

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: P555882

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-93-94-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: P555882  
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-50-UNV-93-94-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

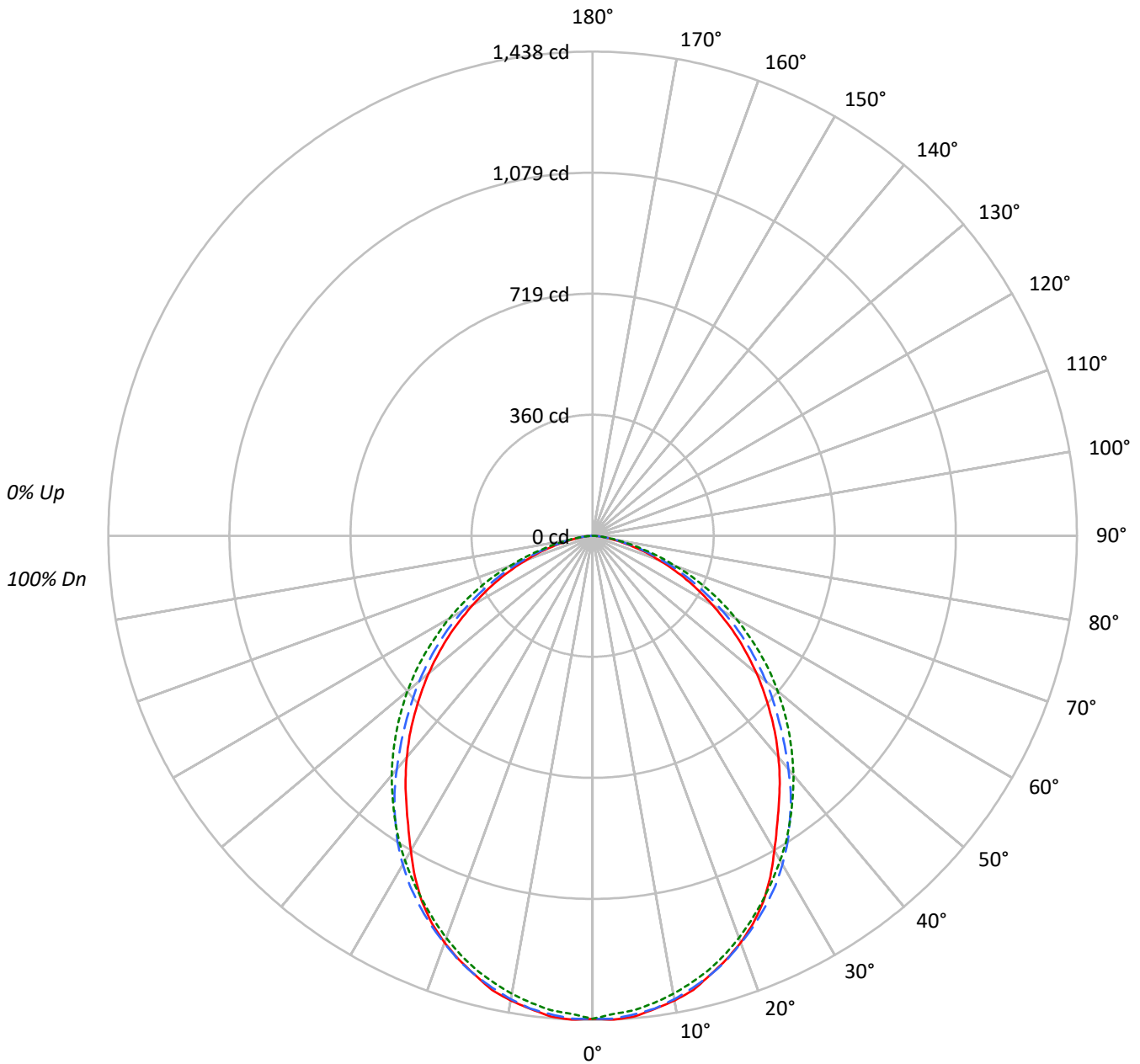
Lumens per Lamp: N/A  
Luminaire Lumens: 3317.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	7720	7720	7720
5°	7741	7708	7643
10°	7659	7638	7550
15°	7523	7523	7437
20°	7364	7373	7278
25°	7121	7210	7095
30°	6706	7008	6922
35°	6336	6717	6727
40°	6029	6354	6521
45°	5683	5969	6275
50°	5320	5625	6008
55°	4907	5233	5683
60°	4420	4775	5285
65°	3902	4246	4807
70°	3253	3616	4085
75°	2556	2888	3198
80°	1829	2033	2253
85°	1192	1192	1124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.1	4.1
10°-20°	379.4	11.4
20°-30°	554.5	16.7
30°-40°	629.4	19.0
40°-50°	607.6	18.3
50°-60°	501.2	15.1
60°-70°	333.8	10.1
70°-80°	149.4	4.5
80°-90°	26.7	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°	1069.0	32.2
0°-40°	1698.4	51.2
0°-60°	2807.2	84.6
0°-90°	3317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3317.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1433	1432	1427	1419	1415	136
15°	1350	1354	1350	1344	1335	381
25°	1199	1209	1214	1205	1195	549
35°	964	978	1022	1028	1024	604
45°	747	759	784	820	824	576
55°	523	532	558	589	606	467
65°	306	315	333	357	378	304
75°	123	130	139	146	154	134
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1434.5	1434.5	1434.5	1434.5	1434.5
2.5°	1438.4	1438.9	1435.6	1426.8	1421.3
5°	1432.9	1432.3	1426.8	1419.1	1414.7
7.5°	1416.9	1418.0	1416.3	1405.3	1399.2
10°	1401.5	1402.0	1397.6	1388.8	1381.6
12.5°	1381.6	1381.1	1375.0	1370.6	1359.0
15°	1350.2	1353.5	1350.2	1344.1	1334.8
17.5°	1319.9	1319.9	1322.1	1311.6	1304.5
20°	1285.7	1287.4	1287.4	1279.1	1270.8
22.5°	1246.0	1251.0	1252.7	1243.8	1233.9
25°	1199.2	1208.6	1214.1	1205.3	1194.8
27.5°	1142.4	1156.8	1173.3	1166.7	1155.1
30°	1079.1	1100.0	1127.6	1122.0	1113.8
32.5°	1019.0	1039.9	1078.0	1075.7	1071.3
35°	964.4	977.7	1022.3	1027.8	1023.9
37.5°	912.6	924.7	966.6	979.3	976.0
40°	858.1	871.3	904.4	927.0	928.1
42.5°	804.1	816.7	843.7	876.3	876.3
45°	746.7	759.4	784.2	820.0	824.4
47.5°	690.5	703.8	728.0	763.8	771.0
50°	635.4	647.5	671.8	706.5	717.5
52.5°	578.1	591.3	615.0	647.0	663.0
55°	523.0	531.8	557.7	588.6	605.7
57.5°	465.7	473.9	503.2	529.6	547.2
60°	410.6	421.0	443.6	470.6	491.0
62.5°	357.7	368.7	388.0	411.7	434.8
65°	306.4	314.7	333.4	357.1	377.5
67.5°	256.8	264.0	282.7	299.2	320.7
70°	206.7	216.0	229.8	245.8	259.6
72.5°	166.4	170.3	181.9	193.4	207.8
75°	122.9	129.5	138.9	145.5	153.8
77.5°	88.2	92.0	97.5	103.1	110.8
80°	59.0	60.6	65.6	66.7	72.7
82.5°	35.8	36.9	38.0	38.6	40.8
85°	19.3	19.3	19.3	18.2	18.2
87.5°	11.0	11.0	9.4	7.7	5.5
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)