

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: P520459

Luminaire Tested: **4WSLA-100-L830-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520459
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-L830-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

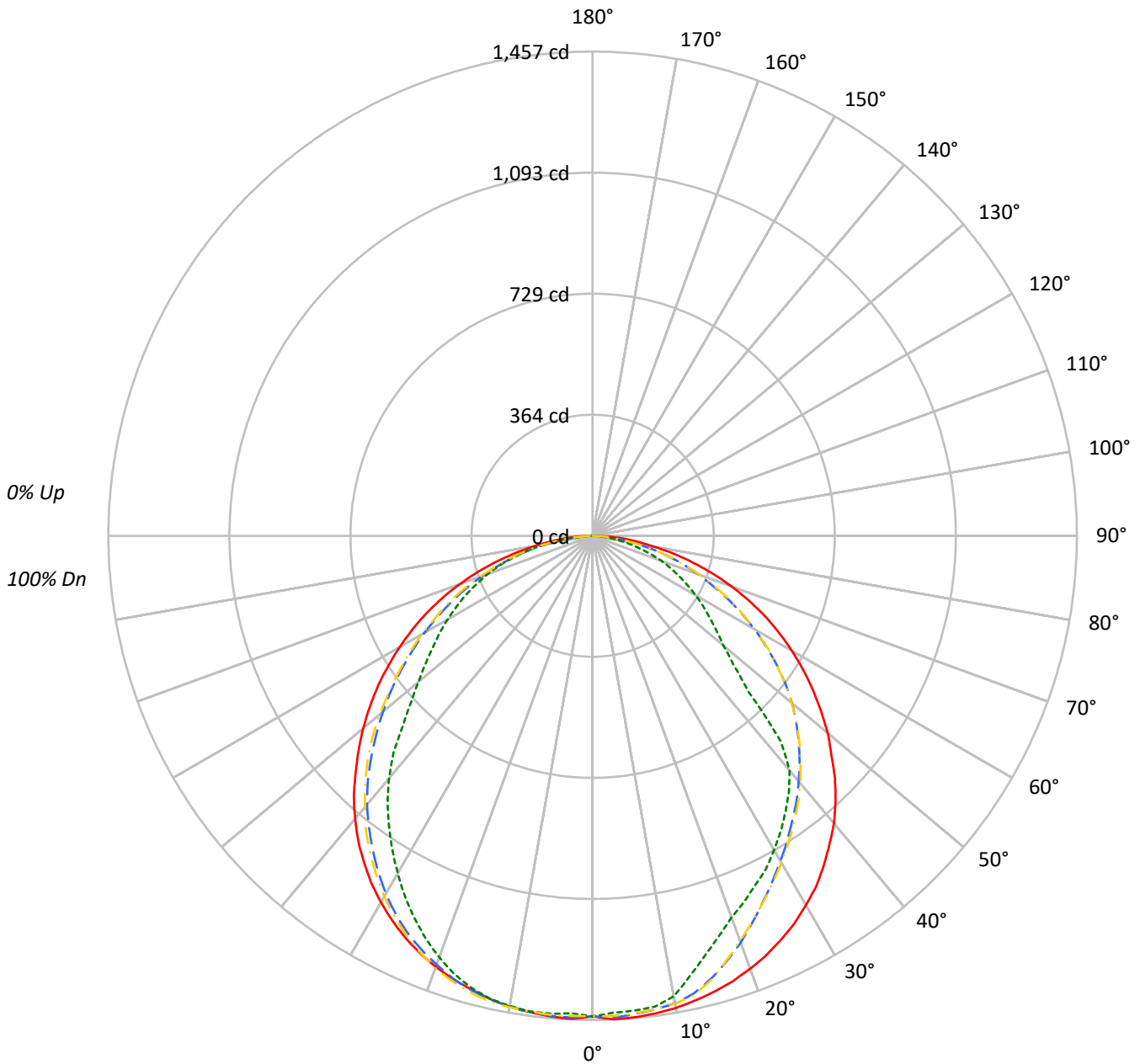
Lumens per Lamp: N/A
Luminaire Lumens: 3879.0 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7782	7782	7782	7782
5°	7858	7749	7846	7799
10°	7885	7690	7864	7852
15°	7910	7283	7875	7849
20°	7939	6998	7908	7731
25°	7964	6882	7924	7536
30°	7974	6783	7916	7289
35°	7961	6651	7880	7018
40°	7935	6475	7810	6693
45°	7846	5030	7670	6141
50°	7729	4306	7541	5729
55°	7592	4033	7395	5510
60°	7449	3849	7223	5419
65°	7270	3645	7023	5354
70°	6982	3467	6689	5273
75°	6500	3048	6195	5018
80°	5771	2548	5408	4255
85°	5459	1822	4792	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	3.5
10°-20°	391.9	10.1
20°-30°	585.6	15.1
30°-40°	697.0	18.0
40°-50°	696.7	18.0
50°-60°	599.5	15.5
60°-70°	451.2	11.6
70°-80°	257.1	6.6
80°-90°	62.6	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°	1114.8	28.7
0°-40°	1811.8	46.7
0°-60°	3108.1	80.1
0°-90°	3879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3879.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1446	1446	1446	1446	1446	
5°	1454	1434	1452	1444	1454	138
15°	1420	1307	1413	1409	1420	401
25°	1341	1159	1334	1269	1341	618
35°	1212	1012	1199	1068	1212	758
45°	1031	661	1008	807	1031	794
55°	809	430	788	587	809	723
65°	571	286	552	420	571	564
75°	313	147	298	241	313	331
85°	88	30	78	40	88	96
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°	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0
2.5°	1456.8	1443.6	1451.4	1449.1	1436.7	1441.3	1446.0	1441.3	1455.3	1442.9	1451.4
5°	1454.5	1440.5	1445.2	1440.5	1434.3	1435.9	1442.9	1438.2	1452.2	1439.0	1449.8
7.5°	1449.8	1432.8	1437.4	1435.1	1429.7	1430.4	1437.4	1433.6	1446.0	1433.6	1446.0
10°	1442.9	1425.0	1428.9	1418.8	1407.2	1415.7	1429.7	1425.8	1439.0	1425.0	1439.0
12.5°	1432.0	1414.2	1410.3	1376.9	1356.0	1372.3	1414.9	1414.9	1427.3	1414.2	1428.9
15°	1419.6	1400.2	1379.3	1328.8	1307.1	1323.4	1382.4	1402.5	1413.4	1400.2	1414.9
17.5°	1404.8	1382.4	1342.0	1283.1	1262.9	1279.2	1339.7	1383.9	1397.9	1383.9	1397.1
20°	1386.2	1359.9	1302.5	1235.0	1221.8	1236.5	1297.0	1361.4	1380.8	1363.7	1373.0
22.5°	1366.1	1334.3	1258.2	1197.7	1191.5	1200.8	1255.9	1333.5	1359.1	1341.2	1347.4
25°	1341.2	1304.0	1214.0	1163.6	1158.9	1164.4	1215.6	1300.9	1334.3	1315.6	1318.0
27.5°	1314.9	1274.5	1172.1	1134.9	1130.2	1132.6	1175.2	1264.4	1305.6	1286.9	1283.1
30°	1283.1	1239.6	1130.2	1096.1	1091.5	1100.0	1136.4	1227.2	1273.8	1255.1	1243.5
32.5°	1251.3	1201.6	1089.1	1062.8	1053.4	1061.2	1096.1	1188.4	1238.8	1219.4	1200.1
35°	1211.7	1161.3	1046.5	1020.1	1012.3	1020.9	1055.8	1148.1	1199.3	1179.9	1153.5
37.5°	1170.6	1118.6	1007.7	983.6	969.7	979.7	1014.7	1106.2	1158.2	1138.0	1105.4
40°	1129.5	1073.6	964.2	939.4	921.6	936.3	972.0	1062.0	1111.6	1093.0	1055.8
42.5°	1081.4	1028.6	921.6	886.7	836.2	883.6	926.2	1017.8	1063.5	1045.7	1000.7
45°	1030.9	980.5	876.6	792.0	660.9	799.8	879.7	971.2	1007.7	990.6	941.7
47.5°	973.5	930.9	830.8	702.0	574.8	709.8	832.4	927.0	954.9	936.3	882.0
50°	923.1	881.2	782.7	626.0	514.3	634.5	781.9	877.4	900.6	883.6	823.1
52.5°	865.7	829.3	730.7	558.5	469.3	567.1	729.2	826.2	844.8	824.6	764.1
55°	809.1	776.5	675.7	498.8	429.8	506.6	674.1	773.4	788.1	764.9	702.0
57.5°	751.7	722.2	619.0	445.3	393.3	453.8	622.9	719.1	729.2	699.7	642.3
60°	692.0	667.1	561.6	398.0	357.6	404.9	560.1	664.8	671.0	639.2	584.1
62.5°	632.2	609.7	504.2	354.5	321.2	359.2	508.1	607.4	611.3	581.0	524.4
65°	570.9	550.0	448.4	308.7	286.2	316.5	452.3	547.7	551.5	517.4	466.2
67.5°	507.3	490.3	388.6	273.8	252.9	276.2	396.4	487.2	489.5	456.1	409.6
70°	443.7	429.0	335.9	235.8	220.3	236.6	341.3	420.4	425.1	389.4	352.2
72.5°	378.6	366.9	284.7	196.3	182.3	196.3	287.8	359.2	362.3	332.8	296.3
75°	312.6	304.1	232.7	157.5	146.6	156.7	234.3	297.9	297.9	270.0	241.3
77.5°	249.0	242.8	178.4	121.0	113.3	119.5	179.2	235.8	234.3	212.6	190.1
80°	186.2	181.5	128.0	87.7	82.2	85.3	128.0	174.5	174.5	159.0	131.9
82.5°	133.4	128.0	84.6	57.4	54.3	55.9	83.0	121.8	124.1	112.5	89.2
85°	88.4	76.0	45.8	31.8	29.5	30.3	43.4	70.6	77.6	65.2	46.5
87.5°	38.8	25.6	11.6	4.7	2.3	3.1	9.3	22.5	29.5	19.4	6.2
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°	1446.0	1446.0	1446.0	1446.0	1446.0	1446.0
2.5°	1450.6	1438.2	1442.9	1446.0	1442.9	1456.8
5°	1449.1	1443.6	1442.9	1446.7	1440.5	1454.5
7.5°	1446.7	1443.6	1442.9	1444.4	1436.7	1449.8
10°	1441.3	1436.7	1438.2	1440.5	1430.4	1442.9
12.5°	1431.2	1426.6	1427.3	1435.1	1421.1	1432.0
15°	1414.2	1408.7	1414.2	1422.7	1410.3	1419.6
17.5°	1391.7	1383.1	1392.4	1405.6	1396.3	1404.8
20°	1363.0	1349.8	1359.9	1383.9	1375.4	1386.2
22.5°	1328.1	1311.8	1321.8	1356.8	1354.4	1366.1
25°	1288.5	1269.1	1283.1	1325.7	1330.4	1341.2
27.5°	1244.3	1222.6	1241.2	1291.6	1302.5	1314.9
30°	1196.2	1172.9	1194.6	1253.6	1269.9	1283.1
32.5°	1146.5	1120.9	1145.8	1210.9	1234.2	1251.3
35°	1094.6	1068.2	1096.1	1166.7	1194.6	1211.7
37.5°	1038.7	1013.1	1043.4	1120.2	1153.5	1170.6
40°	981.3	952.6	986.7	1065.1	1109.3	1129.5
42.5°	922.3	886.7	928.6	1013.1	1061.2	1081.4
45°	856.4	806.8	863.4	958.0	1008.5	1030.9
47.5°	790.5	740.8	798.2	899.1	953.4	973.5
50°	726.9	684.2	730.0	834.7	897.5	923.1
52.5°	668.7	633.8	672.6	771.9	840.1	865.7
55°	614.4	587.2	619.0	709.8	779.6	809.1
57.5°	563.2	546.1	567.8	650.8	723.8	751.7
60°	515.1	503.4	519.0	592.7	657.8	692.0
62.5°	467.8	461.6	473.2	531.4	596.5	632.2
65°	422.0	420.4	426.7	477.9	532.2	570.9
67.5°	376.2	375.5	379.3	421.2	469.3	507.3
70°	330.5	335.1	332.8	359.9	406.5	443.7
72.5°	283.9	290.9	287.0	304.1	349.1	378.6
75°	231.9	241.3	233.5	252.9	280.8	312.6
77.5°	178.4	188.5	179.2	196.3	226.5	249.0
80°	128.0	137.3	129.5	142.7	169.1	186.2
82.5°	80.7	87.7	81.5	94.6	121.0	133.4
85°	35.7	39.6	41.1	51.2	74.5	88.4
87.5°	1.6	0.8	1.6	10.1	26.4	38.8
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)