

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: P554617

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-80-88-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: P554617  
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-LD4-2HI-30-UNV-80-88-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

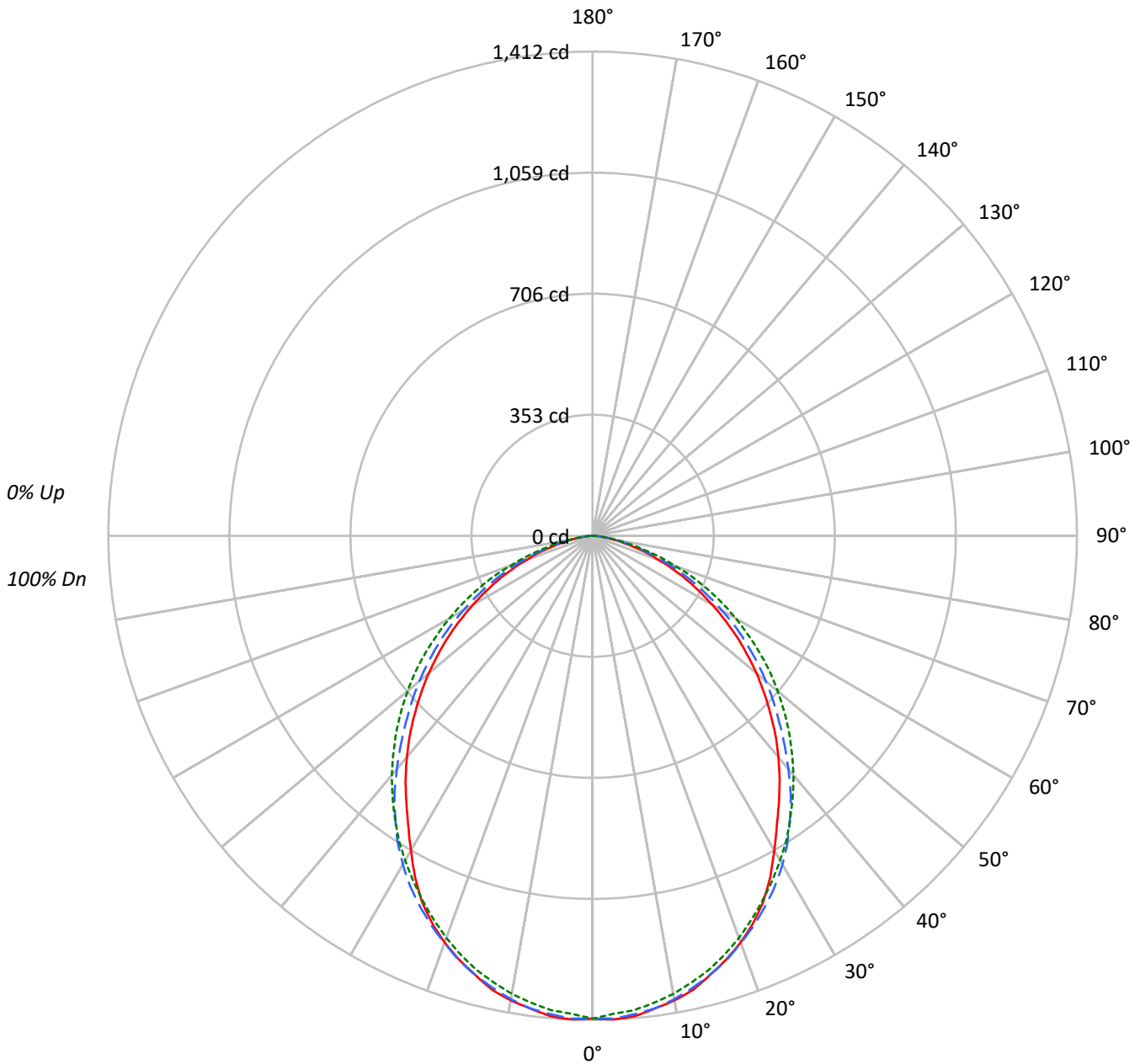
Lumens per Lamp: N/A  
Luminaire Lumens: 3256.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	7578	7578	7578
5°	7599	7567	7502
10°	7518	7497	7412
15°	7385	7385	7300
20°	7229	7238	7145
25°	6990	7077	6964
30°	6582	6878	6794
35°	6220	6593	6604
40°	5918	6237	6400
45°	5579	5859	6160
50°	5222	5521	5897
55°	4817	5137	5578
60°	4338	4688	5188
65°	3831	4168	4720
70°	3193	3550	4009
75°	2508	2834	3138
80°	1795	1996	2213
85°	1167	1167	1105



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.6	4.1
10°-20°	372.5	11.4
20°-30°	544.3	16.7
30°-40°	617.8	19.0
40°-50°	596.4	18.3
50°-60°	492.0	15.1
60°-70°	327.6	10.1
70°-80°	146.6	4.5
80°-90°	26.2	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°	1049.3	32.2
0°-40°	1667.1	51.2
0°-60°	2755.5	84.6
0°-90°	3256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3256.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1406	1406	1401	1393	1389	133
15°	1325	1329	1325	1319	1310	374
25°	1177	1186	1192	1183	1173	539
35°	947	960	1004	1009	1005	593
45°	733	746	770	805	809	566
55°	513	522	548	578	594	458
65°	301	309	327	350	371	298
75°	121	127	136	143	151	132
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1408.1	1408.1	1408.1	1408.1	1408.1
2.5°	1411.9	1412.5	1409.2	1400.6	1395.2
5°	1406.5	1406.0	1400.6	1393.0	1388.7
7.5°	1390.8	1391.9	1390.3	1379.5	1373.5
10°	1375.7	1376.2	1371.9	1363.2	1356.2
12.5°	1356.2	1355.7	1349.7	1345.4	1334.0
15°	1325.4	1328.6	1325.4	1319.4	1310.2
17.5°	1295.6	1295.6	1297.8	1287.5	1280.5
20°	1262.1	1263.7	1263.7	1255.6	1247.5
22.5°	1223.1	1228.0	1229.6	1221.0	1211.2
25°	1177.1	1186.3	1191.7	1183.1	1172.8
27.5°	1121.4	1135.5	1151.7	1145.2	1133.9
30°	1059.2	1079.8	1106.8	1101.4	1093.3
32.5°	1000.2	1020.8	1058.1	1056.0	1051.6
35°	946.7	959.7	1003.5	1008.9	1005.1
37.5°	895.8	907.7	948.9	961.3	958.1
40°	842.3	855.3	887.7	909.9	911.0
42.5°	789.3	801.7	828.2	860.1	860.1
45°	733.0	745.5	769.8	805.0	809.3
47.5°	677.8	690.8	714.6	749.8	756.8
50°	623.7	635.6	659.4	693.5	704.3
52.5°	567.5	580.5	603.7	635.1	650.8
55°	513.4	522.0	547.5	577.8	594.5
57.5°	457.1	465.2	493.9	519.9	537.2
60°	403.0	413.3	435.5	462.0	482.0
62.5°	351.1	361.9	380.8	404.1	426.8
65°	300.8	308.9	327.3	350.5	370.6
67.5°	252.1	259.1	277.5	293.7	314.8
70°	202.9	212.1	225.6	241.3	254.8
72.5°	163.4	167.2	178.5	189.9	203.9
75°	120.6	127.1	136.3	142.8	150.9
77.5°	86.6	90.3	95.8	101.2	108.7
80°	57.9	59.5	64.4	65.5	71.4
82.5°	35.2	36.2	37.3	37.9	40.0
85°	18.9	18.9	18.9	17.9	17.9
87.5°	10.8	10.8	9.2	7.6	5.4
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)