

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: P520521

Luminaire Tested: **4WSLA-150-L930-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520521  
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: 4WSLA-150-L930-UPL8-UNV-U  
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

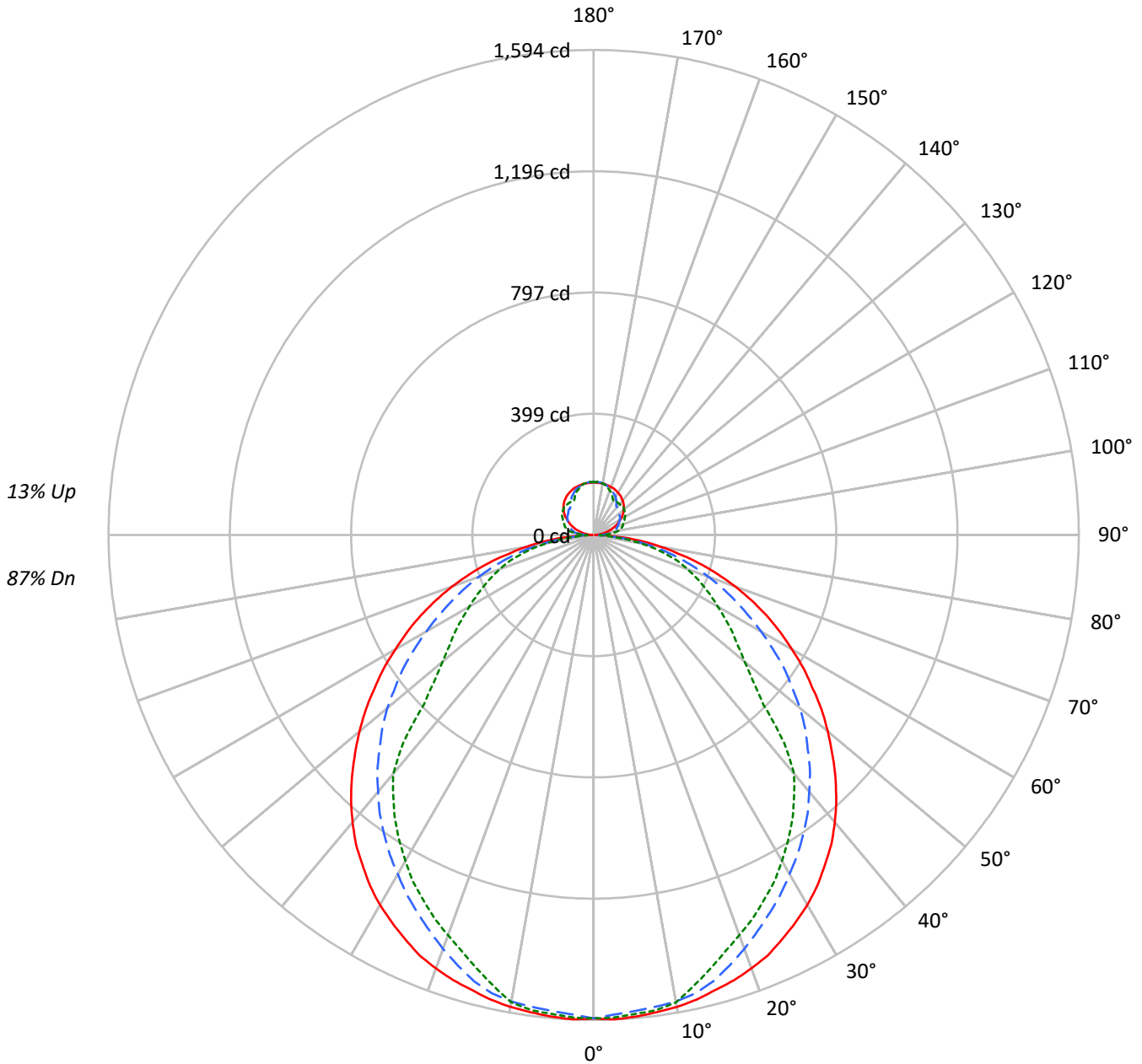
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4946.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 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: Semi-Direct  
  
Input Watts (W): 47.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	8554	8554	8554
5°	8586	8487	8537
10°	8610	8511	8523
15°	8626	8460	8231
20°	8683	8290	8015
25°	8704	8134	7862
30°	8725	8001	7688
35°	8699	7887	7482
40°	8659	7744	7197
45°	8546	7571	6005
50°	8405	7410	5418
55°	8239	7167	5214
60°	8098	6843	5071
65°	7980	6552	5067
70°	7772	6297	5146
75°	7417	5991	5184
80°	6946	5387	4819
85°	6354	3810	3248



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.5	3.0
10°-20°	427.7	8.6
20°-30°	639.1	12.9
30°-40°	762.9	15.4
40°-50°	763.0	15.4
50°-60°	660.3	13.4
60°-70°	506.9	10.2
70°-80°	310.6	6.3
80°-90°	87.4	1.8
90°-100°	49.4	1.0
100°-110°	78.4	1.6
110°-120°	91.7	1.9
120°-130°	99.0	2.0
130°-140°	97.6	2.0
140°-150°	86.3	1.7
150°-160°	71.0	1.4
160°-170°	47.5	1.0
170°-180°	16.6	0.3
0°-30°	1217.3	24.6
0°-40°	1980.3	40.0
0°-60°	3403.6	68.8
0°-90°	4308.5	87.1
90°-120°	219.5	4.4
90°-150°	502.4	10.2
90°-180°	637.0	12.9
0°-180°	4946.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1589	1585	1571	1582	1580	151
15°	1548	1546	1518	1491	1477	438
25°	1466	1448	1370	1333	1324	676
35°	1324	1290	1200	1157	1139	829
45°	1123	1091	995	906	789	866
55°	878	858	764	611	556	787
65°	627	604	514	414	398	619
75°	357	338	288	249	249	376
85°	103	85	62	53	53	108
90°	5	16	25	32	34	7
95°	18	39	53	55	55	18
105°	53	55	78	92	96	55
115°	87	73	92	105	112	85
125°	117	94	105	121	126	104
135°	140	126	117	128	135	108
145°	156	149	130	128	133	97
155°	165	162	153	146	144	76
165°	169	172	167	167	167	48
175°	172	174	174	176	176	16
180°	174	174	174	174	174	



TEST NUMBER: P520521

CATALOG NUMBER: 4WSLA-150-L930-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1589.3	1589.3	1589.3	1589.3	1589.3
2.5°	1593.8	1589.3	1577.8	1589.3	1587.0
5°	1589.3	1584.7	1571.0	1582.4	1580.1
7.5°	1582.4	1577.8	1564.1	1577.8	1575.5
10°	1575.5	1571.0	1557.3	1566.4	1559.5
12.5°	1564.1	1559.5	1543.5	1532.1	1518.4
15°	1548.1	1545.8	1518.4	1490.9	1477.2
17.5°	1534.4	1527.5	1484.1	1452.1	1436.1
20°	1516.1	1504.7	1447.5	1410.9	1399.5
22.5°	1495.5	1477.2	1408.6	1374.3	1365.2
25°	1465.8	1447.5	1369.7	1333.2	1324.0
27.5°	1436.1	1413.2	1330.9	1294.3	1285.1
30°	1404.0	1372.0	1287.4	1253.1	1237.1
32.5°	1367.5	1335.4	1246.3	1207.4	1189.1
35°	1324.0	1289.7	1200.5	1157.1	1138.8
37.5°	1282.8	1246.3	1154.8	1106.8	1081.6
40°	1232.5	1196.0	1102.2	1049.6	1024.4
42.5°	1179.9	1145.6	1051.9	987.9	926.1
45°	1122.8	1090.8	994.7	905.5	788.9
47.5°	1063.3	1035.9	942.1	820.9	708.9
50°	1003.9	976.4	885.0	740.9	647.1
52.5°	944.4	921.5	820.9	674.6	596.8
55°	878.1	857.5	763.8	610.6	555.7
57.5°	818.6	798.1	697.4	558.0	512.2
60°	752.3	734.0	635.7	505.4	471.1
62.5°	690.6	670.0	574.0	459.6	434.5
65°	626.6	603.7	514.5	413.9	397.9
67.5°	560.2	537.4	457.3	372.7	363.6
70°	493.9	475.6	400.2	331.6	327.0
72.5°	425.3	404.7	343.0	292.7	292.7
75°	356.7	338.4	288.1	249.3	249.3
77.5°	285.8	276.7	231.0	203.5	205.8
80°	224.1	212.7	173.8	155.5	155.5
82.5°	164.6	150.9	116.6	102.9	107.5
85°	102.9	84.6	61.7	52.6	52.6
87.5°	32.0	25.2	18.3	20.6	20.6
90°	4.6	16.0	25.2	32.0	34.3
92.5°	11.4	29.7	36.6	43.4	45.7
95°	18.3	38.9	52.6	54.9	54.9
97.5°	25.2	43.4	64.0	73.2	73.2
100°	34.3	45.7	68.6	82.3	84.6
102.5°	43.4	50.3	73.2	86.9	91.5
105°	52.6	54.9	77.7	91.5	96.0



TEST NUMBER: P520521

CATALOG NUMBER: 4WSLA-150-L930-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	77.7	68.6	86.9	102.9	107.5
115°	86.9	73.2	91.5	105.2	112.0
117.5°	93.8	80.0	96.0	109.8	114.3
120°	100.6	84.6	98.3	114.3	118.9
122.5°	109.8	89.2	102.9	116.6	123.5
125°	116.6	93.8	105.2	121.2	125.8
127.5°	123.5	102.9	107.5	123.5	128.1
130°	128.1	112.0	109.8	125.8	130.3
132.5°	134.9	118.9	112.0	128.1	132.6
135°	139.5	125.8	116.6	128.1	134.9
137.5°	144.1	132.6	116.6	128.1	132.6
140°	148.6	139.5	118.9	128.1	132.6
142.5°	150.9	144.1	121.2	128.1	132.6
145°	155.5	148.6	130.3	128.1	132.6
147.5°	157.8	153.2	137.2	128.1	132.6
150°	160.1	157.8	144.1	130.3	130.3
152.5°	162.4	160.1	148.6	139.5	134.9
155°	164.6	162.4	153.2	146.3	144.1
157.5°	166.9	166.9	157.8	153.2	150.9
160°	166.9	169.2	162.4	157.8	155.5
162.5°	169.2	171.5	164.6	162.4	160.1
165°	169.2	171.5	166.9	166.9	166.9
167.5°	171.5	173.8	171.5	169.2	169.2
170°	171.5	173.8	171.5	171.5	171.5
172.5°	171.5	173.8	173.8	173.8	173.8
175°	171.5	173.8	173.8	176.1	176.1
177.5°	171.5	173.8	173.8	173.8	173.8
180°	173.8	173.8	173.8	173.8	173.8



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	61.7	59.5	80.0	96.0	100.6
110°	68.6	64.0	84.6	98.3	102.9



(END OF REPORT)