

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: P520513

Luminaire Tested: **4WSLA-150-L840-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520513
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-150-L840-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

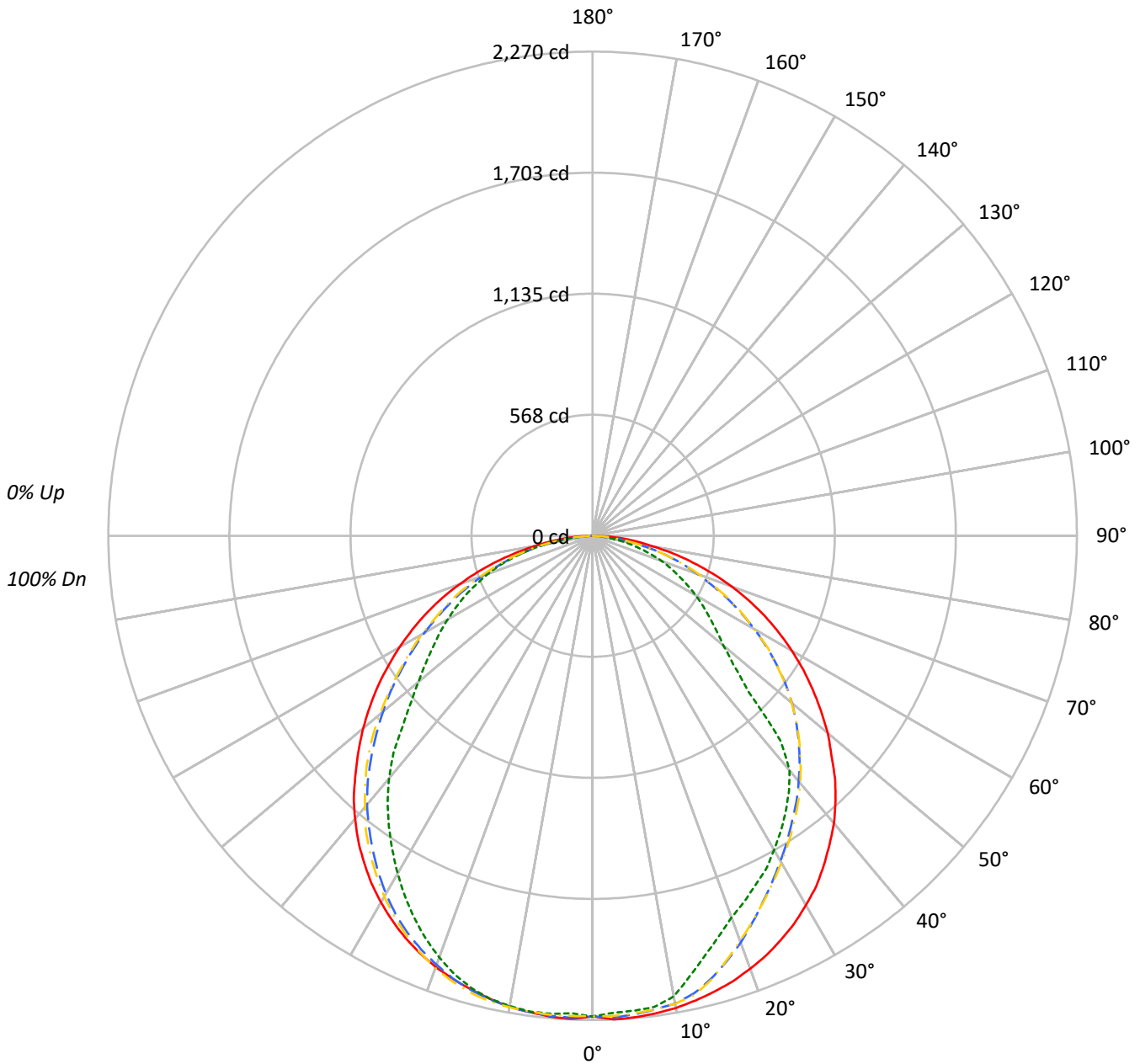
Lumens per Lamp: N/A
Luminaire Lumens: 6044.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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°	12126	12126	12126	12126
5°	12244	12074	12224	12152
10°	12286	11983	12253	12233
15°	12324	11348	12270	12230
20°	12371	10903	12322	12045
25°	12410	10723	12346	11742
30°	12424	10568	12334	11357
35°	12404	10363	12277	10935
40°	12364	10088	12169	10428
45°	12227	7838	11950	9567
50°	12043	6710	11750	8926
55°	11829	6283	11523	8586
60°	11606	5998	11254	8443
65°	11329	5680	10944	8343
70°	10880	5402	10423	8217
75°	10129	4749	9651	7817
80°	8991	3970	8430	6630
85°	8509	2834	7466	3804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	3.5
10°-20°	610.6	10.1
20°-30°	912.4	15.1
30°-40°	1086.0	18.0
40°-50°	1085.6	18.0
50°-60°	934.1	15.5
60°-70°	703.1	11.6
70°-80°	400.6	6.6
80°-90°	97.5	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°	1737.0	28.7
0°-40°	2823.1	46.7
0°-60°	4842.8	80.1
0°-90°	6044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6044.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2253	2253	2253	2253	2253	
5°	2266	2235	2263	2249	2266	216
15°	2212	2037	2202	2195	2212	625
25°	2090	1806	2079	1977	2090	964
35°	1888	1577	1869	1664	1888	1181
45°	1606	1030	1570	1257	1606	1237
55°	1261	670	1228	915	1261	1127
65°	890	446	859	655	890	878
75°	487	228	464	376	487	516
85°	138	46	121	62	138	150
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°	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0
2.5°	2269.9	2249.4	2261.5	2257.8	2238.5	2245.8	2253.0	2245.8	2267.5	2248.2	2261.5
5°	2266.3	2244.5	2251.8	2244.5	2234.9	2237.3	2248.2	2240.9	2262.7	2242.1	2259.0
7.5°	2259.0	2232.5	2239.7	2236.1	2227.6	2228.8	2239.7	2233.7	2253.0	2233.7	2253.0
10°	2248.2	2220.4	2226.4	2210.7	2192.6	2205.9	2227.6	2221.6	2242.1	2220.4	2242.1
12.5°	2231.2	2203.4	2197.4	2145.4	2112.8	2138.2	2204.7	2204.7	2224.0	2203.4	2226.4
15°	2211.9	2181.7	2149.1	2070.5	2036.6	2062.0	2153.9	2185.3	2202.2	2181.7	2204.7
17.5°	2188.9	2153.9	2091.0	1999.2	1967.8	1993.1	2087.4	2156.3	2178.1	2156.3	2176.9
20°	2159.9	2118.8	2029.4	1924.2	1903.7	1926.7	2020.9	2121.3	2151.5	2124.9	2139.4
22.5°	2128.5	2079.0	1960.5	1866.2	1856.6	1871.1	1956.9	2077.7	2117.6	2089.8	2099.5
25°	2089.8	2031.8	1891.6	1813.0	1805.8	1814.2	1894.0	2027.0	2079.0	2049.9	2053.6
27.5°	2048.7	1985.9	1826.3	1768.3	1761.1	1764.7	1831.2	1970.2	2034.2	2005.2	1999.2
30°	1999.2	1931.5	1761.1	1707.9	1700.6	1713.9	1770.7	1912.2	1984.7	1955.7	1937.5
32.5°	1949.6	1872.3	1697.0	1655.9	1641.4	1653.5	1707.9	1851.7	1930.3	1900.1	1869.8
35°	1888.0	1809.4	1630.5	1589.4	1577.3	1590.6	1645.0	1788.9	1868.6	1838.4	1797.3
37.5°	1823.9	1742.9	1570.1	1532.6	1510.9	1526.6	1581.0	1723.6	1804.6	1773.2	1722.4
40°	1759.9	1672.8	1502.4	1463.7	1435.9	1458.9	1514.5	1654.7	1732.1	1703.0	1645.0
42.5°	1684.9	1602.7	1435.9	1381.5	1303.0	1376.7	1443.2	1585.8	1657.1	1629.3	1559.2
45°	1606.4	1527.8	1365.8	1234.1	1029.8	1246.2	1370.7	1513.3	1570.1	1543.5	1467.4
47.5°	1516.9	1450.4	1294.5	1093.9	895.6	1106.0	1296.9	1444.4	1487.9	1458.9	1374.3
50°	1438.3	1373.1	1219.6	975.4	801.4	988.7	1218.4	1367.0	1403.3	1376.7	1282.4
52.5°	1348.9	1292.1	1138.6	870.3	731.3	883.6	1136.2	1287.3	1316.3	1284.8	1190.6
55°	1260.7	1209.9	1052.8	777.2	669.6	789.3	1050.4	1205.1	1228.0	1191.8	1093.9
57.5°	1171.2	1125.3	964.5	693.8	612.8	707.1	970.6	1120.5	1136.2	1090.2	1000.8
60°	1078.2	1039.5	875.1	620.1	557.2	630.9	872.7	1035.8	1045.5	996.0	910.1
62.5°	985.1	950.0	785.7	552.4	500.4	559.6	791.7	946.4	952.4	905.3	817.1
65°	889.6	857.0	698.6	481.1	446.0	493.1	704.7	853.3	859.4	806.2	726.4
67.5°	790.5	763.9	605.6	426.7	394.0	430.3	617.6	759.1	762.7	710.7	638.2
70°	691.4	668.4	523.4	367.4	343.3	368.7	531.8	655.1	662.4	606.8	548.7
72.5°	589.8	571.7	443.6	305.8	284.0	305.8	448.4	559.6	564.5	518.5	461.7
75°	487.1	473.8	362.6	245.4	228.4	244.2	365.0	464.1	464.1	420.6	375.9
77.5°	388.0	378.3	278.0	188.6	176.5	186.1	279.2	367.4	365.0	331.2	296.1
80°	290.1	282.8	199.4	136.6	128.1	133.0	199.4	272.0	272.0	247.8	205.5
82.5°	207.9	199.4	131.7	89.4	84.6	87.0	129.3	189.8	193.4	175.3	139.0
85°	137.8	118.5	71.3	49.6	45.9	47.1	67.7	110.0	120.9	101.5	72.5
87.5°	60.4	39.9	18.1	7.3	3.6	4.8	14.5	35.1	45.9	30.2	9.7
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°	2253.0	2253.0	2253.0	2253.0	2253.0	2253.0
2.5°	2260.3	2240.9	2248.2	2253.0	2248.2	2269.9
5°	2257.8	2249.4	2248.2	2254.2	2244.5	2266.3
7.5°	2254.2	2249.4	2248.2	2250.6	2238.5	2259.0
10°	2245.8	2238.5	2240.9	2244.5	2228.8	2248.2
12.5°	2230.0	2222.8	2224.0	2236.1	2214.3	2231.2
15°	2203.4	2195.0	2203.4	2216.7	2197.4	2211.9
17.5°	2168.4	2155.1	2169.6	2190.2	2175.6	2188.9
20°	2123.7	2103.1	2118.8	2156.3	2143.0	2159.9
22.5°	2069.3	2043.9	2059.6	2114.0	2110.4	2128.5
25°	2007.6	1977.4	1999.2	2065.7	2072.9	2089.8
27.5°	1938.7	1904.9	1933.9	2012.5	2029.4	2048.7
30°	1863.8	1827.5	1861.4	1953.2	1978.6	1999.2
32.5°	1786.4	1746.6	1785.2	1886.8	1923.0	1949.6
35°	1705.5	1664.4	1707.9	1817.9	1861.4	1888.0
37.5°	1618.4	1578.6	1625.7	1745.4	1797.3	1823.9
40°	1529.0	1484.3	1537.5	1659.5	1728.4	1759.9
42.5°	1437.1	1381.5	1446.8	1578.6	1653.5	1684.9
45°	1334.4	1257.0	1345.3	1492.7	1571.3	1606.4
47.5°	1231.7	1154.3	1243.7	1400.9	1485.5	1516.9
50°	1132.5	1066.1	1137.4	1300.6	1398.5	1438.3
52.5°	1041.9	987.5	1047.9	1202.6	1309.0	1348.9
55°	957.3	915.0	964.5	1106.0	1214.7	1260.7
57.5°	877.5	850.9	884.8	1014.1	1127.7	1171.2
60°	802.6	784.4	808.6	923.4	1025.0	1078.2
62.5°	728.8	719.2	737.3	828.0	929.5	985.1
65°	657.5	655.1	664.8	744.6	829.2	889.6
67.5°	586.2	585.0	591.1	656.3	731.3	790.5
70°	514.9	522.2	518.5	560.8	633.4	691.4
72.5°	442.4	453.3	447.2	473.8	543.9	589.8
75°	361.4	375.9	363.8	394.0	437.5	487.1
77.5°	278.0	293.7	279.2	305.8	352.9	388.0
80°	199.4	213.9	201.9	222.4	263.5	290.1
82.5°	125.7	136.6	126.9	147.5	188.6	207.9
85°	55.6	61.6	64.1	79.8	116.0	137.8
87.5°	2.4	1.2	2.4	15.7	41.1	60.4
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)