

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: P520709

Luminaire Tested: **8WSLA-175-L850-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520709
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-175-L850-UPL15-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

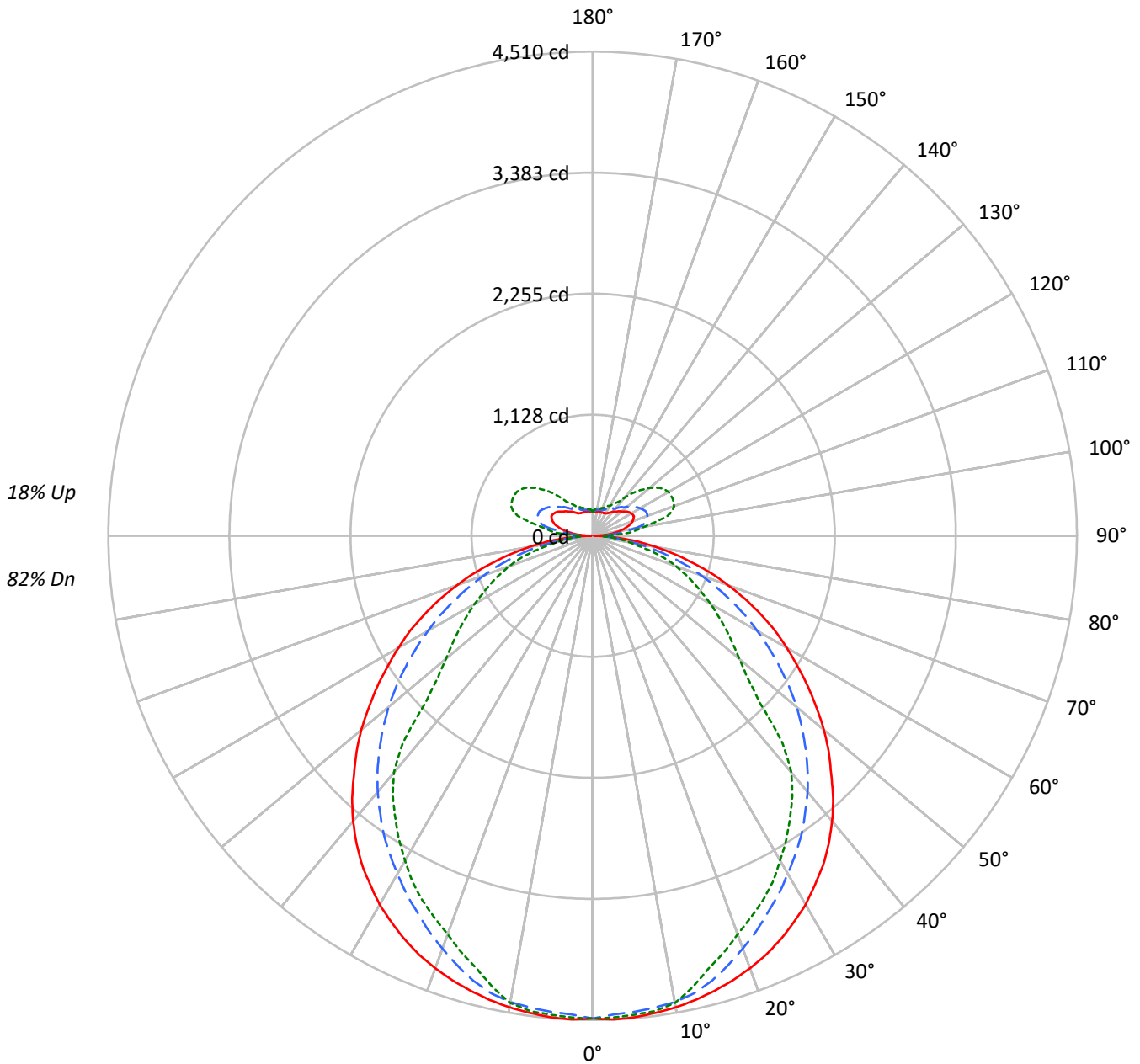
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14562.0 lumens
Efficiency: N/A
Efficacy: 122.4 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): 119
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				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°	12099	12099	12099
5°	12158	12022	12097
10°	12187	12049	12074
15°	12221	11955	11624
20°	12275	11714	11309
25°	12308	11482	11130
30°	12328	11293	10854
35°	12299	11146	10531
40°	12191	10941	10108
45°	11957	10673	8382
50°	11779	10385	7464
55°	11489	9970	7103
60°	11241	9523	6823
65°	10975	9002	6620
70°	10548	8431	6494
75°	9956	7728	5974
80°	9117	6501	5300
85°	8167	5632	5351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.2	2.9
10°-20°	1210.5	8.3
20°-30°	1806.6	12.4
30°-40°	2152.5	14.8
40°-50°	2141.1	14.7
50°-60°	1835.0	12.6
60°-70°	1382.0	9.5
70°-80°	800.4	5.5
80°-90°	240.5	1.7
90°-100°	258.2	1.8
100°-110°	530.3	3.6
110°-120°	560.8	3.9
120°-130°	467.8	3.2
130°-140°	326.8	2.2
140°-150°	203.4	1.4
150°-160°	126.1	0.9
160°-170°	71.0	0.5
170°-180°	22.9	0.2
0°-30°	3443.2	23.6
0°-40°	5595.8	38.4
0°-60°	9571.8	65.7
0°-90°	11994.7	82.4
90°-120°	1349.3	9.3
90°-150°	2347.3	16.1
90°-180°	2567.0	17.6
0°-180°	14562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4496	4496	4496	4496	4496	
5°	4501	4487	4451	4483	4478	428
15°	4387	4382	4291	4218	4173	1240
25°	4145	4086	3867	3771	3748	1911
35°	3744	3644	3393	3260	3206	2338
45°	3142	3064	2804	2526	2203	2429
55°	2449	2412	2125	1687	1514	2189
65°	1724	1683	1414	1099	1040	1704
75°	958	926	743	593	575	1014
85°	264	233	182	173	173	282
90°	14	64	109	137	146	27
95°	146	196	223	328	356	140
105°	342	356	511	684	725	355
115°	424	360	543	748	821	413
125°	392	347	470	689	775	348
135°	319	347	378	511	588	249
145°	260	301	328	351	374	165
155°	237	251	269	292	296	109
165°	233	242	251	260	260	66
175°	228	233	237	242	246	22
180°	223	223	223	223	223	



TEST NUMBER: P520709

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4496.3	4496.3	4496.3	4496.3	4496.3
2.5°	4510.0	4500.9	4464.4	4500.9	4491.8
5°	4500.9	4487.2	4450.7	4482.7	4478.1
7.5°	4482.7	4473.5	4432.5	4469.0	4464.4
10°	4459.9	4446.2	4409.7	4437.1	4418.8
12.5°	4427.9	4418.8	4364.1	4341.3	4304.8
15°	4386.9	4382.3	4291.1	4218.2	4172.6
17.5°	4341.3	4323.1	4195.4	4108.7	4067.7
20°	4286.6	4259.2	4090.5	3990.2	3949.1
22.5°	4222.7	4181.7	3985.6	3889.8	3848.8
25°	4145.2	4085.9	3867.0	3771.3	3748.5
27.5°	4058.6	3990.2	3757.6	3661.8	3634.5
30°	3967.4	3880.7	3634.5	3543.3	3493.1
32.5°	3853.4	3771.3	3515.9	3411.0	3356.3
35°	3743.9	3643.6	3392.8	3260.5	3205.8
37.5°	3611.7	3511.3	3251.4	3119.2	3055.3
40°	3470.3	3370.0	3114.6	2959.6	2877.5
42.5°	3315.3	3224.1	2964.1	2777.2	2617.5
45°	3142.0	3064.4	2804.5	2526.3	2202.6
47.5°	2982.4	2909.4	2644.9	2284.7	1951.8
50°	2813.6	2745.2	2480.7	2056.6	1783.0
52.5°	2626.7	2576.5	2302.9	1860.6	1641.7
55°	2448.8	2412.3	2125.0	1687.3	1514.0
57.5°	2261.9	2225.4	1947.2	1523.1	1386.3
60°	2088.6	2052.1	1769.4	1377.2	1267.7
62.5°	1915.3	1865.1	1596.1	1235.8	1144.6
65°	1723.7	1682.7	1413.7	1099.0	1039.7
67.5°	1532.2	1495.7	1244.9	971.3	930.3
70°	1340.7	1308.8	1071.6	848.2	825.4
72.5°	1153.7	1112.7	916.6	725.1	715.9
75°	957.6	925.7	743.3	592.8	574.6
77.5°	770.7	743.3	583.7	451.5	437.8
80°	588.3	560.9	419.5	328.3	342.0
82.5°	433.2	396.7	282.7	255.4	269.1
85°	264.5	232.6	182.4	173.3	173.3
87.5°	91.2	86.6	82.1	95.8	100.3
90°	13.7	63.8	109.4	136.8	145.9
92.5°	77.5	114.0	150.5	177.8	187.0
95°	145.9	196.1	223.4	328.3	355.7
97.5°	200.6	259.9	291.9	387.6	415.0
100°	255.4	310.1	410.4	460.6	492.5
102.5°	301.0	342.0	483.4	583.7	601.9
105°	342.0	355.7	510.7	684.0	725.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	410.4	364.8	547.2	743.3	816.3
115°	424.1	360.3	542.7	747.9	820.8
117.5°	424.1	360.3	529.0	747.9	820.8
120°	415.0	364.8	510.7	738.7	816.3
122.5°	405.9	355.7	492.5	720.5	798.0
125°	392.2	346.6	469.7	688.6	775.2
127.5°	369.4	355.7	446.9	647.5	734.2
130°	351.1	360.3	419.5	606.5	693.1
132.5°	337.5	351.1	392.2	560.9	638.4
135°	319.2	346.6	378.5	510.7	588.3
137.5°	305.5	332.9	355.7	465.1	529.0
140°	291.9	323.8	332.9	405.9	460.6
142.5°	273.6	310.1	314.7	378.5	401.3
145°	259.9	301.0	328.3	351.1	373.9
147.5°	246.2	282.7	319.2	323.8	346.6
150°	241.7	264.5	305.5	310.1	319.2
152.5°	237.1	255.4	282.7	310.1	314.7
155°	237.1	250.8	269.1	291.9	296.4
157.5°	232.6	250.8	259.9	278.2	282.7
160°	232.6	246.2	255.4	269.1	273.6
162.5°	232.6	246.2	250.8	264.5	269.1
165°	232.6	241.7	250.8	259.9	259.9
167.5°	232.6	241.7	246.2	255.4	255.4
170°	232.6	237.1	246.2	250.8	250.8
172.5°	228.0	237.1	241.7	250.8	250.8
175°	228.0	232.6	237.1	241.7	246.2
177.5°	218.9	232.6	237.1	241.7	237.1
180°	223.4	223.4	223.4	223.4	223.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	373.9	360.3	529.0	720.5	779.8
110°	396.7	364.8	542.7	734.2	807.2



(END OF REPORT)