

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: P520537

Luminaire Tested: **4WSLA-175-L840-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520537
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-L840-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

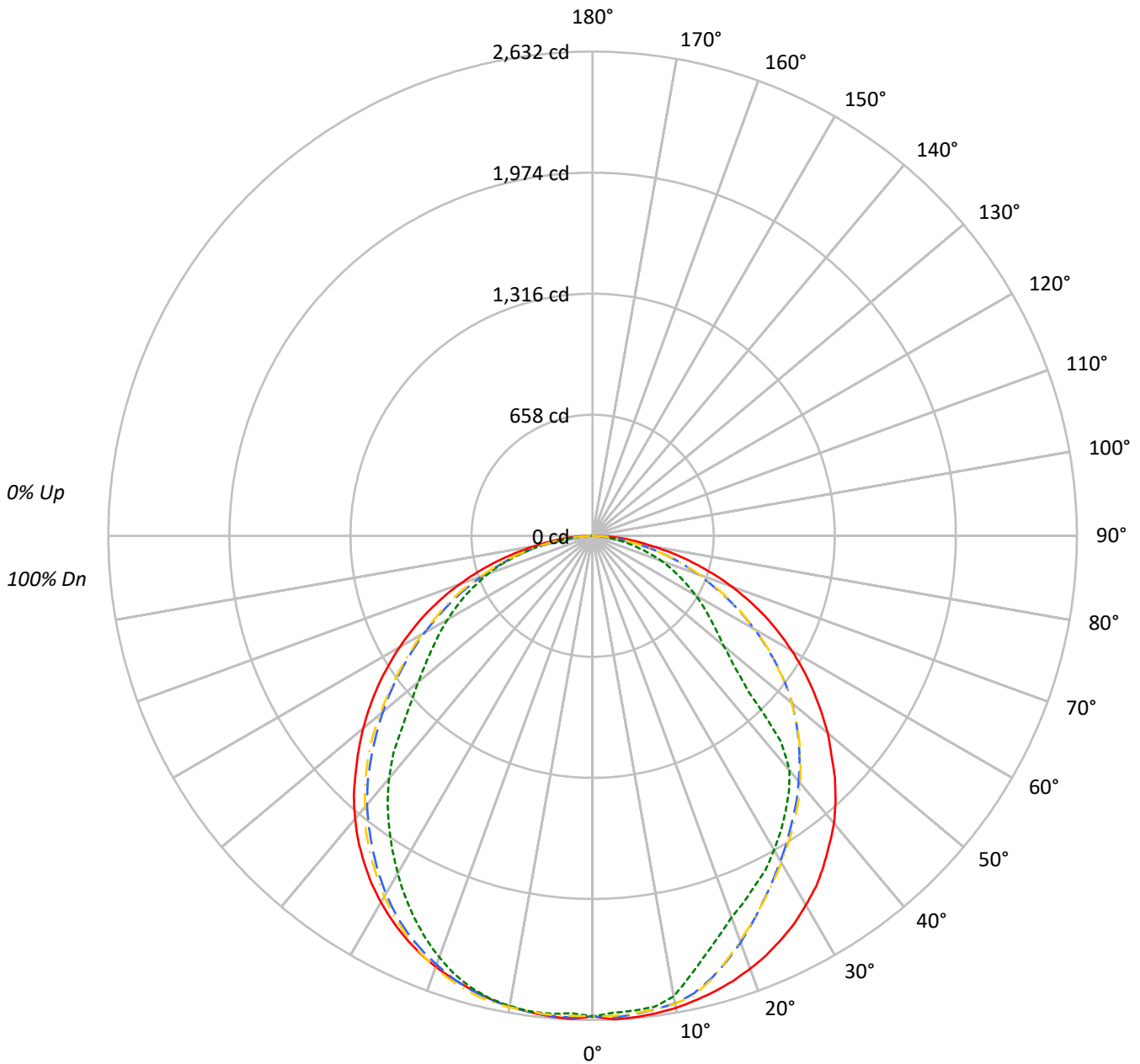
Lumens per Lamp: N/A
Luminaire Lumens: 7007.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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				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				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70				70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60				60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28				28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14058	14058	14058	14058
5°	14195	13998	14172	14089
10°	14244	13891	14206	14183
15°	14288	13156	14225	14179
20°	14342	12640	14286	13964
25°	14387	12432	14313	13614
30°	14403	12253	14299	13167
35°	14381	12015	14234	12678
40°	14334	11696	14107	12090
45°	14174	9087	13855	11092
50°	13962	7778	13622	10348
55°	13713	7284	13359	9954
60°	13454	6953	13047	9789
65°	13133	6585	12688	9672
70°	12612	6263	12084	9526
75°	11743	5506	11189	9062
80°	10423	4603	9772	7686
85°	9862	3285	8651	4415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	3.5
10°-20°	707.9	10.1
20°-30°	1057.7	15.1
30°-40°	1259.1	18.0
40°-50°	1258.5	18.0
50°-60°	1083.0	15.5
60°-70°	815.1	11.6
70°-80°	464.5	6.6
80°-90°	113.0	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°	2013.8	28.7
0°-40°	3272.9	46.7
0°-60°	5614.4	80.1
0°-90°	7007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7007.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2612	2612	2612	2612	2612	
5°	2627	2591	2623	2608	2627	250
15°	2564	2361	2553	2545	2564	725
25°	2423	2094	2410	2292	2423	1117
35°	2189	1829	2166	1930	2189	1370
45°	1862	1194	1820	1457	1862	1434
55°	1462	776	1424	1061	1462	1307
65°	1031	517	996	760	1031	1018
75°	565	265	538	436	565	598
85°	160	53	140	72	160	174
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°	2612.0	2612.0	2612.0	2612.0	2612.0	2612.0	2612.0	2612.0	2612.0	2612.0	2612.0
2.5°	2631.6	2607.8	2621.8	2617.6	2595.2	2603.6	2612.0	2603.6	2628.8	2606.4	2621.8
5°	2627.4	2602.2	2610.6	2602.2	2591.0	2593.8	2606.4	2598.0	2623.2	2599.4	2619.0
7.5°	2619.0	2588.2	2596.6	2592.4	2582.6	2584.0	2596.6	2589.6	2612.0	2589.6	2612.0
10°	2606.4	2574.1	2581.2	2562.9	2541.9	2557.3	2582.6	2575.5	2599.4	2574.1	2599.4
12.5°	2586.8	2554.5	2547.5	2487.3	2449.4	2478.9	2555.9	2555.9	2578.3	2554.5	2581.2
15°	2564.3	2529.3	2491.5	2400.4	2361.1	2390.6	2497.1	2533.5	2553.1	2529.3	2555.9
17.5°	2537.7	2497.1	2424.2	2317.7	2281.3	2310.7	2420.0	2499.9	2525.1	2499.9	2523.7
20°	2504.1	2456.4	2352.7	2230.8	2207.0	2233.6	2342.9	2459.2	2494.3	2463.4	2480.3
22.5°	2467.6	2410.2	2272.9	2163.6	2152.4	2169.2	2268.7	2408.8	2455.0	2422.8	2434.0
25°	2422.8	2355.5	2193.0	2101.9	2093.5	2103.3	2195.8	2349.9	2410.2	2376.6	2380.8
27.5°	2375.2	2302.3	2117.3	2050.1	2041.7	2045.9	2122.9	2284.1	2358.3	2324.7	2317.7
30°	2317.7	2239.2	2041.7	1980.0	1971.6	1987.0	2052.9	2216.8	2300.9	2267.3	2246.2
32.5°	2260.3	2170.6	1967.4	1919.7	1902.9	1916.9	1980.0	2146.8	2237.8	2202.8	2167.8
35°	2188.8	2097.7	1890.3	1842.7	1828.7	1844.1	1907.1	2073.9	2166.4	2131.3	2083.7
37.5°	2114.5	2020.6	1820.3	1776.8	1751.6	1769.8	1832.9	1998.2	2092.1	2055.7	1996.8
40°	2040.3	1939.4	1741.8	1696.9	1664.7	1691.3	1755.8	1918.3	2008.0	1974.4	1907.1
42.5°	1953.4	1858.1	1664.7	1601.7	1510.6	1596.1	1673.1	1838.5	1921.1	1888.9	1807.6
45°	1862.3	1771.2	1583.4	1430.7	1193.9	1444.7	1589.0	1754.4	1820.3	1789.4	1701.1
47.5°	1758.6	1681.5	1500.8	1268.2	1038.3	1282.2	1503.6	1674.5	1725.0	1691.3	1593.3
50°	1667.5	1591.8	1413.9	1130.8	929.0	1146.2	1412.5	1584.8	1626.9	1596.1	1486.8
52.5°	1563.8	1498.0	1320.0	1008.9	847.8	1024.3	1317.2	1492.4	1526.0	1489.6	1380.3
55°	1461.5	1402.7	1220.5	901.0	776.3	915.0	1217.7	1397.1	1423.7	1381.7	1268.2
57.5°	1357.8	1304.6	1118.2	804.3	710.4	819.7	1125.2	1299.0	1317.2	1264.0	1160.3
60°	1249.9	1205.1	1014.5	718.9	646.0	731.5	1011.7	1200.9	1212.1	1154.7	1055.2
62.5°	1142.0	1101.4	910.8	640.4	580.1	648.8	917.8	1097.2	1104.2	1049.6	947.3
65°	1031.3	993.5	809.9	557.7	517.1	571.7	816.9	989.3	996.3	934.7	842.2
67.5°	916.4	885.6	702.0	494.7	456.8	498.9	716.1	880.0	884.2	824.0	739.9
70°	801.5	774.9	606.8	426.0	398.0	427.4	616.6	759.5	767.9	703.4	636.2
72.5°	683.8	662.8	514.3	354.5	329.3	354.5	519.9	648.8	654.4	601.1	535.3
75°	564.7	549.3	420.4	284.5	264.8	283.1	423.2	538.1	538.1	487.6	435.8
77.5°	449.8	438.6	322.3	218.6	204.6	215.8	323.7	426.0	423.2	383.9	343.3
80°	336.3	327.9	231.2	158.3	148.5	154.1	231.2	315.3	315.3	287.3	238.2
82.5°	241.0	231.2	152.7	103.7	98.1	100.9	149.9	220.0	224.2	203.2	161.1
85°	159.7	137.3	82.7	57.5	53.2	54.6	78.5	127.5	140.1	117.7	84.1
87.5°	70.1	46.2	21.0	8.4	4.2	5.6	16.8	40.6	53.2	35.0	11.2
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°	2612.0	2612.0	2612.0	2612.0	2612.0	2612.0
2.5°	2620.4	2598.0	2606.4	2612.0	2606.4	2631.6
5°	2617.6	2607.8	2606.4	2613.4	2602.2	2627.4
7.5°	2613.4	2607.8	2606.4	2609.2	2595.2	2619.0
10°	2603.6	2595.2	2598.0	2602.2	2584.0	2606.4
12.5°	2585.4	2576.9	2578.3	2592.4	2567.1	2586.8
15°	2554.5	2544.7	2554.5	2569.9	2547.5	2564.3
17.5°	2513.9	2498.5	2515.3	2539.1	2522.3	2537.7
20°	2462.0	2438.2	2456.4	2499.9	2484.5	2504.1
22.5°	2399.0	2369.6	2387.8	2450.8	2446.6	2467.6
25°	2327.5	2292.5	2317.7	2394.8	2403.2	2422.8
27.5°	2247.6	2208.4	2242.0	2333.1	2352.7	2375.2
30°	2160.8	2118.7	2158.0	2264.5	2293.9	2317.7
32.5°	2071.1	2024.8	2069.7	2187.4	2229.4	2260.3
35°	1977.2	1929.6	1980.0	2107.5	2158.0	2188.8
37.5°	1876.3	1830.1	1884.7	2023.4	2083.7	2114.5
40°	1772.6	1720.8	1782.4	1924.0	2003.8	2040.3
42.5°	1666.1	1601.7	1677.3	1830.1	1916.9	1953.4
45°	1547.0	1457.3	1559.6	1730.6	1821.7	1862.3
47.5°	1427.9	1338.2	1441.9	1624.1	1722.2	1758.6
50°	1313.0	1235.9	1318.6	1507.8	1621.3	1667.5
52.5°	1207.9	1144.8	1214.9	1394.3	1517.6	1563.8
55°	1109.8	1060.8	1118.2	1282.2	1408.3	1461.5
57.5°	1017.3	986.5	1025.7	1175.7	1307.4	1357.8
60°	930.4	909.4	937.5	1070.6	1188.3	1249.9
62.5°	845.0	833.8	854.8	959.9	1077.6	1142.0
65°	762.3	759.5	770.7	863.2	961.3	1031.3
67.5°	679.6	678.2	685.2	760.9	847.8	916.4
70°	596.9	605.4	601.1	650.2	734.3	801.5
72.5°	512.9	525.5	518.5	549.3	630.6	683.8
75°	419.0	435.8	421.8	456.8	507.3	564.7
77.5°	322.3	340.5	323.7	354.5	409.2	449.8
80°	231.2	248.0	234.0	257.8	305.5	336.3
82.5°	145.7	158.3	147.1	171.0	218.6	241.0
85°	64.5	71.5	74.3	92.5	134.5	159.7
87.5°	2.8	1.4	2.8	18.2	47.6	70.1
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)