

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: P520477

Luminaire Tested: **4WSLA-100-L940-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520477
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-L940-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

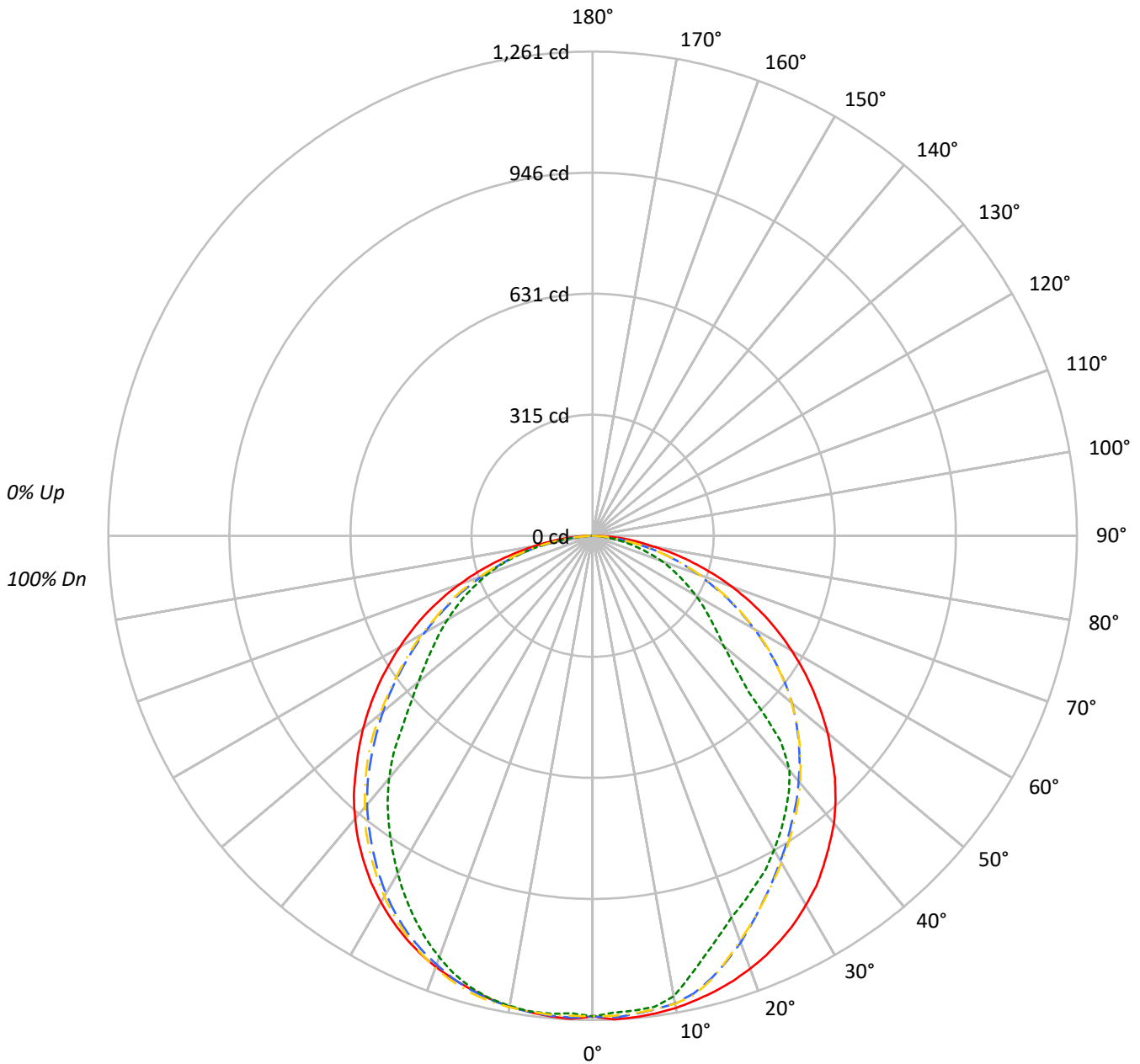
Lumens per Lamp: N/A
Luminaire Lumens: 3357.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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°	6735	6735	6735	6735
5°	6801	6706	6789	6750
10°	6824	6655	6806	6795
15°	6846	6303	6815	6793
20°	6871	6056	6844	6690
25°	6893	5956	6857	6522
30°	6901	5870	6850	6308
35°	6889	5756	6819	6073
40°	6868	5604	6759	5792
45°	6791	4354	6638	5314
50°	6689	3727	6526	4958
55°	6570	3490	6400	4769
60°	6445	3331	6251	4690
65°	6292	3154	6078	4634
70°	6043	3001	5789	4563
75°	5627	2639	5361	4342
80°	4993	2207	4683	3682
85°	4724	1575	4143	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	3.5
10°-20°	339.1	10.1
20°-30°	506.8	15.1
30°-40°	603.2	18.0
40°-50°	603.0	18.0
50°-60°	518.8	15.5
60°-70°	390.5	11.6
70°-80°	222.5	6.6
80°-90°	54.2	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°	964.8	28.7
0°-40°	1568.0	46.7
0°-60°	2689.8	80.1
0°-90°	3357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1251	1251	1251	1251	1251	
5°	1259	1241	1257	1249	1259	120
15°	1229	1131	1223	1219	1229	347
25°	1161	1003	1155	1098	1161	535
35°	1049	876	1038	924	1049	656
45°	892	572	872	698	892	687
55°	700	372	682	508	700	626
65°	494	248	477	364	494	488
75°	271	127	258	209	271	286
85°	76	26	67	34	76	83
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°	1251.4	1251.4	1251.4	1251.4	1251.4	1251.4	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1260.8	1249.4	1256.1	1254.1	1243.3	1247.4	1251.4	1247.4	1259.4	1248.7	1256.1
5°	1258.8	1246.7	1250.7	1246.7	1241.3	1242.7	1248.7	1244.7	1256.7	1245.3	1254.7
7.5°	1254.7	1240.0	1244.0	1242.0	1237.3	1238.0	1244.0	1240.6	1251.4	1240.6	1251.4
10°	1248.7	1233.3	1236.6	1227.9	1217.8	1225.2	1237.3	1233.9	1245.3	1233.3	1245.3
12.5°	1239.3	1223.9	1220.5	1191.6	1173.5	1187.6	1224.5	1224.5	1235.3	1223.9	1236.6
15°	1228.6	1211.8	1193.6	1150.0	1131.2	1145.3	1196.3	1213.8	1223.2	1211.8	1224.5
17.5°	1215.8	1196.3	1161.4	1110.4	1092.9	1107.0	1159.4	1197.7	1209.8	1197.7	1209.1
20°	1199.7	1176.9	1127.2	1068.8	1057.4	1070.1	1122.5	1178.2	1195.0	1180.2	1188.3
22.5°	1182.2	1154.7	1088.9	1036.5	1031.2	1039.2	1086.9	1154.0	1176.2	1160.7	1166.1
25°	1160.7	1128.5	1050.6	1007.0	1003.0	1007.7	1052.0	1125.8	1154.7	1138.6	1140.6
27.5°	1137.9	1103.0	1014.4	982.2	978.1	980.2	1017.1	1094.3	1129.9	1113.8	1110.4
30°	1110.4	1072.8	978.1	948.6	944.6	952.0	983.5	1062.1	1102.3	1086.2	1076.2
32.5°	1082.9	1039.9	942.6	919.7	911.7	918.4	948.6	1028.5	1072.1	1055.3	1038.6
35°	1048.6	1005.0	905.6	882.8	876.1	883.5	913.7	993.6	1037.9	1021.1	998.3
37.5°	1013.1	968.1	872.1	851.3	839.2	847.9	878.1	957.3	1002.3	984.9	956.7
40°	977.5	929.1	834.5	813.0	797.6	810.3	841.2	919.1	962.0	945.9	913.7
42.5°	935.8	890.2	797.6	767.3	723.7	764.7	801.6	880.8	920.4	905.0	866.0
45°	892.2	848.6	758.6	685.4	572.0	692.2	761.3	840.5	872.1	857.3	815.0
47.5°	842.5	805.6	719.0	607.6	497.5	614.3	720.3	802.3	826.4	810.3	763.3
50°	798.9	762.6	677.4	541.8	445.1	549.2	676.7	759.3	779.4	764.7	712.3
52.5°	749.2	717.7	632.4	483.4	406.2	490.7	631.1	715.0	731.1	713.6	661.3
55°	700.2	672.0	584.7	431.7	371.9	438.4	583.4	669.3	682.1	661.9	607.6
57.5°	650.5	625.0	535.7	385.3	340.4	392.7	539.1	622.3	631.1	605.5	555.9
60°	598.8	577.4	486.1	344.4	309.5	350.4	484.7	575.3	580.7	553.2	505.5
62.5°	547.1	527.7	436.4	306.8	277.9	310.8	439.7	525.7	529.0	502.8	453.8
65°	494.1	476.0	388.0	267.2	247.7	273.9	391.4	474.0	477.3	447.8	403.5
67.5°	439.1	424.3	336.3	237.0	218.9	239.0	343.1	421.6	423.6	394.7	354.5
70°	384.0	371.3	290.7	204.1	190.7	204.8	295.4	363.9	367.9	337.0	304.8
72.5°	327.6	317.5	246.4	169.8	157.8	169.8	249.1	310.8	313.5	288.0	256.5
75°	270.6	263.2	201.4	136.3	126.9	135.6	202.7	257.8	257.8	233.6	208.8
77.5°	215.5	210.1	154.4	104.7	98.0	103.4	155.1	204.1	202.7	183.9	164.5
80°	161.1	157.1	110.8	75.9	71.2	73.8	110.8	151.1	151.1	137.6	114.1
82.5°	115.5	110.8	73.2	49.7	47.0	48.3	71.8	105.4	107.4	97.3	77.2
85°	76.5	65.8	39.6	27.5	25.5	26.2	37.6	61.1	67.1	56.4	40.3
87.5°	33.6	22.2	10.1	4.0	2.0	2.7	8.1	19.5	25.5	16.8	5.4
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°	1251.4	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1255.4	1244.7	1248.7	1251.4	1248.7	1260.8
5°	1254.1	1249.4	1248.7	1252.1	1246.7	1258.8
7.5°	1252.1	1249.4	1248.7	1250.0	1243.3	1254.7
10°	1247.4	1243.3	1244.7	1246.7	1238.0	1248.7
12.5°	1238.6	1234.6	1235.3	1242.0	1229.9	1239.3
15°	1223.9	1219.2	1223.9	1231.2	1220.5	1228.6
17.5°	1204.4	1197.0	1205.1	1216.5	1208.4	1215.8
20°	1179.5	1168.1	1176.9	1197.7	1190.3	1199.7
22.5°	1149.3	1135.2	1144.0	1174.2	1172.2	1182.2
25°	1115.1	1098.3	1110.4	1147.3	1151.3	1160.7
27.5°	1076.8	1058.0	1074.1	1117.8	1127.2	1137.9
30°	1035.2	1015.1	1033.9	1084.9	1099.0	1110.4
32.5°	992.2	970.1	991.6	1048.0	1068.1	1082.9
35°	947.3	924.4	948.6	1009.7	1033.9	1048.6
37.5°	898.9	876.8	903.0	969.4	998.3	1013.1
40°	849.2	824.4	853.9	921.8	960.0	977.5
42.5°	798.2	767.3	803.6	876.8	918.4	935.8
45°	741.2	698.2	747.2	829.1	872.7	892.2
47.5°	684.1	641.1	690.8	778.1	825.1	842.5
50°	629.0	592.1	631.7	722.4	776.7	798.9
52.5°	578.7	548.5	582.1	668.0	727.1	749.2
55°	531.7	508.2	535.7	614.3	674.7	700.2
57.5°	487.4	472.6	491.4	563.3	626.4	650.5
60°	445.8	435.7	449.1	512.9	569.3	598.8
62.5°	404.8	399.4	409.5	459.9	516.3	547.1
65°	365.2	363.9	369.2	413.5	460.5	494.1
67.5°	325.6	324.9	328.3	364.5	406.2	439.1
70°	286.0	290.0	288.0	311.5	351.8	384.0
72.5°	245.7	251.8	248.4	263.2	302.1	327.6
75°	200.7	208.8	202.1	218.9	243.0	270.6
77.5°	154.4	163.1	155.1	169.8	196.0	215.5
80°	110.8	118.8	112.1	123.5	146.4	161.1
82.5°	69.8	75.9	70.5	81.9	104.7	115.5
85°	30.9	34.2	35.6	44.3	64.4	76.5
87.5°	1.3	0.7	1.3	8.7	22.8	33.6
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)