

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: P520780

Luminaire Tested: **8WSLA-75-L850-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520780
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-L850-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

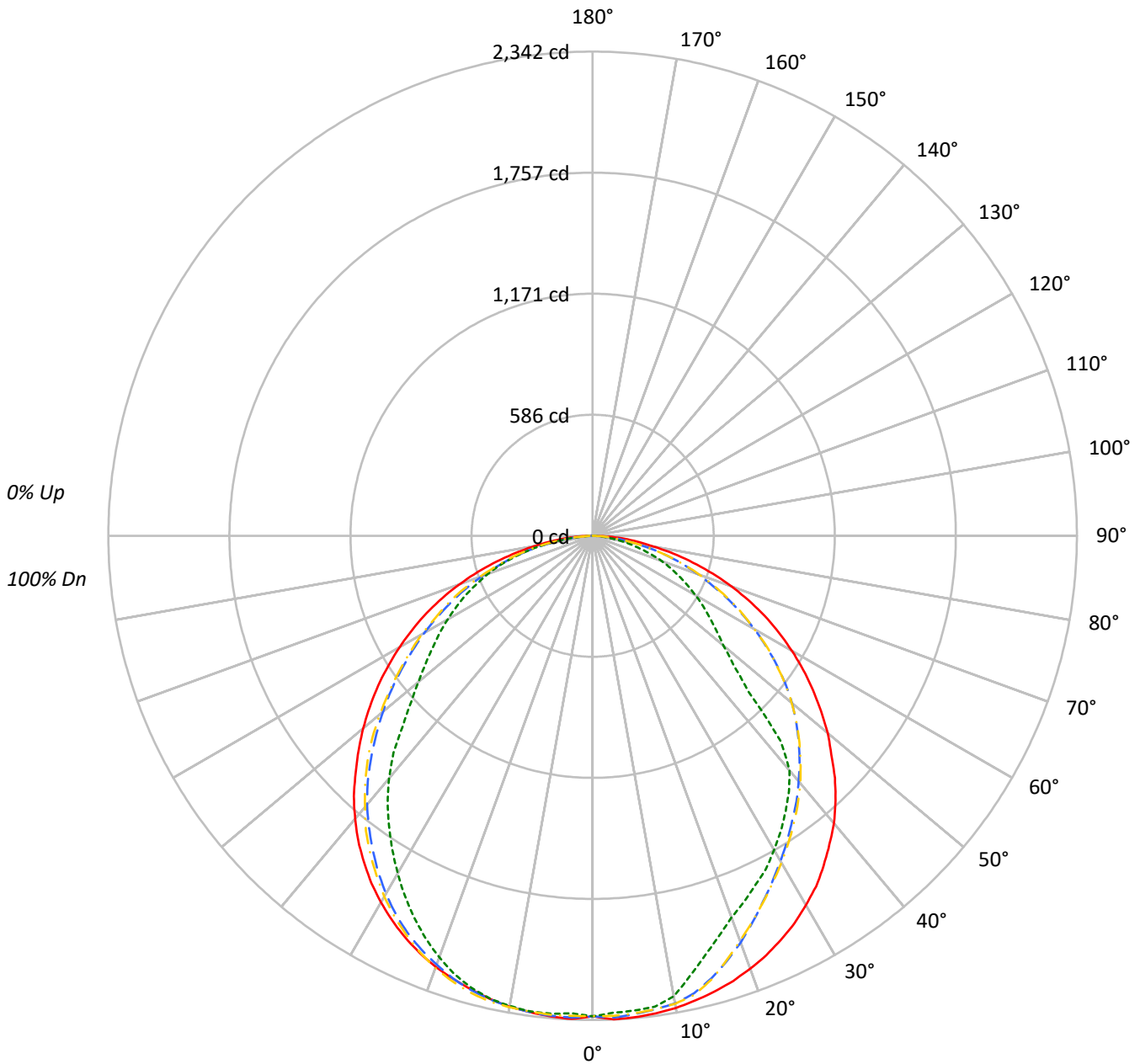
Lumens per Lamp: N/A
Luminaire Lumens: 6235.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	6254	6254	6254	6254
5°	6315	6228	6305	6268
10°	6337	6181	6320	6310
15°	6357	5853	6329	6308
20°	6381	5624	6356	6213
25°	6401	5531	6368	6057
30°	6408	5451	6362	5858
35°	6398	5345	6333	5640
40°	6378	5204	6277	5379
45°	6306	4043	6164	4935
50°	6212	3461	6060	4604
55°	6101	3241	5943	4428
60°	5986	3094	5805	4355
65°	5843	2930	5645	4303
70°	5611	2786	5376	4238
75°	5225	2451	4978	4032
80°	4638	2049	4348	3420
85°	4387	1463	3850	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	3.5
10°-20°	629.9	10.1
20°-30°	941.2	15.1
30°-40°	1120.4	18.0
40°-50°	1119.9	18.0
50°-60°	963.6	15.5
60°-70°	725.3	11.6
70°-80°	413.3	6.6
80°-90°	100.6	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°	1791.9	28.7
0°-40°	2912.3	46.7
0°-60°	4995.8	80.1
0°-90°	6235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6235.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2324	2324	2324	2324	2324	
5°	2338	2306	2334	2320	2338	223
15°	2282	2101	2272	2264	2282	645
25°	2156	1863	2145	2040	2156	994
35°	1948	1627	1928	1717	1948	1219
45°	1657	1062	1620	1297	1657	1276
55°	1300	691	1267	944	1300	1163
65°	918	460	886	676	918	906
75°	502	236	479	388	502	532
85°	142	47	125	64	142	155
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°	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2
2.5°	2341.7	2320.5	2332.9	2329.2	2309.2	2316.7	2324.2	2316.7	2339.2	2319.2	2332.9
5°	2337.9	2315.5	2323.0	2315.5	2305.5	2308.0	2319.2	2311.7	2334.2	2313.0	2330.4
7.5°	2330.4	2303.0	2310.5	2306.7	2298.0	2299.3	2310.5	2304.3	2324.2	2304.3	2324.2
10°	2319.2	2290.5	2296.8	2280.6	2261.9	2275.6	2298.0	2291.8	2313.0	2290.5	2313.0
12.5°	2301.8	2273.1	2266.8	2213.2	2179.6	2205.7	2274.3	2274.3	2294.3	2273.1	2296.8
15°	2281.8	2250.6	2217.0	2135.9	2101.0	2127.2	2222.0	2254.4	2271.8	2250.6	2274.3
17.5°	2258.1	2222.0	2157.1	2062.4	2029.9	2056.1	2153.4	2224.5	2246.9	2224.5	2245.6
20°	2228.2	2185.8	2093.5	1985.0	1963.9	1987.5	2084.8	2188.3	2219.5	2192.0	2207.0
22.5°	2195.8	2144.6	2022.5	1925.2	1915.2	1930.2	2018.7	2143.4	2184.6	2155.9	2165.8
25°	2155.9	2096.0	1951.4	1870.3	1862.9	1871.6	1953.9	2091.0	2144.6	2114.7	2118.5
27.5°	2113.5	2048.6	1884.1	1824.2	1816.7	1820.5	1889.0	2032.4	2098.5	2068.6	2062.4
30°	2062.4	1992.5	1816.7	1761.9	1754.4	1768.1	1826.7	1972.6	2047.4	2017.5	1998.8
32.5°	2011.2	1931.4	1750.6	1708.2	1693.3	1705.7	1761.9	1910.2	1991.3	1960.1	1928.9
35°	1947.6	1866.6	1682.1	1639.7	1627.2	1640.9	1697.0	1845.4	1927.7	1896.5	1854.1
37.5°	1881.6	1798.0	1619.7	1581.1	1558.6	1574.8	1630.9	1778.1	1861.6	1829.2	1776.8
40°	1815.5	1725.7	1549.9	1510.0	1481.3	1505.0	1562.4	1707.0	1786.8	1756.9	1697.0
42.5°	1738.2	1653.4	1481.3	1425.2	1344.1	1420.2	1488.8	1635.9	1709.5	1680.8	1608.5
45°	1657.1	1576.1	1409.0	1273.1	1062.3	1285.5	1414.0	1561.1	1619.7	1592.3	1513.7
47.5°	1564.8	1496.3	1335.4	1128.4	923.9	1140.9	1337.9	1490.0	1534.9	1505.0	1417.7
50°	1483.8	1416.5	1258.1	1006.2	826.7	1020.0	1256.9	1410.2	1447.6	1420.2	1322.9
52.5°	1391.5	1332.9	1174.6	897.8	754.4	911.5	1172.1	1327.9	1357.9	1325.4	1228.2
55°	1300.5	1248.1	1086.0	801.7	690.8	814.2	1083.5	1243.1	1266.8	1229.4	1128.4
57.5°	1208.2	1160.9	995.0	715.7	632.2	729.4	1001.3	1155.9	1172.1	1124.7	1032.4
60°	1112.2	1072.3	902.7	639.7	574.8	650.9	900.3	1068.6	1078.6	1027.4	938.9
62.5°	1016.2	980.1	810.5	569.8	516.2	577.3	816.7	976.3	982.5	933.9	842.9
65°	917.7	884.0	720.7	496.3	460.1	508.7	726.9	880.3	886.5	831.7	749.4
67.5°	815.5	788.0	624.7	440.2	406.5	443.9	637.2	783.0	786.8	733.2	658.4
70°	713.2	689.5	539.9	379.1	354.1	380.3	548.6	675.8	683.3	625.9	566.1
72.5°	608.5	589.8	457.6	315.5	293.0	315.5	462.6	577.3	582.3	534.9	476.3
75°	502.5	488.8	374.1	253.1	235.7	251.9	376.6	478.8	478.8	433.9	387.8
77.5°	400.3	390.3	286.8	194.5	182.0	192.0	288.0	379.1	376.6	341.6	305.5
80°	299.3	291.8	205.7	140.9	132.2	137.2	205.7	280.6	280.6	255.6	212.0
82.5°	214.5	205.7	135.9	92.3	87.3	89.8	133.4	195.8	199.5	180.8	143.4
85°	142.1	122.2	73.6	51.1	47.4	48.6	69.8	113.5	124.7	104.7	74.8
87.5°	62.3	41.1	18.7	7.5	3.7	5.0	15.0	36.2	47.4	31.2	10.0
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°	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2
2.5°	2331.7	2311.7	2319.2	2324.2	2319.2	2341.7
5°	2329.2	2320.5	2319.2	2325.4	2315.5	2337.9
7.5°	2325.4	2320.5	2319.2	2321.7	2309.2	2330.4
10°	2316.7	2309.2	2311.7	2315.5	2299.3	2319.2
12.5°	2300.5	2293.0	2294.3	2306.7	2284.3	2301.8
15°	2273.1	2264.4	2273.1	2286.8	2266.8	2281.8
17.5°	2236.9	2223.2	2238.2	2259.4	2244.4	2258.1
20°	2190.8	2169.6	2185.8	2224.5	2210.7	2228.2
22.5°	2134.7	2108.5	2124.7	2180.8	2177.1	2195.8
25°	2071.1	2039.9	2062.4	2130.9	2138.4	2155.9
27.5°	2000.0	1965.1	1995.0	2076.1	2093.5	2113.5
30°	1922.7	1885.3	1920.2	2015.0	2041.2	2062.4
32.5°	1842.9	1801.8	1841.7	1946.4	1983.8	2011.2
35°	1759.4	1717.0	1761.9	1875.3	1920.2	1947.6
37.5°	1669.6	1628.4	1677.1	1800.5	1854.1	1881.6
40°	1577.3	1531.2	1586.0	1712.0	1783.1	1815.5
42.5°	1482.6	1425.2	1492.5	1628.4	1705.7	1738.2
45°	1376.6	1296.8	1387.8	1539.9	1621.0	1657.1
47.5°	1270.6	1190.8	1283.0	1445.1	1532.4	1564.8
50°	1168.3	1099.8	1173.3	1341.7	1442.7	1483.8
52.5°	1074.8	1018.7	1081.1	1240.7	1350.4	1391.5
55°	987.5	943.9	995.0	1140.9	1253.1	1300.5
57.5°	905.2	877.8	912.7	1046.1	1163.3	1208.2
60°	827.9	809.2	834.2	952.6	1057.4	1112.2
62.5°	751.9	741.9	760.6	854.1	958.9	1016.2
65°	678.3	675.8	685.8	768.1	855.4	917.7
67.5°	604.7	603.5	609.7	677.1	754.4	815.5
70°	531.2	538.7	534.9	578.6	653.4	713.2
72.5°	456.4	467.6	461.3	488.8	561.1	608.5
75°	372.8	387.8	375.3	406.5	451.4	502.5
77.5°	286.8	303.0	288.0	315.5	364.1	400.3
80°	205.7	220.7	208.2	229.4	271.8	299.3
82.5°	129.7	140.9	130.9	152.1	194.5	214.5
85°	57.4	63.6	66.1	82.3	119.7	142.1
87.5°	2.5	1.2	2.5	16.2	42.4	62.3
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)