

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: P520546

Luminaire Tested: **4WSLA-175-L935-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520546
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-175-L935-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

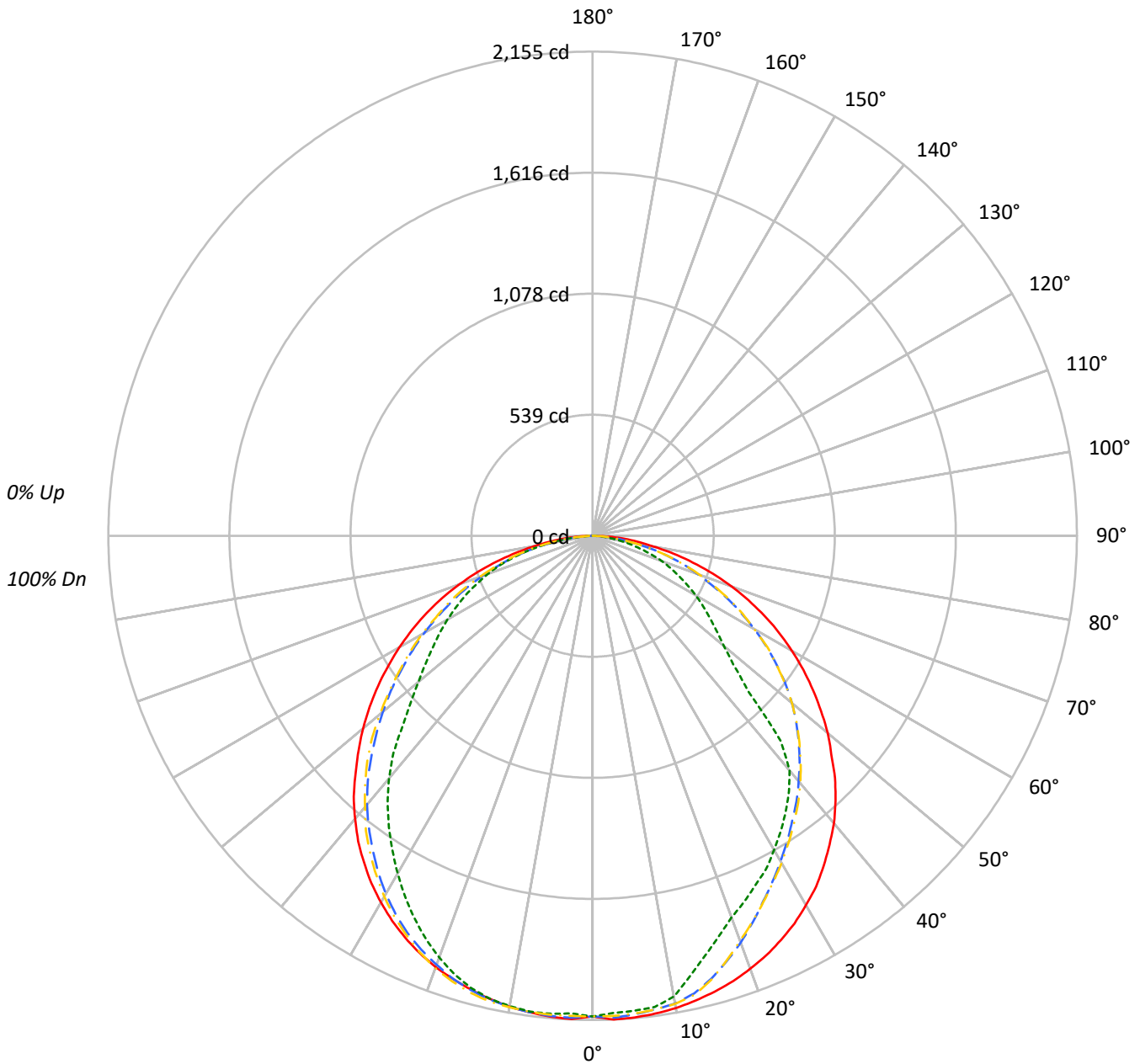
Lumens per Lamp: N/A
Luminaire Lumens: 5739.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 59.5
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				20				
RC	80				70				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°	11514	11514	11514	11514
5°	11626	11465	11607	11539
10°	11666	11378	11635	11616
15°	11702	10775	11651	11613
20°	11746	10353	11700	11438
25°	11784	10182	11722	11150
30°	11797	10035	11711	10784
35°	11778	9840	11657	10383
40°	11740	9579	11555	9902
45°	11609	7442	11348	9085
50°	11436	6371	11157	8476
55°	11232	5966	10942	8152
60°	11019	5695	10686	8018
65°	10757	5393	10392	7922
70°	10331	5128	9896	7802
75°	9617	4510	9164	7421
80°	8536	3772	8003	6295
85°	8077	2692	7089	3612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	3.5
10°-20°	579.8	10.1
20°-30°	866.3	15.1
30°-40°	1031.2	18.0
40°-50°	1030.8	18.0
50°-60°	887.0	15.5
60°-70°	667.6	11.6
70°-80°	380.4	6.6
80°-90°	92.6	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°	1649.4	28.7
0°-40°	2680.6	46.7
0°-60°	4598.4	80.1
0°-90°	5739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5739.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2139	2139	2139	2139	2139	
5°	2152	2122	2148	2136	2152	205
15°	2100	1934	2091	2084	2100	593
25°	1984	1715	1974	1878	1984	915
35°	1793	1498	1774	1580	1793	1122
45°	1525	978	1491	1194	1525	1175
55°	1197	636	1166	869	1197	1070
65°	845	424	816	622	845	834
75°	462	217	441	357	462	490
85°	131	44	115	58	131	142
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°	2139.3	2139.3	2139.3	2139.3	2139.3	2139.3	2139.3	2139.3	2139.3	2139.3	2139.3
2.5°	2155.4	2135.9	2147.3	2143.9	2125.5	2132.4	2139.3	2132.4	2153.1	2134.7	2147.3
5°	2151.9	2131.3	2138.2	2131.3	2122.1	2124.4	2134.7	2127.8	2148.5	2129.0	2145.0
7.5°	2145.0	2119.8	2126.7	2123.2	2115.2	2116.4	2126.7	2120.9	2139.3	2120.9	2139.3
10°	2134.7	2108.3	2114.1	2099.1	2081.9	2094.5	2115.2	2109.5	2129.0	2108.3	2129.0
12.5°	2118.7	2092.3	2086.5	2037.2	2006.2	2030.3	2093.4	2093.4	2111.8	2092.3	2114.1
15°	2100.3	2071.6	2040.6	1966.0	1933.9	1958.0	2045.2	2075.0	2091.1	2071.6	2093.4
17.5°	2078.5	2045.2	1985.5	1898.3	1868.5	1892.6	1982.1	2047.5	2068.2	2047.5	2067.0
20°	2050.9	2011.9	1927.0	1827.1	1807.6	1829.4	1919.0	2014.2	2042.9	2017.7	2031.4
22.5°	2021.1	1974.0	1861.6	1772.0	1762.9	1776.6	1858.1	1972.9	2010.8	1984.4	1993.6
25°	1984.4	1929.3	1796.1	1721.5	1714.7	1722.7	1798.4	1924.7	1974.0	1946.5	1949.9
27.5°	1945.3	1885.7	1734.2	1679.1	1672.2	1675.6	1738.8	1870.7	1931.6	1904.0	1898.3
30°	1898.3	1834.0	1672.2	1621.7	1614.8	1627.4	1681.4	1815.7	1884.5	1857.0	1839.8
32.5°	1851.2	1777.8	1611.4	1572.3	1558.6	1570.1	1621.7	1758.3	1832.9	1804.2	1775.5
35°	1792.7	1718.1	1548.2	1509.2	1497.7	1510.4	1562.0	1698.6	1774.3	1745.6	1706.6
37.5°	1731.9	1655.0	1490.9	1455.3	1434.6	1449.5	1501.2	1636.6	1713.5	1683.7	1635.5
40°	1671.0	1588.4	1426.6	1389.9	1363.5	1385.3	1438.1	1571.2	1644.7	1617.1	1562.0
42.5°	1599.9	1521.8	1363.5	1311.8	1237.2	1307.2	1370.4	1505.8	1573.5	1547.1	1480.5
45°	1525.3	1450.7	1296.9	1171.8	977.8	1183.3	1301.5	1436.9	1490.9	1465.6	1393.3
47.5°	1440.4	1377.2	1229.2	1038.7	850.4	1050.1	1231.5	1371.5	1412.8	1385.3	1304.9
50°	1365.8	1303.8	1158.0	926.2	760.9	938.8	1156.9	1298.0	1332.5	1307.2	1217.7
52.5°	1280.8	1226.9	1081.1	826.3	694.4	839.0	1078.8	1222.3	1249.8	1220.0	1130.5
55°	1197.0	1148.8	999.6	738.0	635.8	749.4	997.3	1144.3	1166.1	1131.6	1038.7
57.5°	1112.1	1068.5	915.9	658.8	581.9	671.4	921.6	1063.9	1078.8	1035.2	950.3
60°	1023.7	987.0	830.9	588.8	529.1	599.1	828.6	983.6	992.8	945.7	864.2
62.5°	935.4	902.1	746.0	524.5	475.1	531.4	751.7	898.6	904.4	859.6	775.8
65°	844.7	813.7	663.4	456.8	423.5	468.3	669.1	810.3	816.0	765.5	689.8
67.5°	750.6	725.3	575.0	405.1	374.1	408.6	586.5	720.8	724.2	674.8	606.0
70°	656.5	634.7	497.0	348.9	325.9	350.0	505.0	622.1	628.9	576.1	521.1
72.5°	560.1	542.9	421.2	290.4	269.7	290.4	425.8	531.4	536.0	492.4	438.4
75°	462.5	449.9	344.3	233.0	216.9	231.8	346.6	440.7	440.7	399.4	356.9
77.5°	368.4	359.2	264.0	179.0	167.6	176.7	265.1	348.9	346.6	314.5	281.2
80°	275.4	268.6	189.4	129.7	121.7	126.2	189.4	258.2	258.2	235.3	195.1
82.5°	197.4	189.4	125.1	84.9	80.3	82.6	122.8	180.2	183.6	166.4	132.0
85°	130.8	112.5	67.7	47.1	43.6	44.8	64.3	104.4	114.8	96.4	68.9
87.5°	57.4	37.9	17.2	6.9	3.4	4.6	13.8	33.3	43.6	28.7	9.2
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°	2139.3	2139.3	2139.3	2139.3	2139.3	2139.3
2.5°	2146.2	2127.8	2134.7	2139.3	2134.7	2155.4
5°	2143.9	2135.9	2134.7	2140.5	2131.3	2151.9
7.5°	2140.5	2135.9	2134.7	2137.0	2125.5	2145.0
10°	2132.4	2125.5	2127.8	2131.3	2116.4	2134.7
12.5°	2117.5	2110.6	2111.8	2123.2	2102.6	2118.7
15°	2092.3	2084.2	2092.3	2104.9	2086.5	2100.3
17.5°	2059.0	2046.3	2060.1	2079.6	2065.9	2078.5
20°	2016.5	1997.0	2011.9	2047.5	2034.9	2050.9
22.5°	1964.9	1940.8	1955.7	2007.3	2003.9	2021.1
25°	1906.3	1877.6	1898.3	1961.4	1968.3	1984.4
27.5°	1840.9	1808.8	1836.3	1910.9	1927.0	1945.3
30°	1769.8	1735.3	1767.5	1854.7	1878.8	1898.3
32.5°	1696.3	1658.4	1695.2	1791.6	1826.0	1851.2
35°	1619.4	1580.4	1621.7	1726.1	1767.5	1792.7
37.5°	1536.8	1498.9	1543.7	1657.3	1706.6	1731.9
40°	1451.8	1409.4	1459.9	1575.8	1641.2	1671.0
42.5°	1364.6	1311.8	1373.8	1498.9	1570.1	1599.9
45°	1267.1	1193.6	1277.4	1417.4	1492.0	1525.3
47.5°	1169.5	1096.1	1181.0	1330.2	1410.5	1440.4
50°	1075.4	1012.3	1080.0	1234.9	1327.9	1365.8
52.5°	989.3	937.7	995.1	1142.0	1243.0	1280.8
55°	909.0	868.8	915.9	1050.1	1153.4	1197.0
57.5°	833.2	808.0	840.1	962.9	1070.8	1112.1
60°	762.1	744.9	767.8	876.8	973.2	1023.7
62.5°	692.1	682.9	700.1	786.2	882.6	935.4
65°	624.3	622.1	631.2	707.0	787.3	844.7
67.5°	556.6	555.5	561.2	623.2	694.4	750.6
70°	488.9	495.8	492.4	532.5	601.4	656.5
72.5°	420.1	430.4	424.6	449.9	516.5	560.1
75°	343.2	356.9	345.5	374.1	415.5	462.5
77.5°	264.0	278.9	265.1	290.4	335.1	368.4
80°	189.4	203.1	191.7	211.2	250.2	275.4
82.5°	119.4	129.7	120.5	140.0	179.0	197.4
85°	52.8	58.5	60.8	75.7	110.2	130.8
87.5°	2.3	1.1	2.3	14.9	39.0	57.4
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)