

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: P520644

Luminaire Tested: **8WSLA-100-L935-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-100-L935-UPL8-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

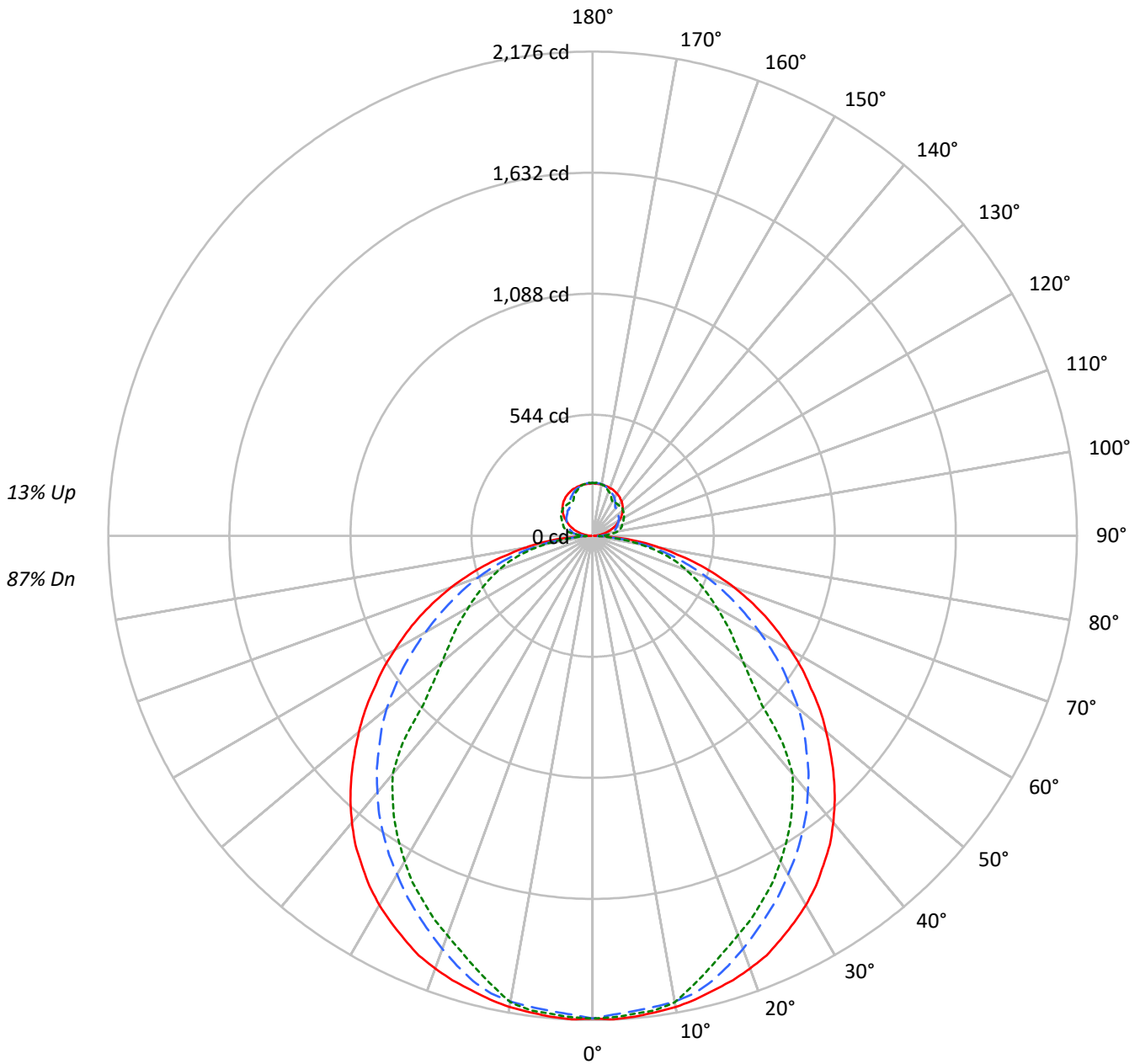
Lumens per Lamp: N/A
Luminaire Lumens: 6751.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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

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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	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																											
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																											
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																											
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																											
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																											
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																											
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																											
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																											
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																											
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																											
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																											

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5838	5838	5838
5°	5860	5792	5826
10°	5876	5808	5817
15°	5887	5774	5617
20°	5926	5658	5470
25°	5940	5551	5366
30°	5955	5460	5247
35°	5937	5383	5106
40°	5910	5285	4912
45°	5832	5167	4098
50°	5736	5057	3698
55°	5623	4891	3559
60°	5527	4670	3461
65°	5445	4472	3458
70°	5305	4297	3511
75°	5062	4089	3537
80°	4740	3676	3288
85°	4338	2603	2217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	3.0
10°-20°	583.8	8.6
20°-30°	872.4	12.9
30°-40°	1041.4	15.4
40°-50°	1041.5	15.4
50°-60°	901.4	13.4
60°-70°	691.8	10.2
70°-80°	423.9	6.3
80°-90°	119.3	1.8
90°-100°	67.4	1.0
100°-110°	107.1	1.6
110°-120°	125.2	1.9
120°-130°	135.1	2.0
130°-140°	133.2	2.0
140°-150°	117.8	1.7
150°-160°	96.9	1.4
160°-170°	64.9	1.0
170°-180°	22.6	0.3
0°-30°	1661.6	24.6
0°-40°	2703.0	40.0
0°-60°	4645.8	68.8
0°-90°	5880.8	87.1
90°-120°	299.7	4.4
90°-150°	685.7	10.2
90°-180°	870.0	12.9
0°-180°	6751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2169	2169	2169	2169	2169	
5°	2169	2163	2144	2160	2157	206
15°	2113	2110	2072	2035	2016	598
25°	2001	1976	1870	1820	1807	923
35°	1807	1760	1639	1579	1554	1132
45°	1532	1489	1358	1236	1077	1182
55°	1199	1170	1042	833	758	1074
65°	855	824	702	565	543	845
75°	487	462	393	340	340	514
85°	140	116	84	72	72	147
90°	6	22	34	44	47	10
95°	25	53	72	75	75	25
105°	72	75	106	125	131	75
115°	119	100	125	144	153	116
125°	159	128	144	165	172	142
135°	190	172	159	175	184	147
145°	212	203	178	175	181	132
155°	225	222	209	200	197	104
165°	231	234	228	228	228	66
175°	234	237	237	240	240	22
180°	237	237	237	237	237	



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CATALOG NUMBER: 8WSLA-100-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2169.3	2169.3	2169.3	2169.3	2169.3
2.5°	2175.5	2169.3	2153.6	2169.3	2166.1
5°	2169.3	2163.0	2144.3	2159.9	2156.8
7.5°	2159.9	2153.6	2134.9	2153.6	2150.5
10°	2150.5	2144.3	2125.6	2138.0	2128.7
12.5°	2134.9	2128.7	2106.8	2091.2	2072.5
15°	2113.1	2110.0	2072.5	2035.0	2016.3
17.5°	2094.3	2085.0	2025.7	1982.0	1960.1
20°	2069.4	2053.8	1975.7	1925.8	1910.2
22.5°	2041.3	2016.3	1922.7	1875.9	1863.4
25°	2000.7	1975.7	1869.6	1819.7	1807.2
27.5°	1960.1	1928.9	1816.6	1766.6	1754.1
30°	1916.4	1872.7	1757.3	1710.4	1688.6
32.5°	1866.5	1822.8	1701.1	1648.0	1623.0
35°	1807.2	1760.4	1638.6	1579.3	1554.4
37.5°	1751.0	1701.1	1576.2	1510.7	1476.3
40°	1682.3	1632.4	1504.4	1432.6	1398.3
42.5°	1610.6	1563.7	1435.8	1348.4	1264.1
45°	1532.5	1488.8	1357.7	1236.0	1076.8
47.5°	1451.4	1413.9	1285.9	1120.5	967.6
50°	1370.2	1332.8	1207.9	1011.3	883.3
52.5°	1289.1	1257.9	1120.5	920.8	814.6
55°	1198.6	1170.5	1042.5	833.4	758.5
57.5°	1117.4	1089.3	952.0	761.6	699.2
60°	1026.9	1001.9	867.7	689.8	643.0
62.5°	942.6	914.5	783.4	627.4	593.0
65°	855.2	824.0	702.3	564.9	543.1
67.5°	764.7	733.5	624.2	508.8	496.3
70°	674.2	649.2	546.2	452.6	446.3
72.5°	580.5	552.5	468.2	399.5	399.5
75°	486.9	461.9	393.3	340.2	340.2
77.5°	390.2	377.7	315.2	277.8	280.9
80°	305.9	290.3	237.2	212.2	212.2
82.5°	224.7	206.0	159.2	140.5	146.7
85°	140.5	115.5	84.3	71.8	71.8
87.5°	43.7	34.3	25.0	28.1	28.1
90°	6.2	21.8	34.3	43.7	46.8
92.5°	15.6	40.6	49.9	59.3	62.4
95°	25.0	53.1	71.8	74.9	74.9
97.5°	34.3	59.3	87.4	99.9	99.9
100°	46.8	62.4	93.6	112.4	115.5
102.5°	59.3	68.7	99.9	118.6	124.8
105°	71.8	74.9	106.1	124.8	131.1



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CATALOG NUMBER: 8WSLA-100-L935-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.1	93.6	118.6	140.5	146.7
115°	118.6	99.9	124.8	143.6	152.9
117.5°	128.0	109.2	131.1	149.8	156.1
120°	137.3	115.5	134.2	156.1	162.3
122.5°	149.8	121.7	140.5	159.2	168.5
125°	159.2	128.0	143.6	165.4	171.7
127.5°	168.5	140.5	146.7	168.5	174.8
130°	174.8	152.9	149.8	171.7	177.9
132.5°	184.2	162.3	152.9	174.8	181.0
135°	190.4	171.7	159.2	174.8	184.2
137.5°	196.6	181.0	159.2	174.8	181.0
140°	202.9	190.4	162.3	174.8	181.0
142.5°	206.0	196.6	165.4	174.8	181.0
145°	212.2	202.9	177.9	174.8	181.0
147.5°	215.4	209.1	187.3	174.8	181.0
150°	218.5	215.4	196.6	177.9	177.9
152.5°	221.6	218.5	202.9	190.4	184.2
155°	224.7	221.6	209.1	199.8	196.6
157.5°	227.8	227.8	215.4	209.1	206.0
160°	227.8	231.0	221.6	215.4	212.2
162.5°	231.0	234.1	224.7	221.6	218.5
165°	231.0	234.1	227.8	227.8	227.8
167.5°	234.1	237.2	234.1	231.0	231.0
170°	234.1	237.2	234.1	234.1	234.1
172.5°	234.1	237.2	237.2	237.2	237.2
175°	234.1	237.2	237.2	240.3	240.3
177.5°	234.1	237.2	237.2	237.2	237.2
180°	237.2	237.2	237.2	237.2	237.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	84.3	81.2	109.2	131.1	137.3
110°	93.6	87.4	115.5	134.2	140.5



(END OF REPORT)