

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: P520771

Luminaire Tested: **8WSLA-75-L830-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520771
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: 8WSLA-75-L830-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

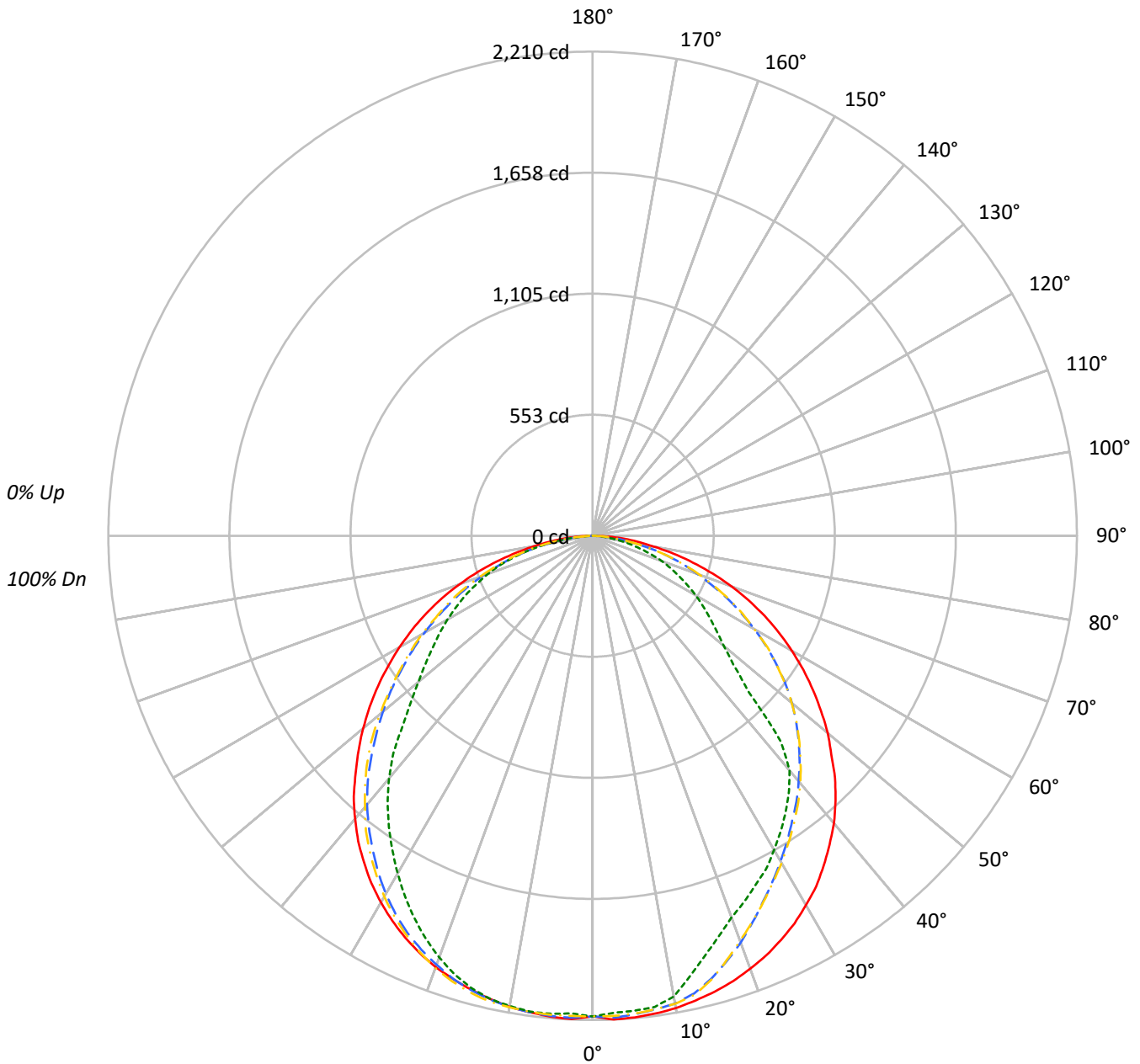
Lumens per Lamp: N/A
Luminaire Lumens: 5885.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 46.6
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°	5903	5903	5903	5903
5°	5961	5878	5951	5916
10°	5981	5834	5965	5956
15°	6000	5525	5974	5954
20°	6023	5308	5999	5864
25°	6042	5221	6010	5717
30°	6049	5145	6005	5529
35°	6039	5045	5977	5324
40°	6020	4912	5924	5077
45°	5952	3816	5818	4658
50°	5863	3267	5720	4346
55°	5759	3059	5610	4180
60°	5650	2920	5479	4111
65°	5515	2765	5328	4062
70°	5297	2629	5074	4000
75°	4931	2312	4698	3805
80°	4378	1934	4104	3228
85°	4143	1380	3634	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	3.5
10°-20°	594.5	10.1
20°-30°	888.4	15.1
30°-40°	1057.5	18.0
40°-50°	1057.0	18.0
50°-60°	909.5	15.5
60°-70°	684.6	11.6
70°-80°	390.1	6.6
80°-90°	95.0	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°	1691.3	28.7
0°-40°	2748.8	46.7
0°-60°	4715.4	80.1
0°-90°	5885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5885.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2194	2194	2194	2194	2194	
5°	2207	2176	2203	2190	2207	210
15°	2154	1983	2144	2137	2154	608
25°	2035	1758	2024	1925	2035	938
35°	1838	1536	1820	1621	1838	1150
45°	1564	1003	1529	1224	1564	1205
55°	1228	652	1196	891	1228	1097
65°	866	434	837	638	866	855
75°	474	222	452	366	474	502
85°	134	45	118	60	134	146
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°	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7
2.5°	2210.2	2190.2	2202.0	2198.4	2179.6	2186.7	2193.7	2186.7	2207.9	2189.0	2202.0
5°	2206.7	2185.5	2192.6	2185.5	2176.1	2178.4	2189.0	2182.0	2203.1	2183.1	2199.6
7.5°	2199.6	2173.7	2180.8	2177.3	2169.0	2170.2	2180.8	2174.9	2193.7	2174.9	2193.7
10°	2189.0	2162.0	2167.8	2152.5	2134.9	2147.8	2169.0	2163.1	2183.1	2162.0	2183.1
12.5°	2172.5	2145.5	2139.6	2089.0	2057.2	2081.9	2146.7	2146.7	2165.5	2145.5	2167.8
15°	2153.7	2124.3	2092.5	2016.0	1983.1	2007.8	2097.2	2127.8	2144.3	2124.3	2146.7
17.5°	2131.4	2097.2	2036.0	1946.6	1916.0	1940.7	2032.5	2099.6	2120.8	2099.6	2119.6
20°	2103.1	2063.1	1976.0	1873.6	1853.6	1876.0	1967.8	2065.5	2094.9	2069.0	2083.1
22.5°	2072.5	2024.3	1908.9	1817.1	1807.7	1821.8	1905.4	2023.1	2061.9	2034.9	2044.3
25°	2034.9	1978.4	1841.8	1765.3	1758.3	1766.5	1844.2	1973.7	2024.3	1996.0	1999.5
27.5°	1994.8	1933.6	1778.3	1721.8	1714.7	1718.3	1783.0	1918.3	1980.7	1952.5	1946.6
30°	1946.6	1880.7	1714.7	1663.0	1655.9	1668.8	1724.2	1861.8	1932.5	1904.2	1886.6
32.5°	1898.3	1823.0	1652.4	1612.3	1598.2	1610.0	1663.0	1803.0	1879.5	1850.1	1820.7
35°	1838.3	1761.8	1587.6	1547.6	1535.8	1548.8	1601.8	1741.8	1819.5	1790.1	1750.0
37.5°	1775.9	1697.1	1528.8	1492.3	1471.1	1486.4	1539.4	1678.3	1757.1	1726.5	1677.1
40°	1713.6	1628.8	1462.9	1425.2	1398.2	1420.5	1474.7	1611.2	1686.5	1658.2	1601.8
42.5°	1640.6	1560.6	1398.2	1345.2	1268.7	1340.5	1405.2	1544.1	1613.5	1586.5	1518.2
45°	1564.1	1487.6	1329.9	1201.6	1002.7	1213.4	1334.6	1473.5	1528.8	1502.9	1428.8
47.5°	1477.0	1412.3	1260.5	1065.1	872.1	1076.9	1262.8	1406.4	1448.8	1420.5	1338.1
50°	1400.5	1337.0	1187.5	949.8	780.3	962.7	1186.3	1331.1	1366.4	1340.5	1248.7
52.5°	1313.4	1258.1	1108.6	847.4	712.0	860.3	1106.3	1253.4	1281.6	1251.0	1159.2
55°	1227.5	1178.1	1025.1	756.7	652.0	768.5	1022.7	1173.4	1195.7	1160.4	1065.1
57.5°	1140.4	1095.7	939.2	675.5	596.7	688.5	945.0	1091.0	1106.3	1061.6	974.5
60°	1049.8	1012.1	852.1	603.7	542.5	614.3	849.7	1008.6	1018.0	969.8	886.2
62.5°	959.2	925.0	765.0	537.8	487.2	544.9	770.9	921.5	927.4	881.5	795.6
65°	866.2	834.4	680.2	468.4	434.3	480.2	686.1	830.9	836.8	785.0	707.3
67.5°	769.7	743.8	589.6	415.4	383.7	419.0	601.4	739.1	742.6	692.0	621.4
70°	673.2	650.8	509.6	357.8	334.2	359.0	517.8	637.9	644.9	590.8	534.3
72.5°	574.3	556.7	431.9	297.8	276.6	297.8	436.6	544.9	549.6	504.9	449.6
75°	474.3	461.3	353.1	238.9	222.4	237.7	355.4	451.9	451.9	409.6	366.0
77.5°	377.8	368.4	270.7	183.6	171.8	181.2	271.9	357.8	355.4	322.5	288.3
80°	282.5	275.4	194.2	133.0	124.8	129.5	194.2	264.8	264.8	241.3	200.1
82.5°	202.4	194.2	128.3	87.1	82.4	84.7	125.9	184.8	188.3	170.6	135.3
85°	134.2	115.3	69.4	48.3	44.7	45.9	65.9	107.1	117.7	98.9	70.6
87.5°	58.8	38.8	17.7	7.1	3.5	4.7	14.1	34.1	44.7	29.4	9.4
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°	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7
2.5°	2200.8	2182.0	2189.0	2193.7	2189.0	2210.2
5°	2198.4	2190.2	2189.0	2194.9	2185.5	2206.7
7.5°	2194.9	2190.2	2189.0	2191.4	2179.6	2199.6
10°	2186.7	2179.6	2182.0	2185.5	2170.2	2189.0
12.5°	2171.4	2164.3	2165.5	2177.3	2156.1	2172.5
15°	2145.5	2137.2	2145.5	2158.4	2139.6	2153.7
17.5°	2111.4	2098.4	2112.5	2132.5	2118.4	2131.4
20°	2067.8	2047.8	2063.1	2099.6	2086.6	2103.1
22.5°	2014.8	1990.1	2005.4	2058.4	2054.9	2072.5
25°	1954.8	1925.4	1946.6	2011.3	2018.4	2034.9
27.5°	1887.7	1854.8	1883.0	1959.5	1976.0	1994.8
30°	1814.8	1779.5	1812.4	1901.9	1926.6	1946.6
32.5°	1739.5	1700.6	1738.3	1837.1	1872.4	1898.3
35°	1660.6	1620.6	1663.0	1770.1	1812.4	1838.3
37.5°	1575.9	1537.0	1582.9	1699.4	1750.0	1775.9
40°	1488.8	1445.2	1497.0	1615.9	1683.0	1713.6
42.5°	1399.3	1345.2	1408.7	1537.0	1610.0	1640.6
45°	1299.3	1224.0	1309.9	1453.5	1530.0	1564.1
47.5°	1199.3	1123.9	1211.0	1364.0	1446.4	1477.0
50°	1102.8	1038.0	1107.5	1266.3	1361.7	1400.5
52.5°	1014.5	961.5	1020.4	1171.0	1274.6	1313.4
55°	932.1	890.9	939.2	1076.9	1182.8	1227.5
57.5°	854.4	828.5	861.5	987.4	1098.0	1140.4
60°	781.5	763.8	787.3	899.1	998.0	1049.8
62.5°	709.7	700.3	717.9	806.2	905.0	959.2
65°	640.2	637.9	647.3	725.0	807.4	866.2
67.5°	570.8	569.6	575.5	639.1	712.0	769.7
70°	501.4	508.4	504.9	546.1	616.7	673.2
72.5°	430.7	441.3	435.5	461.3	529.6	574.3
75°	351.9	366.0	354.2	383.7	426.0	474.3
77.5°	270.7	286.0	271.9	297.8	343.7	377.8
80°	194.2	208.3	196.5	216.5	256.6	282.5
82.5°	122.4	133.0	123.6	143.6	183.6	202.4
85°	54.1	60.0	62.4	77.7	113.0	134.2
87.5°	2.4	1.2	2.4	15.3	40.0	58.8
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)