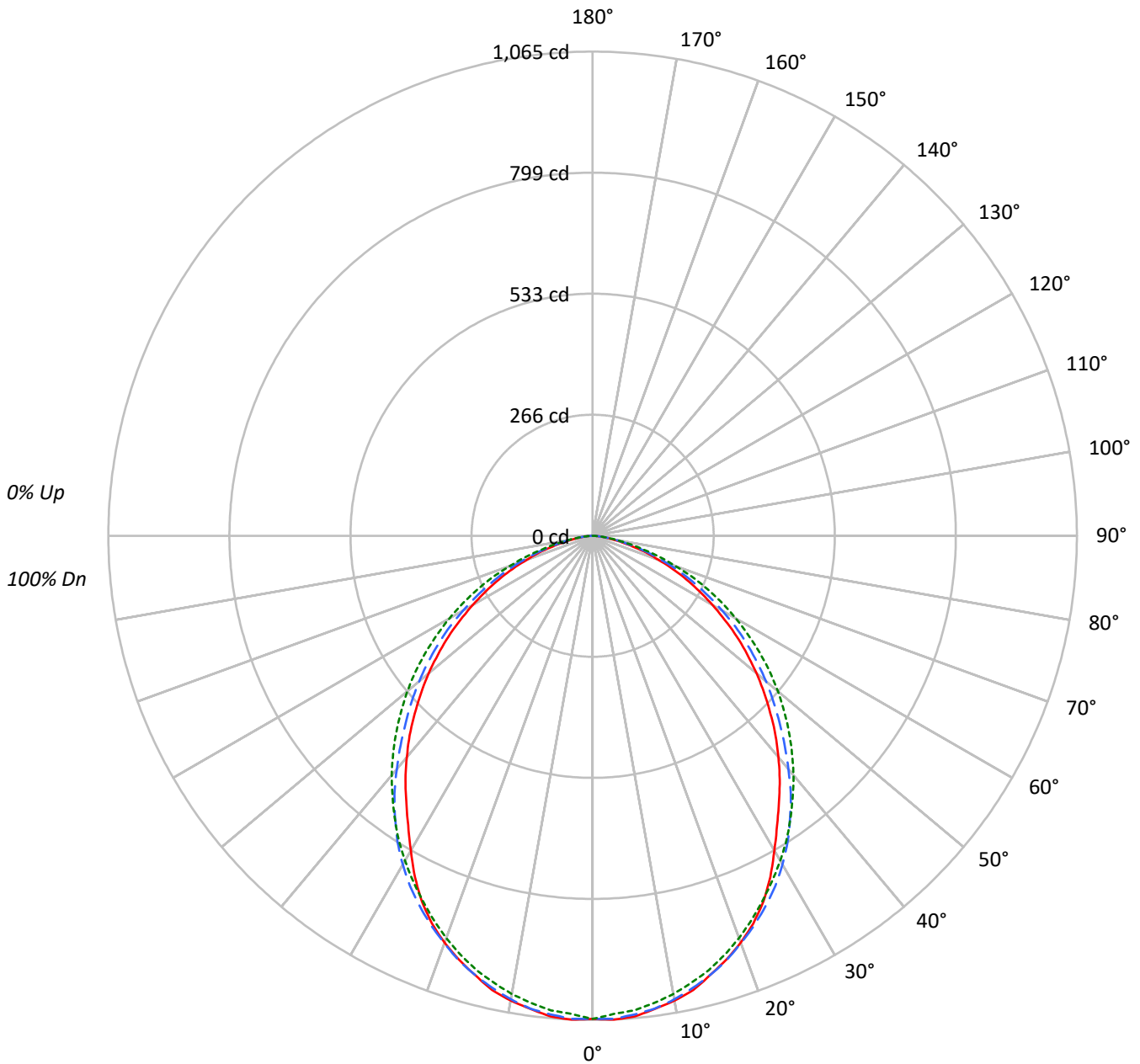
Lumens per Lamp: N/A
Luminaire Lumens: 2457.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5719	5719	5719
5°	5734	5710	5661
10°	5673	5657	5593
15°	5572	5572	5509
20°	5455	5462	5391
25°	5275	5340	5255
30°	4967	5190	5127
35°	4694	4975	4983
40°	4466	4706	4829
45°	4210	4421	4648
50°	3941	4166	4450
55°	3635	3876	4209
60°	3273	3537	3915
65°	2891	3145	3561
70°	2409	2678	3026
75°	1892	2140	2368
80°	1354	1506	1671
85°	883	883	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	4.1
10°-20°	281.1	11.4
20°-30°	410.7	16.7
30°-40°	466.2	19.0
40°-50°	450.1	18.3
50°-60°	371.3	15.1
60°-70°	247.2	10.1
70°-80°	110.6	4.5
80°-90°	19.8	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°	791.8	32.2
0°-40°	1258.0	51.2
0°-60°	2079.3	84.6
0°-90°	2457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1061	1061	1057	1051	1048	100
15°	1000	1003	1000	996	989	282
25°	888	895	899	893	885	407
35°	714	724	757	761	758	448
45°	553	562	581	607	611	427
55°	387	394	413	436	449	346
65°	227	233	247	264	280	225
75°	91	96	103	108	114	100
85°	14	14	14	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062.6	1062.6	1062.6	1062.6	1062.6
2.5°	1065.4	1065.9	1063.4	1056.9	1052.8
5°	1061.4	1061.0	1056.9	1051.2	1047.9
7.5°	1049.5	1050.3	1049.1	1041.0	1036.5
10°	1038.1	1038.5	1035.2	1028.7	1023.4
12.5°	1023.4	1023.0	1018.5	1015.2	1006.7
15°	1000.1	1002.6	1000.1	995.6	988.7
17.5°	977.7	977.7	979.3	971.6	966.2
20°	952.4	953.6	953.6	947.5	941.3
22.5°	923.0	926.7	927.9	921.3	914.0
25°	888.3	895.2	899.3	892.8	885.0
27.5°	846.2	856.8	869.1	864.2	855.6
30°	799.3	814.8	835.2	831.1	825.0
32.5°	754.8	770.3	798.5	796.8	793.6
35°	714.4	724.2	757.2	761.3	758.5
37.5°	676.0	685.0	716.0	725.4	723.0
40°	635.6	645.4	669.9	686.6	687.4
42.5°	595.6	605.0	625.0	649.1	649.1
45°	553.1	562.5	580.9	607.4	610.7
47.5°	511.5	521.3	539.3	565.8	571.1
50°	470.7	479.7	497.6	523.3	531.5
52.5°	428.2	438.0	455.6	479.2	491.1
55°	387.4	393.9	413.1	436.0	448.6
57.5°	344.9	351.1	372.7	392.3	405.4
60°	304.1	311.9	328.6	348.6	363.7
62.5°	264.9	273.1	287.4	304.9	322.1
65°	227.0	233.1	247.0	264.5	279.6
67.5°	190.2	195.5	209.4	221.7	237.6
70°	153.1	160.0	170.2	182.1	192.3
72.5°	123.3	126.1	134.7	143.3	153.9
75°	91.0	95.9	102.9	107.8	113.9
77.5°	65.3	68.2	72.3	76.3	82.1
80°	43.7	44.9	48.6	49.4	53.9
82.5°	26.5	27.4	28.2	28.6	30.2
85°	14.3	14.3	14.3	13.5	13.5
87.5°	8.2	8.2	6.9	5.7	4.1
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)