

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: P520531

Luminaire Tested: **4WSLA-175-L830-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520531
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-L830-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

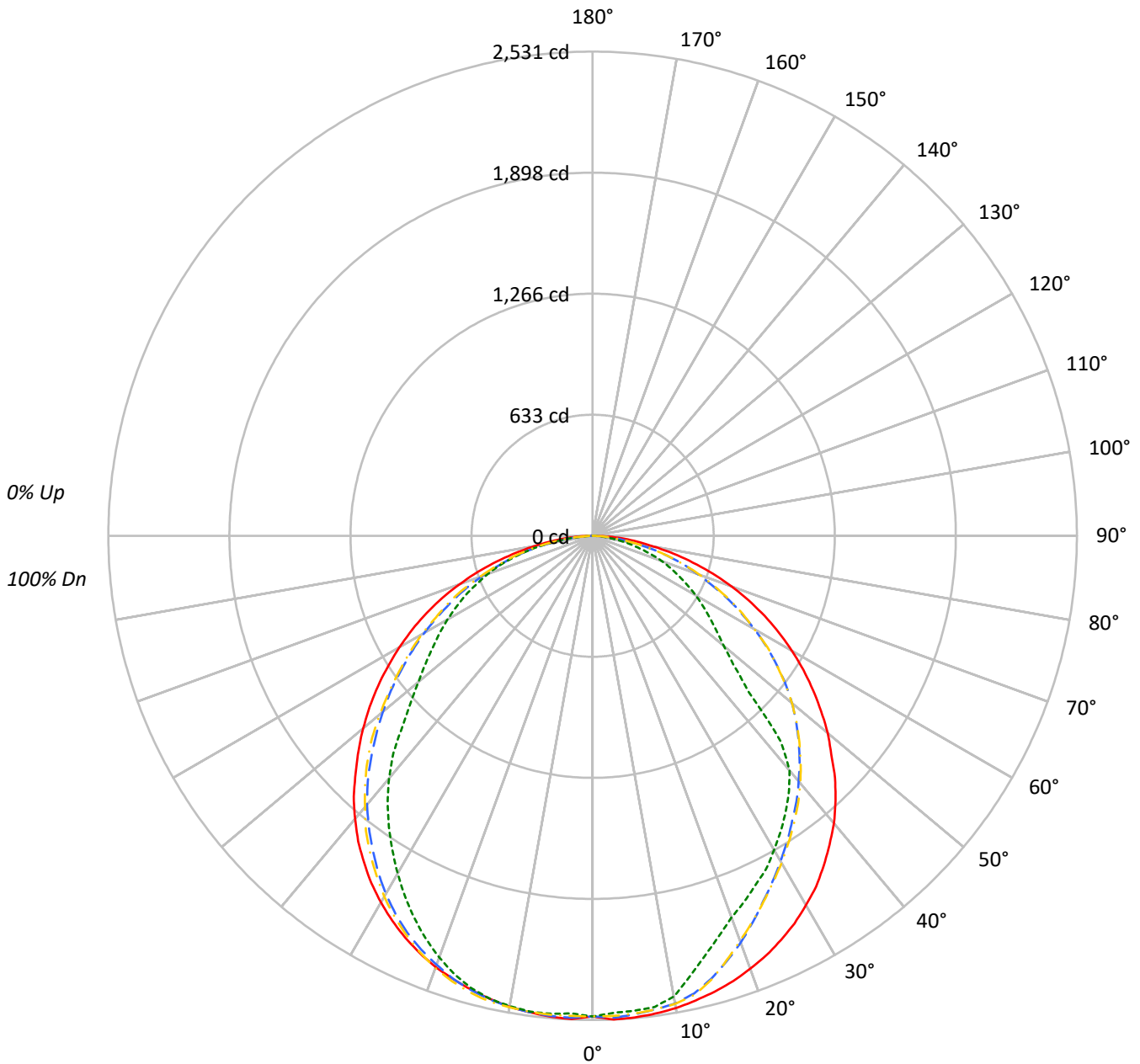
Lumens per Lamp: N/A
Luminaire Lumens: 6740.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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°	13522	13522	13522	13522
5°	13654	13464	13632	13552
10°	13701	13362	13664	13642
15°	13743	12655	13683	13639
20°	13795	12159	13741	13432
25°	13839	11958	13767	13095
30°	13855	11786	13754	12665
35°	13833	11557	13691	12194
40°	13788	11250	13570	11629
45°	13634	8741	13327	10669
50°	13430	7482	13103	9954
55°	13191	7006	12849	9574
60°	12941	6689	12550	9416
65°	12633	6334	12204	9304
70°	12132	6024	11622	9163
75°	11295	5296	10763	8717
80°	10026	4429	9400	7395
85°	9491	3162	8324	4242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	3.5
10°-20°	680.9	10.1
20°-30°	1017.4	15.1
30°-40°	1211.1	18.0
40°-50°	1210.6	18.0
50°-60°	1041.7	15.5
60°-70°	784.0	11.6
70°-80°	446.8	6.6
80°-90°	108.7	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°	1937.1	28.7
0°-40°	3148.2	46.7
0°-60°	5400.4	80.1
0°-90°	6740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6740.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2512	2512	2512	2512	2512	
5°	2527	2492	2523	2508	2527	241
15°	2467	2271	2456	2448	2467	697
25°	2330	2014	2318	2205	2330	1075
35°	2105	1759	2084	1856	2105	1317
45°	1791	1148	1751	1402	1791	1380
55°	1406	747	1369	1020	1406	1257
65°	992	497	958	731	992	980
75°	543	255	518	419	543	575
85°	154	51	135	69	154	167
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°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2531.3	2508.4	2521.9	2517.8	2496.3	2504.4	2512.4	2504.4	2528.6	2507.1	2521.9
5°	2527.3	2503.0	2511.1	2503.0	2492.2	2494.9	2507.1	2499.0	2523.2	2500.3	2519.2
7.5°	2519.2	2489.5	2497.6	2493.6	2484.1	2485.5	2497.6	2490.9	2512.4	2490.9	2512.4
10°	2507.1	2476.1	2482.8	2465.3	2445.1	2459.9	2484.1	2477.4	2500.3	2476.1	2500.3
12.5°	2488.2	2457.2	2450.4	2392.5	2356.1	2384.4	2458.5	2458.5	2480.1	2457.2	2482.8
15°	2466.6	2432.9	2396.5	2308.9	2271.2	2299.5	2401.9	2437.0	2455.8	2432.9	2458.5
17.5°	2441.0	2401.9	2331.8	2229.4	2194.3	2222.7	2327.8	2404.6	2428.9	2404.6	2427.5
20°	2408.7	2362.8	2263.1	2145.8	2122.9	2148.5	2253.7	2365.5	2399.2	2369.6	2385.7
22.5°	2373.6	2318.4	2186.3	2081.1	2070.3	2086.5	2182.2	2317.0	2361.5	2330.5	2341.3
25°	2330.5	2265.8	2109.4	2021.8	2013.7	2023.2	2112.1	2260.4	2318.4	2286.0	2290.0
27.5°	2284.7	2214.6	2036.6	1971.9	1963.9	1967.9	2042.0	2197.0	2268.5	2236.1	2229.4
30°	2229.4	2153.9	1963.9	1904.6	1896.5	1911.3	1974.6	2132.3	2213.2	2180.9	2160.7
32.5°	2174.1	2087.9	1892.4	1846.6	1830.4	1843.9	1904.6	2065.0	2152.6	2118.9	2085.2
35°	2105.4	2017.8	1818.3	1772.5	1759.0	1773.8	1834.5	1994.9	2083.8	2050.1	2004.3
37.5°	2034.0	1943.6	1750.9	1709.1	1684.9	1702.4	1763.0	1922.1	2012.4	1977.3	1920.7
40°	1962.5	1865.5	1675.4	1632.3	1601.3	1626.9	1688.9	1845.2	1931.5	1899.2	1834.5
42.5°	1878.9	1787.3	1601.3	1540.6	1453.0	1535.2	1609.4	1768.4	1847.9	1816.9	1738.8
45°	1791.3	1703.7	1523.1	1376.2	1148.4	1389.7	1528.5	1687.5	1750.9	1721.2	1636.3
47.5°	1691.6	1617.5	1443.6	1219.8	998.8	1233.3	1446.3	1610.7	1659.2	1626.9	1532.5
50°	1604.0	1531.2	1360.0	1087.7	893.6	1102.6	1358.7	1524.5	1564.9	1535.2	1430.1
52.5°	1504.2	1440.9	1269.7	970.5	815.5	985.3	1267.0	1435.5	1467.8	1432.8	1327.7
55°	1405.8	1349.2	1174.0	866.7	746.7	880.2	1171.3	1343.8	1369.4	1329.0	1219.8
57.5°	1306.1	1254.9	1075.6	773.7	683.4	788.5	1082.3	1249.5	1267.0	1215.8	1116.0
60°	1202.3	1159.2	975.9	691.5	621.4	703.6	973.2	1155.1	1165.9	1110.7	1015.0
62.5°	1098.5	1059.4	876.1	616.0	558.0	624.1	882.9	1055.4	1062.1	1009.6	911.2
65°	992.0	955.6	779.1	536.5	497.4	549.9	785.8	951.6	958.3	899.0	810.1
67.5°	881.5	851.9	675.3	475.8	439.4	479.8	688.8	846.5	850.5	792.6	711.7
70°	771.0	745.4	583.6	409.8	382.8	411.1	593.1	730.6	738.6	676.6	611.9
72.5°	657.8	637.5	494.7	341.0	316.8	341.0	500.1	624.1	629.5	578.2	514.9
75°	543.2	528.4	404.4	273.6	254.7	272.3	407.1	517.6	517.6	469.1	419.2
77.5°	432.7	421.9	310.0	210.3	196.8	207.6	311.4	409.8	407.1	369.3	330.2
80°	323.5	315.4	222.4	152.3	142.9	148.3	222.4	303.3	303.3	276.3	229.1
82.5°	231.8	222.4	146.9	99.7	94.4	97.0	144.2	211.6	215.7	195.4	155.0
85°	153.7	132.1	79.5	55.3	51.2	52.6	75.5	122.7	134.8	113.2	80.9
87.5°	67.4	44.5	20.2	8.1	4.0	5.4	16.2	39.1	51.2	33.7	10.8
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°	2512.4	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2520.5	2499.0	2507.1	2512.4	2507.1	2531.3
5°	2517.8	2508.4	2507.1	2513.8	2503.0	2527.3
7.5°	2513.8	2508.4	2507.1	2509.8	2496.3	2519.2
10°	2504.4	2496.3	2499.0	2503.0	2485.5	2507.1
12.5°	2486.8	2478.8	2480.1	2493.6	2469.3	2488.2
15°	2457.2	2447.8	2457.2	2472.0	2450.4	2466.6
17.5°	2418.1	2403.3	2419.4	2442.4	2426.2	2441.0
20°	2368.2	2345.3	2362.8	2404.6	2389.8	2408.7
22.5°	2307.6	2279.3	2296.8	2357.4	2353.4	2373.6
25°	2238.8	2205.1	2229.4	2303.5	2311.6	2330.5
27.5°	2162.0	2124.3	2156.6	2244.2	2263.1	2284.7
30°	2078.4	2038.0	2075.7	2178.2	2206.5	2229.4
32.5°	1992.2	1947.7	1990.8	2104.0	2144.5	2174.1
35°	1901.9	1856.0	1904.6	2027.2	2075.7	2105.4
37.5°	1804.8	1760.3	1812.9	1946.3	2004.3	2034.0
40°	1705.1	1655.2	1714.5	1850.6	1927.5	1962.5
42.5°	1602.6	1540.6	1613.4	1760.3	1843.9	1878.9
45°	1488.1	1401.8	1500.2	1664.6	1752.2	1791.3
47.5°	1373.5	1287.2	1387.0	1562.2	1656.5	1691.6
50°	1263.0	1188.8	1268.4	1450.3	1559.5	1604.0
52.5°	1161.9	1101.2	1168.6	1341.1	1459.8	1504.2
55°	1067.5	1020.3	1075.6	1233.3	1354.6	1405.8
57.5°	978.6	948.9	986.6	1130.9	1257.6	1306.1
60°	895.0	874.8	901.7	1029.8	1143.0	1202.3
62.5°	812.8	802.0	822.2	923.3	1036.5	1098.5
65°	733.2	730.6	741.3	830.3	924.6	992.0
67.5°	653.7	652.4	659.1	731.9	815.5	881.5
70°	574.2	582.3	578.2	625.4	706.3	771.0
72.5°	493.3	505.5	498.7	528.4	606.5	657.8
75°	403.0	419.2	405.7	439.4	487.9	543.2
77.5°	310.0	327.5	311.4	341.0	393.6	432.7
80°	222.4	238.6	225.1	248.0	293.8	323.5
82.5°	140.2	152.3	141.5	164.4	210.3	231.8
85°	62.0	68.7	71.4	89.0	129.4	153.7
87.5°	2.7	1.3	2.7	17.5	45.8	67.4
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)