

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: P520768

Luminaire Tested: **8WSLA-50-L950-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520768
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-L950-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

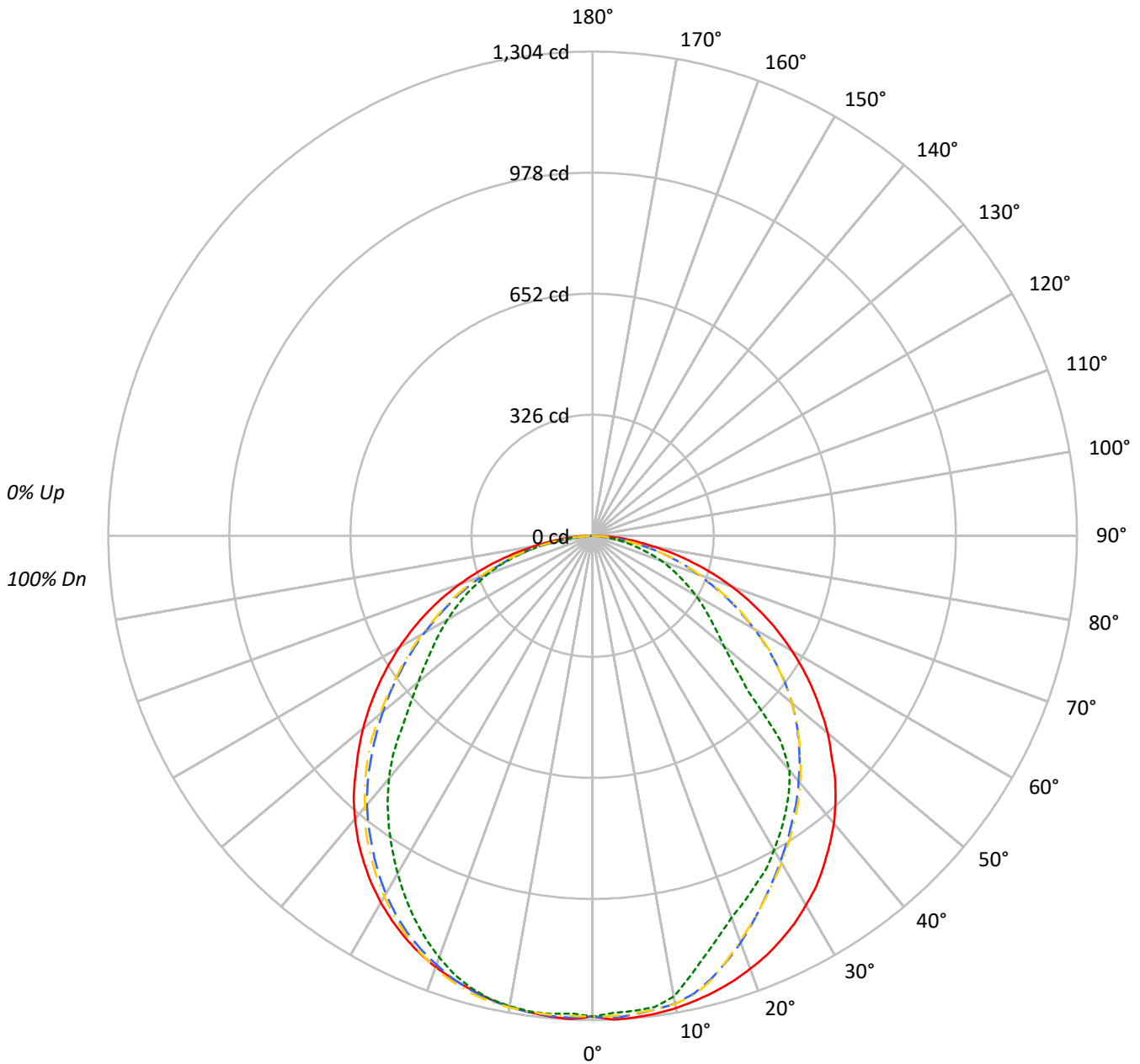
Lumens per Lamp: N/A
Luminaire Lumens: 3473.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	3484	3484	3484	3484
5°	3518	3469	3512	3491
10°	3530	3443	3521	3515
15°	3541	3260	3525	3514
20°	3554	3133	3540	3461
25°	3566	3081	3547	3374
30°	3570	3036	3544	3263
35°	3564	2978	3528	3142
40°	3552	2898	3496	2996
45°	3513	2252	3433	2749
50°	3460	1928	3376	2565
55°	3399	1805	3311	2467
60°	3334	1723	3233	2426
65°	3255	1632	3144	2397
70°	3126	1552	2995	2360
75°	2910	1365	2773	2246
80°	2583	1141	2422	1905
85°	2445	815	2146	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.5
10°-20°	350.9	10.1
20°-30°	524.3	15.1
30°-40°	624.1	18.0
40°-50°	623.8	18.0
50°-60°	536.8	15.5
60°-70°	404.0	11.6
70°-80°	230.2	6.6
80°-90°	56.0	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°	998.1	28.7
0°-40°	1622.2	46.7
0°-60°	2782.8	80.1
0°-90°	3473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1295	1295	1295	1295	1295	
5°	1302	1284	1300	1292	1302	124
15°	1271	1170	1265	1261	1271	359
25°	1201	1038	1195	1136	1201	554
35°	1085	906	1074	956	1085	679
45°	923	592	902	722	923	711
55°	724	385	706	526	724	648
65°	511	256	494	376	511	505
75°	280	131	267	216	280	296
85°	79	26	70	35	79	86
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°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1304.3	1292.5	1299.5	1297.4	1286.3	1290.5	1294.6	1290.5	1303.0	1291.8	1299.5
5°	1302.3	1289.8	1293.9	1289.8	1284.2	1285.6	1291.8	1287.7	1300.2	1288.4	1298.1
7.5°	1298.1	1282.8	1287.0	1284.9	1280.0	1280.7	1287.0	1283.5	1294.6	1283.5	1294.6
10°	1291.8	1275.9	1279.3	1270.3	1259.9	1267.5	1280.0	1276.6	1288.4	1275.9	1288.4
12.5°	1282.1	1266.1	1262.7	1232.8	1214.1	1228.6	1266.8	1266.8	1278.0	1266.1	1279.3
15°	1271.0	1253.6	1234.9	1189.7	1170.3	1184.9	1237.7	1255.7	1265.4	1253.6	1266.8
17.5°	1257.8	1237.7	1201.6	1148.8	1130.7	1145.3	1199.5	1239.1	1251.6	1239.1	1250.9
20°	1241.1	1217.5	1166.1	1105.7	1093.9	1107.1	1161.3	1218.9	1236.3	1221.0	1229.3
22.5°	1223.1	1194.6	1126.5	1072.4	1066.8	1075.1	1124.5	1193.9	1216.8	1200.9	1206.4
25°	1200.9	1167.5	1087.0	1041.8	1037.6	1042.5	1088.3	1164.7	1194.6	1177.9	1180.0
27.5°	1177.2	1141.1	1049.4	1016.1	1011.9	1014.0	1052.2	1132.1	1168.9	1152.2	1148.8
30°	1148.8	1109.9	1011.9	981.4	977.2	984.9	1017.5	1098.8	1140.4	1123.8	1113.3
32.5°	1120.3	1075.8	975.1	951.5	943.2	950.1	981.4	1064.0	1109.2	1091.8	1074.5
35°	1084.9	1039.7	936.9	913.3	906.4	914.0	945.3	1027.9	1073.8	1056.4	1032.8
37.5°	1048.1	1001.5	902.2	880.7	868.2	877.2	908.5	990.4	1036.9	1018.9	989.7
40°	1011.2	961.2	863.3	841.1	825.1	838.3	870.3	950.8	995.3	978.6	945.3
42.5°	968.2	921.0	825.1	793.9	748.7	791.1	829.3	911.2	952.2	936.2	896.0
45°	923.0	877.9	784.8	709.1	591.7	716.1	787.6	869.6	902.2	886.9	843.2
47.5°	871.6	833.4	743.9	628.6	514.7	635.5	745.2	830.0	855.0	838.3	789.7
50°	826.5	789.0	700.8	560.5	460.5	568.1	700.1	785.5	806.4	791.1	736.9
52.5°	775.1	742.5	654.3	500.1	420.2	507.7	652.9	739.7	756.4	738.3	684.1
55°	724.4	695.2	604.9	446.6	384.8	453.5	603.6	692.5	705.7	684.8	628.6
57.5°	673.0	646.6	554.2	398.7	352.1	406.3	557.7	643.8	652.9	626.5	575.1
60°	619.5	597.3	502.8	356.3	320.2	362.5	501.5	595.2	600.8	572.3	523.0
62.5°	566.0	545.9	451.4	317.4	287.5	321.6	454.9	543.8	547.3	520.2	469.5
65°	511.2	492.4	401.4	276.4	256.3	283.4	404.9	490.3	493.8	463.3	417.4
67.5°	454.2	438.9	348.0	245.2	226.4	247.3	354.9	436.2	438.3	408.4	366.7
70°	397.3	384.1	300.7	211.1	197.2	211.8	305.6	376.4	380.6	348.7	315.3
72.5°	338.9	328.5	254.9	175.7	163.2	175.7	257.7	321.6	324.3	298.0	265.3
75°	279.9	272.3	208.4	141.0	131.3	140.3	209.8	266.7	266.7	241.7	216.0
77.5°	222.9	217.4	159.7	108.3	101.4	107.0	160.4	211.1	209.8	190.3	170.2
80°	166.7	162.5	114.6	78.5	73.6	76.4	114.6	156.3	156.3	142.4	118.1
82.5°	119.5	114.6	75.7	51.4	48.6	50.0	74.3	109.0	111.1	100.7	79.9
85°	79.2	68.1	41.0	28.5	26.4	27.1	38.9	63.2	69.5	58.3	41.7
87.5°	34.7	22.9	10.4	4.2	2.1	2.8	8.3	20.1	26.4	17.4	5.6
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°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1298.8	1287.7	1291.8	1294.6	1291.8	1304.3
5°	1297.4	1292.5	1291.8	1295.3	1289.8	1302.3
7.5°	1295.3	1292.5	1291.8	1293.2	1286.3	1298.1
10°	1290.5	1286.3	1287.7	1289.8	1280.7	1291.8
12.5°	1281.4	1277.3	1278.0	1284.9	1272.4	1282.1
15°	1266.1	1261.3	1266.1	1273.8	1262.7	1271.0
17.5°	1246.0	1238.4	1246.7	1258.5	1250.2	1257.8
20°	1220.3	1208.5	1217.5	1239.1	1231.4	1241.1
22.5°	1189.0	1174.5	1183.5	1214.7	1212.7	1223.1
25°	1153.6	1136.3	1148.8	1187.0	1191.1	1200.9
27.5°	1114.0	1094.6	1111.3	1156.4	1166.1	1177.2
30°	1071.0	1050.1	1069.6	1122.4	1137.0	1148.8
32.5°	1026.5	1003.6	1025.8	1084.2	1105.0	1120.3
35°	980.0	956.4	981.4	1044.6	1069.6	1084.9
37.5°	930.0	907.1	934.2	1002.9	1032.8	1048.1
40°	878.6	852.9	883.5	953.6	993.2	1011.2
42.5°	825.8	793.9	831.4	907.1	950.1	968.2
45°	766.8	722.3	773.0	857.8	902.9	923.0
47.5°	707.7	663.3	714.7	805.0	853.6	871.6
50°	650.8	612.6	653.6	747.3	803.6	826.5
52.5°	598.7	567.4	602.2	691.1	752.2	775.1
55°	550.1	525.8	554.2	635.5	698.0	724.4
57.5°	504.2	489.0	508.4	582.7	648.0	673.0
60°	461.2	450.8	464.6	530.6	589.0	619.5
62.5°	418.8	413.3	423.7	475.8	534.1	566.0
65°	377.8	376.4	382.0	427.8	476.5	511.2
67.5°	336.9	336.2	339.6	377.1	420.2	454.2
70°	295.9	300.0	298.0	322.3	363.9	397.3
72.5°	254.2	260.5	257.0	272.3	312.5	338.9
75°	207.7	216.0	209.1	226.4	251.4	279.9
77.5°	159.7	168.8	160.4	175.7	202.8	222.9
80°	114.6	122.9	116.0	127.8	151.4	166.7
82.5°	72.2	78.5	72.9	84.7	108.3	119.5
85°	31.9	35.4	36.8	45.8	66.7	79.2
87.5°	1.4	0.7	1.4	9.0	23.6	34.7
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)