

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: P554812

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-96-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: P554812  
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-50-UNV-80-96-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND  
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND  
5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

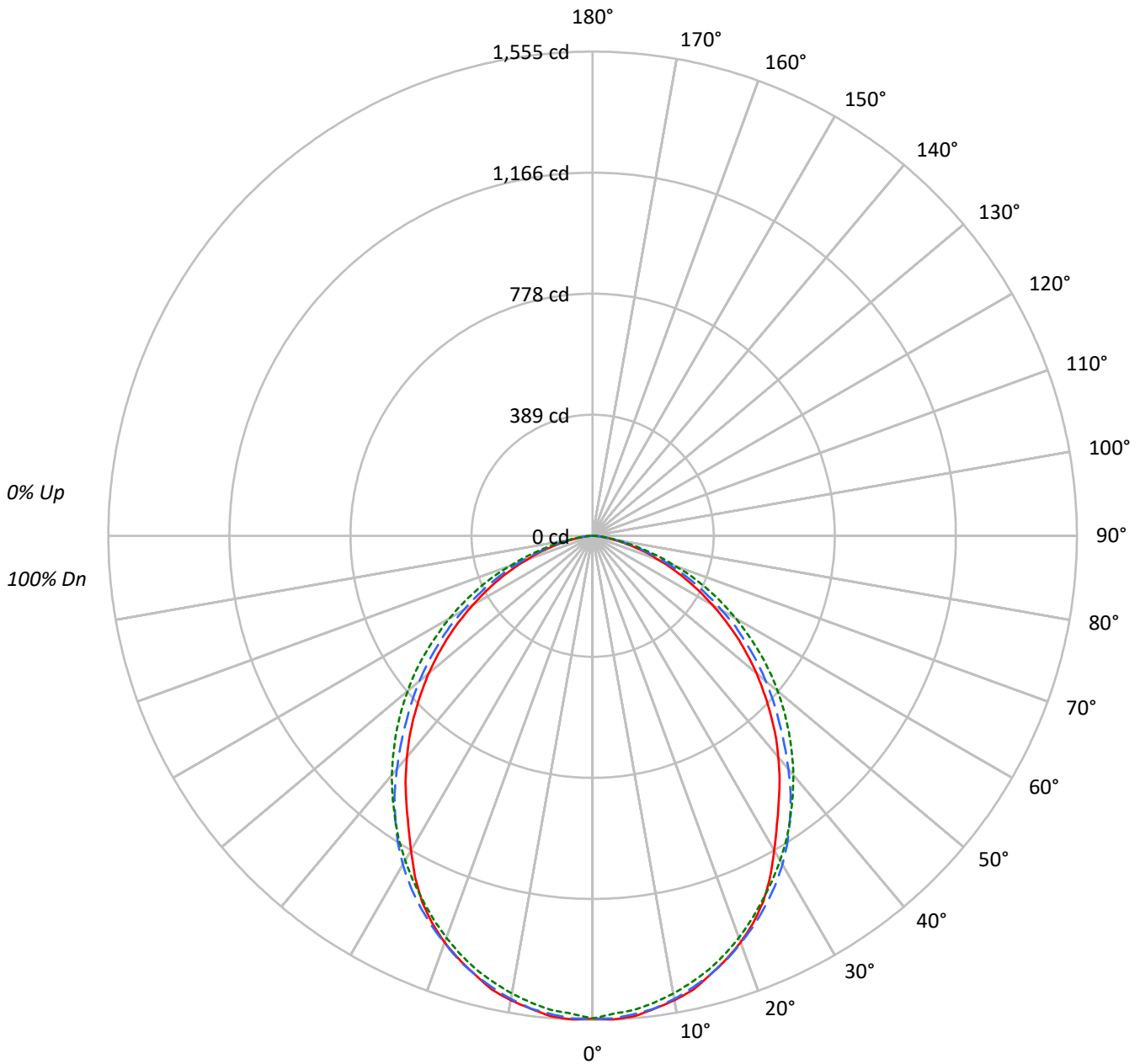
Lumens per Lamp: N/A  
Luminaire Lumens: 3585.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	8344	8344	8344
5°	8366	8331	8260
10°	8278	8255	8160
15°	8131	8131	8038
20°	7959	7969	7867
25°	7697	7792	7668
30°	7247	7574	7481
35°	6848	7259	7271
40°	6516	6867	7047
45°	6143	6451	6782
50°	5750	6080	6493
55°	5304	5656	6142
60°	4776	5161	5712
65°	4218	4590	5196
70°	3515	3909	4414
75°	2761	3121	3456
80°	1974	2197	2436
85°	1284	1284	1216



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.0	4.1
10°-20°	410.1	11.4
20°-30°	599.3	16.7
30°-40°	680.2	19.0
40°-50°	656.7	18.3
50°-60°	541.7	15.1
60°-70°	360.7	10.1
70°-80°	161.4	4.5
80°-90°	28.9	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°	1155.3	32.2
0°-40°	1835.6	51.2
0°-60°	3034.0	84.6
0°-90°	3585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1549	1548	1542	1534	1529	147
15°	1459	1463	1459	1453	1443	411
25°	1296	1306	1312	1303	1291	594
35°	1042	1057	1105	1111	1107	653
45°	807	821	848	886	891	623
55°	565	575	603	636	655	505
65°	331	340	360	386	408	328
75°	133	140	150	157	166	145
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1550.4	1550.4	1550.4	1550.4	1550.4
2.5°	1554.6	1555.2	1551.6	1542.1	1536.1
5°	1548.6	1548.0	1542.1	1533.7	1529.0
7.5°	1531.4	1532.6	1530.8	1518.9	1512.3
10°	1514.7	1515.3	1510.5	1501.0	1493.2
12.5°	1493.2	1492.6	1486.1	1481.3	1468.8
15°	1459.3	1462.9	1459.3	1452.7	1442.6
17.5°	1426.5	1426.5	1428.9	1417.6	1409.9
20°	1389.6	1391.4	1391.4	1382.5	1373.5
22.5°	1346.7	1352.1	1353.9	1344.3	1333.6
25°	1296.1	1306.2	1312.2	1302.6	1291.3
27.5°	1234.7	1250.2	1268.1	1260.9	1248.4
30°	1166.2	1188.9	1218.7	1212.7	1203.8
32.5°	1101.3	1124.0	1165.0	1162.7	1157.9
35°	1042.3	1056.6	1104.9	1110.8	1106.7
37.5°	986.4	999.5	1044.7	1058.4	1054.9
40°	927.4	941.7	977.4	1001.8	1003.0
42.5°	869.0	882.7	911.9	947.0	947.0
45°	807.1	820.8	847.6	886.3	891.1
47.5°	746.3	760.6	786.8	825.5	833.3
50°	686.8	699.9	726.1	763.6	775.5
52.5°	624.8	639.1	664.7	699.3	716.5
55°	565.3	574.8	602.8	636.1	654.6
57.5°	503.3	512.2	543.8	572.4	591.5
60°	443.7	455.1	479.5	508.7	530.7
62.5°	386.6	398.5	419.3	444.9	470.0
65°	331.2	340.1	360.4	386.0	408.0
67.5°	277.6	285.3	305.6	323.4	346.7
70°	223.4	233.5	248.4	265.7	280.5
72.5°	179.9	184.0	196.6	209.1	224.6
75°	132.8	140.0	150.1	157.2	166.2
77.5°	95.3	99.5	105.4	111.4	119.7
80°	63.7	65.5	70.9	72.1	78.6
82.5°	38.7	39.9	41.1	41.7	44.1
85°	20.8	20.8	20.8	19.7	19.7
87.5°	11.9	11.9	10.1	8.3	6.0
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)