

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: P556122

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-82-94-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: P556122
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-50-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

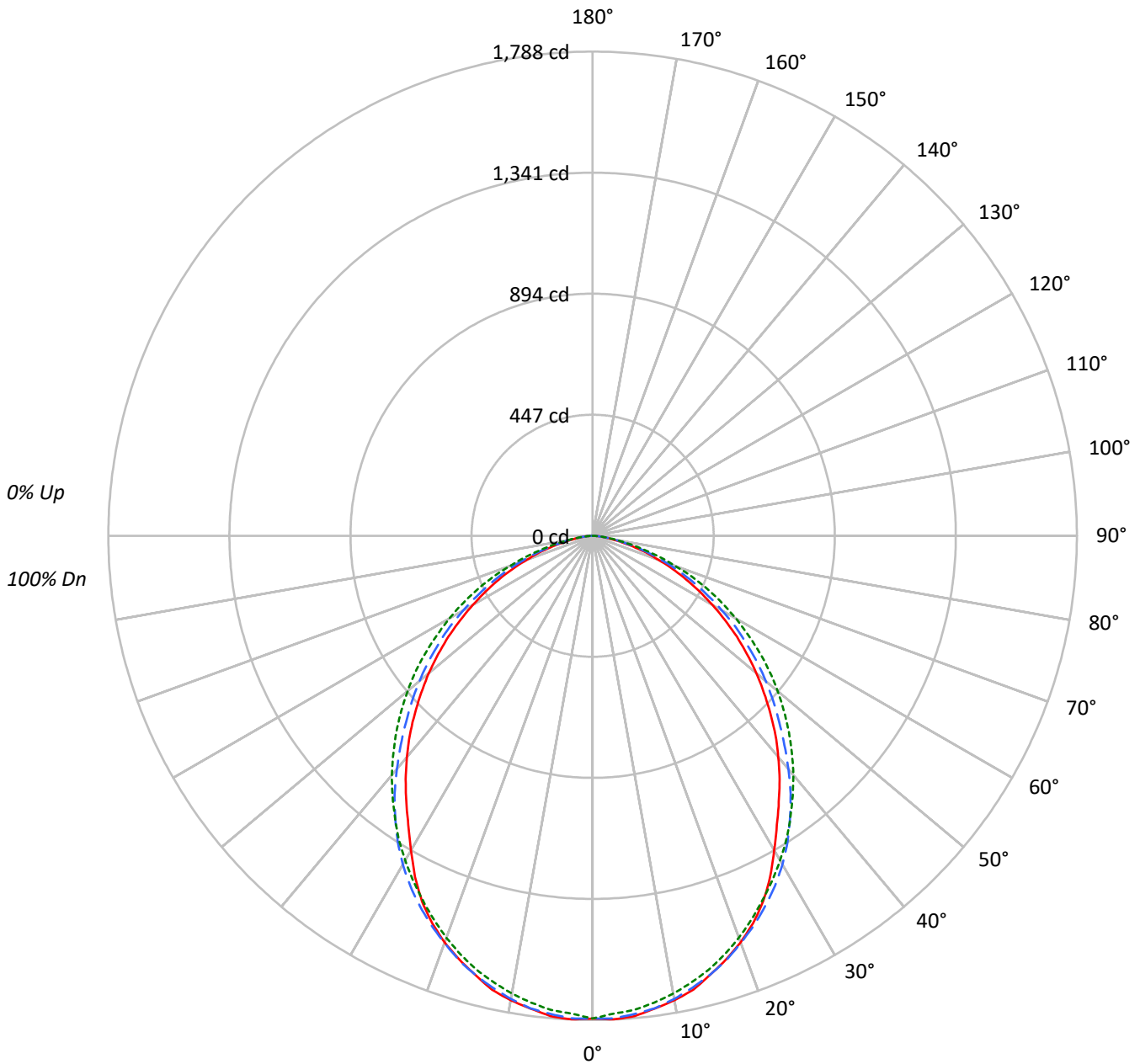
Lumens per Lamp: N/A
Luminaire Lumens: 4122.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9594	9594	9594
5°	9620	9579	9498
10°	9518	9492	9383
15°	9349	9349	9242
20°	9151	9163	9045
25°	8849	8959	8817
30°	8333	8708	8602
35°	7874	8347	8360
40°	7491	7895	8103
45°	7063	7417	7798
50°	6611	6990	7466
55°	6098	6503	7062
60°	5492	5934	6568
65°	4849	5276	5974
70°	4041	4494	5076
75°	3175	3589	3974
80°	2272	2526	2802
85°	1482	1482	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	4.1
10°-20°	471.5	11.4
20°-30°	689.0	16.7
30°-40°	782.1	19.0
40°-50°	755.0	18.3
50°-60°	622.9	15.1
60°-70°	414.8	10.1
70°-80°	185.6	4.5
80°-90°	33.2	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°	1328.4	32.2
0°-40°	2110.5	51.2
0°-60°	3488.4	84.6
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1781	1780	1773	1764	1758	169
15°	1678	1682	1678	1670	1659	473
25°	1490	1502	1509	1498	1485	682
35°	1198	1215	1270	1277	1272	751
45°	928	944	974	1019	1024	716
55°	650	661	693	731	753	580
65°	381	391	414	444	469	378
75°	153	161	173	181	191	167
85°	24	24	24	23	23	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1782.7	1782.7	1782.7	1782.7	1782.7
2.5°	1787.5	1788.1	1784.0	1773.1	1766.2
5°	1780.6	1779.9	1773.1	1763.5	1758.0
7.5°	1760.7	1762.1	1760.1	1746.4	1738.8
10°	1741.6	1742.3	1736.8	1725.8	1716.9
12.5°	1716.9	1716.2	1708.7	1703.2	1688.8
15°	1677.9	1682.0	1677.9	1670.3	1658.7
17.5°	1640.2	1640.2	1642.9	1629.9	1621.0
20°	1597.7	1599.8	1599.8	1589.5	1579.3
22.5°	1548.4	1554.6	1556.7	1545.7	1533.4
25°	1490.2	1501.9	1508.7	1497.8	1484.7
27.5°	1419.7	1437.5	1458.0	1449.8	1435.4
30°	1340.9	1367.0	1401.2	1394.3	1384.1
32.5°	1266.3	1292.3	1339.6	1336.8	1331.3
35°	1198.5	1214.9	1270.4	1277.2	1272.4
37.5°	1134.1	1149.2	1201.2	1217.0	1212.9
40°	1066.3	1082.7	1123.8	1151.9	1153.3
42.5°	999.2	1014.9	1048.5	1088.9	1088.9
45°	928.0	943.7	974.5	1019.1	1024.5
47.5°	858.1	874.6	904.7	949.2	958.1
50°	789.6	804.7	834.8	878.0	891.7
52.5°	718.4	734.8	764.3	804.0	823.9
55°	649.9	660.9	693.1	731.4	752.6
57.5°	578.7	589.0	625.3	658.1	680.1
60°	510.2	523.2	551.3	584.9	610.2
62.5°	444.5	458.2	482.1	511.6	540.3
65°	380.8	391.0	414.3	443.8	469.1
67.5°	319.1	328.0	351.3	371.9	398.6
70°	256.8	268.5	285.6	305.4	322.6
72.5°	206.8	211.6	226.0	240.4	258.2
75°	152.7	160.9	172.6	180.8	191.1
77.5°	109.6	114.4	121.2	128.1	137.7
80°	73.3	75.3	81.5	82.9	90.4
82.5°	44.5	45.9	47.3	47.9	50.7
85°	24.0	24.0	24.0	22.6	22.6
87.5°	13.7	13.7	11.6	9.6	6.8
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)