

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: P555848

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-81-88-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: P555848
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-50-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

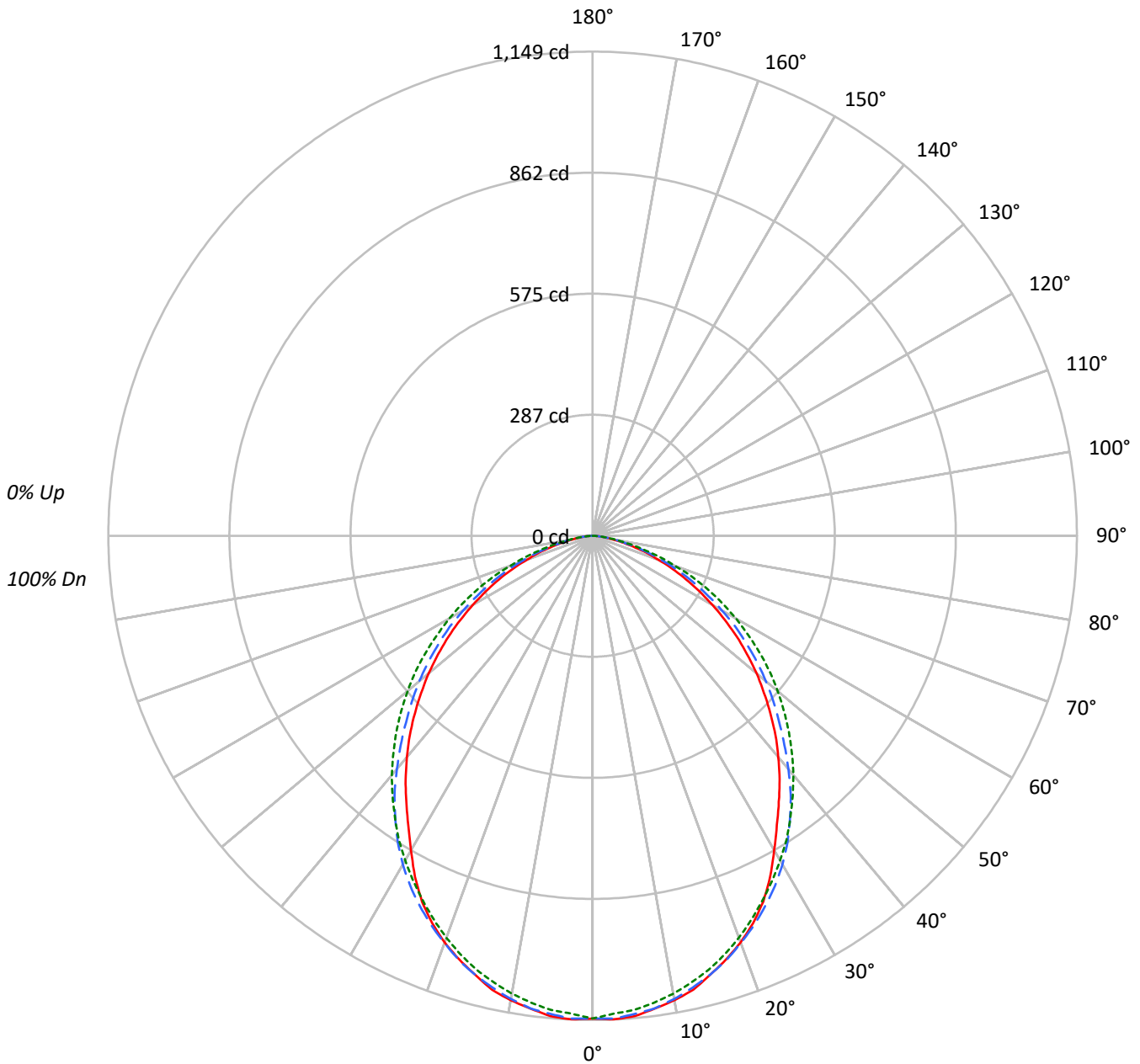
Lumens per Lamp: N/A
Luminaire Lumens: 2649.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6166	6166	6166
5°	6182	6156	6104
10°	6116	6099	6030
15°	6008	6008	5940
20°	5881	5888	5813
25°	5687	5758	5666
30°	5355	5596	5528
35°	5060	5364	5372
40°	4815	5074	5207
45°	4539	4767	5011
50°	4249	4492	4798
55°	3919	4179	4539
60°	3529	3814	4221
65°	3116	3391	3840
70°	2596	2888	3262
75°	2040	2306	2554
80°	1460	1624	1801
85°	951	951	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	4.1
10°-20°	303.0	11.4
20°-30°	442.8	16.7
30°-40°	502.6	19.0
40°-50°	485.2	18.3
50°-60°	400.3	15.1
60°-70°	266.5	10.1
70°-80°	119.3	4.5
80°-90°	21.3	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°	853.7	32.2
0°-40°	1356.3	51.2
0°-60°	2241.8	84.6
0°-90°	2649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1144	1144	1140	1133	1130	108
15°	1078	1081	1078	1073	1066	304
25°	958	965	970	962	954	439
35°	770	781	816	821	818	483
45°	596	606	626	655	658	460
55°	418	425	445	470	484	373
65°	245	251	266	285	302	243
75°	98	103	111	116	123	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1145.6	1145.6	1145.6	1145.6	1145.6
2.5°	1148.7	1149.1	1146.5	1139.5	1135.1
5°	1144.3	1143.9	1139.5	1133.3	1129.8
7.5°	1131.5	1132.4	1131.1	1122.3	1117.5
10°	1119.2	1119.7	1116.1	1109.1	1103.4
12.5°	1103.4	1102.9	1098.1	1094.6	1085.3
15°	1078.3	1080.9	1078.3	1073.4	1066.0
17.5°	1054.1	1054.1	1055.8	1047.5	1041.8
20°	1026.8	1028.1	1028.1	1021.5	1014.9
22.5°	995.1	999.1	1000.4	993.3	985.4
25°	957.7	965.2	969.6	962.5	954.2
27.5°	912.4	923.8	937.0	931.7	922.5
30°	861.7	878.5	900.5	896.1	889.5
32.5°	813.8	830.5	860.9	859.1	855.6
35°	770.2	780.8	816.4	820.8	817.7
37.5°	728.8	738.5	772.0	782.1	779.4
40°	685.3	695.8	722.2	740.3	741.2
42.5°	642.1	652.3	673.8	699.8	699.8
45°	596.4	606.5	626.3	654.9	658.4
47.5°	551.5	562.0	581.4	610.0	615.7
50°	507.5	517.1	536.5	564.2	573.0
52.5°	461.7	472.2	491.2	516.7	529.5
55°	417.7	424.7	445.4	470.0	483.7
57.5°	371.9	378.5	401.8	423.0	437.0
60°	327.9	336.2	354.3	375.9	392.1
62.5°	285.6	294.4	309.8	328.8	347.3
65°	244.7	251.3	266.3	285.2	301.5
67.5°	205.1	210.8	225.8	239.0	256.1
70°	165.0	172.5	183.5	196.3	207.3
72.5°	132.9	136.0	145.2	154.5	165.9
75°	98.1	103.4	110.9	116.2	122.8
77.5°	70.4	73.5	77.9	82.3	88.5
80°	47.1	48.4	52.4	53.3	58.1
82.5°	28.6	29.5	30.4	30.8	32.6
85°	15.4	15.4	15.4	14.5	14.5
87.5°	8.8	8.8	7.5	6.2	4.4
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)