

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: CORELITE

Report Number: P520489

Luminaire Tested: **4WSLA-125-L840-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520489
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: CORELITE
Catalog Number: 4WSLA-125-L840-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

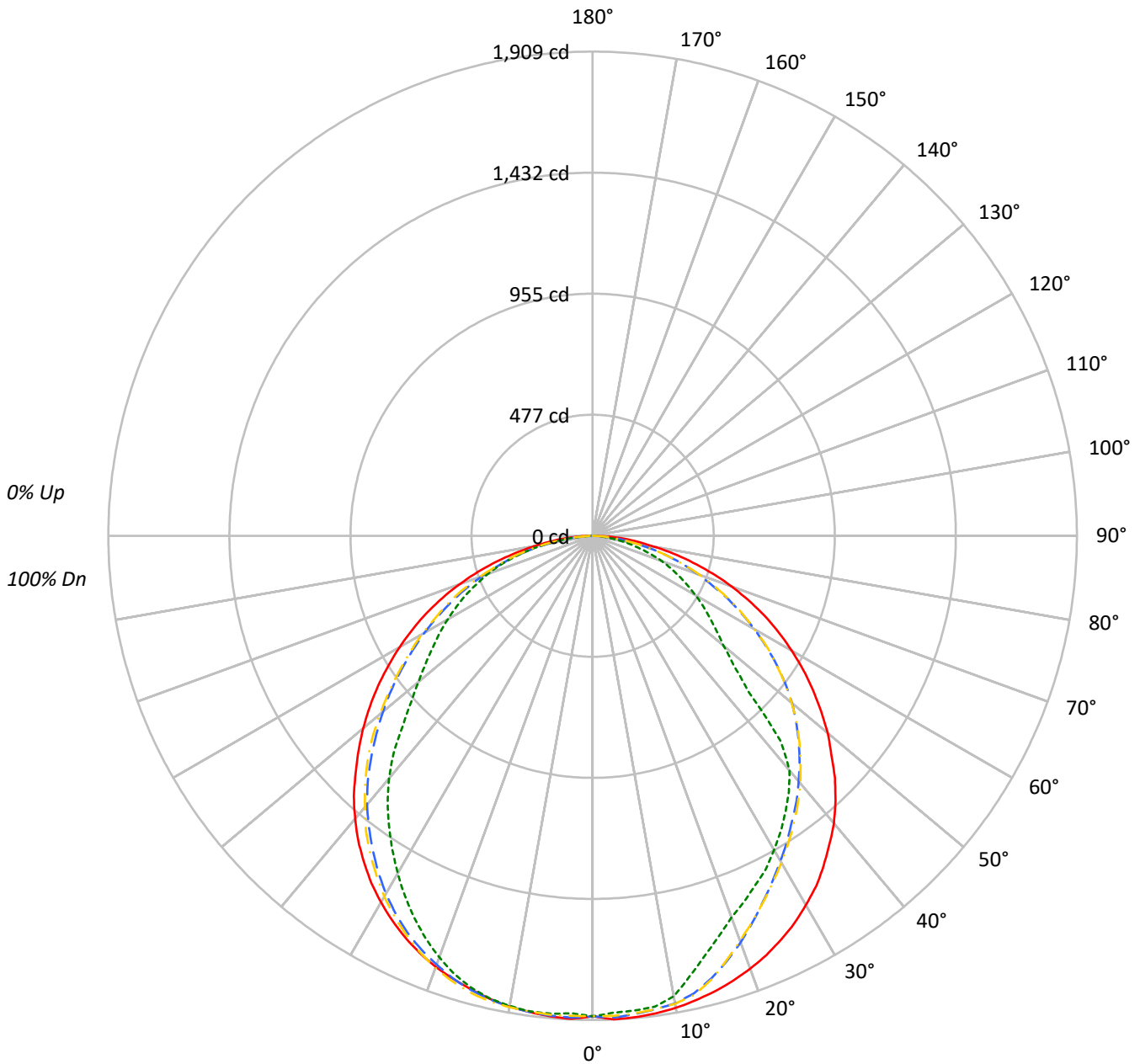
Lumens per Lamp: N/A
Luminaire Lumens: 5082.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P520489

CATALOG NUMBER: 4WSLA-125-L840-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520489

CATALOG NUMBER: 4WSLA-125-L840-UNV-U

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°	10196	10196	10196	10196
5°	10295	10152	10278	10218
10°	10330	10075	10303	10286
15°	10362	9542	10317	10283
20°	10401	9168	10361	10128
25°	10435	9017	10381	9874
30°	10447	8886	10371	9550
35°	10430	8714	10323	9195
40°	10396	8483	10232	8768
45°	10280	6591	10048	8045
50°	10126	5642	9879	7505
55°	9946	5283	9689	7218
60°	9757	5043	9463	7100
65°	9526	4776	9202	7014
70°	9147	4541	8763	6908
75°	8517	3995	8116	6573
80°	7559	3338	7088	5576
85°	7157	2384	6274	3199



TEST NUMBER: P520489

CATALOG NUMBER: 4WSLA-125-L840-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	3.5
10°-20°	513.4	10.1
20°-30°	767.2	15.1
30°-40°	913.2	18.0
40°-50°	912.8	18.0
50°-60°	785.4	15.5
60°-70°	591.2	11.6
70°-80°	336.9	6.6
80°-90°	82.0	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°	1460.6	28.7
0°-40°	2373.7	46.7
0°-60°	4072.0	80.1
0°-90°	5082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5082.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1894	1894	1894	1894	1894	
5°	1906	1879	1902	1891	1906	181
15°	1860	1712	1852	1846	1860	525
25°	1757	1518	1748	1663	1757	810
35°	1588	1326	1571	1400	1588	993
45°	1351	866	1320	1057	1351	1040
55°	1060	563	1033	769	1060	948
65°	748	375	723	551	748	739
75°	410	192	390	316	410	434
85°	116	39	102	52	116	126
90°	0	0	0	0	0	



TEST NUMBER: P520489

CATALOG NUMBER: 4WSLA-125-L840-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1894.4	1894.4	1894.4	1894.4	1894.4	1894.4	1894.4	1894.4	1894.4	1894.4	1894.4
2.5°	1908.6	1891.4	1901.5	1898.5	1882.2	1888.3	1894.4	1888.3	1906.6	1890.3	1901.5
5°	1905.6	1887.3	1893.4	1887.3	1879.2	1881.2	1890.3	1884.2	1902.5	1885.3	1899.5
7.5°	1899.5	1877.1	1883.2	1880.2	1873.1	1874.1	1883.2	1878.1	1894.4	1878.1	1894.4
10°	1890.3	1867.0	1872.0	1858.8	1843.6	1854.8	1873.1	1868.0	1885.3	1867.0	1885.3
12.5°	1876.1	1852.7	1847.7	1804.0	1776.5	1797.9	1853.7	1853.7	1870.0	1852.7	1872.0
15°	1859.8	1834.4	1807.0	1740.9	1712.5	1733.8	1811.1	1837.5	1851.7	1834.4	1853.7
17.5°	1840.5	1811.1	1758.2	1681.0	1654.6	1675.9	1755.2	1813.1	1831.4	1813.1	1830.4
20°	1816.1	1781.6	1706.4	1618.0	1600.7	1620.0	1699.3	1783.6	1809.0	1786.7	1798.9
22.5°	1789.7	1748.1	1648.5	1569.2	1561.1	1573.2	1645.4	1747.0	1780.6	1757.2	1765.3
25°	1757.2	1708.4	1590.5	1524.5	1518.4	1525.5	1592.6	1704.4	1748.1	1723.7	1726.7
27.5°	1722.6	1669.8	1535.6	1486.9	1480.8	1483.8	1539.7	1656.6	1710.4	1686.1	1681.0
30°	1681.0	1624.1	1480.8	1436.0	1429.9	1441.1	1488.9	1607.8	1668.8	1644.4	1629.1
32.5°	1639.3	1574.3	1426.9	1392.3	1380.1	1390.3	1436.0	1557.0	1623.0	1597.6	1572.2
35°	1587.5	1521.4	1371.0	1336.4	1326.3	1337.5	1383.2	1504.1	1571.2	1545.8	1511.3
37.5°	1533.6	1465.5	1320.2	1288.7	1270.4	1283.6	1329.3	1449.3	1517.4	1490.9	1448.2
40°	1479.7	1406.6	1263.3	1230.8	1207.4	1226.7	1273.4	1391.3	1456.4	1432.0	1383.2
42.5°	1416.7	1347.6	1207.4	1161.6	1095.6	1157.6	1213.5	1333.4	1393.4	1370.0	1311.0
45°	1350.7	1284.6	1148.4	1037.7	865.9	1047.8	1152.5	1272.4	1320.2	1297.8	1233.8
47.5°	1275.5	1219.6	1088.5	919.8	753.1	929.9	1090.5	1214.5	1251.1	1226.7	1155.5
50°	1209.4	1154.5	1025.5	820.2	673.8	831.3	1024.4	1149.4	1179.9	1157.6	1078.3
52.5°	1134.2	1086.4	957.4	731.7	614.9	742.9	955.3	1082.4	1106.8	1080.3	1001.1
55°	1060.0	1017.3	885.2	653.5	563.0	663.7	883.2	1013.3	1032.6	1002.1	919.8
57.5°	984.8	946.2	811.0	583.4	515.3	594.5	816.1	942.1	955.3	916.7	841.5
60°	906.5	874.0	735.8	521.4	468.5	530.5	733.8	871.0	879.1	837.4	765.3
62.5°	828.3	798.8	660.6	464.5	420.8	470.6	665.7	795.8	800.9	761.2	687.0
65°	748.0	720.6	587.4	404.5	375.0	414.7	592.5	717.5	722.6	677.9	610.8
67.5°	664.7	642.3	509.2	358.8	331.3	361.8	519.3	638.2	641.3	597.6	536.6
70°	581.3	562.0	440.1	309.0	288.6	310.0	447.2	550.8	556.9	510.2	461.4
72.5°	496.0	480.7	373.0	257.1	238.8	257.1	377.1	470.6	474.6	436.0	388.2
75°	409.6	398.4	304.9	206.3	192.1	205.3	306.9	390.3	390.3	353.7	316.1
77.5°	326.2	318.1	233.8	158.5	148.4	156.5	234.8	309.0	306.9	278.5	249.0
80°	243.9	237.8	167.7	114.8	107.7	111.8	167.7	228.7	228.7	208.3	172.8
82.5°	174.8	167.7	110.8	75.2	71.1	73.2	108.7	159.6	162.6	147.4	116.9
85°	115.9	99.6	60.0	41.7	38.6	39.6	56.9	92.5	101.6	85.4	61.0
87.5°	50.8	33.5	15.2	6.1	3.0	4.1	12.2	29.5	38.6	25.4	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P520489

CATALOG NUMBER: 4WSLA-125-L840-UNV-U

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1894.4	1894.4	1894.4	1894.4	1894.4	1894.4
2.5°	1900.5	1884.2	1890.3	1894.4	1890.3	1908.6
5°	1898.5	1891.4	1890.3	1895.4	1887.3	1905.6
7.5°	1895.4	1891.4	1890.3	1892.4	1882.2	1899.5
10°	1888.3	1882.2	1884.2	1887.3	1874.1	1890.3
12.5°	1875.1	1869.0	1870.0	1880.2	1861.9	1876.1
15°	1852.7	1845.6	1852.7	1863.9	1847.7	1859.8
17.5°	1823.3	1812.1	1824.3	1841.6	1829.4	1840.5
20°	1785.7	1768.4	1781.6	1813.1	1801.9	1816.1
22.5°	1739.9	1718.6	1731.8	1777.5	1774.5	1789.7
25°	1688.1	1662.7	1681.0	1736.9	1743.0	1757.2
27.5°	1630.2	1601.7	1626.1	1692.2	1706.4	1722.6
30°	1567.1	1536.7	1565.1	1642.4	1663.7	1681.0
32.5°	1502.1	1468.6	1501.1	1586.5	1616.9	1639.3
35°	1434.0	1399.5	1436.0	1528.5	1565.1	1587.5
37.5°	1360.8	1327.3	1366.9	1467.6	1511.3	1533.6
40°	1285.6	1248.0	1292.7	1395.4	1453.3	1479.7
42.5°	1208.4	1161.6	1216.5	1327.3	1390.3	1416.7
45°	1122.0	1057.0	1131.2	1255.1	1321.2	1350.7
47.5°	1035.6	970.6	1045.8	1177.9	1249.0	1275.5
50°	952.3	896.4	956.3	1093.5	1175.9	1209.4
52.5°	876.1	830.3	881.1	1011.2	1100.7	1134.2
55°	804.9	769.3	811.0	929.9	1021.4	1060.0
57.5°	737.8	715.5	743.9	852.7	948.2	984.8
60°	674.8	659.6	679.9	776.5	861.8	906.5
62.5°	612.8	604.7	619.9	696.2	781.5	828.3
65°	552.9	550.8	559.0	626.0	697.2	748.0
67.5°	492.9	491.9	497.0	551.9	614.9	664.7
70°	432.9	439.0	436.0	471.6	532.5	581.3
72.5°	372.0	381.1	376.0	398.4	457.3	496.0
75°	303.9	316.1	305.9	331.3	367.9	409.6
77.5°	233.8	247.0	234.8	257.1	296.8	326.2
80°	167.7	179.9	169.7	187.0	221.6	243.9
82.5°	105.7	114.8	106.7	124.0	158.5	174.8
85°	46.8	51.8	53.9	67.1	97.6	115.9
87.5°	2.0	1.0	2.0	13.2	34.6	50.8
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)