

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: P554671

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-93-97-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: P554671  
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-LD4-2HI-30-UNV-93-97-EDD  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

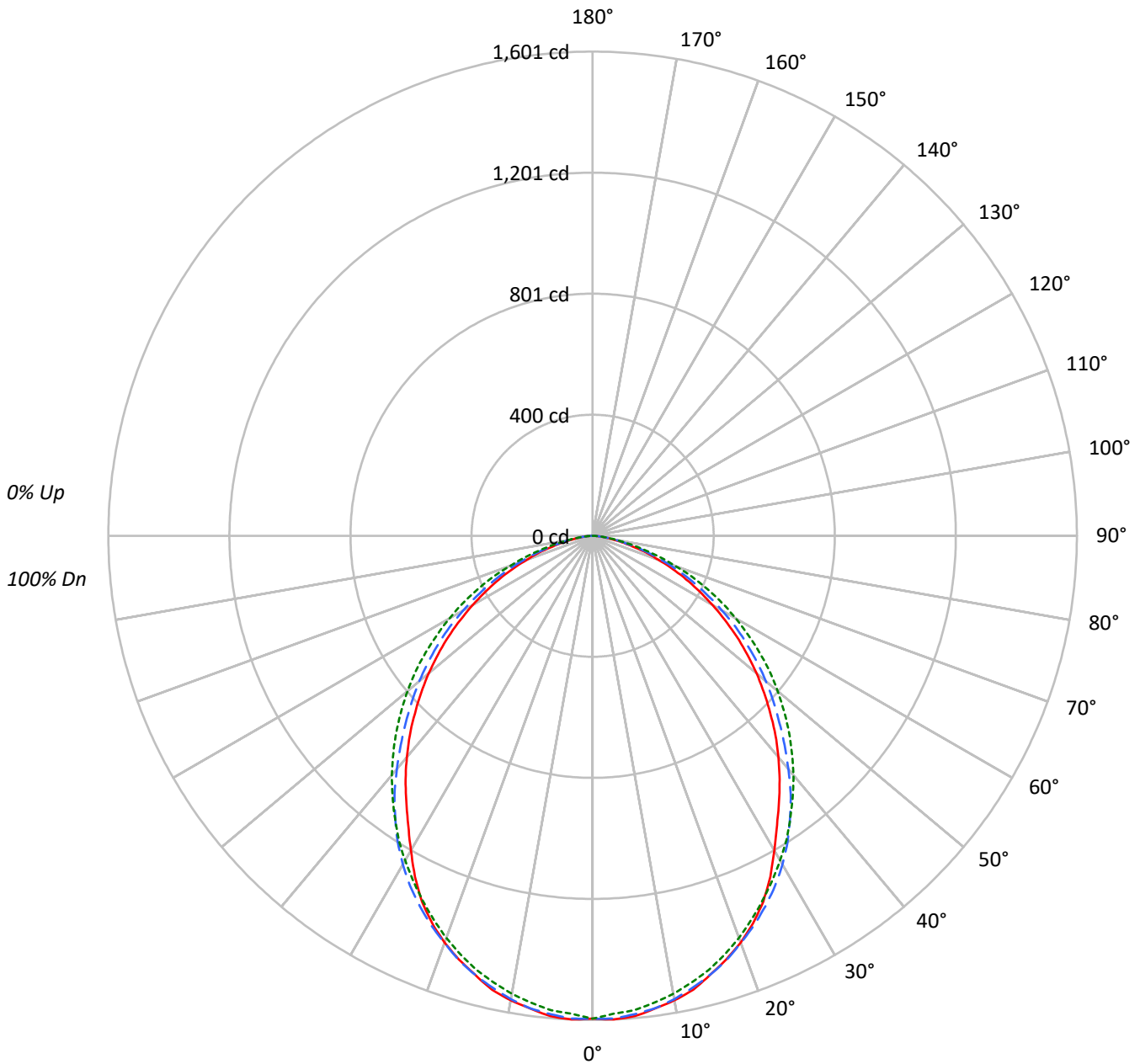
Lumens per Lamp: N/A  
Luminaire Lumens: 3692.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	8593	8593	8593
5°	8616	8580	8507
10°	8525	8501	8404
15°	8373	8373	8278
20°	8196	8207	8101
25°	7926	8024	7897
30°	7464	7799	7704
35°	7053	7476	7488
40°	6710	7072	7257
45°	6326	6644	6985
50°	5922	6260	6687
55°	5462	5825	6325
60°	4919	5315	5882
65°	4344	4726	5351
70°	3619	4025	4546
75°	2845	3215	3558
80°	2033	2263	2510
85°	1328	1328	1247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.3	4.1
10°-20°	422.3	11.4
20°-30°	617.2	16.7
30°-40°	700.5	19.0
40°-50°	676.3	18.3
50°-60°	557.9	15.1
60°-70°	371.5	10.1
70°-80°	166.2	4.5
80°-90°	29.7	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°	1189.8	32.2
0°-40°	1890.4	51.2
0°-60°	3124.5	84.6
0°-90°	3692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3692.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1595	1594	1588	1580	1575	151
15°	1503	1506	1503	1496	1486	424
25°	1335	1345	1351	1342	1330	611
35°	1074	1088	1138	1144	1140	673
45°	831	845	873	913	918	641
55°	582	592	621	655	674	520
65°	341	350	371	398	420	338
75°	137	144	155	162	171	150
85°	22	22	22	20	20	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1601.0	1601.6	1597.9	1588.1	1582.0
5°	1594.9	1594.2	1588.1	1579.5	1574.6
7.5°	1577.1	1578.3	1576.5	1564.2	1557.4
10°	1559.9	1560.5	1555.6	1545.8	1537.8
12.5°	1537.8	1537.2	1530.4	1525.5	1512.7
15°	1502.8	1506.5	1502.8	1496.1	1485.7
17.5°	1469.1	1469.1	1471.6	1459.9	1451.9
20°	1431.1	1432.9	1432.9	1423.7	1414.5
22.5°	1386.9	1392.4	1394.3	1384.5	1373.4
25°	1334.8	1345.2	1351.3	1341.5	1329.9
27.5°	1271.6	1287.5	1305.9	1298.6	1285.7
30°	1201.0	1224.4	1255.0	1248.9	1239.7
32.5°	1134.2	1157.5	1199.8	1197.4	1192.5
35°	1073.5	1088.2	1137.9	1144.0	1139.7
37.5°	1015.8	1029.3	1075.9	1090.0	1086.3
40°	955.1	969.8	1006.6	1031.7	1033.0
42.5°	895.0	909.1	939.1	975.3	975.3
45°	831.2	845.3	872.9	912.7	917.7
47.5°	768.6	783.3	810.3	850.2	858.2
50°	707.3	720.8	747.7	786.4	798.7
52.5°	643.5	658.2	684.6	720.1	737.9
55°	582.1	591.9	620.8	655.1	674.1
57.5°	518.3	527.5	560.0	589.5	609.1
60°	457.0	468.6	493.8	523.8	546.5
62.5°	398.1	410.4	431.8	458.2	484.0
65°	341.1	350.3	371.1	397.5	420.2
67.5°	285.8	293.8	314.7	333.1	357.0
70°	230.0	240.5	255.8	273.6	288.9
72.5°	185.2	189.5	202.4	215.3	231.3
75°	136.8	144.2	154.6	161.9	171.1
77.5°	98.1	102.4	108.6	114.7	123.3
80°	65.6	67.5	73.0	74.2	81.0
82.5°	39.9	41.1	42.3	42.9	45.4
85°	21.5	21.5	21.5	20.2	20.2
87.5°	12.3	12.3	10.4	8.6	6.1
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)