

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: P520473

Luminaire Tested: **4WSLA-100-L930-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520473  
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-100-L930-UPL8-UNV-U  
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

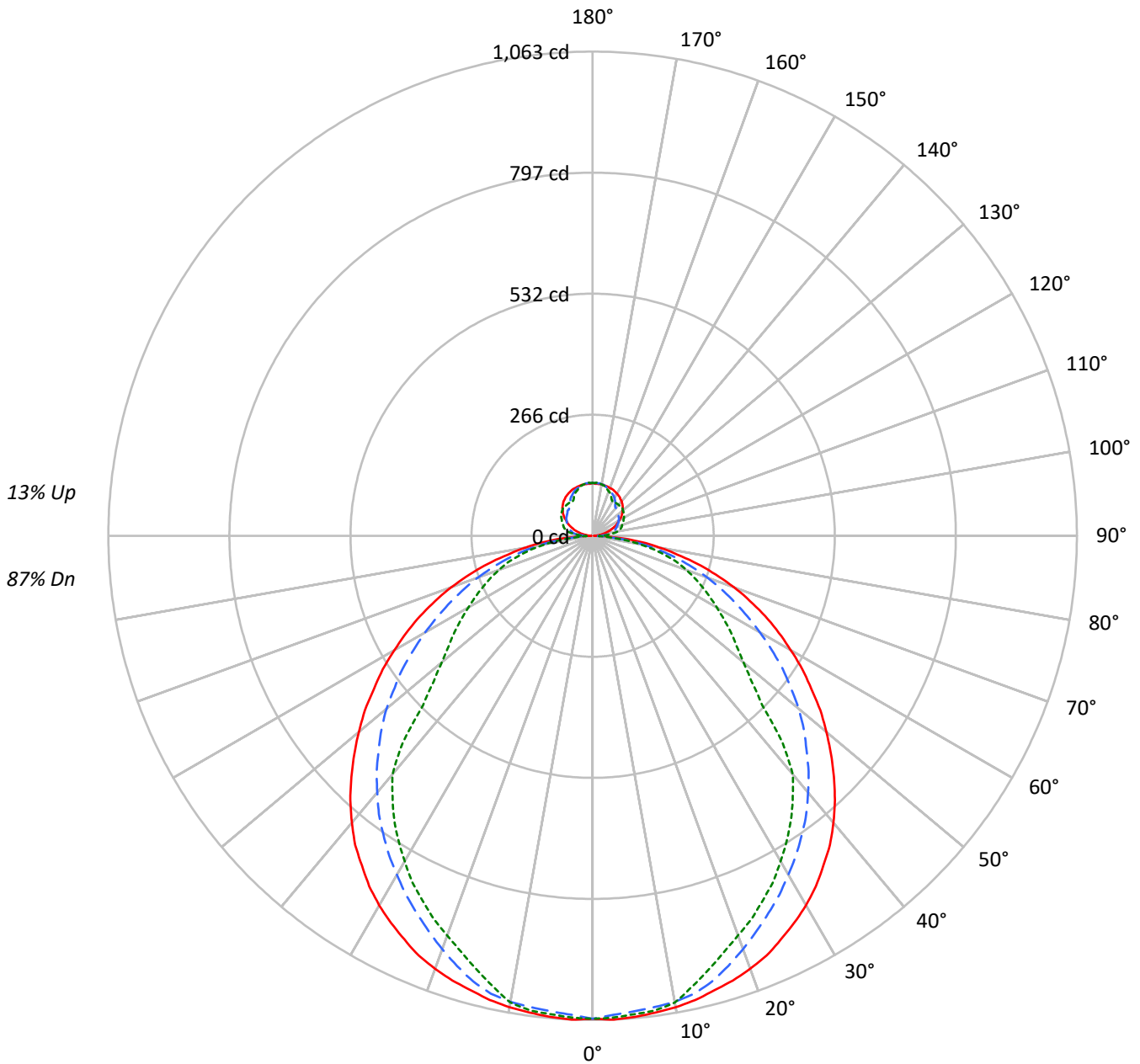
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3300.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 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): 31.6  
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°	5707	5707	5707
5°	5729	5663	5696
10°	5745	5678	5686
15°	5755	5645	5492
20°	5793	5531	5348
25°	5808	5427	5246
30°	5822	5338	5129
35°	5804	5263	4992
40°	5778	5167	4802
45°	5702	5052	4007
50°	5608	4943	3615
55°	5498	4782	3478
60°	5403	4565	3383
65°	5323	4372	3381
70°	5187	4201	3434
75°	4949	3997	3458
80°	4634	3595	3214
85°	4242	2544	2167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	3.0
10°-20°	285.4	8.6
20°-30°	426.4	12.9
30°-40°	509.0	15.4
40°-50°	509.1	15.4
50°-60°	440.6	13.4
60°-70°	338.2	10.2
70°-80°	207.2	6.3
80°-90°	58.3	1.8
90°-100°	33.0	1.0
100°-110°	52.3	1.6
110°-120°	61.2	1.9
120°-130°	66.1	2.0
130°-140°	65.1	2.0
140°-150°	57.6	1.7
150°-160°	47.4	1.4
160°-170°	31.7	1.0
170°-180°	11.0	0.3
0°-30°	812.2	24.6
0°-40°	1321.3	40.0
0°-60°	2270.9	68.8
0°-90°	2874.7	87.1
90°-120°	146.5	4.4
90°-150°	335.2	10.2
90°-180°	425.0	12.9
0°-180°	3300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1060	1057	1048	1056	1054	101
15°	1033	1031	1013	995	986	292
25°	978	966	914	890	883	451
35°	883	860	801	772	760	553
45°	749	728	664	604	526	578
55°	586	572	510	407	371	525
65°	418	403	343	276	266	413
75°	238	226	192	166	166	251
85°	69	56	41	35	35	72
90°	3	11	17	21	23	5
95°	12	26	35	37	37	12
105°	35	37	52	61	64	37
115°	58	49	61	70	75	57
125°	78	63	70	81	84	69
135°	93	84	78	85	90	72
145°	104	99	87	85	88	65
155°	110	108	102	98	96	51
165°	113	114	111	111	111	32
175°	114	116	116	118	118	11
180°	116	116	116	116	116	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1060.4	1060.4	1060.4	1060.4	1060.4
2.5°	1063.4	1060.4	1052.7	1060.4	1058.8
5°	1060.4	1057.3	1048.2	1055.8	1054.3
7.5°	1055.8	1052.7	1043.6	1052.7	1051.2
10°	1051.2	1048.2	1039.0	1045.1	1040.5
12.5°	1043.6	1040.5	1029.9	1022.2	1013.1
15°	1032.9	1031.4	1013.1	994.8	985.6
17.5°	1023.8	1019.2	990.2	968.8	958.1
20°	1011.5	1003.9	965.8	941.4	933.7
22.5°	997.8	985.6	939.8	917.0	910.8
25°	978.0	965.8	913.9	889.5	883.4
27.5°	958.1	942.9	888.0	863.6	857.4
30°	936.8	915.4	859.0	836.1	825.4
32.5°	912.4	891.0	831.5	805.6	793.4
35°	883.4	860.5	801.0	772.0	759.8
37.5°	855.9	831.5	770.5	738.4	721.7
40°	822.4	797.9	735.4	700.3	683.5
42.5°	787.3	764.4	701.8	659.1	617.9
45°	749.1	727.8	663.7	604.2	526.4
47.5°	709.5	691.1	628.6	547.7	473.0
50°	669.8	651.5	590.4	494.3	431.8
52.5°	630.1	614.9	547.7	450.1	398.2
55°	585.9	572.1	509.6	407.4	370.7
57.5°	546.2	532.5	465.3	372.3	341.8
60°	502.0	489.8	424.1	337.2	314.3
62.5°	460.8	447.0	383.0	306.7	289.9
65°	418.0	402.8	343.3	276.2	265.5
67.5°	373.8	358.5	305.1	248.7	242.6
70°	329.6	317.3	267.0	221.2	218.2
72.5°	283.8	270.1	228.9	195.3	195.3
75°	238.0	225.8	192.2	166.3	166.3
77.5°	190.7	184.6	154.1	135.8	137.3
80°	149.5	141.9	116.0	103.7	103.7
82.5°	109.9	100.7	77.8	68.7	71.7
85°	68.7	56.5	41.2	35.1	35.1
87.5°	21.4	16.8	12.2	13.7	13.7
90°	3.1	10.7	16.8	21.4	22.9
92.5°	7.6	19.8	24.4	29.0	30.5
95°	12.2	25.9	35.1	36.6	36.6
97.5°	16.8	29.0	42.7	48.8	48.8
100°	22.9	30.5	45.8	54.9	56.5
102.5°	29.0	33.6	48.8	58.0	61.0
105°	35.1	36.6	51.9	61.0	64.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	51.9	45.8	58.0	68.7	71.7
115°	58.0	48.8	61.0	70.2	74.8
117.5°	62.6	53.4	64.1	73.2	76.3
120°	67.1	56.5	65.6	76.3	79.3
122.5°	73.2	59.5	68.7	77.8	82.4
125°	77.8	62.6	70.2	80.9	83.9
127.5°	82.4	68.7	71.7	82.4	85.4
130°	85.4	74.8	73.2	83.9	87.0
132.5°	90.0	79.3	74.8	85.4	88.5
135°	93.1	83.9	77.8	85.4	90.0
137.5°	96.1	88.5	77.8	85.4	88.5
140°	99.2	93.1	79.3	85.4	88.5
142.5°	100.7	96.1	80.9	85.4	88.5
145°	103.7	99.2	87.0	85.4	88.5
147.5°	105.3	102.2	91.5	85.4	88.5
150°	106.8	105.3	96.1	87.0	87.0
152.5°	108.3	106.8	99.2	93.1	90.0
155°	109.9	108.3	102.2	97.6	96.1
157.5°	111.4	111.4	105.3	102.2	100.7
160°	111.4	112.9	108.3	105.3	103.7
162.5°	112.9	114.4	109.9	108.3	106.8
165°	112.9	114.4	111.4	111.4	111.4
167.5°	114.4	116.0	114.4	112.9	112.9
170°	114.4	116.0	114.4	114.4	114.4
172.5°	114.4	116.0	116.0	116.0	116.0
175°	114.4	116.0	116.0	117.5	117.5
177.5°	114.4	116.0	116.0	116.0	116.0
180°	116.0	116.0	116.0	116.0	116.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	41.2	39.7	53.4	64.1	67.1
110°	45.8	42.7	56.5	65.6	68.7



(END OF REPORT)