

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: P555940

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-93-86-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: P555940
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-LD4-3STD-30-UNV-93-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

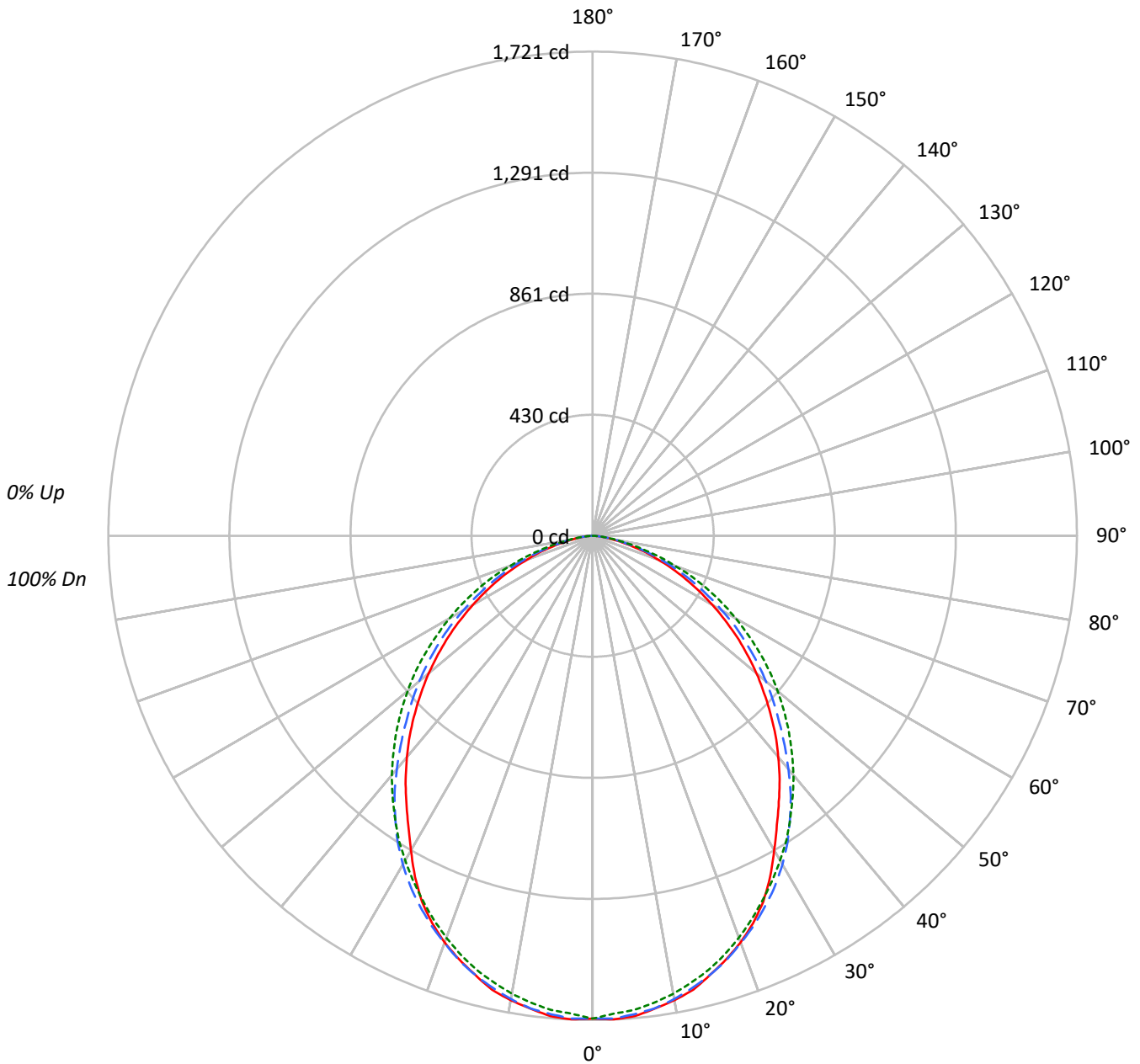
Lumens per Lamp: N/A
Luminaire Lumens: 3968.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	9236	9236	9236
5°	9260	9221	9143
10°	9162	9137	9033
15°	9000	9000	8897
20°	8809	8820	8707
25°	8519	8625	8488
30°	8022	8382	8280
35°	7580	8035	8048
40°	7212	7600	7800
45°	6799	7140	7507
50°	6364	6728	7187
55°	5870	6260	6798
60°	5286	5712	6323
65°	4667	5080	5751
70°	3890	4326	4886
75°	3057	3454	3824
80°	2185	2433	2696
85°	1426	1426	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	4.1
10°-20°	453.9	11.4
20°-30°	663.3	16.7
30°-40°	752.9	19.0
40°-50°	726.8	18.3
50°-60°	599.6	15.1
60°-70°	399.3	10.1
70°-80°	178.7	4.5
80°-90°	32.0	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°	1278.8	32.2
0°-40°	2031.7	51.2
0°-60°	3358.1	84.6
0°-90°	3968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1716	1716	1716	1716	1716	
5°	1714	1713	1707	1698	1692	162
15°	1615	1619	1615	1608	1597	455
25°	1435	1446	1452	1442	1429	657
35°	1154	1170	1223	1230	1225	723
45°	893	908	938	981	986	689
55°	626	636	667	704	724	558
65°	366	376	399	427	452	363
75°	147	155	166	174	184	161
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1716.1	1716.1	1716.1	1716.1	1716.1
2.5°	1720.7	1721.3	1717.4	1706.8	1700.2
5°	1714.1	1713.4	1706.8	1697.6	1692.3
7.5°	1695.0	1696.3	1694.3	1681.1	1673.9
10°	1676.5	1677.2	1671.9	1661.3	1652.8
12.5°	1652.8	1652.1	1644.9	1639.6	1625.7
15°	1615.2	1619.1	1615.2	1607.9	1596.7
17.5°	1578.9	1578.9	1581.6	1569.0	1560.5
20°	1538.1	1540.0	1540.0	1530.1	1520.3
22.5°	1490.6	1496.5	1498.5	1488.0	1476.1
25°	1434.6	1445.8	1452.4	1441.8	1429.3
27.5°	1366.6	1383.8	1403.6	1395.7	1381.8
30°	1290.8	1315.9	1348.8	1342.3	1332.4
32.5°	1219.0	1244.0	1289.5	1286.9	1281.6
35°	1153.7	1169.5	1222.9	1229.5	1224.9
37.5°	1091.7	1106.2	1156.3	1171.5	1167.6
40°	1026.5	1042.3	1081.8	1108.9	1110.2
42.5°	961.9	977.0	1009.3	1048.2	1048.2
45°	893.3	908.5	938.1	981.0	986.3
47.5°	826.1	841.9	870.9	913.7	922.3
50°	760.1	774.6	803.6	845.2	858.4
52.5°	691.6	707.4	735.7	774.0	793.1
55°	625.6	636.2	667.2	704.1	724.5
57.5°	557.1	567.0	601.9	633.6	654.6
60°	491.1	503.7	530.7	563.0	587.4
62.5°	427.9	441.0	464.1	492.5	520.2
65°	366.5	376.4	398.9	427.2	451.6
67.5°	307.2	315.8	338.2	358.0	383.7
70°	247.2	258.4	274.9	294.0	310.5
72.5°	199.1	203.7	217.6	231.4	248.5
75°	147.0	154.9	166.1	174.0	183.9
77.5°	105.5	110.1	116.7	123.3	132.5
80°	70.5	72.5	78.5	79.8	87.0
82.5°	42.9	44.2	45.5	46.1	48.8
85°	23.1	23.1	23.1	21.8	21.8
87.5°	13.2	13.2	11.2	9.2	6.6
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)