

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: P520645

Luminaire Tested: **8WSLA-100-L940-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520645
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-100-L940-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

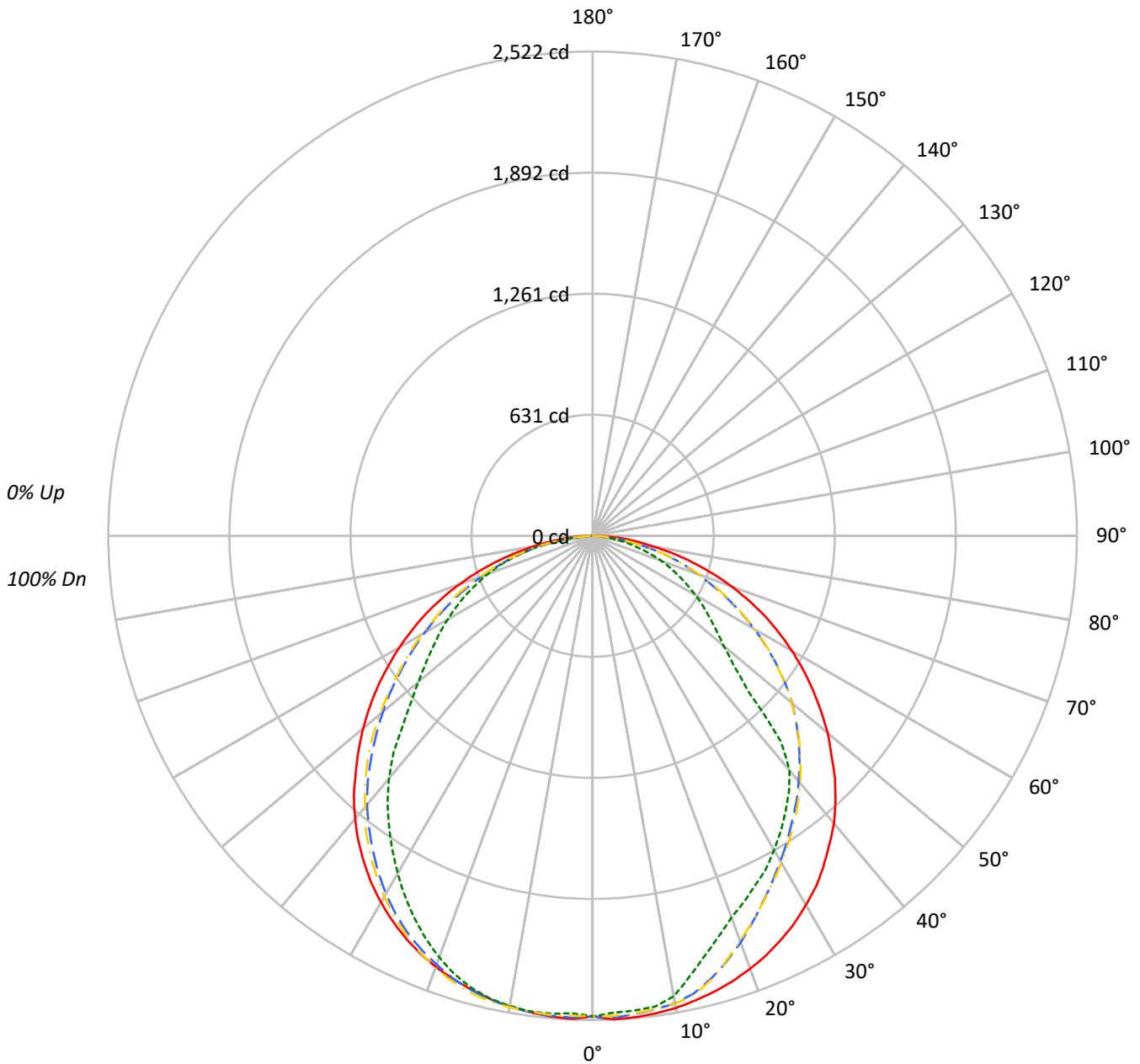
Lumens per Lamp: N/A
Luminaire Lumens: 6714.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 63.4
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°	6735	6735	6735	6735
5°	6800	6706	6790	6750
10°	6824	6655	6806	6795
15°	6845	6303	6815	6793
20°	6871	6056	6844	6690
25°	6893	5956	6857	6522
30°	6901	5870	6851	6308
35°	6890	5756	6819	6074
40°	6867	5603	6759	5792
45°	6791	4354	6637	5314
50°	6689	3727	6526	4958
55°	6570	3490	6400	4769
60°	6446	3331	6251	4690
65°	6292	3154	6078	4634
70°	6043	3000	5789	4563
75°	5626	2639	5361	4342
80°	4993	2205	4682	3684
85°	4727	1575	4147	2115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.8	3.5
10°-20°	678.3	10.1
20°-30°	1013.5	15.1
30°-40°	1206.4	18.0
40°-50°	1205.9	18.0
50°-60°	1037.7	15.5
60°-70°	781.0	11.6
70°-80°	445.1	6.6
80°-90°	108.3	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°	1929.6	28.7
0°-40°	3136.0	46.7
0°-60°	5379.6	80.1
0°-90°	6714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6714.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2503	2503	2503	2503	2503	
5°	2518	2483	2514	2499	2518	240
15°	2457	2262	2446	2438	2457	694
25°	2322	2006	2309	2197	2322	1070
35°	2097	1752	2076	1849	2097	1312
45°	1784	1144	1744	1396	1784	1374
55°	1400	744	1364	1016	1400	1252
65°	988	495	955	728	988	976
75°	541	254	516	418	541	573
85°	153	51	134	68	153	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°	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8
2.5°	2521.6	2498.7	2512.2	2508.1	2486.6	2494.7	2502.8	2494.7	2518.9	2497.4	2512.2
5°	2517.5	2493.4	2501.4	2493.4	2482.6	2485.3	2497.4	2489.3	2513.5	2490.7	2509.5
7.5°	2509.5	2479.9	2488.0	2484.0	2474.6	2475.9	2488.0	2481.3	2502.8	2481.3	2502.8
10°	2497.4	2466.5	2473.2	2455.8	2435.6	2450.4	2474.6	2467.8	2490.7	2466.5	2490.7
12.5°	2478.6	2447.7	2441.0	2383.3	2347.0	2375.2	2449.1	2449.1	2470.5	2447.7	2473.2
15°	2457.1	2423.5	2387.3	2300.0	2262.4	2290.6	2392.7	2427.6	2446.4	2423.5	2449.1
17.5°	2431.6	2392.7	2322.8	2220.8	2185.9	2214.1	2318.8	2395.3	2419.5	2395.3	2418.2
20°	2399.4	2353.7	2254.4	2137.5	2114.7	2140.2	2245.0	2356.4	2390.0	2360.4	2376.5
22.5°	2364.5	2309.4	2177.8	2073.1	2062.4	2078.5	2173.8	2308.1	2352.4	2321.5	2332.2
25°	2321.5	2257.0	2101.3	2014.0	2006.0	2015.4	2104.0	2251.7	2309.4	2277.2	2281.2
27.5°	2275.8	2206.0	2028.8	1964.3	1956.3	1960.3	2034.2	2188.6	2259.7	2227.5	2220.8
30°	2220.8	2145.6	1956.3	1897.2	1889.2	1903.9	1967.0	2124.1	2204.7	2172.5	2152.3
32.5°	2165.7	2079.8	1885.1	1839.5	1823.4	1836.8	1897.2	2057.0	2144.3	2110.7	2077.1
35°	2097.3	2010.0	1811.3	1765.6	1752.2	1767.0	1827.4	1987.2	2075.8	2042.2	1996.6
37.5°	2026.1	1936.1	1744.1	1702.5	1678.4	1695.8	1756.2	1914.7	2004.6	1969.7	1913.3
40°	1954.9	1858.3	1669.0	1626.0	1595.1	1620.6	1682.4	1838.1	1924.1	1891.8	1827.4
42.5°	1871.7	1780.4	1595.1	1534.7	1447.4	1529.3	1603.2	1761.6	1840.8	1809.9	1732.1
45°	1784.4	1697.1	1517.2	1370.9	1144.0	1384.3	1522.6	1681.0	1744.1	1714.6	1630.0
47.5°	1685.1	1611.2	1438.0	1215.1	994.9	1228.6	1440.7	1604.5	1652.8	1620.6	1526.6
50°	1597.8	1525.3	1354.8	1083.5	890.2	1098.3	1353.4	1518.6	1558.9	1529.3	1424.6
52.5°	1498.4	1435.3	1264.8	966.7	812.3	981.5	1262.1	1430.0	1462.2	1427.3	1322.5
55°	1400.4	1344.0	1169.5	863.3	743.8	876.8	1166.8	1338.7	1364.2	1323.9	1215.1
57.5°	1301.1	1250.0	1071.5	770.7	680.7	785.5	1078.2	1244.7	1262.1	1211.1	1111.7
60°	1197.7	1154.7	972.1	688.8	619.0	700.9	969.4	1150.7	1161.4	1106.4	1011.0
62.5°	1094.3	1055.3	872.7	613.6	555.9	621.7	879.5	1051.3	1058.0	1005.7	907.7
65°	988.2	952.0	776.1	534.4	495.4	547.8	782.8	947.9	954.6	895.6	807.0
67.5°	878.1	848.6	672.7	474.0	437.7	478.0	686.1	843.2	847.2	789.5	708.9
70°	768.0	742.5	581.4	408.2	381.3	409.5	590.8	727.7	735.8	674.0	609.6
72.5°	655.2	635.1	492.8	339.7	315.5	339.7	498.1	621.7	627.0	576.0	512.9
75°	541.1	526.3	402.8	272.6	253.8	271.2	405.5	515.6	515.6	467.3	417.6
77.5°	431.0	420.3	308.8	209.5	196.0	206.8	310.2	408.2	405.5	367.9	329.0
80°	322.2	314.2	221.5	151.7	142.3	147.7	221.5	302.1	302.1	275.2	228.3
82.5°	230.9	221.5	146.4	99.4	94.0	96.7	143.7	210.8	214.8	194.7	154.4
85°	153.1	131.6	79.2	55.0	51.0	52.4	75.2	122.2	134.3	112.8	80.6
87.5°	67.1	44.3	20.1	8.1	4.0	5.4	16.1	38.9	51.0	33.6	10.7
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°	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8
2.5°	2510.8	2489.3	2497.4	2502.8	2497.4	2521.6
5°	2508.1	2498.7	2497.4	2504.1	2493.4	2517.5
7.5°	2504.1	2498.7	2497.4	2500.1	2486.6	2509.5
10°	2494.7	2486.6	2489.3	2493.4	2475.9	2497.4
12.5°	2477.2	2469.2	2470.5	2484.0	2459.8	2478.6
15°	2447.7	2438.3	2447.7	2462.5	2441.0	2457.1
17.5°	2408.8	2394.0	2410.1	2432.9	2416.8	2431.6
20°	2359.1	2336.3	2353.7	2395.3	2380.6	2399.4
22.5°	2298.7	2270.5	2287.9	2348.3	2344.3	2364.5
25°	2230.2	2196.6	2220.8	2294.6	2302.7	2321.5
27.5°	2153.7	2116.1	2148.3	2235.6	2254.4	2275.8
30°	2070.4	2030.1	2067.7	2169.8	2198.0	2220.8
32.5°	1984.5	1940.2	1983.1	2095.9	2136.2	2165.7
35°	1894.5	1848.9	1897.2	2019.4	2067.7	2097.3
37.5°	1797.8	1753.5	1805.9	1938.8	1996.6	2026.1
40°	1698.5	1648.8	1707.9	1843.5	1920.0	1954.9
42.5°	1596.4	1534.7	1607.2	1753.5	1836.8	1871.7
45°	1482.3	1396.4	1494.4	1658.2	1745.5	1784.4
47.5°	1368.2	1282.3	1381.6	1556.2	1650.2	1685.1
50°	1258.1	1184.2	1263.5	1444.7	1553.5	1597.8
52.5°	1157.4	1097.0	1164.1	1336.0	1454.1	1498.4
55°	1063.4	1016.4	1071.5	1228.6	1349.4	1400.4
57.5°	974.8	945.2	982.8	1126.5	1252.7	1301.1
60°	891.5	871.4	898.3	1025.8	1138.6	1197.7
62.5°	809.6	798.9	819.0	919.7	1032.5	1094.3
65°	730.4	727.7	738.5	827.1	921.1	988.2
67.5°	651.2	649.9	656.6	729.1	812.3	878.1
70°	572.0	580.0	576.0	623.0	703.6	768.0
72.5°	491.4	503.5	496.8	526.3	604.2	655.2
75°	401.5	417.6	404.1	437.7	486.1	541.1
77.5°	308.8	326.3	310.2	339.7	392.1	431.0
80°	221.5	237.7	224.2	247.1	292.7	322.2
82.5°	139.6	151.7	141.0	163.8	209.5	230.9
85°	61.8	68.5	71.2	88.6	128.9	153.1
87.5°	2.7	1.3	2.7	17.5	45.7	67.1
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)