

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: P520777

Luminaire Tested: **8WSLA-75-L840-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520777
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-L840-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

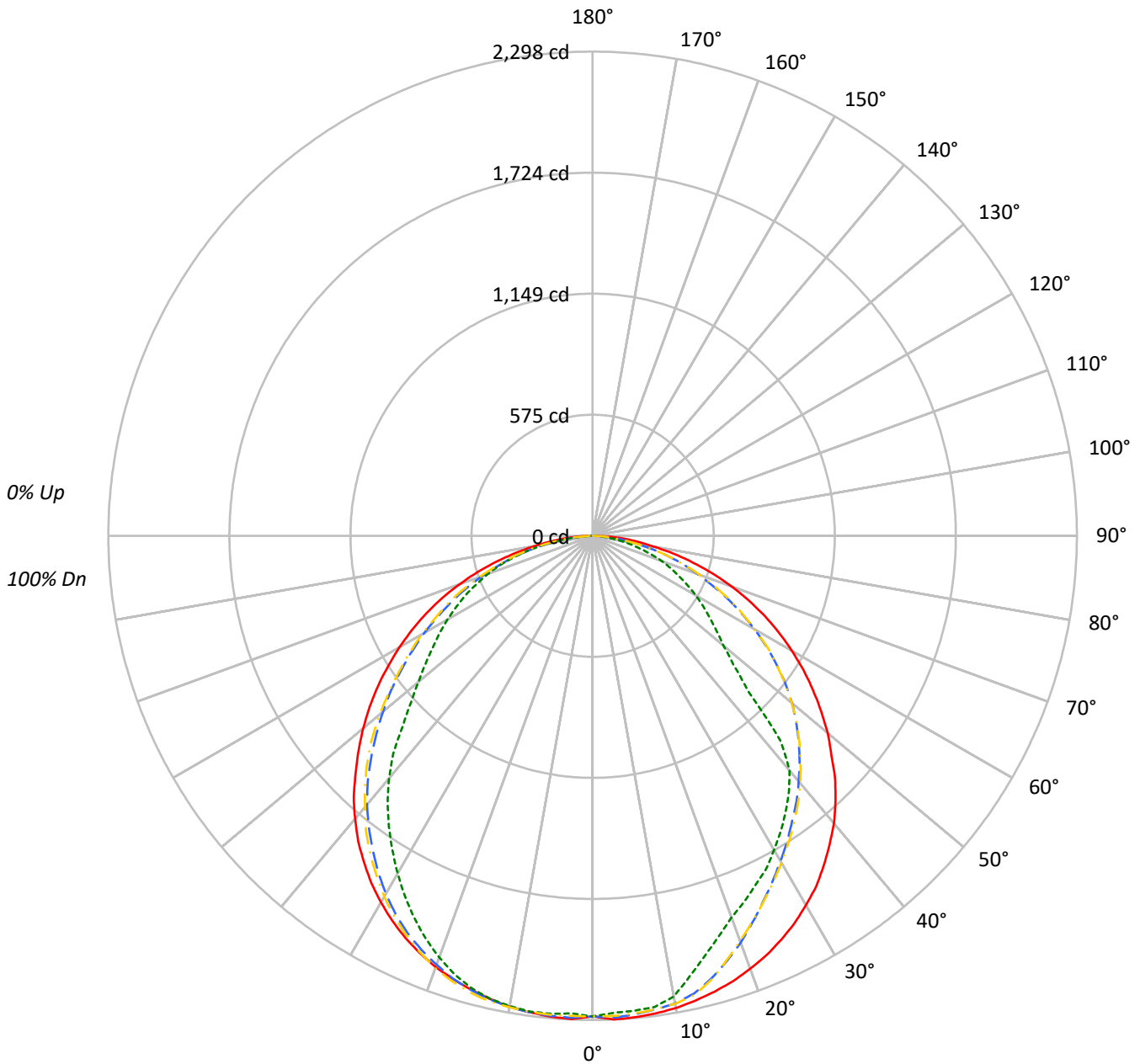
Lumens per Lamp: N/A
Luminaire Lumens: 6119.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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				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°	6138	6138	6138	6138
5°	6198	6112	6188	6152
10°	6219	6066	6202	6193
15°	6239	5744	6211	6191
20°	6262	5519	6238	6097
25°	6282	5428	6249	5944
30°	6289	5350	6243	5749
35°	6279	5246	6215	5535
40°	6259	5107	6160	5279
45°	6189	3968	6049	4843
50°	6096	3396	5948	4518
55°	5988	3180	5833	4346
60°	5874	3036	5697	4274
65°	5734	2875	5540	4223
70°	5508	2734	5276	4159
75°	5127	2405	4886	3957
80°	4551	2010	4266	3357
85°	4307	1436	3779	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	3.5
10°-20°	618.2	10.1
20°-30°	923.7	15.1
30°-40°	1099.5	18.0
40°-50°	1099.0	18.0
50°-60°	945.7	15.5
60°-70°	711.8	11.6
70°-80°	405.6	6.6
80°-90°	98.7	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°	1758.6	28.7
0°-40°	2858.1	46.7
0°-60°	4902.9	80.1
0°-90°	6119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6119.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2281	2281	2281	2281	2281	
5°	2294	2263	2291	2277	2294	218
15°	2239	2062	2230	2222	2239	633
25°	2116	1828	2105	2002	2116	976
35°	1911	1597	1892	1685	1911	1196
45°	1626	1043	1590	1273	1626	1252
55°	1276	678	1243	926	1276	1141
65°	901	452	870	663	901	889
75°	493	231	470	381	493	522
85°	140	46	122	62	140	152
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°	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0
2.5°	2298.1	2277.3	2289.5	2285.9	2266.3	2273.6	2281.0	2273.6	2295.6	2276.1	2289.5
5°	2294.4	2272.4	2279.7	2272.4	2262.6	2265.1	2276.1	2268.7	2290.8	2269.9	2287.1
7.5°	2287.1	2260.2	2267.5	2263.8	2255.3	2256.5	2267.5	2261.4	2281.0	2261.4	2281.0
10°	2276.1	2247.9	2254.0	2238.1	2219.8	2233.2	2255.3	2249.1	2269.9	2247.9	2269.9
12.5°	2258.9	2230.8	2224.7	2172.1	2139.0	2164.7	2232.0	2232.0	2251.6	2230.8	2254.0
15°	2239.4	2208.8	2175.7	2096.2	2061.9	2087.6	2180.6	2212.4	2229.6	2208.8	2232.0
17.5°	2216.1	2180.6	2117.0	2024.0	1992.2	2017.9	2113.3	2183.1	2205.1	2183.1	2203.9
20°	2186.7	2145.1	2054.6	1948.1	1927.3	1950.6	2046.0	2147.6	2178.2	2151.2	2165.9
22.5°	2154.9	2104.7	1984.8	1889.4	1879.6	1894.3	1981.2	2103.5	2143.9	2115.8	2125.6
25°	2115.8	2057.0	1915.1	1835.5	1828.2	1836.8	1917.5	2052.1	2104.7	2075.4	2079.1
27.5°	2074.2	2010.5	1849.0	1790.3	1782.9	1786.6	1853.9	1994.6	2059.5	2030.1	2024.0
30°	2024.0	1955.5	1782.9	1729.1	1721.7	1735.2	1792.7	1935.9	2009.3	1979.9	1961.6
32.5°	1973.8	1895.5	1718.1	1676.5	1661.8	1674.0	1729.1	1874.7	1954.2	1923.6	1893.1
35°	1911.4	1831.9	1650.8	1609.2	1596.9	1610.4	1665.4	1811.1	1891.8	1861.2	1819.6
37.5°	1846.6	1764.6	1589.6	1551.6	1529.6	1545.5	1600.6	1745.0	1827.0	1795.2	1743.8
40°	1781.7	1693.6	1521.0	1481.9	1453.7	1477.0	1533.3	1675.2	1753.5	1724.2	1665.4
42.5°	1705.8	1622.6	1453.7	1398.7	1319.1	1393.8	1461.1	1605.5	1677.7	1649.5	1578.6
45°	1626.3	1546.7	1382.8	1249.4	1042.6	1261.6	1387.7	1532.1	1589.6	1562.7	1485.6
47.5°	1535.7	1468.4	1310.6	1107.4	906.8	1119.7	1313.0	1462.3	1506.4	1477.0	1391.3
50°	1456.2	1390.1	1234.7	987.5	811.3	1001.0	1233.5	1384.0	1420.7	1393.8	1298.3
52.5°	1365.6	1308.1	1152.7	881.1	740.3	894.5	1150.3	1303.2	1332.6	1300.8	1205.3
55°	1276.3	1224.9	1065.8	786.8	677.9	799.1	1063.4	1220.0	1243.3	1206.6	1107.4
57.5°	1185.8	1139.3	976.5	702.4	620.4	715.9	982.6	1134.4	1150.3	1103.8	1013.2
60°	1091.5	1052.4	886.0	627.8	564.1	638.8	883.5	1048.7	1058.5	1008.3	921.4
62.5°	997.3	961.8	795.4	559.2	506.6	566.6	801.5	958.2	964.3	916.5	827.2
65°	900.6	867.6	707.3	487.0	451.5	499.3	713.4	863.9	870.0	816.2	735.4
67.5°	800.3	773.4	613.1	432.0	398.9	435.6	625.3	768.5	772.1	719.5	646.1
70°	700.0	676.7	529.9	372.0	347.5	373.2	538.4	663.2	670.6	614.3	555.6
72.5°	597.2	578.8	449.1	309.6	287.6	309.6	454.0	566.6	571.5	525.0	467.5
75°	493.1	479.7	367.1	248.4	231.3	247.2	369.6	469.9	469.9	425.8	380.6
77.5°	392.8	383.0	281.4	190.9	178.7	188.4	282.7	372.0	369.6	335.3	299.8
80°	293.7	286.3	201.9	138.3	129.7	134.6	201.9	275.3	275.3	250.9	208.0
82.5°	210.5	201.9	133.4	90.6	85.7	88.1	130.9	192.1	195.8	177.4	140.7
85°	139.5	119.9	72.2	50.2	46.5	47.7	68.5	111.4	122.4	102.8	73.4
87.5°	61.2	40.4	18.4	7.3	3.7	4.9	14.7	35.5	46.5	30.6	9.8
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°	2281.0	2281.0	2281.0	2281.0	2281.0	2281.0
2.5°	2288.3	2268.7	2276.1	2281.0	2276.1	2298.1
5°	2285.9	2277.3	2276.1	2282.2	2272.4	2294.4
7.5°	2282.2	2277.3	2276.1	2278.5	2266.3	2287.1
10°	2273.6	2266.3	2268.7	2272.4	2256.5	2276.1
12.5°	2257.7	2250.4	2251.6	2263.8	2241.8	2258.9
15°	2230.8	2222.2	2230.8	2244.3	2224.7	2239.4
17.5°	2195.3	2181.8	2196.5	2217.3	2202.6	2216.1
20°	2150.0	2129.2	2145.1	2183.1	2169.6	2186.7
22.5°	2095.0	2069.3	2085.2	2140.2	2136.6	2154.9
25°	2032.6	2002.0	2024.0	2091.3	2098.6	2115.8
27.5°	1962.8	1928.5	1957.9	2037.4	2054.6	2074.2
30°	1886.9	1850.2	1884.5	1977.5	2003.2	2024.0
32.5°	1808.6	1768.2	1807.4	1910.2	1946.9	1973.8
35°	1726.6	1685.0	1729.1	1840.4	1884.5	1911.4
37.5°	1638.5	1598.1	1645.9	1767.0	1819.6	1846.6
40°	1548.0	1502.7	1556.5	1680.1	1749.9	1781.7
42.5°	1455.0	1398.7	1464.8	1598.1	1674.0	1705.8
45°	1351.0	1272.6	1362.0	1511.3	1590.8	1626.3
47.5°	1246.9	1168.6	1259.2	1418.3	1503.9	1535.7
50°	1146.6	1079.3	1151.5	1316.7	1415.8	1456.2
52.5°	1054.8	999.8	1060.9	1217.6	1325.3	1365.6
55°	969.2	926.3	976.5	1119.7	1229.8	1276.3
57.5°	888.4	861.5	895.7	1026.7	1141.7	1185.8
60°	812.5	794.2	818.6	934.9	1037.7	1091.5
62.5°	737.9	728.1	746.5	838.2	941.0	997.3
65°	665.7	663.2	673.0	753.8	839.5	900.6
67.5°	593.5	592.3	598.4	664.5	740.3	800.3
70°	521.3	528.6	525.0	567.8	641.2	700.0
72.5°	447.9	458.9	452.8	479.7	550.7	597.2
75°	365.9	380.6	368.3	398.9	443.0	493.1
77.5°	281.4	297.4	282.7	309.6	357.3	392.8
80°	201.9	216.6	204.4	225.2	266.8	293.7
82.5°	127.3	138.3	128.5	149.3	190.9	210.5
85°	56.3	62.4	64.9	80.8	117.5	139.5
87.5°	2.4	1.2	2.4	15.9	41.6	61.2
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)