

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: P555703

Luminaire Tested: **FUSL-12-2-LD4-3LO-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: P555703  
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-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**

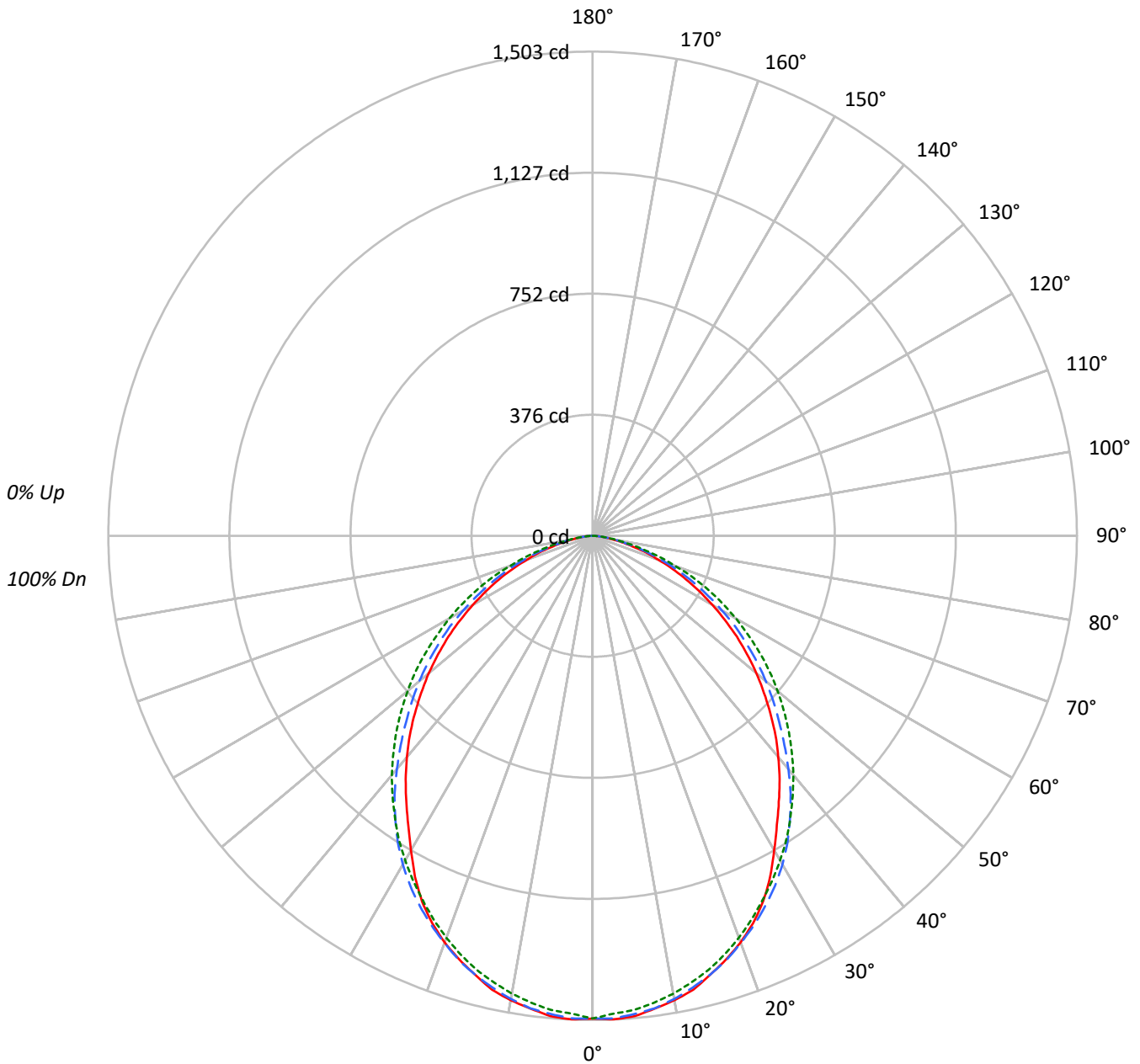
Lumens per Lamp: N/A  
Luminaire Lumens: 3465.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
Input Voltage (V): NR  
Input Current (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°	8065	8065	8065
5°	8086	8052	7984
10°	8001	7979	7888
15°	7858	7858	7769
20°	7692	7702	7603
25°	7439	7531	7412
30°	7005	7320	7231
35°	6619	7016	7027
40°	6298	6637	6811
45°	5938	6235	6555
50°	5558	5876	6275
55°	5126	5467	5937
60°	4617	4988	5521
65°	4076	4436	5021
70°	3397	3778	4268
75°	2670	3017	3340
80°	1909	2123	2356
85°	1241	1241	1173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	4.1
10°-20°	396.4	11.4
20°-30°	579.2	16.7
30°-40°	657.5	19.0
40°-50°	634.7	18.3
50°-60°	523.6	15.1
60°-70°	348.7	10.1
70°-80°	156.0	4.5
80°-90°	27.9	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°	1116.7	32.2
0°-40°	1774.1	51.2
0°-60°	2932.4	84.6
0°-90°	3465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1497	1496	1490	1482	1478	142
15°	1410	1414	1410	1404	1394	398
25°	1253	1262	1268	1259	1248	574
35°	1008	1021	1068	1074	1070	631
45°	780	793	819	857	861	602
55°	546	556	583	615	633	488
65°	320	329	348	373	394	317
75°	128	135	145	152	161	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°	1498.5	1498.5	1498.5	1498.5	1498.5
2.5°	1502.6	1503.1	1499.7	1490.5	1484.7
5°	1496.8	1496.2	1490.5	1482.4	1477.8
7.5°	1480.1	1481.3	1479.5	1468.0	1461.7
10°	1464.0	1464.6	1460.0	1450.7	1443.3
12.5°	1443.3	1442.7	1436.3	1431.7	1419.7
15°	1410.4	1413.9	1410.4	1404.1	1394.3
17.5°	1378.8	1378.8	1381.1	1370.1	1362.7
20°	1343.1	1344.8	1344.8	1336.2	1327.5
22.5°	1301.6	1306.8	1308.5	1299.3	1289.0
25°	1252.7	1262.5	1268.2	1259.0	1248.1
27.5°	1193.4	1208.4	1225.6	1218.7	1206.6
30°	1127.2	1149.1	1177.9	1172.1	1163.5
32.5°	1064.5	1086.3	1126.1	1123.7	1119.1
35°	1007.5	1021.3	1067.9	1073.7	1069.6
37.5°	953.3	966.0	1009.8	1023.0	1019.5
40°	896.4	910.2	944.7	968.3	969.5
42.5°	839.9	853.2	881.4	915.3	915.3
45°	780.1	793.3	819.2	856.6	861.2
47.5°	721.3	735.2	760.5	797.9	805.4
50°	663.8	676.4	701.8	738.0	749.5
52.5°	603.9	617.7	642.5	675.9	692.6
55°	546.3	555.5	582.6	614.8	632.7
57.5°	486.5	495.1	525.6	553.2	571.7
60°	428.9	439.8	463.4	491.6	512.9
62.5°	373.6	385.1	405.3	430.0	454.2
65°	320.1	328.7	348.3	373.0	394.3
67.5°	268.3	275.8	295.3	312.6	335.1
70°	215.9	225.7	240.1	256.8	271.2
72.5°	173.9	177.9	190.0	202.1	217.0
75°	128.4	135.3	145.1	152.0	160.6
77.5°	92.1	96.1	101.9	107.7	115.7
80°	61.6	63.3	68.5	69.7	76.0
82.5°	37.4	38.6	39.7	40.3	42.6
85°	20.1	20.1	20.1	19.0	19.0
87.5°	11.5	11.5	9.8	8.1	5.8
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)