

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: P520646

Luminaire Tested: **8WSLA-100-L940-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-100-L940-UPL15-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

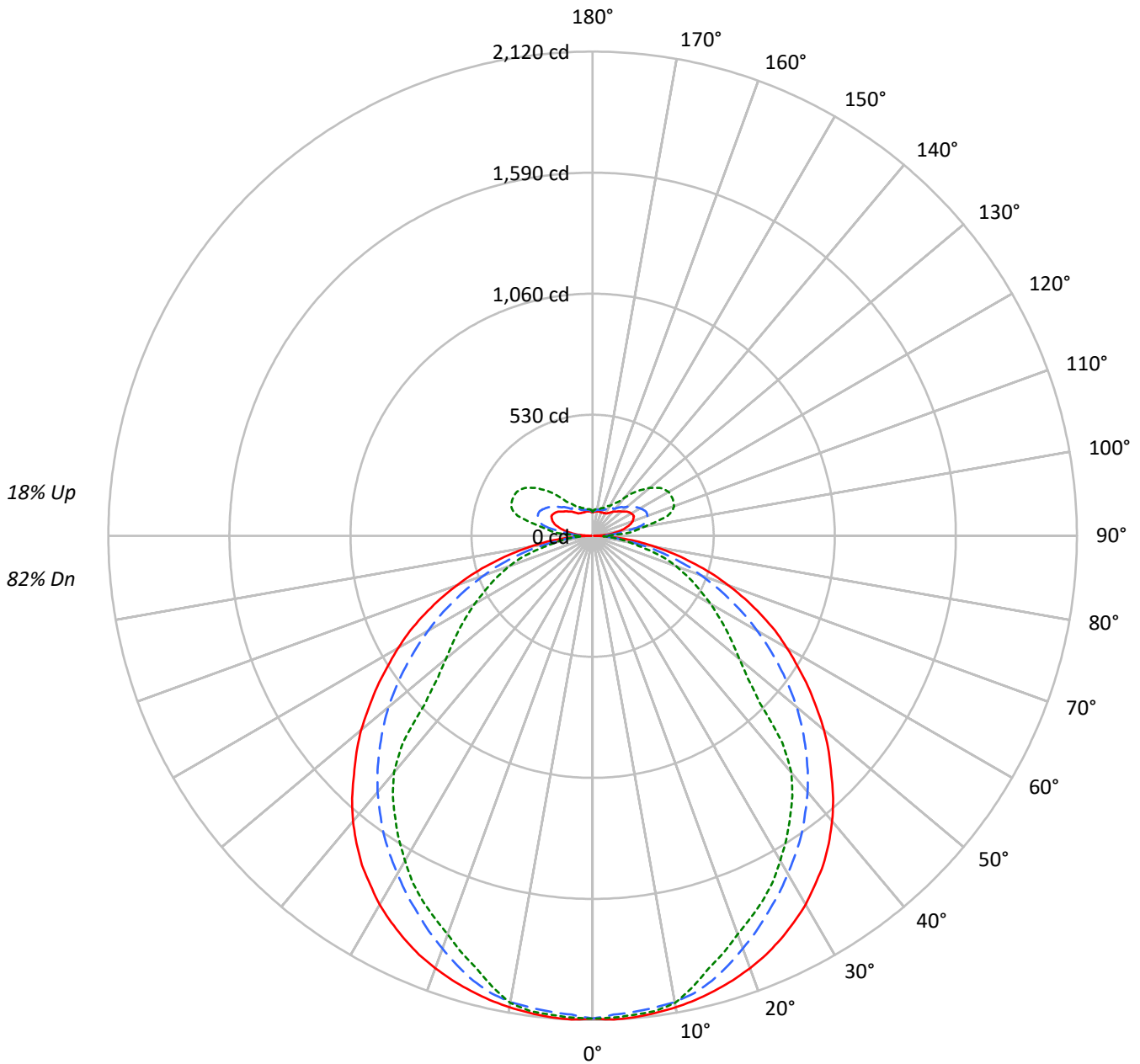
Lumens per Lamp: N/A
Luminaire Lumens: 6846.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.4
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

TEST NUMBER: P520646

CATALOG NUMBER: 8WSLA-100-L940-UPL15-UNV-U

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	61	61	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	52	52	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	45	45	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	39	39	39	36
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	34	34	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	27	27	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5688	5688	5688
5°	5716	5652	5687
10°	5729	5665	5676
15°	5746	5620	5465
20°	5771	5507	5317
25°	5786	5398	5233
30°	5796	5309	5103
35°	5782	5240	4951
40°	5731	5144	4752
45°	5621	5018	3941
50°	5538	4883	3509
55°	5401	4687	3339
60°	5285	4477	3208
65°	5160	4232	3112
70°	4959	3964	3053
75°	4681	3634	2808
80°	4286	3056	2492
85°	3838	2649	2516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	2.9
10°-20°	569.1	8.3
20°-30°	849.3	12.4
30°-40°	1012.0	14.8
40°-50°	1006.6	14.7
50°-60°	862.7	12.6
60°-70°	649.7	9.5
70°-80°	376.3	5.5
80°-90°	113.1	1.7
90°-100°	121.4	1.8
100°-110°	249.3	3.6
110°-120°	263.6	3.9
120°-130°	219.9	3.2
130°-140°	153.6	2.2
140°-150°	95.6	1.4
150°-160°	59.3	0.9
160°-170°	33.4	0.5
170°-180°	10.8	0.2
0°-30°	1618.7	23.6
0°-40°	2630.7	38.4
0°-60°	4500.0	65.7
0°-90°	5639.1	82.4
90°-120°	634.4	9.3
90°-150°	1103.5	16.1
90°-180°	1207.0	17.6
0°-180°	6846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2114	2114	2114	2114	2114	
5°	2116	2110	2092	2107	2105	201
15°	2062	2060	2017	1983	1962	583
25°	1949	1921	1818	1773	1762	898
35°	1760	1713	1595	1533	1507	1099
45°	1477	1441	1318	1188	1036	1142
55°	1151	1134	999	793	712	1029
65°	810	791	665	517	489	801
75°	450	435	350	279	270	477
85°	124	109	86	82	82	133
90°	6	30	52	64	69	13
95°	69	92	105	154	167	66
105°	161	167	240	322	341	167
115°	199	169	255	352	386	194
125°	184	163	221	324	364	164
135°	150	163	178	240	277	117
145°	122	142	154	165	176	78
155°	112	118	126	137	139	51
165°	109	114	118	122	122	31
175°	107	109	112	114	116	10
180°	105	105	105	105	105	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2113.9	2113.9	2113.9	2113.9	2113.9
2.5°	2120.3	2116.0	2098.8	2116.0	2111.7
5°	2116.0	2109.6	2092.4	2107.4	2105.3
7.5°	2107.4	2103.1	2083.8	2101.0	2098.8
10°	2096.7	2090.3	2073.1	2086.0	2077.4
12.5°	2081.7	2077.4	2051.7	2041.0	2023.8
15°	2062.4	2060.3	2017.4	1983.1	1961.6
17.5°	2041.0	2032.4	1972.4	1931.6	1912.3
20°	2015.2	2002.4	1923.1	1875.9	1856.6
22.5°	1985.2	1965.9	1873.7	1828.7	1809.4
25°	1948.8	1920.9	1818.0	1773.0	1762.3
27.5°	1908.0	1875.9	1766.5	1721.5	1708.7
30°	1865.2	1824.4	1708.7	1665.8	1642.2
32.5°	1811.6	1773.0	1652.9	1603.6	1577.9
35°	1760.1	1713.0	1595.0	1532.9	1507.1
37.5°	1697.9	1650.8	1528.6	1466.4	1436.4
40°	1631.5	1584.3	1464.3	1391.4	1352.8
42.5°	1558.6	1515.7	1393.5	1305.6	1230.6
45°	1477.1	1440.7	1318.5	1187.7	1035.5
47.5°	1402.1	1367.8	1243.4	1074.1	917.6
50°	1322.8	1290.6	1166.3	966.9	838.3
52.5°	1234.9	1211.3	1082.7	874.7	771.8
55°	1151.3	1134.1	999.0	793.2	711.8
57.5°	1063.4	1046.2	915.4	716.1	651.7
60°	981.9	964.7	831.8	647.4	596.0
62.5°	900.4	876.8	750.4	581.0	538.1
65°	810.4	791.1	664.6	516.7	488.8
67.5°	720.3	703.2	585.3	456.6	437.3
70°	630.3	615.3	503.8	398.8	388.0
72.5°	542.4	523.1	430.9	340.9	336.6
75°	450.2	435.2	349.5	278.7	270.1
77.5°	362.3	349.5	274.4	212.2	205.8
80°	276.6	263.7	197.2	154.4	160.8
82.5°	203.7	186.5	132.9	120.1	126.5
85°	124.3	109.3	85.8	81.5	81.5
87.5°	42.9	40.7	38.6	45.0	47.2
90°	6.4	30.0	51.5	64.3	68.6
92.5°	36.4	53.6	70.7	83.6	87.9
95°	68.6	92.2	105.0	154.4	167.2
97.5°	94.3	122.2	137.2	182.2	195.1
100°	120.1	145.8	192.9	216.5	231.5
102.5°	141.5	160.8	227.3	274.4	283.0
105°	160.8	167.2	240.1	321.6	340.9



TEST NUMBER: P520646

CATALOG NUMBER: 8WSLA-100-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.9	171.5	257.3	349.5	383.8
115°	199.4	169.4	255.1	351.6	385.9
117.5°	199.4	169.4	248.7	351.6	385.9
120°	195.1	171.5	240.1	347.3	383.8
122.5°	190.8	167.2	231.5	338.7	375.2
125°	184.4	162.9	220.8	323.7	364.5
127.5°	173.7	167.2	210.1	304.4	345.2
130°	165.1	169.4	197.2	285.1	325.9
132.5°	158.6	165.1	184.4	263.7	300.1
135°	150.1	162.9	177.9	240.1	276.6
137.5°	143.6	156.5	167.2	218.7	248.7
140°	137.2	152.2	156.5	190.8	216.5
142.5°	128.6	145.8	147.9	177.9	188.7
145°	122.2	141.5	154.4	165.1	175.8
147.5°	115.8	132.9	150.1	152.2	162.9
150°	113.6	124.3	143.6	145.8	150.1
152.5°	111.5	120.1	132.9	145.8	147.9
155°	111.5	117.9	126.5	137.2	139.4
157.5°	109.3	117.9	122.2	130.8	132.9
160°	109.3	115.8	120.1	126.5	128.6
162.5°	109.3	115.8	117.9	124.3	126.5
165°	109.3	113.6	117.9	122.2	122.2
167.5°	109.3	113.6	115.8	120.1	120.1
170°	109.3	111.5	115.8	117.9	117.9
172.5°	107.2	111.5	113.6	117.9	117.9
175°	107.2	109.3	111.5	113.6	115.8
177.5°	102.9	109.3	111.5	113.6	111.5
180°	105.0	105.0	105.0	105.0	105.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	175.8	169.4	248.7	338.7	366.6
110°	186.5	171.5	255.1	345.2	379.5



(END OF REPORT)