

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: P555650

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-81-85-EDD-90**

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: P555650
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-LD4-3LO-30-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

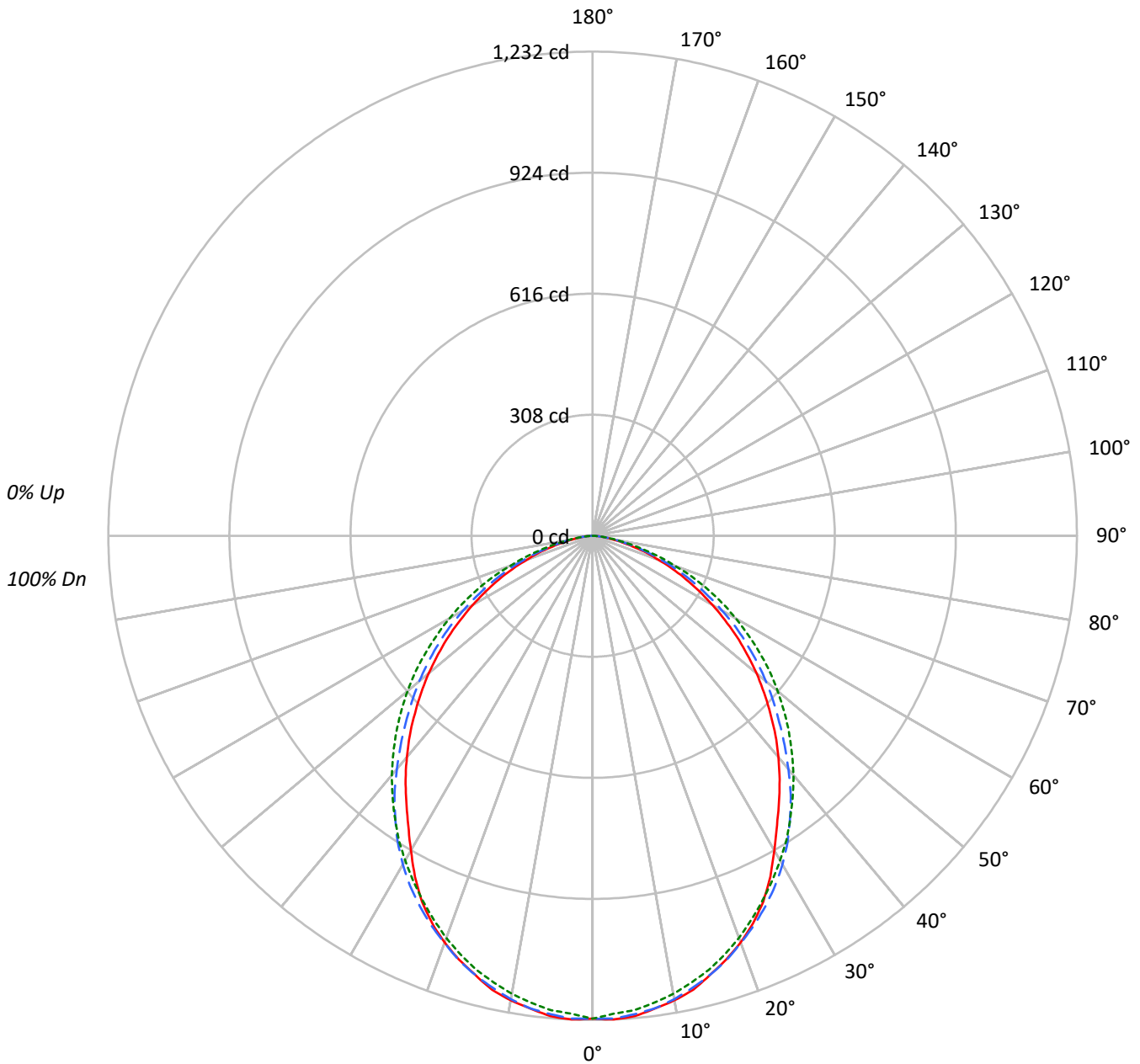
Lumens per Lamp: N/A
Luminaire Lumens: 2841.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	6613	6613	6613
5°	6630	6602	6546
10°	6560	6542	6467
15°	6443	6443	6370
20°	6307	6315	6234
25°	6099	6175	6077
30°	5743	6001	5928
35°	5427	5753	5762
40°	5163	5442	5585
45°	4868	5112	5374
50°	4556	4818	5146
55°	4203	4482	4867
60°	3786	4090	4527
65°	3342	3637	4117
70°	2785	3097	3498
75°	2190	2472	2739
80°	1565	1742	1931
85°	1019	1019	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	4.1
10°-20°	325.0	11.4
20°-30°	474.9	16.7
30°-40°	539.1	19.0
40°-50°	520.4	18.3
50°-60°	429.3	15.1
60°-70°	285.9	10.1
70°-80°	127.9	4.5
80°-90°	22.9	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°	915.6	32.2
0°-40°	1454.6	51.2
0°-60°	2404.3	84.6
0°-90°	2841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1227	1227	1222	1215	1212	116
15°	1156	1159	1156	1151	1143	326
25°	1027	1035	1040	1032	1023	470
35°	826	837	876	880	877	518
45°	640	650	672	702	706	493
55°	448	456	478	504	519	400
65°	262	270	286	306	323	260
75°	105	111	119	125	132	115
85°	16	16	16	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.7	1228.7	1228.7	1228.7	1228.7
2.5°	1232.0	1232.4	1229.6	1222.1	1217.3
5°	1227.2	1226.8	1222.1	1215.4	1211.7
7.5°	1213.6	1214.5	1213.1	1203.6	1198.5
10°	1200.3	1200.8	1197.0	1189.5	1183.3
12.5°	1183.3	1182.9	1177.7	1173.9	1164.0
15°	1156.4	1159.3	1156.4	1151.2	1143.2
17.5°	1130.5	1130.5	1132.4	1123.4	1117.3
20°	1101.2	1102.6	1102.6	1095.6	1088.5
22.5°	1067.2	1071.5	1072.9	1065.3	1056.8
25°	1027.1	1035.1	1039.9	1032.3	1023.3
27.5°	978.5	990.8	1004.9	999.3	989.3
30°	924.2	942.1	965.7	961.0	953.9
32.5°	872.8	890.7	923.3	921.4	917.6
35°	826.0	837.4	875.6	880.3	877.0
37.5°	781.7	792.0	827.9	838.8	835.9
40°	734.9	746.3	774.6	793.9	794.9
42.5°	688.7	699.5	722.7	750.5	750.5
45°	639.6	650.4	671.7	702.4	706.1
47.5°	591.4	602.8	623.5	654.2	660.4
50°	544.2	554.6	575.4	605.1	614.6
52.5°	495.1	506.5	526.8	554.1	567.8
55°	447.9	455.5	477.7	504.1	518.7
57.5°	398.9	405.9	431.0	453.6	468.7
60°	351.7	360.6	380.0	403.1	420.6
62.5°	306.3	315.8	332.3	352.6	372.4
65°	262.4	269.5	285.6	305.9	323.3
67.5°	220.0	226.1	242.1	256.3	274.7
70°	177.0	185.0	196.8	210.5	222.3
72.5°	142.5	145.9	155.8	165.7	178.0
75°	105.3	110.9	118.9	124.6	131.7
77.5°	75.5	78.8	83.5	88.3	94.9
80°	50.5	51.9	56.2	57.1	62.3
82.5°	30.7	31.6	32.6	33.0	34.9
85°	16.5	16.5	16.5	15.6	15.6
87.5°	9.4	9.4	8.0	6.6	4.7
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)