

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: P555791

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-81-97-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: P555791  
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-40-UNV-81-97-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375  
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

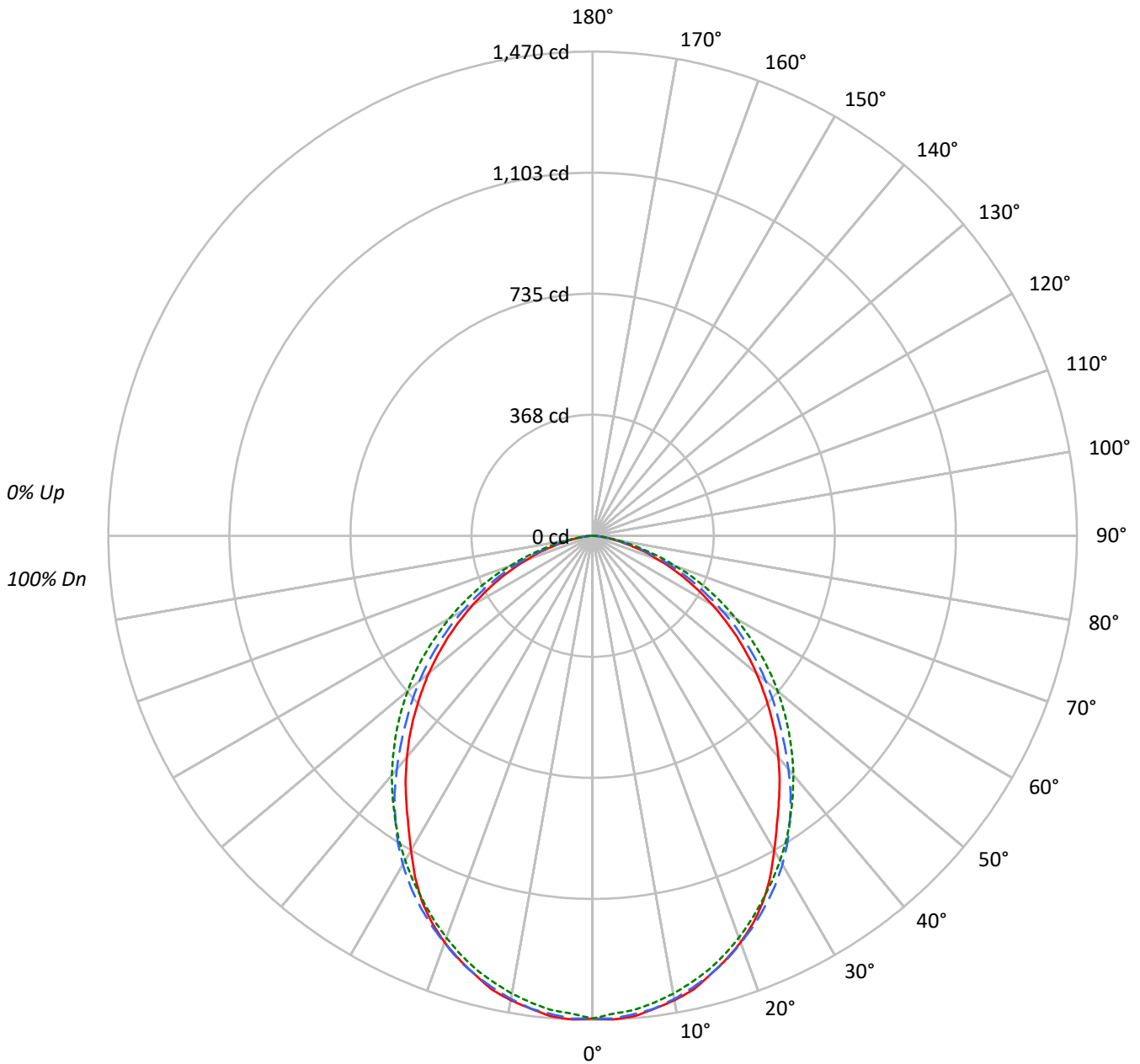
Lumens per Lamp: N/A  
Luminaire Lumens: 3389.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.1  
Input Voltage (V): NR  
Input Current (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°	7888	7888	7888
5°	7909	7876	7809
10°	7825	7803	7714
15°	7686	7686	7598
20°	7523	7533	7436
25°	7276	7366	7249
30°	6852	7159	7072
35°	6474	6863	6874
40°	6159	6492	6662
45°	5807	6098	6411
50°	5436	5747	6138
55°	5013	5347	5806
60°	4515	4879	5400
65°	3987	4339	4912
70°	3322	3695	4173
75°	2612	2951	3267
80°	1866	2077	2303
85°	1216	1216	1149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.0	4.1
10°-20°	387.7	11.4
20°-30°	566.5	16.7
30°-40°	643.1	19.0
40°-50°	620.8	18.3
50°-60°	512.1	15.1
60°-70°	341.0	10.1
70°-80°	152.6	4.5
80°-90°	27.3	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°	1092.2	32.2
0°-40°	1735.2	51.2
0°-60°	2868.1	84.6
0°-90°	3389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3389.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1464	1463	1458	1450	1445	139
15°	1380	1383	1380	1373	1364	389
25°	1225	1235	1240	1231	1221	561
35°	985	999	1044	1050	1046	617
45°	763	776	801	838	842	589
55°	534	543	570	601	619	477
65°	313	322	341	365	386	310
75°	126	132	142	149	157	137
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°	1465.7	1465.7	1465.7	1465.7	1465.7
2.5°	1469.6	1470.2	1466.8	1457.8	1452.1
5°	1464.0	1463.4	1457.8	1449.9	1445.4
7.5°	1447.6	1448.8	1447.1	1435.8	1429.6
10°	1431.9	1432.4	1427.9	1418.9	1411.6
12.5°	1411.6	1411.0	1404.8	1400.3	1388.5
15°	1379.5	1382.9	1379.5	1373.3	1363.7
17.5°	1348.5	1348.5	1350.8	1340.1	1332.8
20°	1313.6	1315.3	1315.3	1306.9	1298.4
22.5°	1273.1	1278.2	1279.8	1270.8	1260.7
25°	1225.2	1234.8	1240.4	1231.4	1220.7
27.5°	1167.2	1181.9	1198.8	1192.0	1180.2
30°	1102.5	1123.9	1152.0	1146.4	1138.0
32.5°	1041.1	1062.5	1101.4	1099.1	1094.6
35°	985.4	998.9	1044.5	1050.1	1046.2
37.5°	932.4	944.8	987.6	1000.6	997.2
40°	876.7	890.2	924.0	947.1	948.2
42.5°	821.5	834.5	862.1	895.3	895.3
45°	763.0	775.9	801.2	837.8	842.3
47.5°	705.5	719.0	743.8	780.4	787.7
50°	649.2	661.6	686.4	721.8	733.1
52.5°	590.7	604.2	628.4	661.0	677.4
55°	534.3	543.4	569.8	601.4	618.8
57.5°	475.8	484.2	514.1	541.1	559.1
60°	419.5	430.2	453.3	480.9	501.7
62.5°	365.4	376.7	396.4	420.6	444.3
65°	313.1	321.5	340.7	364.9	385.7
67.5°	262.4	269.7	288.9	305.7	327.7
70°	211.1	220.7	234.8	251.1	265.2
72.5°	170.0	174.0	185.8	197.6	212.3
75°	125.6	132.3	141.9	148.6	157.1
77.5°	90.1	94.0	99.7	105.3	113.2
80°	60.2	61.9	67.0	68.1	74.3
82.5°	36.6	37.7	38.9	39.4	41.7
85°	19.7	19.7	19.7	18.6	18.6
87.5°	11.3	11.3	9.6	7.9	5.6
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)