

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: P554679

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-87-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: P554679  
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-35-UNV-80-87-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

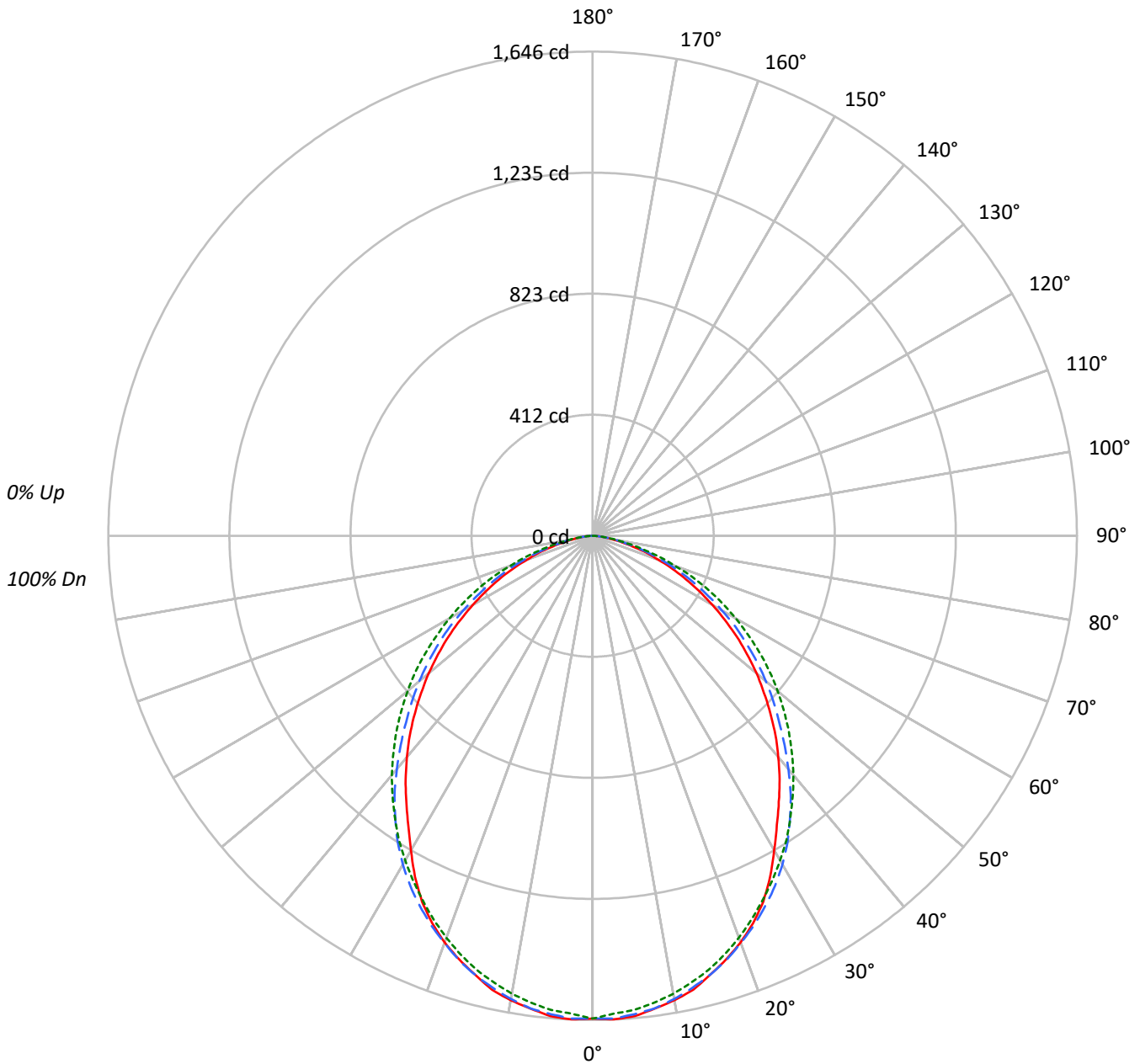
Lumens per Lamp: N/A  
Luminaire Lumens: 3795.0 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	8833	8833	8833
5°	8856	8819	8744
10°	8763	8739	8638
15°	8607	8607	8509
20°	8425	8436	8328
25°	8147	8248	8118
30°	7672	8017	7919
35°	7250	7684	7697
40°	6897	7269	7460
45°	6503	6829	7180
50°	6087	6435	6873
55°	5615	5987	6502
60°	5056	5464	6047
65°	4465	4858	5500
70°	3720	4137	4674
75°	2924	3304	3658
80°	2092	2325	2579
85°	1365	1365	1284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.5	4.1
10°-20°	434.1	11.4
20°-30°	634.4	16.7
30°-40°	720.1	19.0
40°-50°	695.1	18.3
50°-60°	573.4	15.1
60°-70°	381.9	10.1
70°-80°	170.9	4.5
80°-90°	30.6	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°	1223.0	32.2
0°-40°	1943.1	51.2
0°-60°	3211.7	84.6
0°-90°	3795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3795.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1639	1639	1632	1624	1618	155
15°	1545	1549	1545	1538	1527	435
25°	1372	1383	1389	1379	1367	628
35°	1103	1118	1170	1176	1172	691
45°	854	869	897	938	943	659
55°	598	608	638	673	693	534
65°	351	360	382	409	432	348
75°	141	148	159	166	176	154
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1641.2	1641.2	1641.2	1641.2	1641.2
2.5°	1645.7	1646.3	1642.5	1632.4	1626.1
5°	1639.3	1638.7	1632.4	1623.6	1618.5
7.5°	1621.1	1622.3	1620.4	1607.8	1600.9
10°	1603.4	1604.0	1599.0	1588.9	1580.7
12.5°	1580.7	1580.1	1573.1	1568.1	1554.9
15°	1544.8	1548.6	1544.8	1537.8	1527.1
17.5°	1510.1	1510.1	1512.6	1500.6	1492.4
20°	1471.0	1472.9	1472.9	1463.4	1454.0
22.5°	1425.6	1431.3	1433.2	1423.1	1411.7
25°	1372.0	1382.7	1389.0	1378.9	1367.0
27.5°	1307.1	1323.5	1342.4	1334.8	1321.6
30°	1234.6	1258.5	1290.0	1283.7	1274.3
32.5°	1165.8	1189.8	1233.3	1230.8	1225.7
35°	1103.4	1118.5	1169.6	1175.9	1171.5
37.5°	1044.1	1058.0	1105.9	1120.4	1116.6
40°	981.7	996.8	1034.7	1060.5	1061.8
42.5°	919.9	934.4	965.3	1002.5	1002.5
45°	854.4	868.9	897.2	938.2	943.3
47.5°	790.0	805.2	832.9	873.9	882.1
50°	727.0	740.9	768.6	808.3	820.9
52.5°	661.4	676.5	703.7	740.2	758.5
55°	598.4	608.5	638.1	673.4	692.9
57.5°	532.8	542.2	575.7	605.9	626.1
60°	469.7	481.7	507.6	538.5	561.8
62.5°	409.2	421.8	443.9	471.0	497.5
65°	350.6	360.0	381.5	408.6	431.9
67.5°	293.8	302.0	323.5	342.4	367.0
70°	236.4	247.2	262.9	281.2	297.0
72.5°	190.4	194.8	208.1	221.3	237.7
75°	140.6	148.2	158.9	166.5	175.9
77.5°	100.9	105.3	111.6	117.9	126.7
80°	67.5	69.4	75.0	76.3	83.2
82.5°	41.0	42.2	43.5	44.1	46.7
85°	22.1	22.1	22.1	20.8	20.8
87.5°	12.6	12.6	10.7	8.8	6.3
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)