

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: P520753

Luminaire Tested: **8WSLA-50-L840-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520753
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-L840-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

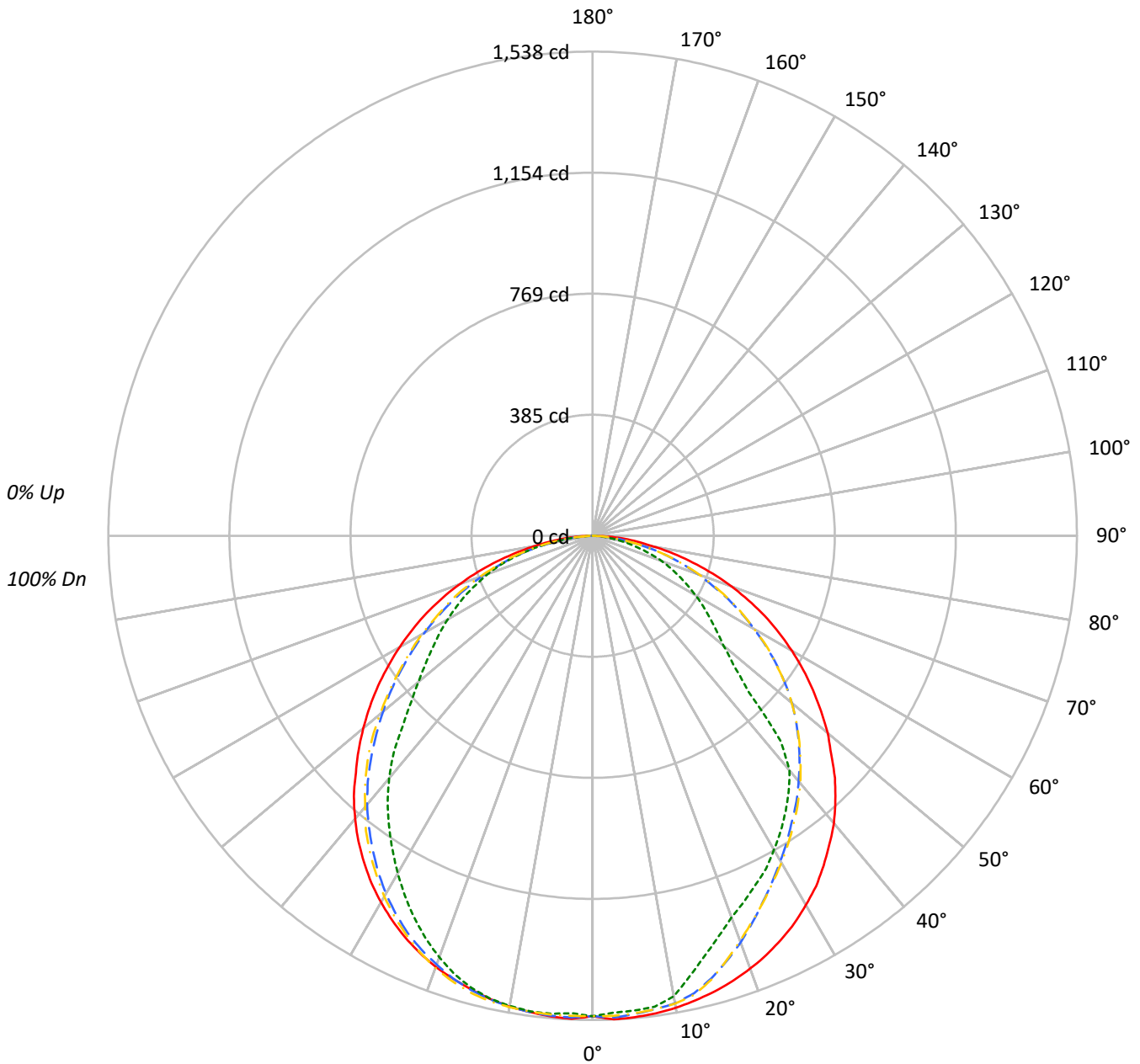
Lumens per Lamp: N/A
Luminaire Lumens: 4094.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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									
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°	4107	4107	4107	4107
5°	4147	4089	4140	4116
10°	4161	4058	4150	4143
15°	4174	3843	4156	4142
20°	4190	3693	4173	4080
25°	4203	3632	4181	3977
30°	4208	3579	4177	3846
35°	4201	3510	4158	3704
40°	4188	3417	4121	3532
45°	4141	2655	4047	3240
50°	4079	2272	3979	3023
55°	4006	2128	3902	2908
60°	3930	2031	3812	2860
65°	3837	1924	3706	2826
70°	3685	1829	3530	2783
75°	3430	1608	3269	2647
80°	3045	1345	2854	2245
85°	2881	960	2529	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	3.5
10°-20°	413.6	10.1
20°-30°	618.0	15.1
30°-40°	735.7	18.0
40°-50°	735.3	18.0
50°-60°	632.7	15.5
60°-70°	476.2	11.6
70°-80°	271.4	6.6
80°-90°	66.0	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°	1176.6	28.7
0°-40°	1912.3	46.7
0°-60°	3280.3	80.1
0°-90°	4094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4094.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1526	1526	1526	1526	1526	
5°	1535	1514	1533	1524	1535	146
15°	1498	1380	1492	1487	1498	423
25°	1416	1223	1408	1339	1416	653
35°	1279	1068	1266	1127	1279	800
45°	1088	698	1064	852	1088	838
55°	854	454	832	620	854	763
65°	603	302	582	444	603	595
75°	330	155	314	255	330	349
85°	93	31	82	42	93	102
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°	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1
2.5°	1537.6	1523.7	1531.8	1529.4	1516.3	1521.2	1526.1	1521.2	1535.9	1522.8	1531.8
5°	1535.1	1520.4	1525.3	1520.4	1513.8	1515.5	1522.8	1517.9	1532.7	1518.7	1530.2
7.5°	1530.2	1512.2	1517.1	1514.6	1508.9	1509.7	1517.1	1513.0	1526.1	1513.0	1526.1
10°	1522.8	1504.0	1508.1	1497.5	1485.2	1494.2	1508.9	1504.8	1518.7	1504.0	1518.7
12.5°	1511.4	1492.5	1488.4	1453.2	1431.1	1448.3	1493.4	1493.4	1506.5	1492.5	1508.1
15°	1498.3	1477.8	1455.7	1402.5	1379.6	1396.7	1459.0	1480.3	1491.7	1477.8	1493.4
17.5°	1482.7	1459.0	1416.4	1354.2	1332.9	1350.1	1413.9	1460.6	1475.3	1460.6	1474.5
20°	1463.1	1435.2	1374.6	1303.4	1289.5	1305.1	1368.9	1436.9	1457.3	1439.3	1449.1
22.5°	1441.8	1408.2	1328.0	1264.1	1257.6	1267.4	1325.5	1407.4	1434.4	1415.6	1422.1
25°	1415.6	1376.3	1281.3	1228.1	1223.2	1228.9	1282.9	1373.0	1408.2	1388.6	1391.0
27.5°	1387.7	1345.2	1237.1	1197.8	1192.9	1195.3	1240.4	1334.5	1377.9	1358.3	1354.2
30°	1354.2	1308.3	1192.9	1156.9	1151.9	1161.0	1199.4	1295.2	1344.4	1324.7	1312.4
32.5°	1320.6	1268.2	1149.5	1121.7	1111.8	1120.0	1156.9	1254.3	1307.5	1287.0	1266.6
35°	1278.9	1225.6	1104.5	1076.6	1068.4	1077.4	1114.3	1211.7	1265.8	1245.3	1217.4
37.5°	1235.5	1180.6	1063.5	1038.1	1023.4	1034.1	1070.9	1167.5	1222.4	1201.1	1166.7
40°	1192.1	1133.1	1017.7	991.5	972.6	988.2	1025.9	1120.8	1173.2	1153.6	1114.3
42.5°	1141.3	1085.6	972.6	935.8	882.6	932.5	977.6	1074.2	1122.5	1103.6	1056.2
45°	1088.1	1034.9	925.2	835.9	697.6	844.1	928.4	1025.0	1063.5	1045.5	993.9
47.5°	1027.5	982.5	876.9	740.9	606.7	749.1	878.5	978.4	1007.9	988.2	930.9
50°	974.3	930.1	826.1	660.7	542.8	669.7	825.3	926.0	950.5	932.5	868.7
52.5°	913.7	875.2	771.2	589.5	495.3	598.5	769.6	871.9	891.6	870.3	806.4
55°	853.9	819.5	713.1	526.4	453.6	534.6	711.5	816.3	831.8	807.3	740.9
57.5°	793.3	762.2	653.3	469.9	415.1	479.0	657.4	759.0	769.6	738.5	677.9
60°	730.3	704.1	592.8	420.0	377.4	427.4	591.1	701.6	708.2	674.6	616.5
62.5°	667.3	643.5	532.2	374.2	339.0	379.1	536.3	641.1	645.2	613.2	553.5
65°	602.6	580.5	473.2	325.9	302.1	334.0	477.3	578.0	582.1	546.1	492.1
67.5°	535.4	517.4	410.2	289.0	266.9	291.5	418.4	514.2	516.6	481.4	432.3
70°	468.3	452.8	354.5	248.9	232.5	249.7	360.2	443.8	448.7	411.0	371.7
72.5°	399.5	387.3	300.5	207.1	192.4	207.1	303.7	379.1	382.3	351.2	312.8
75°	329.9	320.9	245.6	166.2	154.7	165.4	247.3	314.4	314.4	284.9	254.6
77.5°	262.8	256.3	188.3	127.7	119.5	126.1	189.1	248.9	247.3	224.3	200.6
80°	196.5	191.6	135.1	92.5	86.8	90.1	135.1	184.2	184.2	167.8	139.2
82.5°	140.8	135.1	89.2	60.6	57.3	58.9	87.6	128.5	131.0	118.7	94.2
85°	93.3	80.2	48.3	33.6	31.1	31.9	45.8	74.5	81.9	68.8	49.1
87.5°	40.9	27.0	12.3	4.9	2.5	3.3	9.8	23.7	31.1	20.5	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°	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1
2.5°	1531.0	1517.9	1522.8	1526.1	1522.8	1537.6
5°	1529.4	1523.7	1522.8	1526.9	1520.4	1535.1
7.5°	1526.9	1523.7	1522.8	1524.5	1516.3	1530.2
10°	1521.2	1516.3	1517.9	1520.4	1509.7	1522.8
12.5°	1510.6	1505.6	1506.5	1514.6	1499.9	1511.4
15°	1492.5	1486.8	1492.5	1501.5	1488.4	1498.3
17.5°	1468.8	1459.8	1469.6	1483.5	1473.7	1482.7
20°	1438.5	1424.6	1435.2	1460.6	1451.6	1463.1
22.5°	1401.7	1384.5	1395.1	1432.0	1429.5	1441.8
25°	1359.9	1339.4	1354.2	1399.2	1404.1	1415.6
27.5°	1313.2	1290.3	1310.0	1363.2	1374.6	1387.7
30°	1262.5	1237.9	1260.8	1323.1	1340.3	1354.2
32.5°	1210.1	1183.1	1209.3	1278.0	1302.6	1320.6
35°	1155.2	1127.4	1156.9	1231.4	1260.8	1278.9
37.5°	1096.3	1069.3	1101.2	1182.2	1217.4	1235.5
40°	1035.7	1005.4	1041.4	1124.1	1170.8	1192.1
42.5°	973.5	935.8	980.0	1069.3	1120.0	1141.3
45°	903.9	851.5	911.2	1011.1	1064.3	1088.1
47.5°	834.3	781.9	842.5	948.9	1006.2	1027.5
50°	767.1	722.1	770.4	881.0	947.3	974.3
52.5°	705.7	668.9	709.8	814.6	886.7	913.7
55°	648.4	619.8	653.3	749.1	822.8	853.9
57.5°	594.4	576.4	599.3	686.9	763.9	793.3
60°	543.6	531.4	547.7	625.5	694.3	730.3
62.5°	493.7	487.1	499.4	560.8	629.6	667.3
65°	445.4	443.8	450.3	504.3	561.6	602.6
67.5°	397.1	396.3	400.4	444.6	495.3	535.4
70°	348.8	353.7	351.2	379.9	429.0	468.3
72.5°	299.7	307.0	302.9	320.9	368.4	399.5
75°	244.8	254.6	246.4	266.9	296.4	329.9
77.5°	188.3	199.0	189.1	207.1	239.1	262.8
80°	135.1	144.9	136.7	150.6	178.5	196.5
82.5°	85.1	92.5	86.0	99.9	127.7	140.8
85°	37.7	41.8	43.4	54.0	78.6	93.3
87.5°	1.6	0.8	1.6	10.6	27.8	40.9
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)