

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: P555015

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-81-87-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: P555015
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-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

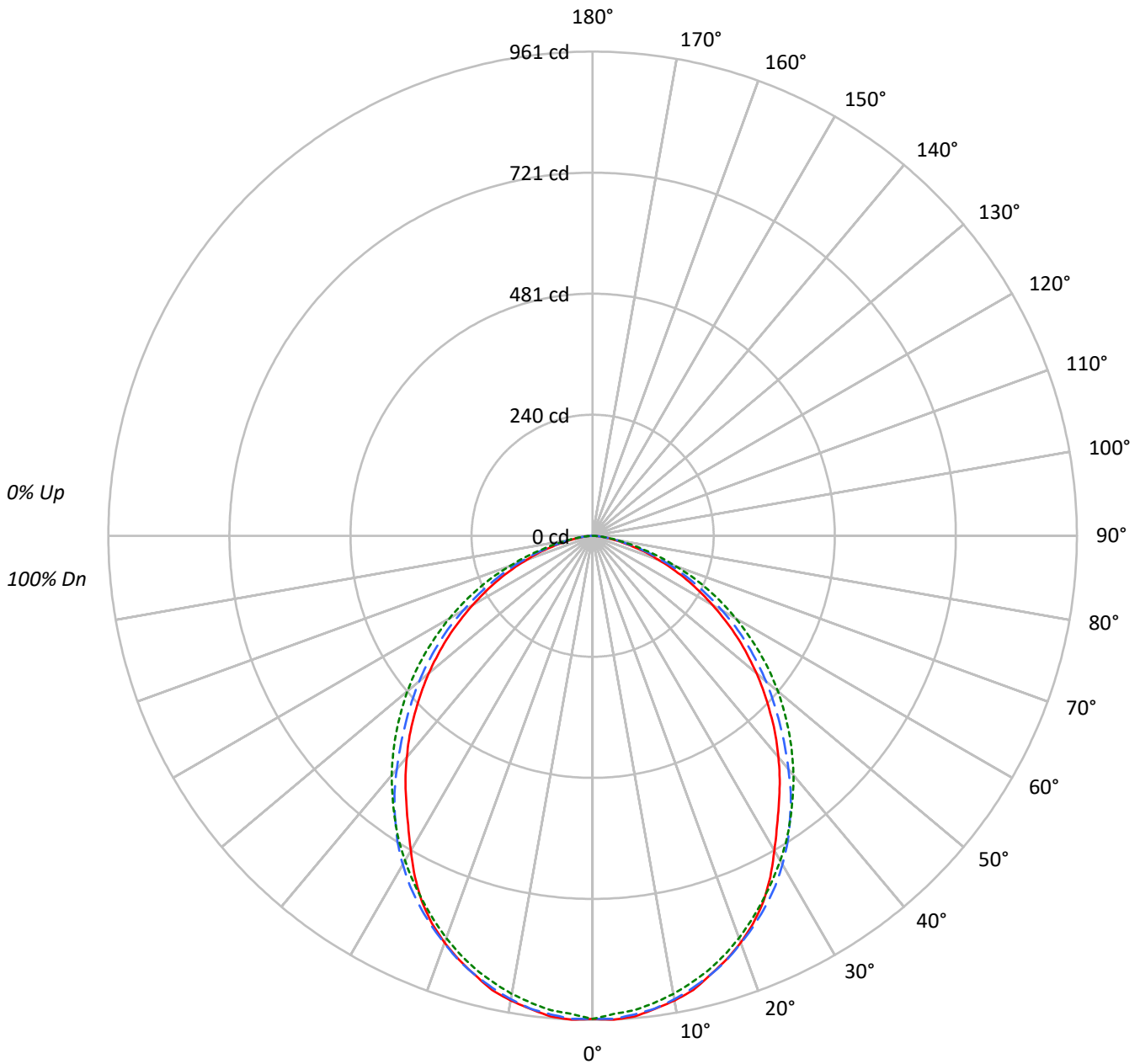
Lumens per Lamp: N/A
Luminaire Lumens: 2217.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5160	5160	5160
5°	5174	5152	5108
10°	5119	5105	5046
15°	5028	5028	4971
20°	4922	4928	4865
25°	4760	4819	4742
30°	4482	4683	4626
35°	4235	4489	4497
40°	4029	4246	4358
45°	3799	3990	4194
50°	3556	3759	4016
55°	3280	3498	3798
60°	2954	3192	3533
65°	2608	2837	3213
70°	2173	2417	2730
75°	1707	1930	2138
80°	1221	1358	1506
85°	797	797	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	4.1
10°-20°	253.6	11.4
20°-30°	370.6	16.7
30°-40°	420.7	19.0
40°-50°	406.1	18.3
50°-60°	335.0	15.1
60°-70°	223.1	10.1
70°-80°	99.8	4.5
80°-90°	17.9	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°	714.5	32.2
0°-40°	1135.1	51.2
0°-60°	1876.2	84.6
0°-90°	2217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	958	957	954	948	946	91
15°	902	905	902	898	892	254
25°	802	808	812	806	799	367
35°	645	653	683	687	684	404
45°	499	508	524	548	551	385
55°	350	356	373	393	405	312
65°	205	210	223	239	252	203
75°	82	87	93	97	103	90
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.8	958.8	958.8	958.8	958.8
2.5°	961.4	961.7	959.5	953.6	950.0
5°	957.7	957.3	953.6	948.5	945.5
7.5°	947.0	947.7	946.6	939.3	935.2
10°	936.7	937.1	934.1	928.2	923.4
12.5°	923.4	923.1	919.0	916.1	908.3
15°	902.4	904.6	902.4	898.4	892.1
17.5°	882.2	882.2	883.7	876.7	871.9
20°	859.3	860.4	860.4	854.9	849.4
22.5°	832.8	836.1	837.2	831.3	824.7
25°	801.5	807.8	811.5	805.6	798.6
27.5°	763.6	773.2	784.2	779.8	772.0
30°	721.2	735.2	753.6	749.9	744.4
32.5°	681.1	695.1	720.5	719.0	716.1
35°	644.6	653.4	683.3	687.0	684.4
37.5°	610.0	618.1	646.1	654.5	652.3
40°	573.5	582.3	604.4	619.6	620.3
42.5°	537.4	545.9	563.9	585.7	585.7
45°	499.1	507.6	524.2	548.1	551.0
47.5°	461.5	470.4	486.6	510.5	515.3
50°	424.7	432.8	449.0	472.2	479.6
52.5°	386.4	395.2	411.1	432.4	443.1
55°	349.6	355.5	372.8	393.4	404.8
57.5°	311.2	316.8	336.3	354.0	365.8
60°	274.4	281.4	296.5	314.6	328.2
62.5°	239.1	246.4	259.3	275.2	290.6
65°	204.8	210.3	222.8	238.7	252.3
67.5°	171.6	176.4	189.0	200.0	214.4
70°	138.1	144.4	153.6	164.3	173.5
72.5°	111.2	113.8	121.6	129.3	138.9
75°	82.1	86.6	92.8	97.2	102.8
77.5°	58.9	61.5	65.2	68.9	74.0
80°	39.4	40.5	43.8	44.6	48.6
82.5°	23.9	24.7	25.4	25.8	27.3
85°	12.9	12.9	12.9	12.2	12.2
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)