

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: P555693

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-93-96-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: P555693
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-30-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

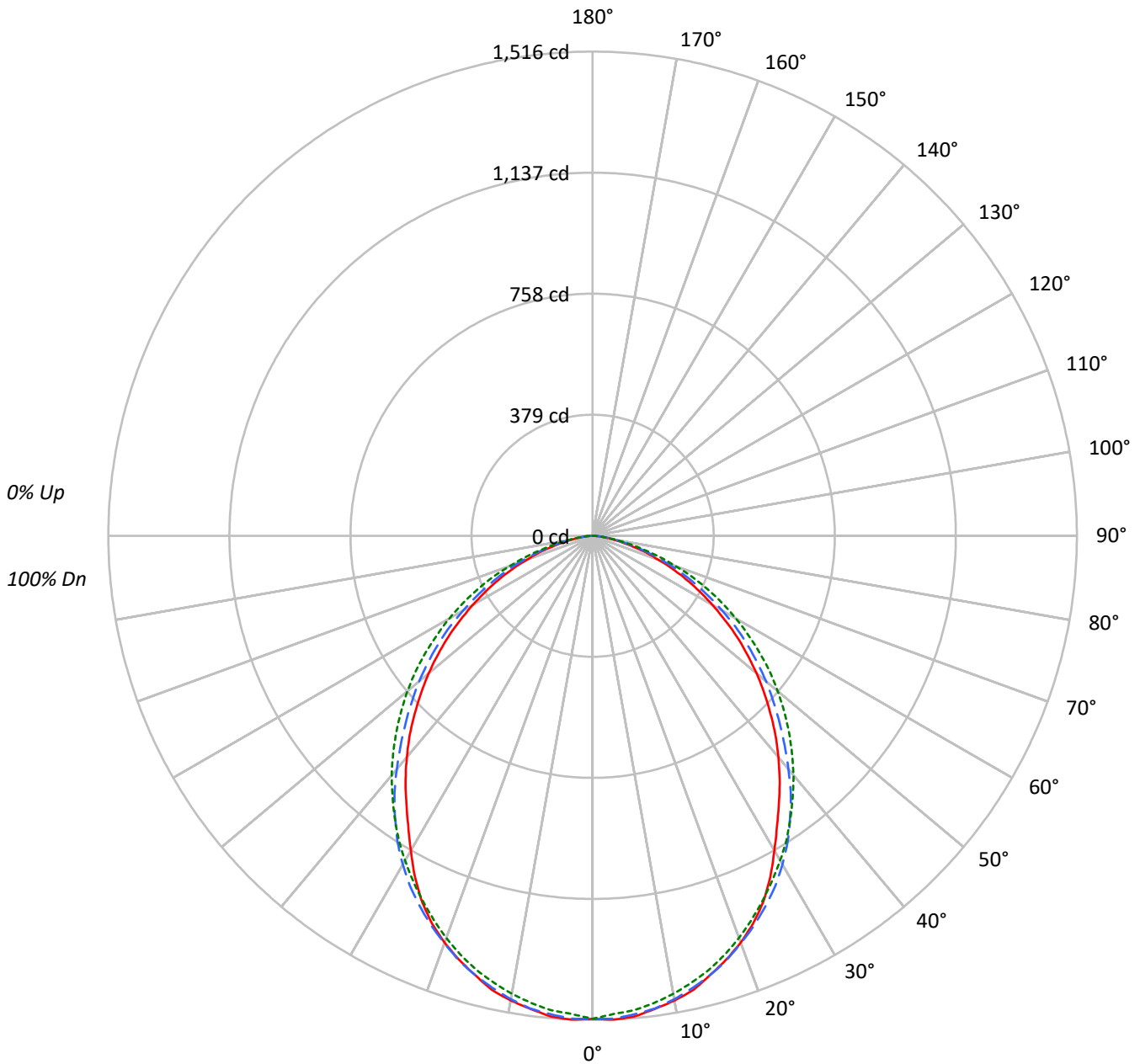
Lumens per Lamp: N/A
Luminaire Lumens: 3497.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (A_{in}): 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°	8140	8140	8140
5°	8161	8126	8057
10°	8075	8052	7960
15°	7931	7931	7841
20°	7763	7773	7674
25°	7508	7601	7480
30°	7070	7387	7297
35°	6681	7081	7092
40°	6355	6698	6874
45°	5992	6293	6616
50°	5609	5930	6334
55°	5174	5517	5991
60°	4660	5034	5572
65°	4113	4476	5068
70°	3429	3813	4307
75°	2695	3044	3371
80°	1928	2142	2377
85°	1254	1254	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	4.1
10°-20°	400.0	11.4
20°-30°	584.6	16.7
30°-40°	663.6	19.0
40°-50°	640.5	18.3
50°-60°	528.4	15.1
60°-70°	351.9	10.1
70°-80°	157.4	4.5
80°-90°	28.2	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°	1127.0	32.2
0°-40°	1790.5	51.2
0°-60°	2959.5	84.6
0°-90°	3497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1511	1510	1504	1496	1491	143
15°	1424	1427	1424	1417	1407	401
25°	1264	1274	1280	1271	1260	579
35°	1017	1031	1078	1084	1080	637
45°	787	801	827	864	869	607
55°	551	561	588	620	638	492
65°	323	332	352	376	398	320
75°	130	136	146	153	162	142
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°	1512.4	1512.4	1512.4	1512.4	1512.4
2.5°	1516.4	1517.0	1513.5	1504.2	1498.4
5°	1510.6	1510.0	1504.2	1496.1	1491.4
7.5°	1493.8	1494.9	1493.2	1481.6	1475.2
10°	1477.5	1478.1	1473.4	1464.1	1456.6
12.5°	1456.6	1456.0	1449.6	1445.0	1432.8
15°	1423.5	1427.0	1423.5	1417.1	1407.2
17.5°	1391.5	1391.5	1393.8	1382.8	1375.2
20°	1355.5	1357.2	1357.2	1348.5	1339.8
22.5°	1313.7	1318.9	1320.6	1311.3	1300.9
25°	1264.3	1274.1	1280.0	1270.7	1259.6
27.5°	1204.4	1219.5	1237.0	1230.0	1217.8
30°	1137.6	1159.7	1188.7	1182.9	1174.2
32.5°	1074.3	1096.4	1136.5	1134.1	1129.5
35°	1016.8	1030.7	1077.8	1083.6	1079.5
37.5°	962.1	974.9	1019.1	1032.5	1029.0
40°	904.6	918.6	953.4	977.3	978.4
42.5°	847.7	861.1	889.5	923.8	923.8
45°	787.3	800.6	826.8	864.5	869.2
47.5°	728.0	741.9	767.5	805.3	812.8
50°	669.9	682.7	708.2	744.9	756.5
52.5°	609.5	623.4	648.4	682.1	699.0
55°	551.4	560.7	588.0	620.5	638.5
57.5°	491.0	499.7	530.5	558.3	576.9
60°	432.9	443.9	467.7	496.2	517.7
62.5°	377.1	388.7	409.0	434.0	458.4
65°	323.0	331.8	351.5	376.5	398.0
67.5°	270.7	278.3	298.1	315.5	338.1
70°	217.9	227.8	242.3	259.1	273.7
72.5°	175.5	179.5	191.7	203.9	219.0
75°	129.6	136.5	146.4	153.4	162.1
77.5°	93.0	97.0	102.8	108.6	116.8
80°	62.2	63.9	69.1	70.3	76.7
82.5°	37.8	38.9	40.1	40.7	43.0
85°	20.3	20.3	20.3	19.2	19.2
87.5°	11.6	11.6	9.9	8.1	5.8
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)