

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: P555750

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-93-87-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: P555750  
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-93-87-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE  
AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

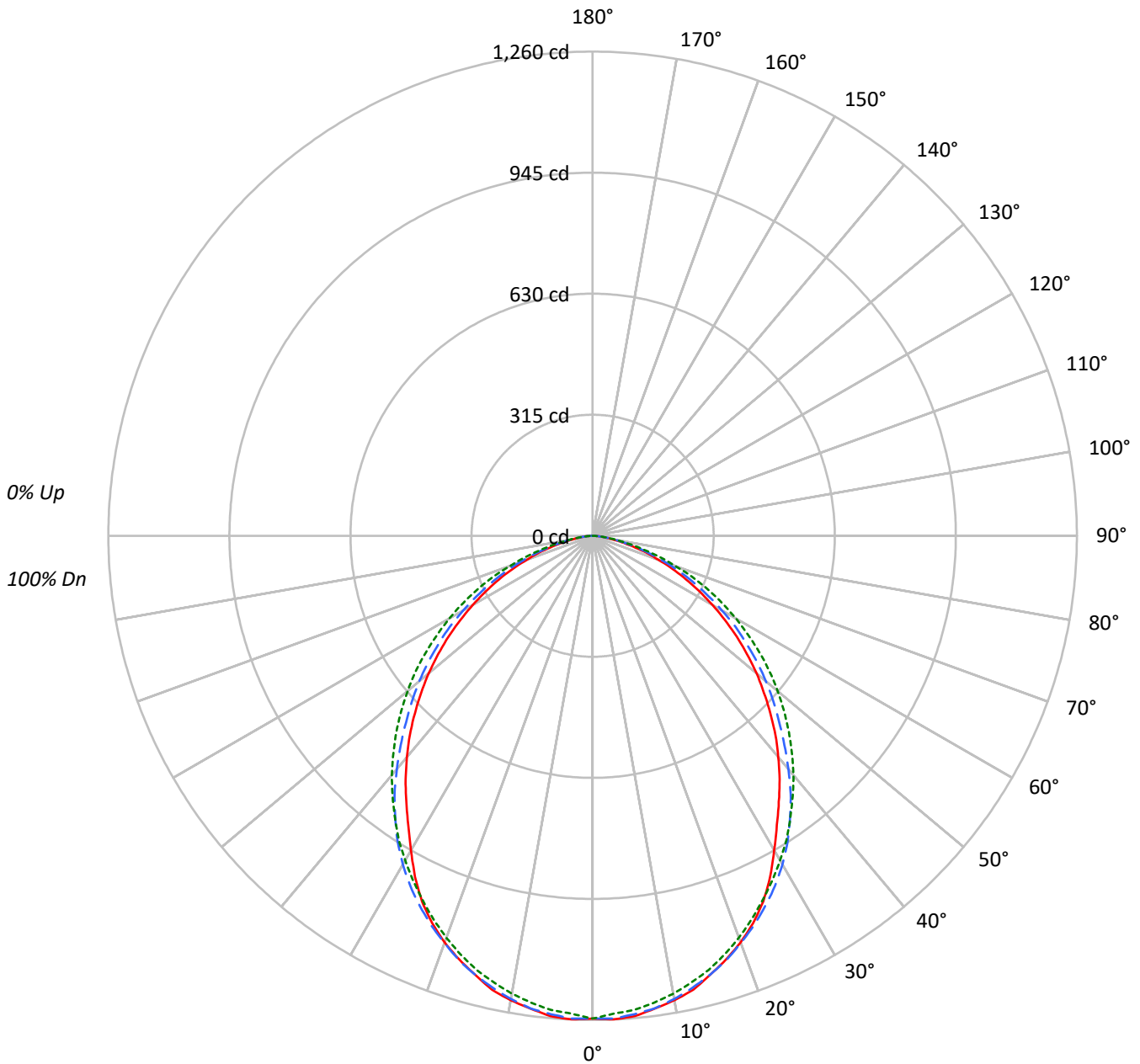
Lumens per Lamp: N/A  
Luminaire Lumens: 2905.0 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	6761	6761	6761
5°	6780	6751	6694
10°	6708	6689	6613
15°	6589	6589	6513
20°	6449	6458	6375
25°	6236	6314	6214
30°	5873	6137	6062
35°	5549	5882	5892
40°	5280	5564	5710
45°	4978	5227	5495
50°	4659	4927	5261
55°	4297	4583	4977
60°	3871	4182	4628
65°	3418	3719	4210
70°	2848	3168	3577
75°	2237	2529	2801
80°	1599	1779	1974
85°	1044	1044	982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	4.1
10°-20°	332.3	11.4
20°-30°	485.6	16.7
30°-40°	551.2	19.0
40°-50°	532.1	18.3
50°-60°	439.0	15.1
60°-70°	292.3	10.1
70°-80°	130.8	4.5
80°-90°	23.4	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°	936.2	32.2
0°-40°	1487.4	51.2
0°-60°	2458.5	84.6
0°-90°	2905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1255	1254	1250	1243	1239	119
15°	1182	1185	1182	1177	1169	333
25°	1050	1058	1063	1056	1046	481
35°	845	856	895	900	897	529
45°	654	665	687	718	722	505
55°	458	466	488	516	530	409
65°	268	276	292	313	331	266
75°	108	113	122	127	135	118
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1256.3	1256.3	1256.3	1256.3	1256.3
2.5°	1259.7	1260.2	1257.3	1249.6	1244.8
5°	1254.9	1254.4	1249.6	1242.8	1239.0
7.5°	1240.9	1241.9	1240.4	1230.8	1225.4
10°	1227.4	1227.9	1224.0	1216.3	1210.0
12.5°	1210.0	1209.5	1204.2	1200.4	1190.2
15°	1182.5	1185.4	1182.5	1177.2	1169.0
17.5°	1155.9	1155.9	1157.9	1148.7	1142.4
20°	1126.0	1127.5	1127.5	1120.2	1113.0
22.5°	1091.3	1095.6	1097.1	1089.3	1080.7
25°	1050.2	1058.5	1063.3	1055.6	1046.4
27.5°	1000.5	1013.1	1027.6	1021.8	1011.6
30°	945.0	963.4	987.5	982.7	975.4
32.5°	892.4	910.8	944.1	942.1	938.3
35°	844.6	856.2	895.3	900.1	896.8
37.5°	799.3	809.9	846.6	857.7	854.8
40°	751.5	763.1	792.0	811.8	812.8
42.5°	704.2	715.3	738.9	767.4	767.4
45°	654.0	665.1	686.8	718.2	722.0
47.5°	604.8	616.3	637.6	669.0	675.2
50°	556.5	567.1	588.4	618.8	628.4
52.5°	506.3	517.9	538.6	566.6	580.6
55°	458.0	465.8	488.4	515.5	530.4
57.5°	407.8	415.1	440.7	463.8	479.3
60°	359.6	368.7	388.5	412.2	430.0
62.5°	313.2	322.9	339.8	360.5	380.8
65°	268.4	275.6	292.0	312.8	330.6
67.5°	224.9	231.2	247.6	262.1	280.9
70°	181.0	189.2	201.3	215.3	227.3
72.5°	145.8	149.1	159.3	169.4	182.0
75°	107.6	113.4	121.6	127.4	134.7
77.5°	77.2	80.6	85.4	90.3	97.0
80°	51.6	53.1	57.4	58.4	63.7
82.5°	31.4	32.3	33.3	33.8	35.7
85°	16.9	16.9	16.9	15.9	15.9
87.5°	9.7	9.7	8.2	6.8	4.8
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)