

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: P555749

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-93-86-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: P555749  
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-93-86-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

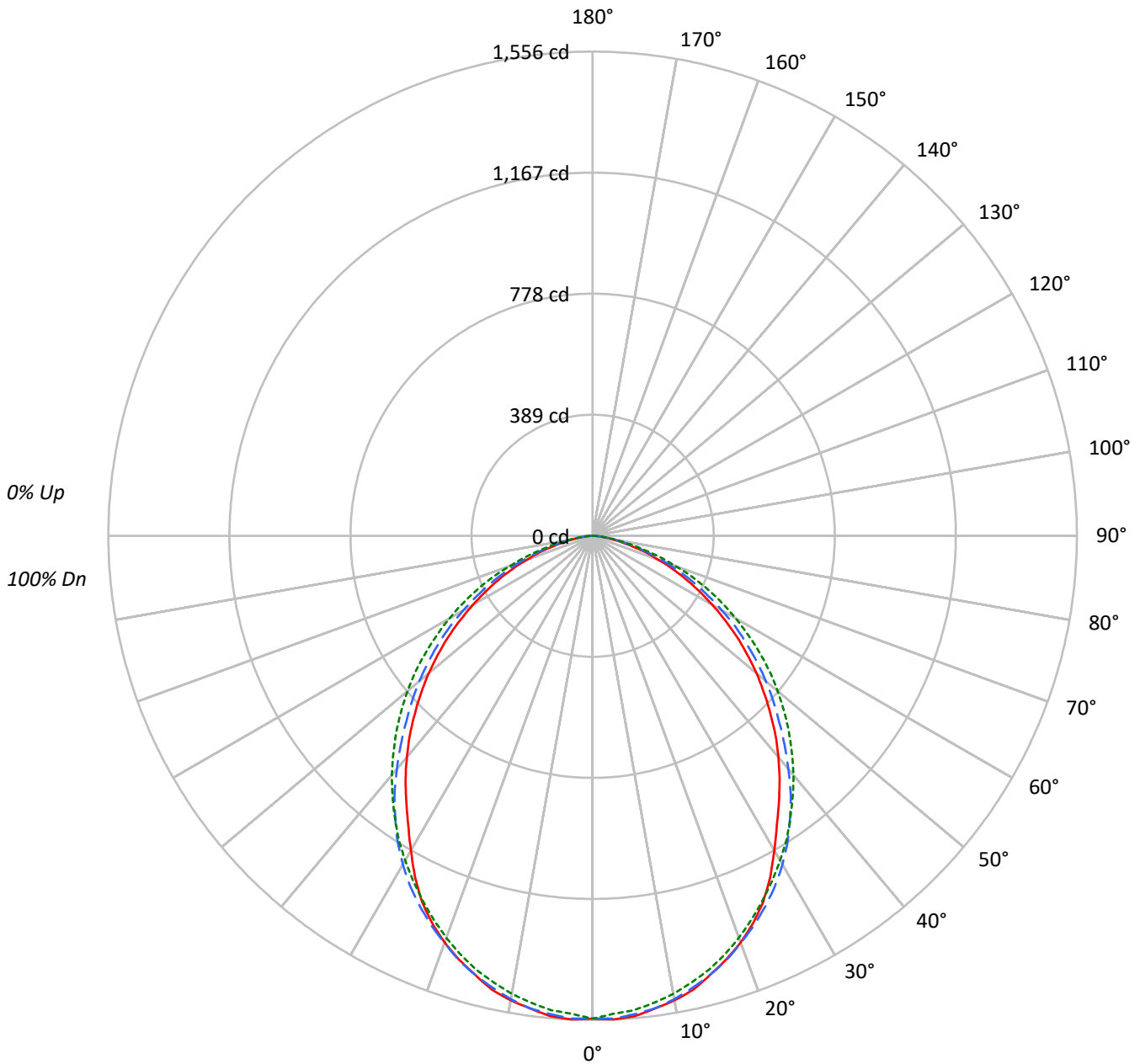
Lumens per Lamp: N/A  
Luminaire Lumens: 3588.0 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	8351	8351	8351
5°	8373	8338	8267
10°	8284	8262	8167
15°	8138	8138	8045
20°	7966	7976	7873
25°	7703	7799	7675
30°	7254	7580	7487
35°	6854	7265	7277
40°	6521	6872	7053
45°	6148	6457	6788
50°	5755	6085	6499
55°	5308	5661	6147
60°	4780	5166	5717
65°	4220	4593	5200
70°	3517	3912	4419
75°	2764	3123	3458
80°	1977	2197	2439
85°	1291	1291	1216



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	4.1
10°-20°	410.4	11.4
20°-30°	599.8	16.7
30°-40°	680.8	19.0
40°-50°	657.2	18.3
50°-60°	542.2	15.1
60°-70°	361.0	10.1
70°-80°	161.6	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°	1156.3	32.2
0°-40°	1837.1	51.2
0°-60°	3036.5	84.6
0°-90°	3588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3588.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1550	1549	1543	1535	1530	147
15°	1460	1464	1460	1454	1444	412
25°	1297	1307	1313	1304	1292	594
35°	1043	1058	1106	1112	1108	654
45°	808	822	848	887	892	623
55°	566	575	603	637	655	505
65°	331	340	361	386	408	329
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°	1551.7	1551.7	1551.7	1551.7	1551.7
2.5°	1555.9	1556.5	1552.9	1543.4	1537.4
5°	1549.9	1549.3	1543.4	1535.0	1530.3
7.5°	1532.6	1533.8	1532.0	1520.1	1513.6
10°	1515.9	1516.5	1511.8	1502.2	1494.5
12.5°	1494.5	1493.9	1487.3	1482.6	1470.0
15°	1460.5	1464.1	1460.5	1454.0	1443.8
17.5°	1427.7	1427.7	1430.1	1418.8	1411.0
20°	1390.8	1392.6	1392.6	1383.6	1374.7
22.5°	1347.8	1353.2	1355.0	1345.5	1334.7
25°	1297.2	1307.3	1313.3	1303.7	1292.4
27.5°	1235.8	1251.3	1269.2	1262.0	1249.5
30°	1167.2	1189.9	1219.7	1213.7	1204.8
32.5°	1102.2	1124.9	1166.0	1163.6	1158.9
35°	1043.2	1057.5	1105.8	1111.8	1107.6
37.5°	987.2	1000.3	1045.6	1059.3	1055.7
40°	928.2	942.5	978.2	1002.7	1003.9
42.5°	869.7	883.5	912.7	947.8	947.8
45°	807.8	821.5	848.3	887.0	891.8
47.5°	746.9	761.3	787.5	826.2	834.0
50°	687.3	700.4	726.7	764.2	776.2
52.5°	625.3	639.6	665.3	699.9	717.1
55°	565.7	575.3	603.3	636.7	655.1
57.5°	503.7	512.7	544.3	572.9	592.0
60°	444.1	455.4	479.9	509.1	531.1
62.5°	386.9	398.8	419.7	445.3	470.3
65°	331.4	340.4	360.7	386.3	408.3
67.5°	277.8	285.5	305.8	323.7	346.9
70°	223.5	233.7	248.6	265.9	280.8
72.5°	180.0	184.2	196.7	209.2	224.7
75°	132.9	140.1	150.2	157.4	166.3
77.5°	95.4	99.6	105.5	111.5	119.8
80°	63.8	65.6	70.9	72.1	78.7
82.5°	38.7	39.9	41.1	41.7	44.1
85°	20.9	20.9	20.9	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)