

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: P520465

Luminaire Tested: **4WSLA-100-L840-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520465
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-100-L840-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

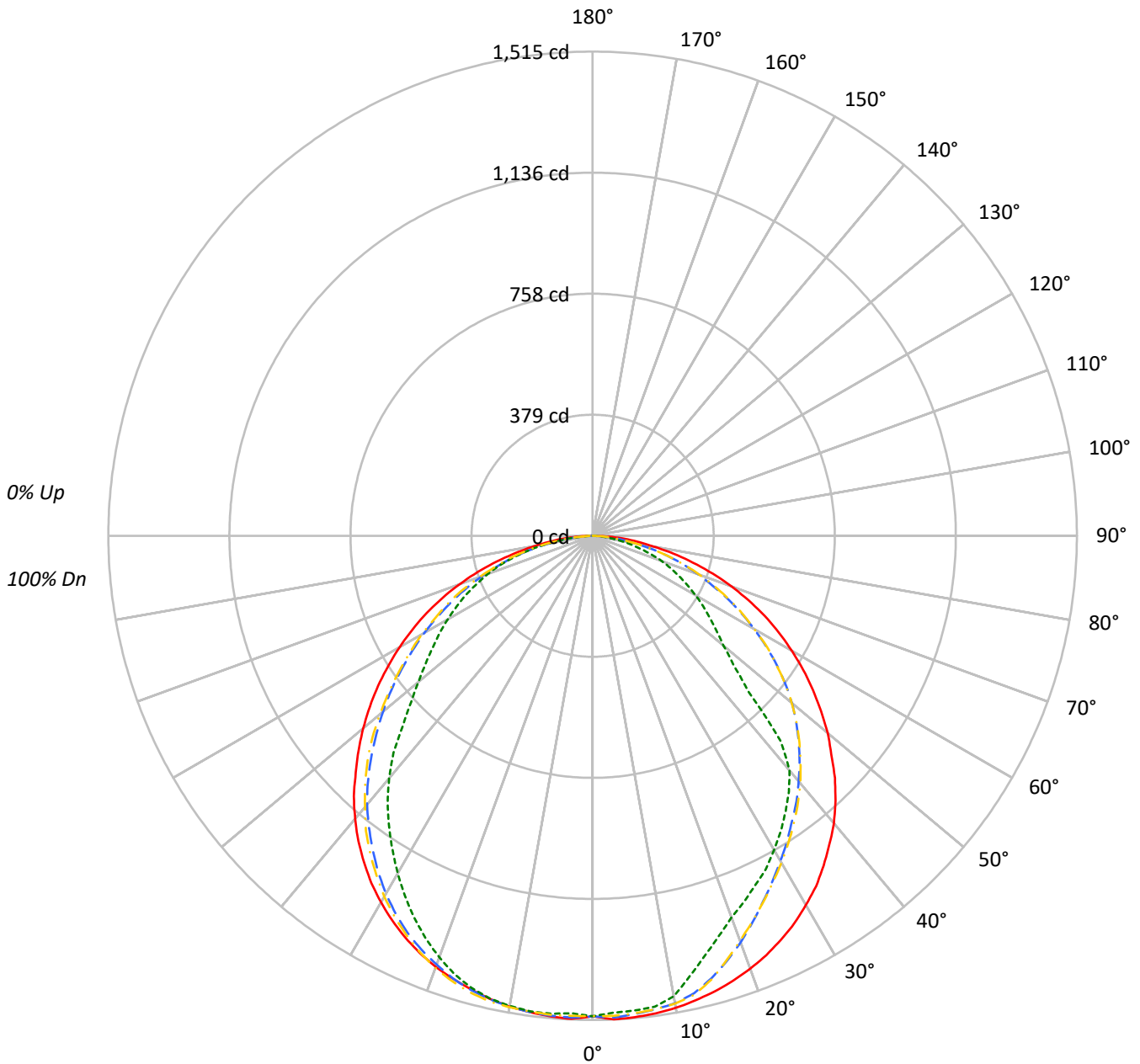
Lumens per Lamp: N/A
Luminaire Lumens: 4033.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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°	8091	8091	8091	8091
5°	8170	8057	8157	8109
10°	8198	7995	8176	8163
15°	8223	7572	8188	8161
20°	8255	7275	8222	8038
25°	8281	7156	8238	7836
30°	8290	7052	8230	7579
35°	8277	6915	8192	7297
40°	8250	6732	8120	6958
45°	8158	5230	7974	6384
50°	8036	4477	7840	5956
55°	7893	4192	7689	5728
60°	7744	4002	7509	5634
65°	7559	3790	7302	5566
70°	7259	3605	6955	5482
75°	6758	3169	6440	5215
80°	6000	2650	5625	4426
85°	5675	1890	4983	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	3.5
10°-20°	407.4	10.1
20°-30°	608.8	15.1
30°-40°	724.7	18.0
40°-50°	724.4	18.0
50°-60°	623.3	15.5
60°-70°	469.1	11.6
70°-80°	267.3	6.6
80°-90°	65.1	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°	1159.1	28.7
0°-40°	1883.8	46.7
0°-60°	3231.5	80.1
0°-90°	4033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1503	1503	1503	1503	1503	
5°	1512	1491	1510	1501	1512	144
15°	1476	1359	1470	1465	1476	417
25°	1394	1205	1387	1320	1394	643
35°	1260	1052	1247	1111	1260	788
45°	1072	687	1048	839	1072	825
55°	841	447	819	610	841	752
65°	594	298	573	437	594	586
75°	325	152	310	251	325	344
85°	92	31	81	41	92	100
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°	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4
2.5°	1514.7	1500.9	1509.0	1506.6	1493.7	1498.5	1503.4	1498.5	1513.0	1500.1	1509.0
5°	1512.2	1497.7	1502.6	1497.7	1491.3	1492.9	1500.1	1495.3	1509.8	1496.1	1507.4
7.5°	1507.4	1489.7	1494.5	1492.1	1486.4	1487.2	1494.5	1490.5	1503.4	1490.5	1503.4
10°	1500.1	1481.6	1485.6	1475.1	1463.0	1471.9	1486.4	1482.4	1496.1	1481.6	1496.1
12.5°	1488.9	1470.3	1466.3	1431.6	1409.8	1426.7	1471.1	1471.1	1484.0	1470.3	1485.6
15°	1475.9	1455.8	1434.0	1381.6	1359.0	1375.9	1437.2	1458.2	1469.5	1455.8	1471.1
17.5°	1460.6	1437.2	1395.3	1334.0	1313.0	1330.0	1392.9	1438.8	1453.4	1438.8	1452.6
20°	1441.3	1413.8	1354.2	1284.0	1270.3	1285.6	1348.5	1415.5	1435.6	1417.9	1427.6
22.5°	1420.3	1387.2	1308.2	1245.3	1238.8	1248.5	1305.8	1386.4	1413.0	1394.5	1400.9
25°	1394.5	1355.8	1262.2	1209.8	1205.0	1210.6	1263.8	1352.5	1387.2	1367.9	1370.3
27.5°	1367.1	1325.1	1218.7	1180.0	1175.1	1177.5	1221.9	1314.6	1357.4	1338.0	1334.0
30°	1334.0	1288.8	1175.1	1139.6	1134.8	1143.7	1181.6	1275.9	1324.3	1305.0	1292.9
32.5°	1300.9	1249.3	1132.4	1104.9	1095.3	1103.3	1139.6	1235.6	1288.0	1267.9	1247.7
35°	1259.8	1207.4	1088.0	1060.6	1052.5	1061.4	1097.7	1193.7	1246.9	1226.7	1199.3
37.5°	1217.1	1163.0	1047.7	1022.7	1008.2	1018.6	1054.9	1150.1	1204.1	1183.2	1149.3
40°	1174.3	1116.2	1002.5	976.7	958.2	973.5	1010.6	1104.1	1155.8	1136.4	1097.7
42.5°	1124.3	1069.5	958.2	921.9	869.4	918.6	963.0	1058.2	1105.8	1087.2	1040.4
45°	1071.9	1019.5	911.4	823.5	687.2	831.5	914.6	1009.8	1047.7	1029.9	979.1
47.5°	1012.2	967.8	863.8	729.9	597.6	738.0	865.4	963.8	992.8	973.5	917.0
50°	959.8	916.2	813.8	650.9	534.7	659.7	813.0	912.2	936.4	918.6	855.7
52.5°	900.1	862.2	759.7	580.7	487.9	589.6	758.1	859.0	878.3	857.3	794.4
55°	841.2	807.3	702.5	518.6	446.8	526.7	700.9	804.1	819.4	795.2	729.9
57.5°	781.5	750.9	643.6	462.9	408.9	471.8	647.6	747.7	758.1	727.5	667.8
60°	719.4	693.6	583.9	413.7	371.8	421.0	582.3	691.2	697.6	664.6	607.3
62.5°	657.3	633.9	524.2	368.6	333.9	373.4	528.3	631.5	635.5	604.1	545.2
65°	593.6	571.8	466.2	321.0	297.6	329.1	470.2	569.4	573.4	538.0	484.7
67.5°	527.5	509.7	404.1	284.7	262.9	287.1	412.1	506.5	508.9	474.2	425.8
70°	461.3	446.0	349.2	245.2	229.1	246.0	354.9	437.1	442.0	404.9	366.2
72.5°	393.6	381.5	296.0	204.1	189.5	204.1	299.2	373.4	376.6	346.0	308.1
75°	325.0	316.2	242.0	163.7	152.4	162.9	243.6	309.7	309.7	280.7	250.8
77.5°	258.9	252.4	185.5	125.8	117.8	124.2	186.3	245.2	243.6	221.0	197.6
80°	193.6	188.7	133.1	91.1	85.5	88.7	133.1	181.5	181.5	165.3	137.1
82.5°	138.7	133.1	87.9	59.7	56.5	58.1	86.3	126.6	129.0	116.9	92.8
85°	91.9	79.0	47.6	33.1	30.6	31.5	45.2	73.4	80.7	67.7	48.4
87.5°	40.3	26.6	12.1	4.8	2.4	3.2	9.7	23.4	30.6	20.2	6.5
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°	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4
2.5°	1508.2	1495.3	1500.1	1503.4	1500.1	1514.7
5°	1506.6	1500.9	1500.1	1504.2	1497.7	1512.2
7.5°	1504.2	1500.9	1500.1	1501.8	1493.7	1507.4
10°	1498.5	1493.7	1495.3	1497.7	1487.2	1500.1
12.5°	1488.0	1483.2	1484.0	1492.1	1477.6	1488.9
15°	1470.3	1464.7	1470.3	1479.2	1466.3	1475.9
17.5°	1446.9	1438.0	1447.7	1461.4	1451.8	1460.6
20°	1417.1	1403.4	1413.8	1438.8	1430.0	1441.3
22.5°	1380.8	1363.8	1374.3	1410.6	1408.2	1420.3
25°	1339.6	1319.5	1334.0	1378.4	1383.2	1394.5
27.5°	1293.7	1271.1	1290.4	1342.9	1354.2	1367.1
30°	1243.7	1219.5	1242.1	1303.4	1320.3	1334.0
32.5°	1192.0	1165.4	1191.2	1259.0	1283.2	1300.9
35°	1138.0	1110.6	1139.6	1213.0	1242.1	1259.8
37.5°	1079.9	1053.3	1084.8	1164.6	1199.3	1217.1
40°	1020.3	990.4	1025.9	1107.4	1153.3	1174.3
42.5°	959.0	921.9	965.4	1053.3	1103.3	1124.3
45°	890.4	838.8	897.7	996.1	1048.5	1071.9
47.5°	821.9	770.2	829.9	934.8	991.2	1012.2
50°	755.7	711.4	758.9	867.8	933.2	959.8
52.5°	695.2	658.9	699.3	802.5	873.5	900.1
55°	638.8	610.5	643.6	738.0	810.6	841.2
57.5°	585.5	567.8	590.4	676.7	752.5	781.5
60°	535.5	523.4	539.6	616.2	683.9	719.4
62.5°	486.3	479.9	492.0	552.5	620.2	657.3
65°	438.8	437.1	443.6	496.8	553.3	593.6
67.5°	391.2	390.4	394.4	437.9	487.9	527.5
70°	343.6	348.4	346.0	374.2	422.6	461.3
72.5°	295.2	302.4	298.4	316.2	362.9	393.6
75°	241.2	250.8	242.8	262.9	292.0	325.0
77.5°	185.5	196.0	186.3	204.1	235.5	258.9
80°	133.1	142.8	134.7	148.4	175.8	193.6
82.5°	83.9	91.1	84.7	98.4	125.8	138.7
85°	37.1	41.1	42.7	53.2	77.4	91.9
87.5°	1.6	0.8	1.6	10.5	27.4	40.3
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)