

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: P520750

Luminaire Tested: **8WSLA-50-L835-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520750
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-L835-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

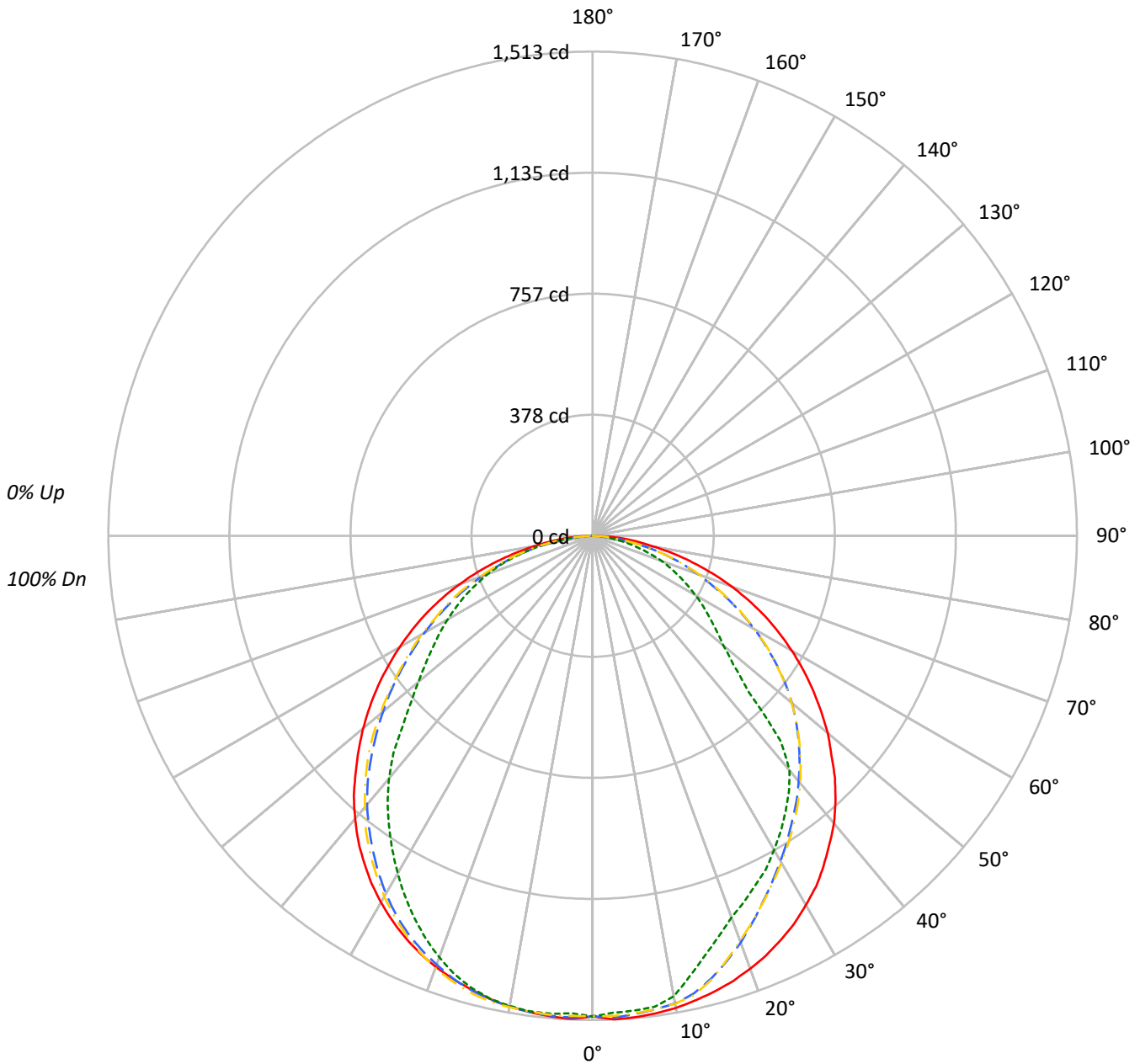
Lumens per Lamp: N/A
Luminaire Lumens: 4028.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 30.5
Input Voltage (V): NR
Input Current (A_{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				
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			
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°	4041	4041	4041	4041
5°	4080	4023	4073	4049
10°	4094	3993	4083	4076
15°	4107	3781	4089	4075
20°	4122	3633	4106	4014
25°	4135	3573	4114	3913
30°	4140	3522	4110	3785
35°	4133	3453	4091	3644
40°	4120	3362	4055	3475
45°	4074	2612	3982	3188
50°	4013	2236	3915	2974
55°	3942	2094	3840	2861
60°	3867	1998	3750	2814
65°	3775	1892	3647	2780
70°	3626	1800	3473	2738
75°	3375	1582	3216	2604
80°	2996	1323	2808	2210
85°	2834	945	2489	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	3.5
10°-20°	406.9	10.1
20°-30°	608.1	15.1
30°-40°	723.8	18.0
40°-50°	723.5	18.0
50°-60°	622.5	15.5
60°-70°	468.6	11.6
70°-80°	267.0	6.6
80°-90°	65.0	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°	1157.6	28.7
0°-40°	1881.4	46.7
0°-60°	3227.5	80.1
0°-90°	4028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4028.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1502	1502	1502	1502	1502	
5°	1510	1489	1508	1499	1510	144
15°	1474	1357	1468	1463	1474	416
25°	1393	1204	1386	1318	1393	642
35°	1258	1051	1245	1109	1258	787
45°	1070	686	1046	838	1070	824
55°	840	446	818	610	840	751
65°	593	297	573	437	593	585
75°	325	152	309	250	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°	1501.5	1501.5	1501.5	1501.5	1501.5	1501.5	1501.5	1501.5	1501.5	1501.5	1501.5
2.5°	1512.8	1499.1	1507.1	1504.7	1491.8	1496.7	1501.5	1496.7	1511.2	1498.3	1507.1
5°	1510.4	1495.9	1500.7	1495.9	1489.4	1491.0	1498.3	1493.5	1507.9	1494.3	1505.5
7.5°	1505.5	1487.8	1492.6	1490.2	1484.6	1485.4	1492.6	1488.6	1501.5	1488.6	1501.5
10°	1498.3	1479.8	1483.8	1473.3	1461.2	1470.1	1484.6	1480.6	1494.3	1479.8	1494.3
12.5°	1487.0	1468.5	1464.5	1429.8	1408.1	1425.0	1469.3	1469.3	1482.2	1468.5	1483.8
15°	1474.1	1454.0	1432.2	1379.9	1357.3	1374.2	1435.5	1456.4	1467.7	1454.0	1469.3
17.5°	1458.8	1435.5	1393.6	1332.3	1311.4	1328.3	1391.1	1437.1	1451.6	1437.1	1450.8
20°	1439.5	1412.1	1352.5	1282.4	1268.7	1284.0	1346.8	1413.7	1433.8	1416.1	1425.8
22.5°	1418.5	1385.5	1306.6	1243.7	1237.3	1247.0	1304.2	1384.7	1411.3	1392.8	1399.2
25°	1392.8	1354.1	1260.7	1208.3	1203.5	1209.1	1262.3	1350.9	1385.5	1366.2	1368.6
27.5°	1365.4	1323.5	1217.2	1178.5	1173.7	1176.1	1220.4	1313.0	1355.7	1336.4	1332.3
30°	1332.3	1287.2	1173.7	1138.2	1133.4	1142.2	1180.1	1274.3	1322.7	1303.3	1291.3
32.5°	1299.3	1247.8	1131.0	1103.6	1093.9	1102.0	1138.2	1234.1	1286.4	1266.3	1246.2
35°	1258.2	1205.9	1086.7	1059.3	1051.2	1060.1	1096.3	1192.2	1245.3	1225.2	1197.8
37.5°	1215.5	1161.6	1046.4	1021.4	1006.9	1017.4	1053.6	1148.7	1202.7	1181.7	1147.9
40°	1172.8	1114.9	1001.3	975.5	957.0	972.3	1009.3	1102.8	1154.3	1135.0	1096.3
42.5°	1122.9	1068.1	957.0	920.7	868.4	917.5	961.8	1056.9	1104.4	1085.9	1039.1
45°	1070.5	1018.2	910.2	822.4	686.3	830.5	913.5	1008.5	1046.4	1028.7	977.9
47.5°	1010.9	966.6	862.7	729.0	596.9	737.1	864.3	962.6	991.6	972.3	915.9
50°	958.6	915.1	812.8	650.1	534.1	658.9	812.0	911.1	935.2	917.5	854.7
52.5°	899.0	861.1	758.8	580.0	487.3	588.8	757.2	857.9	877.2	856.3	793.4
55°	840.2	806.3	701.6	518.0	446.3	526.0	700.0	803.1	818.4	794.3	729.0
57.5°	780.6	749.9	642.8	462.4	408.4	471.2	646.8	746.7	757.2	726.6	667.0
60°	718.5	692.8	583.2	413.2	371.3	420.5	581.6	690.3	696.8	663.8	606.6
62.5°	656.5	633.1	523.6	368.1	333.5	373.0	527.6	630.7	634.8	603.3	544.5
65°	592.9	571.1	465.6	320.6	297.2	328.7	469.6	568.7	572.7	537.3	484.1
67.5°	526.8	509.1	403.6	284.4	262.6	286.8	411.6	505.9	508.3	473.7	425.3
70°	460.8	445.5	348.8	244.9	228.8	245.7	354.4	436.6	441.4	404.4	365.7
72.5°	393.1	381.0	295.6	203.8	189.3	203.8	298.9	373.0	376.2	345.6	307.7
75°	324.6	315.8	241.7	163.5	152.2	162.7	243.3	309.3	309.3	280.3	250.5
77.5°	258.6	252.1	185.3	125.7	117.6	124.1	186.1	244.9	243.3	220.7	197.4
80°	193.3	188.5	132.9	91.0	85.4	88.6	132.9	181.2	181.2	165.1	136.9
82.5°	138.6	132.9	87.8	59.6	56.4	58.0	86.2	126.5	128.9	116.8	92.6
85°	91.8	78.9	47.5	33.0	30.6	31.4	45.1	73.3	80.6	67.7	48.3
87.5°	40.3	26.6	12.1	4.8	2.4	3.2	9.7	23.4	30.6	20.1	6.4
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°	1501.5	1501.5	1501.5	1501.5	1501.5	1501.5
2.5°	1506.3	1493.5	1498.3	1501.5	1498.3	1512.8
5°	1504.7	1499.1	1498.3	1502.3	1495.9	1510.4
7.5°	1502.3	1499.1	1498.3	1499.9	1491.8	1505.5
10°	1496.7	1491.8	1493.5	1495.9	1485.4	1498.3
12.5°	1486.2	1481.4	1482.2	1490.2	1475.7	1487.0
15°	1468.5	1462.8	1468.5	1477.3	1464.5	1474.1
17.5°	1445.1	1436.3	1445.9	1459.6	1450.0	1458.8
20°	1415.3	1401.6	1412.1	1437.1	1428.2	1439.5
22.5°	1379.1	1362.1	1372.6	1408.9	1406.5	1418.5
25°	1338.0	1317.8	1332.3	1376.6	1381.5	1392.8
27.5°	1292.1	1269.5	1288.8	1341.2	1352.5	1365.4
30°	1242.1	1218.0	1240.5	1301.7	1318.7	1332.3
32.5°	1190.6	1164.0	1189.8	1257.4	1281.6	1299.3
35°	1136.6	1109.2	1138.2	1211.5	1240.5	1258.2
37.5°	1078.6	1052.0	1083.4	1163.2	1197.8	1215.5
40°	1019.0	989.2	1024.6	1106.0	1151.9	1172.8
42.5°	957.8	920.7	964.2	1052.0	1102.0	1122.9
45°	889.3	837.7	896.6	994.8	1047.2	1070.5
47.5°	820.8	769.3	828.9	933.6	990.0	1010.9
50°	754.8	710.5	758.0	866.7	932.0	958.6
52.5°	694.4	658.1	698.4	801.5	872.4	899.0
55°	638.0	609.8	642.8	737.1	809.6	840.2
57.5°	584.8	567.1	589.6	675.8	751.6	780.6
60°	534.9	522.8	538.9	615.4	683.1	718.5
62.5°	485.7	479.3	491.4	551.8	619.5	656.5
65°	438.2	436.6	443.0	496.2	552.6	592.9
67.5°	390.7	389.9	393.9	437.4	487.3	526.8
70°	343.2	348.0	345.6	373.8	422.1	460.8
72.5°	294.8	302.1	298.0	315.8	362.5	393.1
75°	240.9	250.5	242.5	262.6	291.6	324.6
77.5°	185.3	195.7	186.1	203.8	235.2	258.6
80°	132.9	142.6	134.5	148.2	175.6	193.3
82.5°	83.8	91.0	84.6	98.3	125.7	138.6
85°	37.1	41.1	42.7	53.2	77.3	91.8
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)