

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: P520534

Luminaire Tested: **4WSLA-175-L835-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520534
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-L835-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

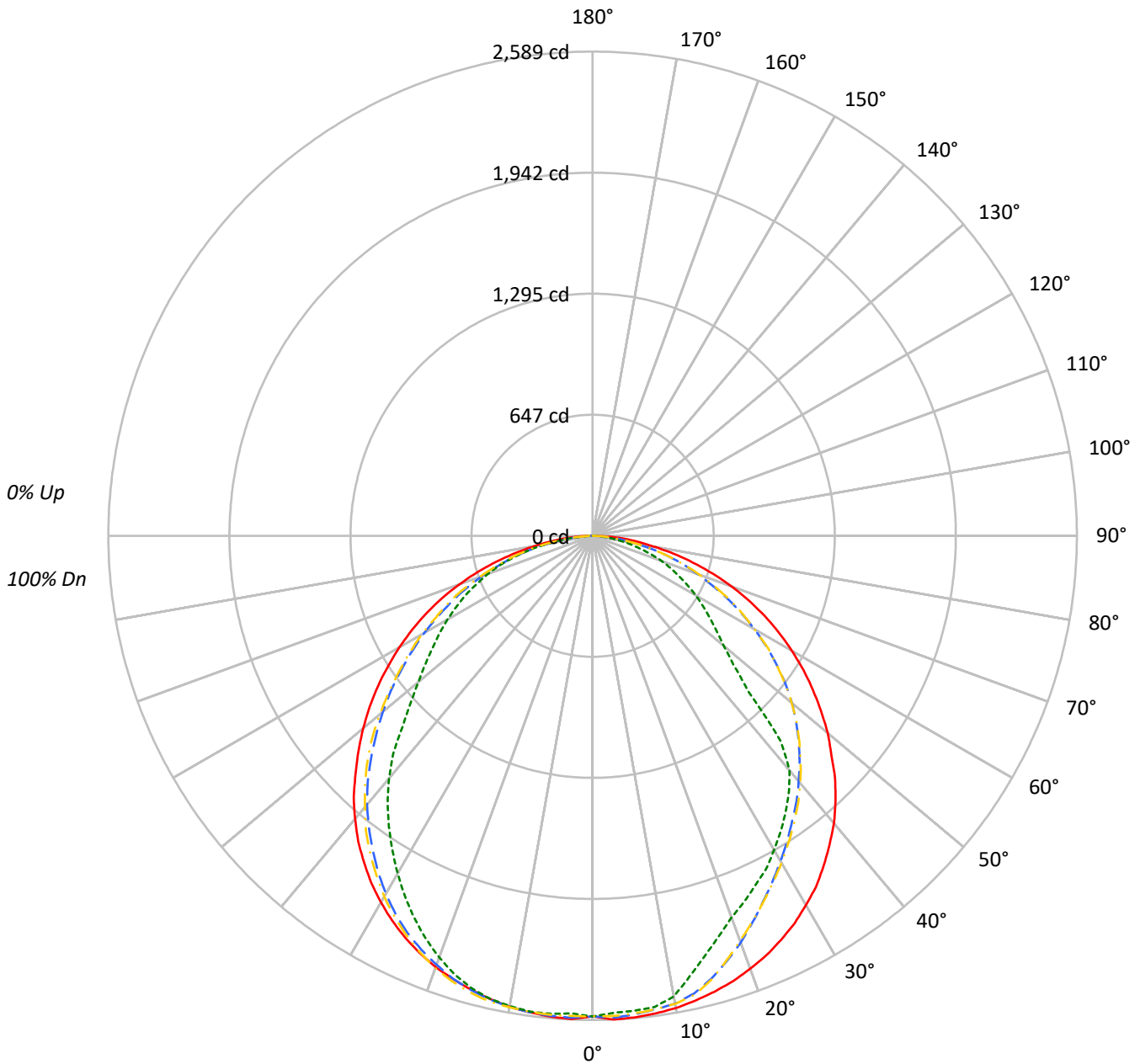
Lumens per Lamp: N/A
Luminaire Lumens: 6894.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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°	13831	13831	13831	13831
5°	13966	13772	13943	13861
10°	14014	13667	13976	13954
15°	14058	12944	13996	13950
20°	14110	12436	14055	13739
25°	14155	12231	14082	13394
30°	14171	12055	14068	12955
35°	14149	11821	14004	12473
40°	14103	11507	13880	11894
45°	13946	8940	13631	10913
50°	13736	7654	13402	10181
55°	13493	7167	13143	9793
60°	13237	6842	12837	9632
65°	12922	6478	12483	9515
70°	12409	6161	11888	9372
75°	11553	5419	11008	8917
80°	10256	4528	9614	7562
85°	9707	3236	8515	4341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	3.5
10°-20°	696.4	10.1
20°-30°	1040.7	15.1
30°-40°	1238.8	18.0
40°-50°	1238.2	18.0
50°-60°	1065.5	15.5
60°-70°	801.9	11.6
70°-80°	457.0	6.6
80°-90°	111.2	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°	1981.3	28.7
0°-40°	3220.1	46.7
0°-60°	5523.8	80.1
0°-90°	6894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6894.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2570	2570	2570	2570	2570	
5°	2585	2549	2581	2566	2585	246
15°	2523	2323	2512	2504	2523	713
25°	2384	2060	2371	2256	2384	1099
35°	2154	1799	2131	1898	2154	1347
45°	1832	1175	1791	1434	1832	1411
55°	1438	764	1401	1044	1438	1286
65°	1015	509	980	747	1015	1002
75°	556	261	529	429	556	588
85°	157	52	138	70	157	171
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°	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9
2.5°	2589.2	2565.7	2579.5	2575.4	2553.3	2561.6	2569.9	2561.6	2586.4	2564.3	2579.5
5°	2585.0	2560.2	2568.5	2560.2	2549.2	2551.9	2564.3	2556.1	2580.9	2557.4	2576.7
7.5°	2576.7	2546.4	2554.7	2550.6	2540.9	2542.3	2554.7	2547.8	2569.9	2547.8	2569.9
10°	2564.3	2532.6	2539.5	2521.6	2500.9	2516.1	2540.9	2534.0	2557.4	2532.6	2557.4
12.5°	2545.0	2513.3	2506.4	2447.2	2409.9	2438.9	2514.7	2514.7	2536.8	2513.3	2539.5
15°	2523.0	2488.5	2451.3	2361.7	2323.1	2352.0	2456.8	2492.6	2512.0	2488.5	2514.7
17.5°	2496.8	2456.8	2385.1	2280.3	2244.5	2273.4	2381.0	2459.6	2484.4	2459.6	2483.0
20°	2463.7	2416.8	2314.8	2194.9	2171.4	2197.6	2305.1	2419.6	2454.0	2423.7	2440.3
22.5°	2427.9	2371.3	2236.2	2128.7	2117.6	2134.2	2232.1	2369.9	2415.4	2383.7	2394.8
25°	2383.7	2317.6	2157.6	2068.0	2059.7	2069.4	2160.4	2312.0	2371.3	2338.2	2342.4
27.5°	2336.9	2265.2	2083.2	2017.0	2008.7	2012.9	2088.7	2247.2	2320.3	2287.2	2280.3
30°	2280.3	2203.1	2008.7	1948.1	1939.8	1955.0	2019.8	2181.1	2263.8	2230.7	2210.0
32.5°	2223.8	2135.6	1935.7	1888.8	1872.2	1886.0	1948.1	2112.1	2201.7	2167.3	2132.8
35°	2153.5	2063.9	1859.8	1813.0	1799.2	1814.3	1876.4	2040.4	2131.4	2097.0	2050.1
37.5°	2080.4	1988.1	1790.9	1748.2	1723.3	1741.3	1803.3	1966.0	2058.4	2022.5	1964.6
40°	2007.4	1908.1	1713.7	1669.6	1637.9	1664.1	1727.5	1887.4	1975.6	1942.6	1876.4
42.5°	1921.9	1828.1	1637.9	1575.8	1486.2	1570.3	1646.1	1808.8	1890.2	1858.5	1778.5
45°	1832.3	1742.6	1557.9	1407.6	1174.6	1421.4	1563.4	1726.1	1790.9	1760.6	1673.7
47.5°	1730.2	1654.4	1476.6	1247.7	1021.6	1261.5	1479.3	1647.5	1697.2	1664.1	1567.6
50°	1640.6	1566.2	1391.1	1112.6	914.1	1127.8	1389.7	1559.3	1600.6	1570.3	1462.8
52.5°	1538.6	1473.8	1298.7	992.6	834.1	1007.8	1296.0	1468.3	1501.4	1465.5	1358.0
55°	1438.0	1380.1	1200.8	886.5	763.8	900.3	1198.1	1374.5	1400.7	1359.4	1247.7
57.5°	1335.9	1283.5	1100.2	791.4	699.0	806.5	1107.1	1278.0	1296.0	1243.6	1141.5
60°	1229.8	1185.7	998.2	707.3	635.6	719.7	995.4	1181.5	1192.6	1136.0	1038.1
62.5°	1123.6	1083.6	896.1	630.1	570.8	638.3	903.0	1079.5	1086.4	1032.6	932.0
65°	1014.7	977.5	796.9	548.7	508.7	562.5	803.8	973.3	980.2	919.6	828.6
67.5°	901.7	871.3	690.7	486.7	449.4	490.8	704.5	865.8	869.9	810.7	727.9
70°	788.6	762.4	597.0	419.1	391.5	420.5	606.6	747.2	755.5	692.1	625.9
72.5°	672.8	652.1	506.0	348.8	324.0	348.8	511.5	638.3	643.8	591.5	526.7
75°	555.6	540.4	413.6	279.9	260.6	278.5	416.4	529.4	529.4	479.8	428.8
77.5°	442.6	431.5	317.1	215.1	201.3	212.3	318.5	419.1	416.4	377.8	337.8
80°	330.9	322.6	227.5	155.8	146.1	151.7	227.5	310.2	310.2	282.6	234.4
82.5°	237.1	227.5	150.3	102.0	96.5	99.3	147.5	216.5	220.6	199.9	158.5
85°	157.2	135.1	81.3	56.5	52.4	53.8	77.2	125.5	137.9	115.8	82.7
87.5°	68.9	45.5	20.7	8.3	4.1	5.5	16.5	40.0	52.4	34.5	11.0
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°	2569.9	2569.9	2569.9	2569.9	2569.9	2569.9
2.5°	2578.1	2556.1	2564.3	2569.9	2564.3	2589.2
5°	2575.4	2565.7	2564.3	2571.2	2560.2	2585.0
7.5°	2571.2	2565.7	2564.3	2567.1	2553.3	2576.7
10°	2561.6	2553.3	2556.1	2560.2	2542.3	2564.3
12.5°	2543.7	2535.4	2536.8	2550.6	2525.7	2545.0
15°	2513.3	2503.7	2513.3	2528.5	2506.4	2523.0
17.5°	2473.3	2458.2	2474.7	2498.2	2481.6	2496.8
20°	2422.3	2398.9	2416.8	2459.6	2444.4	2463.7
22.5°	2360.3	2331.3	2349.3	2411.3	2407.2	2427.9
25°	2290.0	2255.5	2280.3	2356.2	2364.4	2383.7
27.5°	2211.4	2172.8	2205.9	2295.5	2314.8	2336.9
30°	2125.9	2084.6	2123.2	2227.9	2256.9	2280.3
32.5°	2037.7	1992.2	2036.3	2152.1	2193.5	2223.8
35°	1945.3	1898.4	1948.1	2073.5	2123.2	2153.5
37.5°	1846.0	1800.6	1854.3	1990.8	2050.1	2080.4
40°	1744.0	1693.0	1753.7	1892.9	1971.5	2007.4
42.5°	1639.2	1575.8	1650.3	1800.6	1886.0	1921.9
45°	1522.1	1433.8	1534.5	1702.7	1792.3	1832.3
47.5°	1404.9	1316.6	1418.7	1597.9	1694.4	1730.2
50°	1291.8	1216.0	1297.3	1483.5	1595.1	1640.6
52.5°	1188.4	1126.4	1195.3	1371.8	1493.1	1538.6
55°	1091.9	1043.7	1100.2	1261.5	1385.6	1438.0
57.5°	1000.9	970.6	1009.2	1156.7	1286.3	1335.9
60°	915.4	894.8	922.3	1053.3	1169.1	1229.8
62.5°	831.3	820.3	841.0	944.4	1060.2	1123.6
65°	750.0	747.2	758.3	849.3	945.8	1014.7
67.5°	668.7	667.3	674.2	748.6	834.1	901.7
70°	587.3	595.6	591.5	639.7	722.4	788.6
72.5°	504.6	517.0	510.1	540.4	620.4	672.8
75°	412.2	428.8	415.0	449.4	499.1	555.6
77.5°	317.1	335.0	318.5	348.8	402.6	442.6
80°	227.5	244.0	230.2	253.7	300.6	330.9
82.5°	143.4	155.8	144.8	168.2	215.1	237.1
85°	63.4	70.3	73.1	91.0	132.4	157.2
87.5°	2.8	1.4	2.8	17.9	46.9	68.9
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)