

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: P555668

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-86-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: P555668
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-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

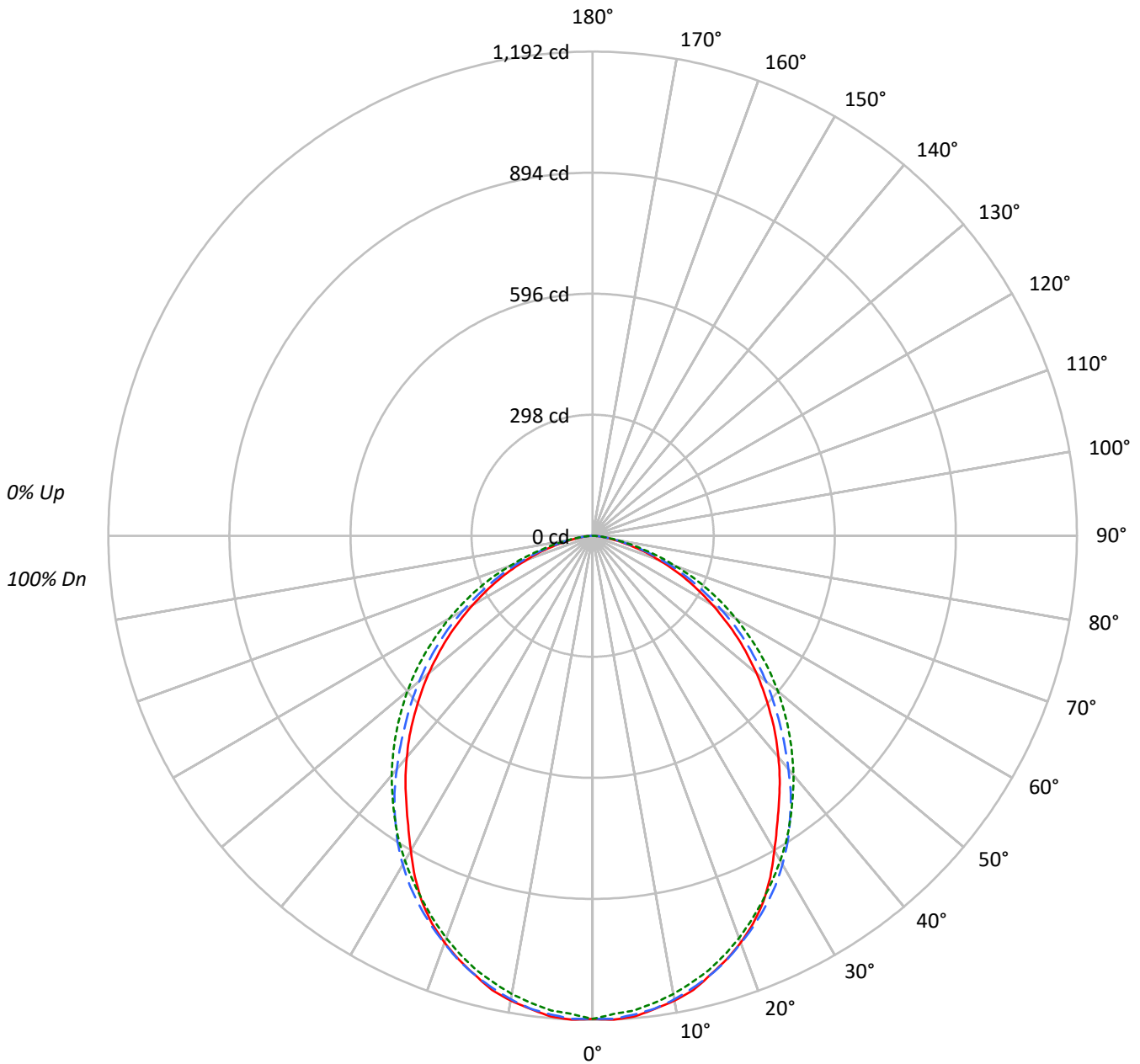
Lumens per Lamp: N/A
Luminaire Lumens: 2750.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6401	6401	6401
5°	6418	6391	6337
10°	6350	6332	6260
15°	6237	6237	6166
20°	6105	6113	6034
25°	5904	5977	5883
30°	5560	5809	5739
35°	5253	5568	5577
40°	4998	5268	5406
45°	4712	4949	5202
50°	4411	4664	4981
55°	4069	4339	4711
60°	3664	3959	4382
65°	3235	3520	3986
70°	2696	2998	3386
75°	2119	2393	2651
80°	1516	1686	1869
85°	988	988	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	4.1
10°-20°	314.6	11.4
20°-30°	459.7	16.7
30°-40°	521.8	19.0
40°-50°	503.7	18.3
50°-60°	415.5	15.1
60°-70°	276.7	10.1
70°-80°	123.8	4.5
80°-90°	22.2	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°	886.2	32.2
0°-40°	1408.1	51.2
0°-60°	2327.3	84.6
0°-90°	2750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1188	1188	1183	1176	1173	112
15°	1119	1122	1119	1114	1107	316
25°	994	1002	1006	999	991	455
35°	800	810	848	852	849	501
45°	619	630	650	680	684	478
55°	434	441	462	488	502	387
65°	254	261	276	296	313	252
75°	102	107	115	121	128	111
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.3	1189.3	1189.3	1189.3	1189.3
2.5°	1192.5	1193.0	1190.2	1182.9	1178.3
5°	1187.9	1187.5	1182.9	1176.5	1172.9
7.5°	1174.7	1175.6	1174.2	1165.1	1160.1
10°	1161.9	1162.3	1158.7	1151.4	1145.4
12.5°	1145.4	1145.0	1140.0	1136.3	1126.7
15°	1119.4	1122.1	1119.4	1114.4	1106.6
17.5°	1094.3	1094.3	1096.1	1087.4	1081.5
20°	1065.9	1067.3	1067.3	1060.5	1053.6
22.5°	1033.0	1037.2	1038.5	1031.2	1023.0
25°	994.2	1002.0	1006.5	999.2	990.6
27.5°	947.1	959.0	972.7	967.3	957.7
30°	894.6	912.0	934.8	930.2	923.4
32.5°	844.8	862.2	893.7	891.9	888.2
35°	799.6	810.5	847.5	852.1	848.9
37.5°	756.6	766.7	801.4	811.9	809.2
40°	711.4	722.4	749.8	768.5	769.4
42.5°	666.6	677.1	699.5	726.5	726.5
45°	619.1	629.6	650.2	679.9	683.5
47.5°	572.5	583.5	603.6	633.3	639.2
50°	526.8	536.9	557.0	585.7	594.9
52.5°	479.3	490.3	509.9	536.4	549.6
55°	433.6	440.9	462.4	488.0	502.1
57.5°	386.1	392.9	417.1	439.1	453.7
60°	340.4	349.1	367.8	390.2	407.1
62.5°	296.5	305.7	321.7	341.3	360.5
65°	254.0	260.9	276.4	296.1	313.0
67.5°	212.9	218.9	234.4	248.1	265.9
70°	171.3	179.1	190.5	203.8	215.2
72.5°	138.0	141.2	150.8	160.4	172.3
75°	101.9	107.4	115.1	120.6	127.5
77.5°	73.1	76.3	80.9	85.4	91.8
80°	48.9	50.3	54.4	55.3	60.3
82.5°	29.7	30.6	31.5	32.0	33.8
85°	16.0	16.0	16.0	15.1	15.1
87.5°	9.1	9.1	7.8	6.4	4.6
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)