

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: P520765

Luminaire Tested: **8WSLA-50-L940-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520765
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-L940-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

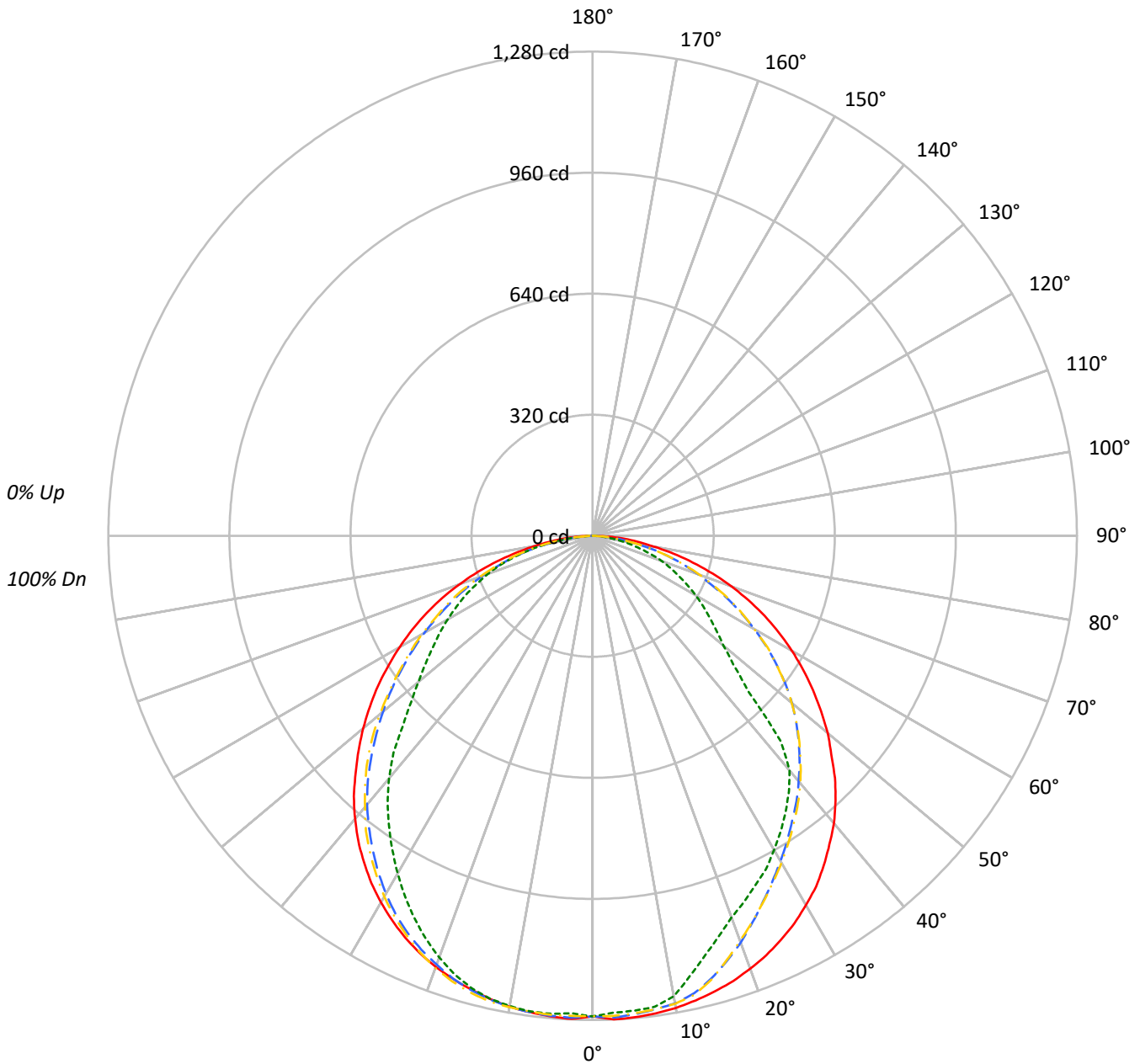
Lumens per Lamp: N/A
Luminaire Lumens: 3408.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	3419	3419	3419	3419
5°	3452	3404	3446	3426
10°	3464	3378	3455	3449
15°	3475	3199	3460	3448
20°	3488	3074	3474	3396
25°	3499	3023	3480	3311
30°	3503	2980	3477	3202
35°	3497	2922	3461	3083
40°	3486	2844	3431	2940
45°	3447	2210	3369	2697
50°	3395	1892	3313	2516
55°	3335	1772	3248	2420
60°	3272	1691	3173	2380
65°	3194	1601	3086	2352
70°	3067	1523	2939	2316
75°	2856	1339	2721	2204
80°	2535	1119	2376	1869
85°	2399	800	2106	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	3.5
10°-20°	344.3	10.1
20°-30°	514.5	15.1
30°-40°	612.4	18.0
40°-50°	612.1	18.0
50°-60°	526.7	15.5
60°-70°	396.4	11.6
70°-80°	225.9	6.6
80°-90°	55.0	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°	979.5	28.7
0°-40°	1591.8	46.7
0°-60°	2730.7	80.1
0°-90°	3408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3408.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1270	1270	1270	1270	1270	
5°	1278	1260	1276	1268	1278	122
15°	1247	1148	1242	1238	1247	352
25°	1178	1018	1172	1115	1178	543
35°	1065	889	1054	938	1065	666
45°	906	581	885	709	906	698
55°	711	378	692	516	711	636
65°	502	252	485	369	502	495
75°	275	129	262	212	275	291
85°	78	26	68	35	78	85
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°	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4
2.5°	1279.9	1268.3	1275.2	1273.1	1262.2	1266.3	1270.4	1266.3	1278.6	1267.7	1275.2
5°	1277.9	1265.6	1269.7	1265.6	1260.2	1261.5	1267.7	1263.6	1275.8	1264.3	1273.8
7.5°	1273.8	1258.8	1262.9	1260.8	1256.1	1256.8	1262.9	1259.5	1270.4	1259.5	1270.4
10°	1267.7	1252.0	1255.4	1246.5	1236.3	1243.8	1256.1	1252.7	1264.3	1252.0	1264.3
12.5°	1258.1	1242.4	1239.0	1209.7	1191.3	1205.6	1243.1	1243.1	1254.0	1242.4	1255.4
15°	1247.2	1230.2	1211.8	1167.5	1148.4	1162.7	1214.5	1232.2	1241.8	1230.2	1243.1
17.5°	1234.3	1214.5	1179.1	1127.3	1109.5	1123.9	1177.0	1215.9	1228.1	1215.9	1227.5
20°	1217.9	1194.7	1144.3	1085.0	1073.4	1086.4	1139.5	1196.1	1213.1	1198.1	1206.3
22.5°	1200.2	1172.2	1105.5	1052.3	1046.8	1055.0	1103.4	1171.6	1194.1	1178.4	1183.8
25°	1178.4	1145.7	1066.6	1022.3	1018.2	1023.0	1068.0	1142.9	1172.2	1155.9	1157.9
27.5°	1155.2	1119.8	1029.8	997.1	993.0	995.0	1032.5	1110.9	1147.0	1130.7	1127.3
30°	1127.3	1089.1	993.0	963.0	958.9	966.4	998.5	1078.2	1119.1	1102.7	1092.5
32.5°	1099.3	1055.7	956.9	933.7	925.5	932.3	963.0	1044.1	1088.4	1071.4	1054.3
35°	1064.6	1020.3	919.4	896.2	889.4	896.9	927.6	1008.7	1053.7	1036.6	1013.4
37.5°	1028.4	982.8	885.3	864.2	851.9	860.8	891.5	971.9	1017.5	999.8	971.2
40°	992.3	943.3	847.2	825.3	809.7	822.6	854.0	933.0	976.6	960.3	927.6
42.5°	950.1	903.7	809.7	779.0	734.7	776.3	813.8	894.2	934.4	918.7	879.2
45°	905.8	861.5	770.1	695.9	580.7	702.7	772.9	853.3	885.3	870.3	827.4
47.5°	855.3	817.8	729.9	616.8	505.0	623.6	731.3	814.4	839.0	822.6	774.9
50°	811.0	774.2	687.7	550.0	451.9	557.5	687.0	770.8	791.3	776.3	723.1
52.5°	760.6	728.6	642.0	490.7	412.3	498.2	640.6	725.8	742.2	724.5	671.3
55°	710.8	682.2	593.6	438.2	377.6	445.0	592.3	679.5	692.4	672.0	616.8
57.5°	660.4	634.5	543.9	391.2	345.5	398.7	547.3	631.8	640.6	614.7	564.3
60°	607.9	586.1	493.4	349.6	314.2	355.8	492.1	584.1	589.5	561.6	513.2
62.5°	555.5	535.7	443.0	311.5	282.2	315.6	446.4	533.6	537.1	510.5	460.7
65°	501.6	483.2	393.9	271.3	251.5	278.1	397.3	481.2	484.6	454.6	409.6
67.5°	445.7	430.7	341.5	240.6	222.2	242.6	348.3	428.0	430.1	400.7	359.9
70°	389.8	376.9	295.1	207.2	193.6	207.9	299.9	369.4	373.5	342.1	309.4
72.5°	332.6	322.4	250.1	172.4	160.2	172.4	252.9	315.6	318.3	292.4	260.3
75°	274.7	267.2	204.5	138.4	128.8	137.7	205.8	261.7	261.7	237.2	212.0
77.5°	218.8	213.3	156.8	106.3	99.5	105.0	157.4	207.2	205.8	186.7	167.0
80°	163.6	159.5	112.5	77.0	72.2	75.0	112.5	153.3	153.3	139.7	115.9
82.5°	117.2	112.5	74.3	50.4	47.7	49.1	72.9	107.0	109.0	98.8	78.4
85°	77.7	66.8	40.2	27.9	25.9	26.6	38.2	62.0	68.2	57.2	40.9
87.5°	34.1	22.5	10.2	4.1	2.0	2.7	8.2	19.8	25.9	17.0	5.5
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°	1270.4	1270.4	1270.4	1270.4	1270.4	1270.4
2.5°	1274.5	1263.6	1267.7	1270.4	1267.7	1279.9
5°	1273.1	1268.3	1267.7	1271.1	1265.6	1277.9
7.5°	1271.1	1268.3	1267.7	1269.0	1262.2	1273.8
10°	1266.3	1262.2	1263.6	1265.6	1256.8	1267.7
12.5°	1257.4	1253.4	1254.0	1260.8	1248.6	1258.1
15°	1242.4	1237.7	1242.4	1249.9	1239.0	1247.2
17.5°	1222.7	1215.2	1223.4	1234.9	1226.8	1234.3
20°	1197.5	1185.9	1194.7	1215.9	1208.4	1217.9
22.5°	1166.8	1152.5	1161.3	1192.0	1190.0	1200.2
25°	1132.0	1115.0	1127.3	1164.8	1168.8	1178.4
27.5°	1093.2	1074.1	1090.5	1134.8	1144.3	1155.2
30°	1050.9	1030.5	1049.6	1101.4	1115.7	1127.3
32.5°	1007.3	984.8	1006.6	1063.9	1084.3	1099.3
35°	961.7	938.5	963.0	1025.0	1049.6	1064.6
37.5°	912.6	890.1	916.7	984.1	1013.4	1028.4
40°	862.1	836.9	866.9	935.8	974.6	992.3
42.5°	810.4	779.0	815.8	890.1	932.3	950.1
45°	752.4	708.8	758.6	841.7	886.0	905.8
47.5°	694.5	650.9	701.3	789.9	837.6	855.3
50°	638.6	601.1	641.3	733.3	788.5	811.0
52.5°	587.5	556.8	590.9	678.1	738.1	760.6
55°	539.8	515.9	543.9	623.6	684.9	710.8
57.5°	494.8	479.8	498.9	571.8	635.9	660.4
60°	452.5	442.3	455.9	520.7	577.9	607.9
62.5°	411.0	405.5	415.7	466.9	524.1	555.5
65°	370.8	369.4	374.8	419.8	467.5	501.6
67.5°	330.5	329.9	333.3	370.1	412.3	445.7
70°	290.3	294.4	292.4	316.2	357.1	389.8
72.5°	249.4	255.6	252.2	267.2	306.7	332.6
75°	203.8	212.0	205.1	222.2	246.7	274.7
77.5°	156.8	165.6	157.4	172.4	199.0	218.8
80°	112.5	120.6	113.8	125.4	148.6	163.6
82.5°	70.9	77.0	71.6	83.1	106.3	117.2
85°	31.4	34.8	36.1	45.0	65.4	77.7
87.5°	1.4	0.7	1.4	8.9	23.2	34.1
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)