

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: P555896

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-88-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: P555896  
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-LD4-3STD-30-UNV-80-88-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

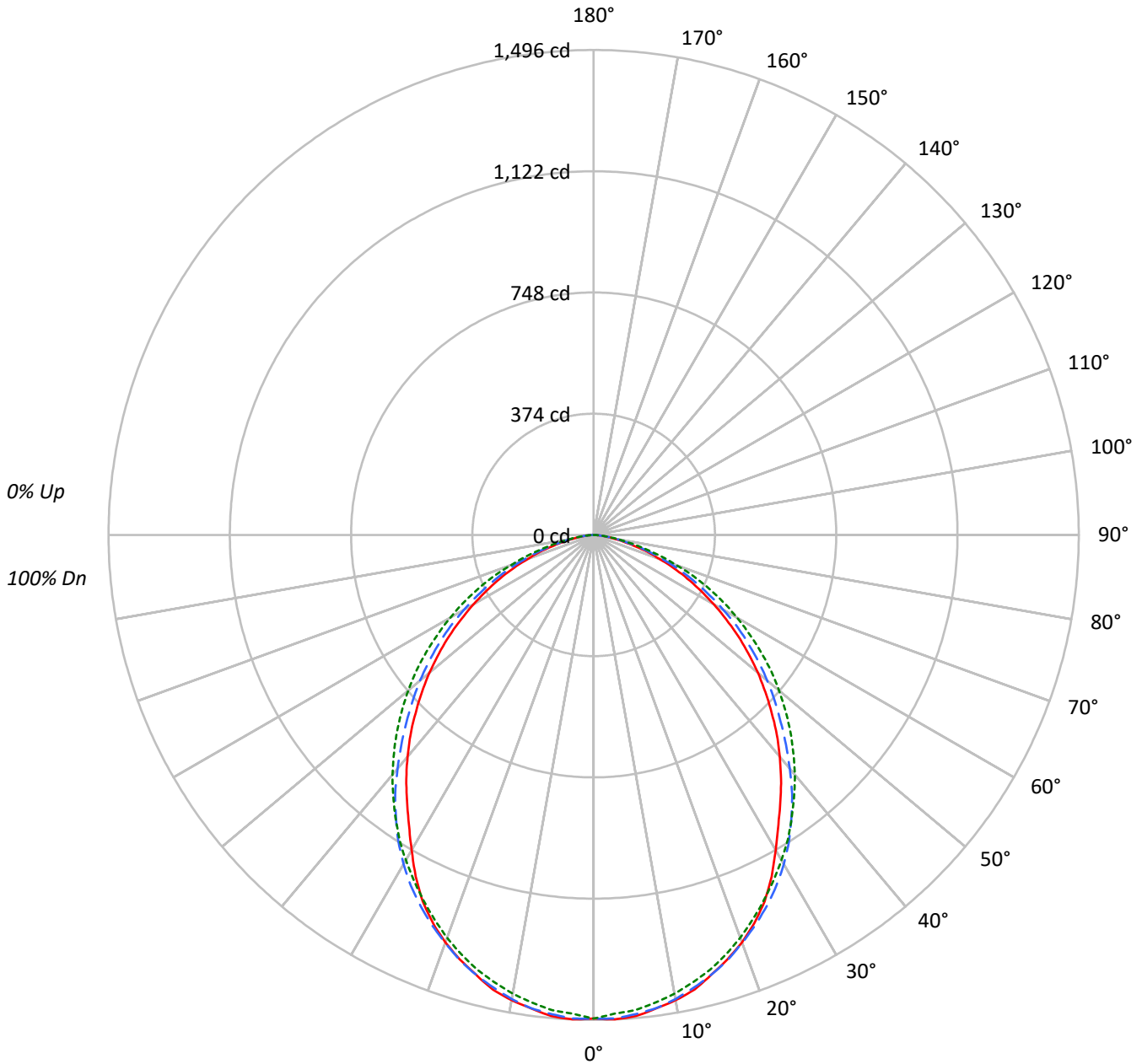
Lumens per Lamp: N/A  
Luminaire Lumens: 3450.0 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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°	8030	8030	8030
5°	8051	8017	7949
10°	7966	7944	7853
15°	7824	7824	7735
20°	7659	7669	7570
25°	7407	7499	7380
30°	6975	7288	7199
35°	6591	6986	6997
40°	6270	6608	6782
45°	5912	6208	6527
50°	5534	5850	6249
55°	5104	5443	5910
60°	4596	4966	5497
65°	4059	4416	5000
70°	3382	3761	4249
75°	2658	3003	3325
80°	1900	2114	2346
85°	1241	1241	1167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.5	4.1
10°-20°	394.6	11.4
20°-30°	576.7	16.7
30°-40°	654.6	19.0
40°-50°	631.9	18.3
50°-60°	521.3	15.1
60°-70°	347.1	10.1
70°-80°	155.3	4.5
80°-90°	27.8	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°	1111.8	32.2
0°-40°	1766.5	51.2
0°-60°	2919.7	84.6
0°-90°	3450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3450.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1490	1490	1484	1476	1471	141
15°	1404	1408	1404	1398	1388	396
25°	1247	1257	1263	1254	1243	571
35°	1003	1017	1063	1069	1065	628
45°	777	790	816	853	858	599
55°	544	553	580	612	630	486
65°	319	327	347	371	393	316
75°	128	135	144	151	160	140
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1492.0	1492.0	1492.0	1492.0	1492.0
2.5°	1496.0	1496.6	1493.2	1484.0	1478.3
5°	1490.3	1489.7	1484.0	1476.0	1471.4
7.5°	1473.7	1474.8	1473.1	1461.7	1455.4
10°	1457.6	1458.2	1453.6	1444.5	1437.0
12.5°	1437.0	1436.4	1430.1	1425.5	1413.5
15°	1404.3	1407.8	1404.3	1398.0	1388.3
17.5°	1372.8	1372.8	1375.1	1364.2	1356.8
20°	1337.3	1339.0	1339.0	1330.4	1321.8
22.5°	1296.0	1301.2	1302.9	1293.7	1283.4
25°	1247.3	1257.0	1262.8	1253.6	1242.7
27.5°	1188.2	1203.1	1220.3	1213.5	1201.4
30°	1122.3	1144.1	1172.8	1167.0	1158.4
32.5°	1059.8	1081.6	1121.2	1118.9	1114.3
35°	1003.1	1016.9	1063.3	1069.0	1065.0
37.5°	949.2	961.8	1005.4	1018.6	1015.1
40°	892.5	906.2	940.6	964.1	965.3
42.5°	836.3	849.5	877.6	911.4	911.4
45°	776.7	789.9	815.7	852.9	857.5
47.5°	718.2	732.0	757.2	794.5	801.9
50°	660.9	673.5	698.7	734.8	746.3
52.5°	601.3	615.0	639.7	672.9	689.6
55°	544.0	553.1	580.1	612.2	629.9
57.5°	484.4	493.0	523.3	550.8	569.2
60°	427.0	437.9	461.4	489.5	510.7
62.5°	372.0	383.5	403.5	428.2	452.3
65°	318.7	327.3	346.8	371.4	392.6
67.5°	267.1	274.6	294.1	311.2	333.6
70°	214.9	224.7	239.0	255.6	270.0
72.5°	173.1	177.1	189.2	201.2	216.1
75°	127.8	134.7	144.4	151.3	159.9
77.5°	91.7	95.7	101.5	107.2	115.2
80°	61.3	63.1	68.2	69.4	75.7
82.5°	37.3	38.4	39.6	40.1	42.4
85°	20.1	20.1	20.1	18.9	18.9
87.5°	11.5	11.5	9.7	8.0	5.7
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)