

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: P520747

Luminaire Tested: **8WSLA-50-L830-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520747  
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-50-L830-UNV-U  
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

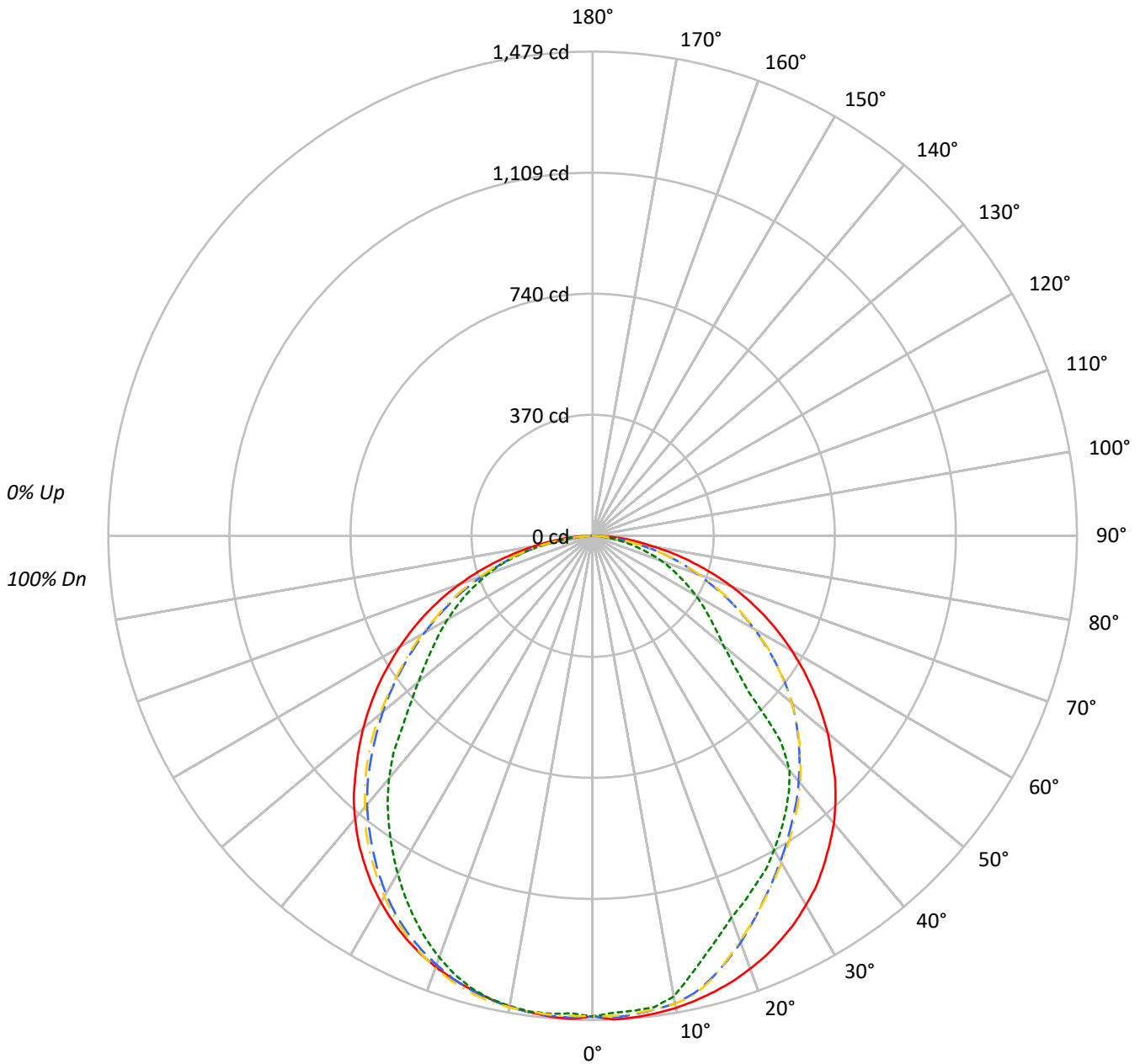
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3938.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 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): 30.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3950	3950	3950	3950
5°	3989	3933	3982	3959
10°	4003	3904	3992	3985
15°	4015	3697	3997	3984
20°	4030	3552	4014	3924
25°	4043	3494	4022	3825
30°	4048	3443	4018	3700
35°	4041	3376	4000	3562
40°	4028	3287	3964	3397
45°	3983	2554	3893	3117
50°	3924	2186	3828	2908
55°	3854	2047	3754	2797
60°	3781	1954	3666	2751
65°	3691	1850	3565	2718
70°	3544	1760	3396	2677
75°	3300	1547	3144	2546
80°	2929	1294	2746	2160
85°	2773	923	2433	1241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.5	3.5
10°-20°	397.8	10.1
20°-30°	594.5	15.1
30°-40°	707.6	18.0
40°-50°	707.3	18.0
50°-60°	608.6	15.5
60°-70°	458.1	11.6
70°-80°	261.0	6.6
80°-90°	63.5	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°	1131.8	28.7
0°-40°	1839.4	46.7
0°-60°	3155.3	80.1
0°-90°	3938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3938.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1468	1468	1468	1468	1468	
5°	1477	1456	1474	1466	1477	141
15°	1441	1327	1435	1430	1441	407
25°	1362	1177	1355	1288	1362	628
35°	1230	1028	1218	1084	1230	770
45°	1047	671	1023	819	1047	806
55°	821	436	800	596	821	734
65°	580	291	560	427	580	572
75°	317	149	302	245	317	336
85°	90	30	79	40	90	98
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°	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0
2.5°	1479.0	1465.6	1473.5	1471.1	1458.5	1463.2	1468.0	1463.2	1477.4	1464.8	1473.5
5°	1476.6	1462.4	1467.2	1462.4	1456.1	1457.7	1464.8	1460.1	1474.3	1460.9	1471.9
7.5°	1471.9	1454.6	1459.3	1456.9	1451.4	1452.2	1459.3	1455.4	1468.0	1455.4	1468.0
10°	1464.8	1446.7	1450.6	1440.4	1428.6	1437.2	1451.4	1447.5	1460.9	1446.7	1460.9
12.5°	1453.8	1435.7	1431.7	1397.9	1376.6	1393.1	1436.5	1436.5	1449.1	1435.7	1450.6
15°	1441.2	1421.5	1400.2	1349.0	1327.0	1343.5	1403.4	1423.9	1434.9	1421.5	1436.5
17.5°	1426.2	1403.4	1362.4	1302.6	1282.1	1298.6	1360.1	1405.0	1419.1	1405.0	1418.3
20°	1407.3	1380.5	1322.3	1253.7	1240.4	1255.3	1316.8	1382.1	1401.8	1384.5	1393.9
22.5°	1386.8	1354.6	1277.4	1215.9	1209.6	1219.1	1275.0	1353.8	1379.8	1361.6	1367.9
25°	1361.6	1323.8	1232.5	1181.3	1176.6	1182.1	1234.1	1320.7	1354.6	1335.7	1338.0
27.5°	1334.9	1293.9	1190.0	1152.2	1147.4	1149.8	1193.1	1283.7	1325.4	1306.5	1302.6
30°	1302.6	1258.5	1147.4	1112.8	1108.1	1116.7	1153.7	1245.9	1293.1	1274.2	1262.4
32.5°	1270.3	1219.9	1105.7	1078.9	1069.5	1077.3	1112.8	1206.5	1257.7	1238.0	1218.3
35°	1230.1	1178.9	1062.4	1035.6	1027.7	1036.4	1071.8	1165.5	1217.5	1197.8	1171.1
37.5°	1188.4	1135.6	1023.0	998.6	984.4	994.7	1030.1	1123.0	1175.8	1155.3	1122.2
40°	1146.6	1089.9	978.9	953.7	935.6	950.5	986.8	1078.1	1128.5	1109.6	1071.8
42.5°	1097.8	1044.3	935.6	900.1	849.0	897.0	940.3	1033.2	1079.7	1061.6	1015.9
45°	1046.6	995.4	889.9	804.1	671.0	811.9	893.1	986.0	1023.0	1005.7	956.1
47.5°	988.4	945.0	843.4	712.7	583.6	720.6	845.0	941.1	969.4	950.5	895.4
50°	937.2	894.6	794.6	635.5	522.1	644.2	793.8	890.7	914.3	897.0	835.6
52.5°	878.9	841.9	741.9	567.0	476.5	575.7	740.3	838.7	857.6	837.1	775.7
55°	821.4	788.3	685.9	506.4	436.3	514.3	684.4	785.2	800.1	776.5	712.7
57.5°	763.1	733.2	628.4	452.0	399.3	460.7	632.4	730.0	740.3	710.4	652.1
60°	702.5	677.3	570.2	404.0	363.1	411.1	568.6	674.9	681.2	648.9	593.0
62.5°	641.8	619.0	511.9	359.9	326.0	364.6	515.8	616.6	620.6	589.9	532.4
65°	579.6	558.4	455.2	313.4	290.6	321.3	459.1	556.0	559.9	525.3	473.3
67.5°	515.0	497.7	394.6	278.0	256.7	280.4	402.4	494.6	496.9	463.1	415.8
70°	450.5	435.5	341.0	239.4	223.7	240.2	346.5	426.8	431.6	395.3	357.5
72.5°	384.3	372.5	289.0	199.2	185.1	199.2	292.2	364.6	367.8	337.9	300.8
75°	317.4	308.7	236.3	159.9	148.8	159.1	237.8	302.4	302.4	274.1	244.9
77.5°	252.8	246.5	181.1	122.9	115.0	121.3	181.9	239.4	237.8	215.8	192.9
80°	189.0	184.3	129.9	89.0	83.5	86.6	129.9	177.2	177.2	161.4	133.9
82.5°	135.5	129.9	85.8	58.3	55.1	56.7	84.3	123.6	126.0	114.2	90.6
85°	89.8	77.2	46.5	32.3	29.9	30.7	44.1	71.7	78.8	66.2	47.3
87.5°	39.4	26.0	11.8	4.7	2.4	3.2	9.5	22.8	29.9	19.7	6.3
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°	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0
2.5°	1472.7	1460.1	1464.8	1468.0	1464.8	1479.0
5°	1471.1	1465.6	1464.8	1468.7	1462.4	1476.6
7.5°	1468.7	1465.6	1464.8	1466.4	1458.5	1471.9
10°	1463.2	1458.5	1460.1	1462.4	1452.2	1464.8
12.5°	1453.0	1448.3	1449.1	1456.9	1442.8	1453.8
15°	1435.7	1430.2	1435.7	1444.3	1431.7	1441.2
17.5°	1412.8	1404.2	1413.6	1427.0	1417.6	1426.2
20°	1383.7	1370.3	1380.5	1405.0	1396.3	1407.3
22.5°	1348.3	1331.7	1342.0	1377.4	1375.0	1386.8
25°	1308.1	1288.4	1302.6	1345.9	1350.6	1361.6
27.5°	1263.2	1241.1	1260.0	1311.2	1322.3	1334.9
30°	1214.4	1190.7	1212.8	1272.6	1289.2	1302.6
32.5°	1164.0	1138.0	1163.2	1229.3	1253.0	1270.3
35°	1111.2	1084.4	1112.8	1184.4	1212.8	1230.1
37.5°	1054.5	1028.5	1059.2	1137.2	1171.1	1188.4
40°	996.2	967.1	1001.7	1081.3	1126.2	1146.6
42.5°	936.4	900.1	942.7	1028.5	1077.3	1097.8
45°	869.4	819.0	876.5	972.6	1023.8	1046.6
47.5°	802.5	752.1	810.4	912.7	967.9	988.4
50°	737.9	694.6	741.1	847.4	911.2	937.2
52.5°	678.9	643.4	682.8	783.6	852.9	878.9
55°	623.7	596.2	628.4	720.6	791.5	821.4
57.5°	571.7	554.4	576.5	660.7	734.8	763.1
60°	522.9	511.1	526.9	601.7	667.8	702.5
62.5°	474.9	468.6	480.4	539.5	605.6	641.8
65°	428.4	426.8	433.1	485.1	540.2	579.6
67.5°	382.0	381.2	385.1	427.6	476.5	515.0
70°	335.5	340.2	337.9	365.4	412.7	450.5
72.5°	288.2	295.3	291.4	308.7	354.4	384.3
75°	235.5	244.9	237.0	256.7	285.1	317.4
77.5°	181.1	191.4	181.9	199.2	230.0	252.8
80°	129.9	139.4	131.5	144.9	171.7	189.0
82.5°	81.9	89.0	82.7	96.1	122.9	135.5
85°	36.2	40.2	41.7	52.0	75.6	89.8
87.5°	1.6	0.8	1.6	10.2	26.8	39.4
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)