

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: P520486

Luminaire Tested: **4WSLA-125-L835-UNV-U**

Issue Date: 5/3/2021

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: P520486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4WSLA-125-L835-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

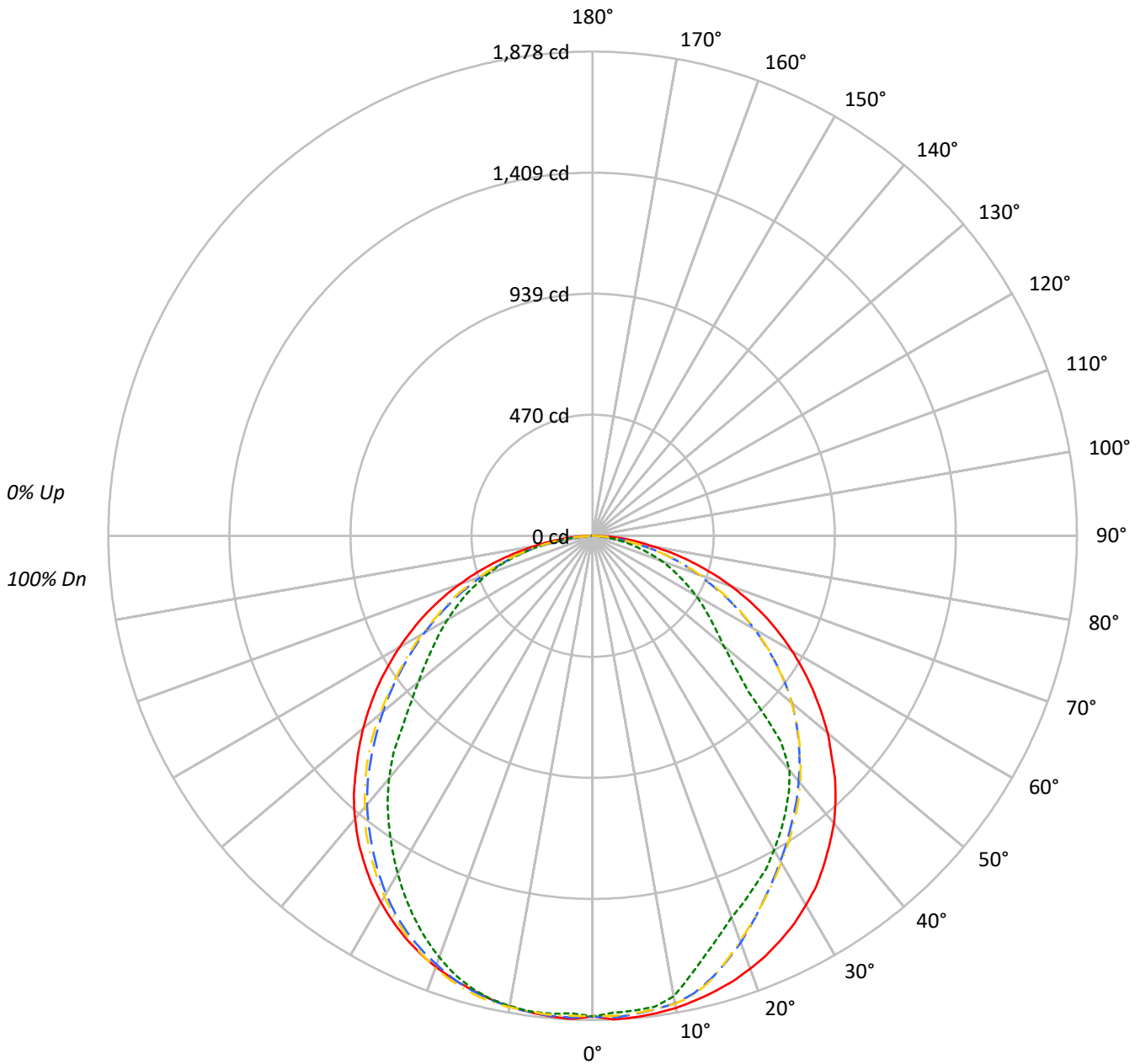
Lumens per Lamp: N/A
Luminaire Lumens: 5000.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10031	10031	10031	10031
5°	10129	9988	10112	10053
10°	10164	9912	10136	10120
15°	10195	9388	10151	10117
20°	10234	9020	10194	9964
25°	10266	8871	10213	9715
30°	10278	8743	10204	9396
35°	10262	8573	10157	9046
40°	10229	8346	10067	8627
45°	10115	6484	9886	7915
50°	9963	5550	9720	7384
55°	9786	5198	9532	7102
60°	9600	4962	9310	6985
65°	9372	4699	9053	6902
70°	8999	4469	8623	6798
75°	8380	3930	7985	6467
80°	7438	3285	6974	5486
85°	7040	2347	6175	3149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	3.5
10°-20°	505.1	10.1
20°-30°	754.8	15.1
30°-40°	898.5	18.0
40°-50°	898.1	18.0
50°-60°	772.7	15.5
60°-70°	581.6	11.6
70°-80°	331.5	6.6
80°-90°	80.7	1.6
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°	1437.0	28.7
0°-40°	2335.5	46.7
0°-60°	4006.3	80.1
0°-90°	5000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5000.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1864	1864	1864	1864	1864	
5°	1875	1849	1872	1861	1875	178
15°	1830	1685	1822	1816	1830	517
25°	1729	1494	1720	1636	1729	797
35°	1562	1305	1546	1377	1562	977
45°	1329	852	1299	1040	1329	1023
55°	1043	554	1016	757	1043	932
65°	736	369	711	542	736	727
75°	403	189	384	311	403	427
85°	114	38	100	51	114	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8
2.5°	1877.8	1860.8	1870.8	1867.8	1851.8	1857.8	1863.8	1857.8	1875.8	1859.8	1870.8
5°	1874.8	1856.8	1862.8	1856.8	1848.8	1850.8	1859.8	1853.8	1871.8	1854.8	1868.8
7.5°	1868.8	1846.8	1852.8	1849.8	1842.8	1843.8	1852.8	1847.8	1863.8	1847.8	1863.8
10°	1859.8	1836.8	1841.8	1828.8	1813.8	1824.8	1842.8	1837.8	1854.8	1836.8	1854.8
12.5°	1845.8	1822.8	1817.8	1774.8	1747.8	1768.8	1823.8	1823.8	1839.8	1822.8	1841.8
15°	1829.8	1804.8	1777.8	1712.8	1684.9	1705.8	1781.8	1807.8	1821.8	1804.8	1823.8
17.5°	1810.8	1781.8	1729.8	1653.9	1627.9	1648.9	1726.8	1783.8	1801.8	1783.8	1800.8
20°	1786.8	1752.8	1678.9	1591.9	1574.9	1593.9	1671.9	1754.8	1779.8	1757.8	1769.8
22.5°	1760.8	1719.8	1621.9	1543.9	1535.9	1547.9	1618.9	1718.8	1751.8	1728.8	1736.8
25°	1728.8	1680.9	1564.9	1499.9	1493.9	1500.9	1566.9	1676.9	1719.8	1695.8	1698.8
27.5°	1694.8	1642.9	1510.9	1462.9	1456.9	1459.9	1514.9	1629.9	1682.9	1658.9	1653.9
30°	1653.9	1597.9	1456.9	1412.9	1406.9	1417.9	1464.9	1581.9	1641.9	1617.9	1602.9
32.5°	1612.9	1548.9	1403.9	1369.9	1357.9	1367.9	1412.9	1531.9	1596.9	1571.9	1546.9
35°	1561.9	1496.9	1348.9	1314.9	1304.9	1315.9	1360.9	1479.9	1545.9	1520.9	1486.9
37.5°	1508.9	1441.9	1298.9	1267.9	1249.9	1262.9	1307.9	1425.9	1492.9	1466.9	1424.9
40°	1455.9	1383.9	1242.9	1210.9	1187.9	1206.9	1252.9	1368.9	1432.9	1408.9	1360.9
42.5°	1393.9	1325.9	1187.9	1142.9	1077.9	1138.9	1193.9	1311.9	1370.9	1347.9	1289.9
45°	1328.9	1263.9	1129.9	1020.9	851.9	1030.9	1133.9	1251.9	1298.9	1276.9	1213.9
47.5°	1254.9	1199.9	1070.9	904.9	740.9	914.9	1072.9	1194.9	1230.9	1206.9	1136.9
50°	1189.9	1135.9	1008.9	806.9	662.9	817.9	1007.9	1130.9	1160.9	1138.9	1060.9
52.5°	1115.9	1068.9	941.9	719.9	604.9	730.9	939.9	1064.9	1088.9	1062.9	984.9
55°	1042.9	1000.9	870.9	642.9	554.0	652.9	868.9	996.9	1015.9	985.9	904.9
57.5°	968.9	930.9	797.9	573.9	507.0	584.9	802.9	926.9	939.9	901.9	827.9
60°	891.9	859.9	723.9	513.0	461.0	522.0	721.9	856.9	864.9	823.9	752.9
62.5°	814.9	785.9	649.9	457.0	414.0	463.0	654.9	782.9	787.9	748.9	675.9
65°	735.9	708.9	577.9	398.0	369.0	408.0	582.9	705.9	710.9	666.9	600.9
67.5°	653.9	631.9	501.0	353.0	326.0	356.0	511.0	627.9	630.9	587.9	528.0
70°	571.9	553.0	433.0	304.0	284.0	305.0	440.0	542.0	548.0	502.0	454.0
72.5°	488.0	473.0	367.0	253.0	235.0	253.0	371.0	463.0	467.0	429.0	382.0
75°	403.0	392.0	300.0	203.0	189.0	202.0	302.0	384.0	384.0	348.0	311.0
77.5°	321.0	313.0	230.0	156.0	146.0	154.0	231.0	304.0	302.0	274.0	245.0
80°	240.0	234.0	165.0	113.0	106.0	110.0	165.0	225.0	225.0	205.0	170.0
82.5°	172.0	165.0	109.0	74.0	70.0	72.0	107.0	157.0	160.0	145.0	115.0
85°	114.0	98.0	59.0	41.0	38.0	39.0	56.0	91.0	100.0	84.0	60.0
87.5°	50.0	33.0	15.0	6.0	3.0	4.0	12.0	29.0	38.0	25.0	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8
2.5°	1869.8	1853.8	1859.8	1863.8	1859.8	1877.8
5°	1867.8	1860.8	1859.8	1864.8	1856.8	1874.8
7.5°	1864.8	1860.8	1859.8	1861.8	1851.8	1868.8
10°	1857.8	1851.8	1853.8	1856.8	1843.8	1859.8
12.5°	1844.8	1838.8	1839.8	1849.8	1831.8	1845.8
15°	1822.8	1815.8	1822.8	1833.8	1817.8	1829.8
17.5°	1793.8	1782.8	1794.8	1811.8	1799.8	1810.8
20°	1756.8	1739.8	1752.8	1783.8	1772.8	1786.8
22.5°	1711.8	1690.9	1703.8	1748.8	1745.8	1760.8
25°	1660.9	1635.9	1653.9	1708.8	1714.8	1728.8
27.5°	1603.9	1575.9	1599.9	1664.9	1678.9	1694.8
30°	1541.9	1511.9	1539.9	1615.9	1636.9	1653.9
32.5°	1477.9	1444.9	1476.9	1560.9	1590.9	1612.9
35°	1410.9	1376.9	1412.9	1503.9	1539.9	1561.9
37.5°	1338.9	1305.9	1344.9	1443.9	1486.9	1508.9
40°	1264.9	1227.9	1271.9	1372.9	1429.9	1455.9
42.5°	1188.9	1142.9	1196.9	1305.9	1367.9	1393.9
45°	1103.9	1039.9	1112.9	1234.9	1299.9	1328.9
47.5°	1018.9	954.9	1028.9	1158.9	1228.9	1254.9
50°	936.9	881.9	940.9	1075.9	1156.9	1189.9
52.5°	861.9	816.9	866.9	994.9	1082.9	1115.9
55°	791.9	756.9	797.9	914.9	1004.9	1042.9
57.5°	725.9	703.9	731.9	838.9	932.9	968.9
60°	663.9	648.9	668.9	763.9	847.9	891.9
62.5°	602.9	594.9	609.9	684.9	768.9	814.9
65°	544.0	542.0	550.0	615.9	685.9	735.9
67.5°	485.0	484.0	489.0	543.0	604.9	653.9
70°	426.0	432.0	429.0	464.0	524.0	571.9
72.5°	366.0	375.0	370.0	392.0	450.0	488.0
75°	299.0	311.0	301.0	326.0	362.0	403.0
77.5°	230.0	243.0	231.0	253.0	292.0	321.0
80°	165.0	177.0	167.0	184.0	218.0	240.0
82.5°	104.0	113.0	105.0	122.0	156.0	172.0
85°	46.0	51.0	53.0	66.0	96.0	114.0
87.5°	2.0	1.0	2.0	13.0	34.0	50.0
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)