

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: P555083

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-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: P555083
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-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 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

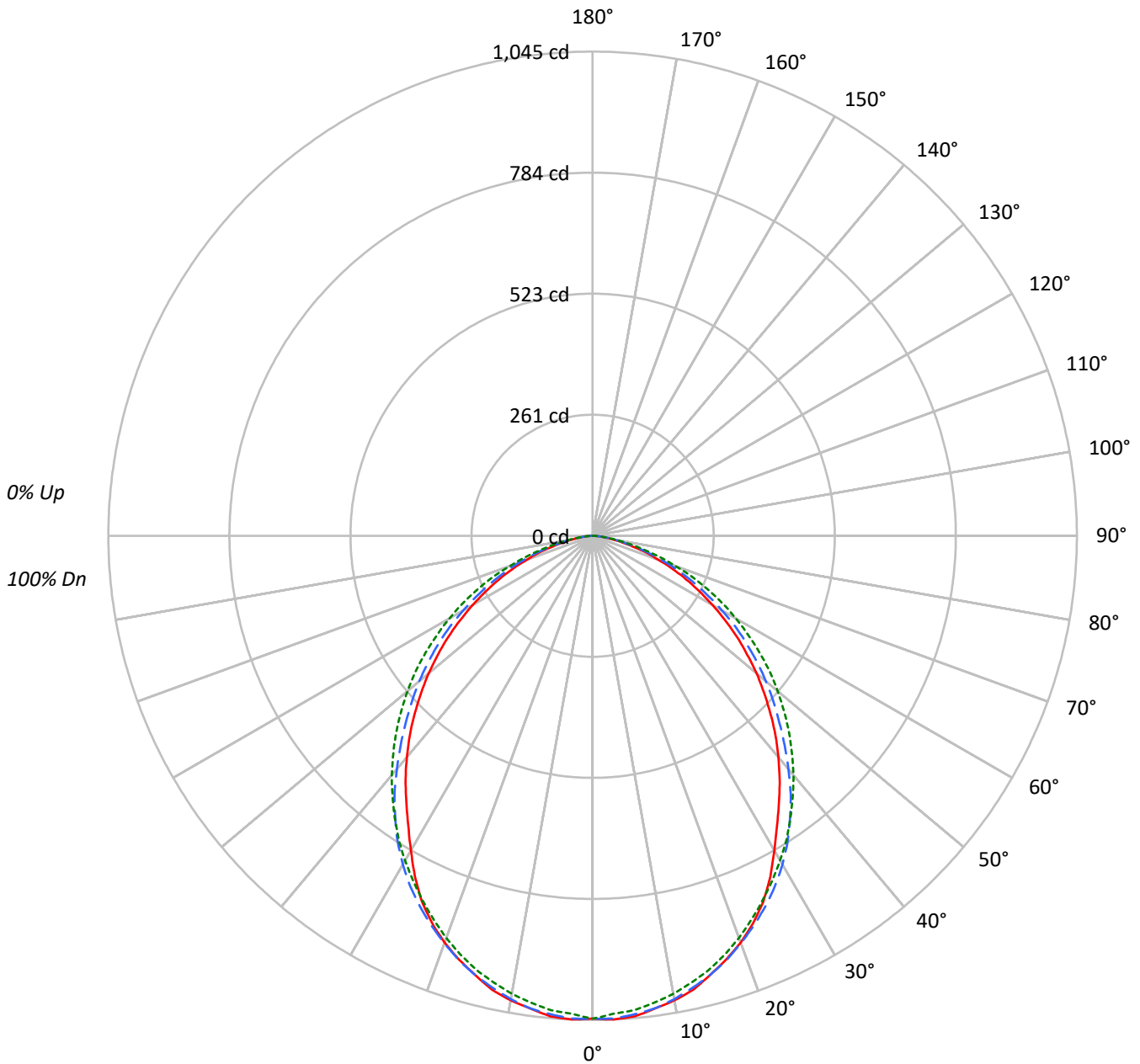
Lumens per Lamp: N/A
Luminaire Lumens: 2410.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5610	5610	5610
5°	5625	5601	5553
10°	5564	5549	5486
15°	5466	5466	5404
20°	5350	5357	5288
25°	5174	5238	5155
30°	4872	5091	5029
35°	4604	4880	4888
40°	4380	4617	4737
45°	4130	4337	4559
50°	3866	4087	4365
55°	3566	3802	4129
60°	3211	3469	3841
65°	2835	3084	3493
70°	2364	2628	2968
75°	1857	2098	2323
80°	1327	1475	1640
85°	865	865	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	4.1
10°-20°	275.7	11.4
20°-30°	402.9	16.7
30°-40°	457.3	19.0
40°-50°	441.4	18.3
50°-60°	364.2	15.1
60°-70°	242.5	10.1
70°-80°	108.5	4.5
80°-90°	19.4	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°	776.7	32.2
0°-40°	1234.0	51.2
0°-60°	2039.6	84.6
0°-90°	2410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1041	1041	1037	1031	1028	99
15°	981	983	981	977	970	277
25°	871	878	882	876	868	399
35°	701	710	743	747	744	439
45°	543	552	570	596	599	419
55°	380	386	405	428	440	339
65°	223	229	242	260	274	221
75°	89	94	101	106	112	98
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1045.1	1045.5	1043.1	1036.7	1032.7
5°	1041.1	1040.7	1036.7	1031.1	1027.8
7.5°	1029.4	1030.3	1029.0	1021.0	1016.6
10°	1018.2	1018.6	1015.4	1009.0	1003.8
12.5°	1003.8	1003.4	999.0	995.8	987.4
15°	981.0	983.4	981.0	976.6	969.8
17.5°	959.0	959.0	960.6	953.0	947.8
20°	934.2	935.4	935.4	929.3	923.3
22.5°	905.3	908.9	910.1	903.7	896.5
25°	871.3	878.1	882.1	875.7	868.1
27.5°	830.0	840.5	852.5	847.7	839.3
30°	784.0	799.2	819.2	815.2	809.2
32.5°	740.4	755.6	783.2	781.6	778.4
35°	700.7	710.3	742.8	746.8	744.0
37.5°	663.1	671.9	702.3	711.5	709.1
40°	623.4	633.0	657.1	673.5	674.3
42.5°	584.2	593.4	613.0	636.6	636.6
45°	542.6	551.8	569.8	595.8	599.0
47.5°	501.7	511.3	528.9	555.0	560.2
50°	461.7	470.5	488.1	513.3	521.3
52.5°	420.0	429.6	446.9	470.1	481.7
55°	380.0	386.4	405.2	427.6	440.0
57.5°	338.3	344.4	365.6	384.8	397.6
60°	298.3	305.9	322.3	341.9	356.8
62.5°	259.9	267.9	281.9	299.1	315.9
65°	222.6	228.6	242.2	259.5	274.3
67.5°	186.6	191.8	205.4	217.4	233.0
70°	150.2	157.0	167.0	178.6	188.6
72.5°	120.9	123.7	132.1	140.5	151.0
75°	89.3	94.1	100.9	105.7	111.7
77.5°	64.1	66.9	70.9	74.9	80.5
80°	42.8	44.0	47.6	48.4	52.9
82.5°	26.0	26.8	27.6	28.0	29.6
85°	14.0	14.0	14.0	13.2	13.2
87.5°	8.0	8.0	6.8	5.6	4.0
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)