

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: P555027

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-82-85-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: P555027
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-40-UNV-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

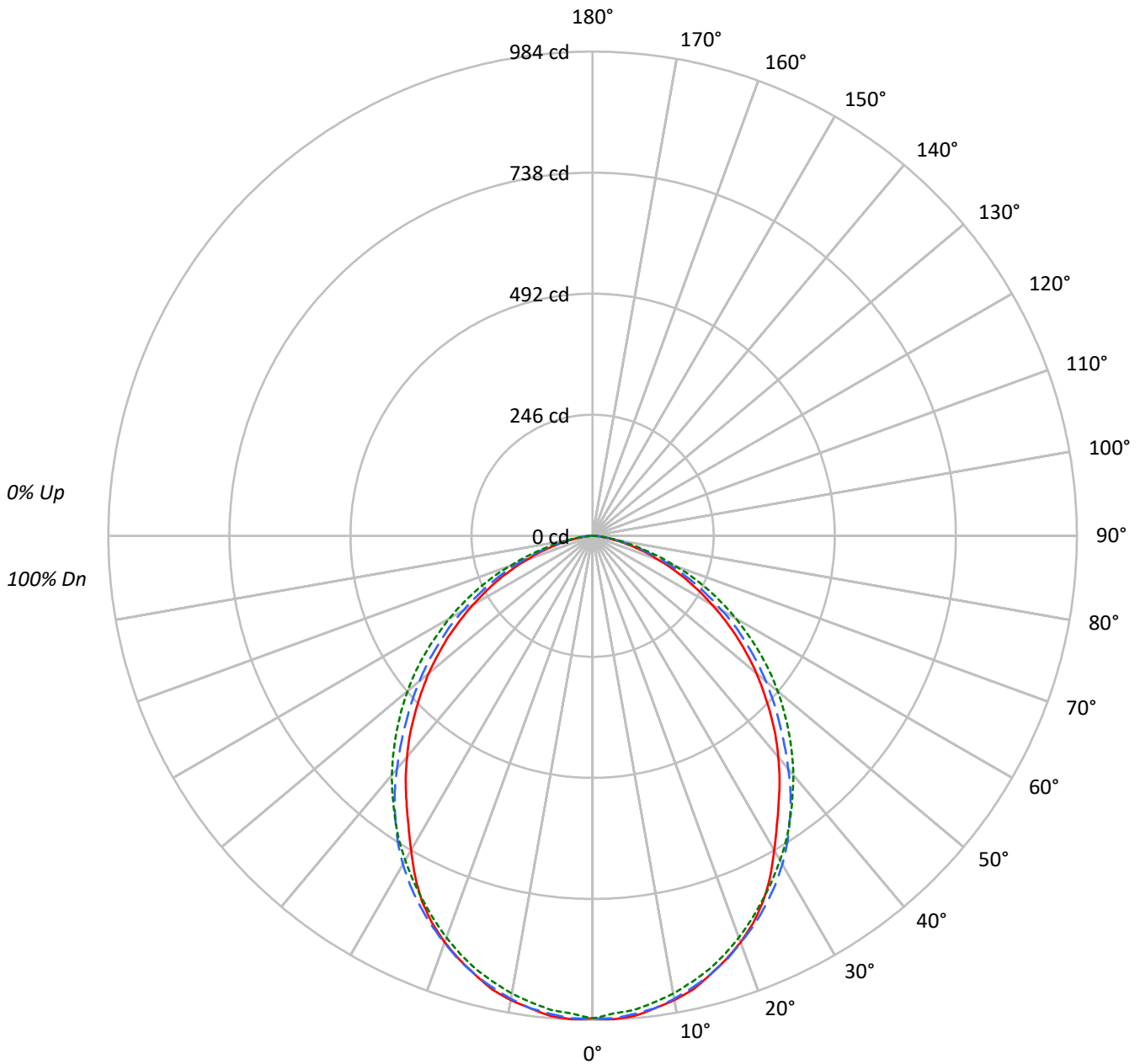
Lumens per Lamp: N/A
Luminaire Lumens: 2268.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): 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°	5279	5279	5279
5°	5293	5271	5226
10°	5237	5222	5163
15°	5144	5144	5085
20°	5035	5041	4977
25°	4869	4929	4851
30°	4585	4791	4732
35°	4332	4593	4600
40°	4122	4345	4458
45°	3886	4081	4290
50°	3638	3846	4108
55°	3355	3578	3886
60°	3021	3265	3613
65°	2668	2904	3287
70°	2223	2472	2793
75°	1747	1975	2185
80°	1249	1389	1540
85°	815	815	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	4.1
10°-20°	259.4	11.4
20°-30°	379.1	16.7
30°-40°	430.3	19.0
40°-50°	415.4	18.3
50°-60°	342.7	15.1
60°-70°	228.2	10.1
70°-80°	102.1	4.5
80°-90°	18.3	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°	730.9	32.2
0°-40°	1161.3	51.2
0°-60°	1919.4	84.6
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	980	979	976	970	967	93
15°	923	926	923	919	913	260
25°	820	826	830	824	817	375
35°	659	668	699	703	700	413
45°	511	519	536	561	564	394
55°	358	364	381	402	414	319
65°	210	215	228	244	258	208
75°	84	89	95	100	105	92
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°	980.9	980.9	980.9	980.9	980.9
2.5°	983.5	983.9	981.6	975.6	971.8
5°	979.7	979.3	975.6	970.3	967.3
7.5°	968.8	969.5	968.4	960.9	956.7
10°	958.2	958.6	955.6	949.6	944.7
12.5°	944.7	944.3	940.2	937.1	929.2
15°	923.2	925.5	923.2	919.1	912.6
17.5°	902.5	902.5	904.0	896.8	891.9
20°	879.1	880.2	880.2	874.6	868.9
22.5°	852.0	855.4	856.5	850.5	843.7
25°	820.0	826.4	830.1	824.1	816.9
27.5°	781.1	790.9	802.2	797.7	789.8
30°	737.8	752.1	771.0	767.2	761.5
32.5°	696.7	711.1	737.1	735.5	732.5
35°	659.4	668.5	699.0	702.8	700.1
37.5°	624.0	632.3	660.9	669.6	667.3
40°	586.7	595.7	618.4	633.8	634.6
42.5°	549.8	558.4	576.9	599.1	599.1
45°	510.6	519.3	536.2	560.7	563.7
47.5°	472.2	481.2	497.8	522.3	527.2
50°	434.5	442.8	459.3	483.1	490.6
52.5°	395.3	404.3	420.5	442.4	453.3
55°	357.6	363.6	381.3	402.4	414.1
57.5°	318.4	324.1	344.0	362.1	374.2
60°	280.7	287.9	303.3	321.8	335.7
62.5°	244.6	252.1	265.3	281.5	297.3
65°	209.5	215.2	228.0	244.2	258.1
67.5°	175.6	180.5	193.3	204.6	219.3
70°	141.3	147.7	157.1	168.1	177.5
72.5°	113.8	116.4	124.3	132.3	142.1
75°	84.0	88.6	95.0	99.5	105.1
77.5°	60.3	62.9	66.7	70.5	75.7
80°	40.3	41.4	44.8	45.6	49.7
82.5°	24.5	25.2	26.0	26.4	27.9
85°	13.2	13.2	13.2	12.4	12.4
87.5°	7.5	7.5	6.4	5.3	3.8
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)