

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: P520598

Luminaire Tested: **4WSLA-50-L940-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520598  
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: 4WSLA-50-L940-UPL15-UNV-U  
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

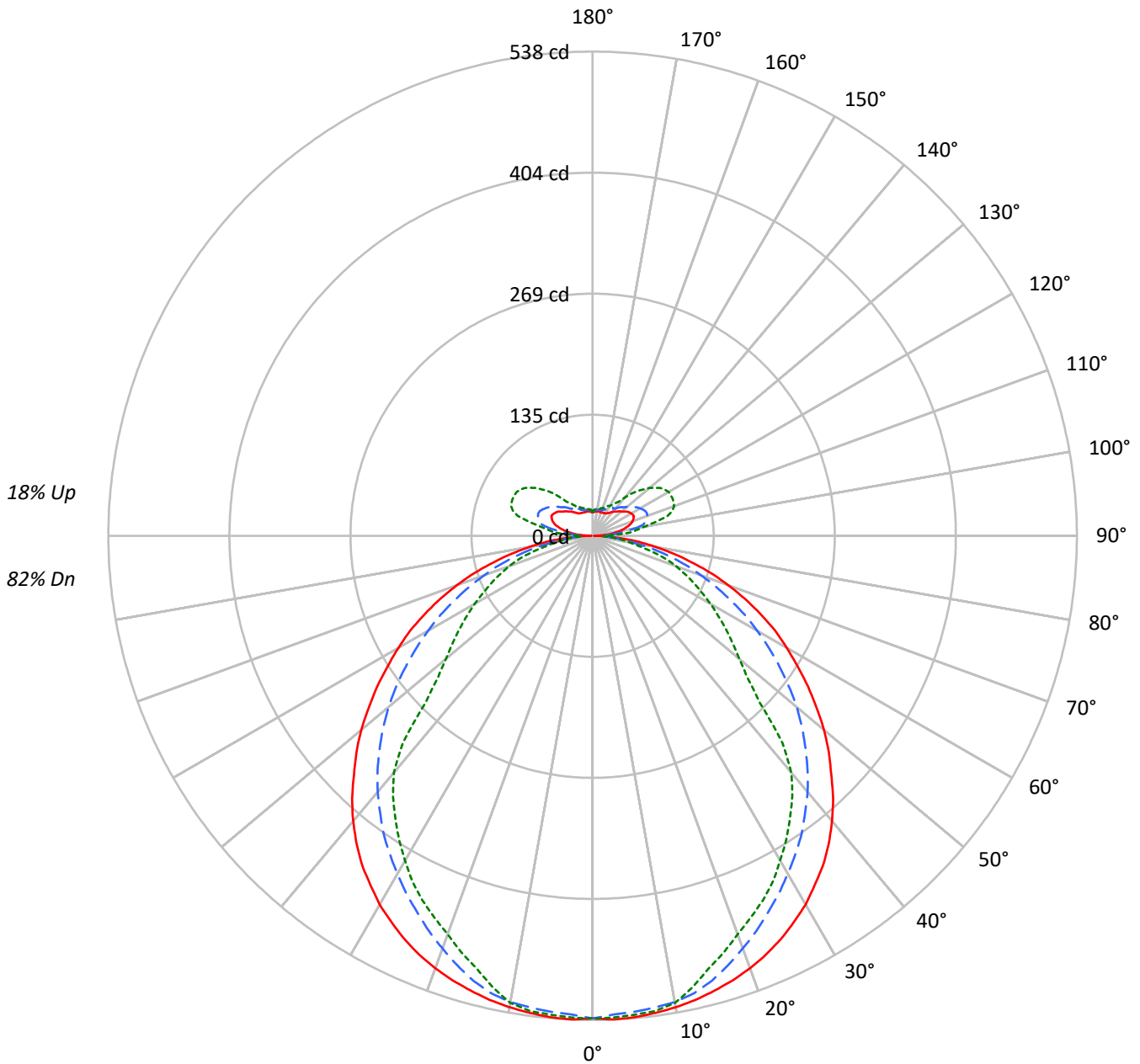
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1737.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 15.6  
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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2886	2886	2886
5°	2901	2868	2886
10°	2907	2875	2881
15°	2916	2852	2773
20°	2928	2794	2698
25°	2937	2739	2655
30°	2941	2694	2590
35°	2934	2659	2512
40°	2908	2610	2411
45°	2853	2546	1999
50°	2810	2478	1781
55°	2741	2379	1695
60°	2681	2272	1628
65°	2618	2147	1579
70°	2516	2011	1550
75°	2375	1844	1424
80°	2176	1550	1265
85°	1945	1346	1278



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	2.9
10°-20°	144.4	8.3
20°-30°	215.5	12.4
30°-40°	256.8	14.8
40°-50°	255.4	14.7
50°-60°	218.9	12.6
60°-70°	164.9	9.5
70°-80°	95.5	5.5
80°-90°	28.7	1.7
90°-100°	30.8	1.8
100°-110°	63.3	3.6
110°-120°	66.9	3.9
120°-130°	55.8	3.2
130°-140°	39.0	2.2
140°-150°	24.3	1.4
150°-160°	15.0	0.9
160°-170°	8.5	0.5
170°-180°	2.7	0.2
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0°-30°	410.7	23.6
0°-40°	667.5	38.4
0°-60°	1141.7	65.7
0°-90°	1430.8	82.4
90°-120°	161.0	9.3
90°-150°	280.0	16.1
90°-180°	306.0	17.6
0°-180°	1737.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	537	535	531	535	534	51
15°	523	523	512	503	498	148
25°	494	487	461	450	447	228
35°	447	435	405	389	382	279
45°	375	366	334	301	263	290
55°	292	288	254	201	181	261
65°	206	201	169	131	124	203
75°	114	110	89	71	68	121
85°	32	28	22	21	21	34
90°	2	8	13	16	17	3
95°	17	23	27	39	42	17
105°	41	42	61	82	86	42
115°	51	43	65	89	98	49
125°	47	41	56	82	92	42
135°	38	41	45	61	70	30
145°	31	36	39	42	45	20
155°	28	30	32	35	35	13
165°	28	29	30	31	31	8
175°	27	28	28	29	29	3
180°	27	27	27	27	27	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	536.3	536.3	536.3	536.3	536.3
2.5°	538.0	536.9	532.5	536.9	535.8
5°	536.9	535.2	530.9	534.7	534.2
7.5°	534.7	533.6	528.7	533.1	532.5
10°	532.0	530.4	526.0	529.3	527.1
12.5°	528.2	527.1	520.6	517.8	513.5
15°	523.3	522.7	511.9	503.2	497.7
17.5°	517.8	515.7	500.4	490.1	485.2
20°	511.3	508.1	487.9	476.0	471.1
22.5°	503.7	498.8	475.4	464.0	459.1
25°	494.5	487.4	461.3	449.8	447.1
27.5°	484.1	476.0	448.2	436.8	433.5
30°	473.2	462.9	433.5	422.7	416.7
32.5°	459.6	449.8	419.4	406.9	400.3
35°	446.6	434.6	404.7	388.9	382.4
37.5°	430.8	418.8	387.8	372.1	364.4
40°	413.9	402.0	371.5	353.0	343.2
42.5°	395.5	384.6	353.6	331.3	312.2
45°	374.8	365.5	334.5	301.3	262.7
47.5°	355.7	347.0	315.5	272.5	232.8
50°	335.6	327.5	295.9	245.3	212.7
52.5°	313.3	307.3	274.7	221.9	195.8
55°	292.1	287.8	253.5	201.3	180.6
57.5°	269.8	265.4	232.3	181.7	165.4
60°	249.1	244.8	211.1	164.3	151.2
62.5°	228.5	222.5	190.4	147.4	136.5
65°	205.6	200.7	168.6	131.1	124.0
67.5°	182.8	178.4	148.5	115.9	111.0
70°	159.9	156.1	127.8	101.2	98.5
72.5°	137.6	132.7	109.3	86.5	85.4
75°	114.2	110.4	88.7	70.7	68.5
77.5°	91.9	88.7	69.6	53.9	52.2
80°	70.2	66.9	50.0	39.2	40.8
82.5°	51.7	47.3	33.7	30.5	32.1
85°	31.5	27.7	21.8	20.7	20.7
87.5°	10.9	10.3	9.8	11.4	12.0
90°	1.6	7.6	13.1	16.3	17.4
92.5°	9.2	13.6	18.0	21.2	22.3
95°	17.4	23.4	26.7	39.2	42.4
97.5°	23.9	31.0	34.8	46.2	49.5
100°	30.5	37.0	49.0	54.9	58.7
102.5°	35.9	40.8	57.7	69.6	71.8
105°	40.8	42.4	60.9	81.6	86.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	49.0	43.5	65.3	88.7	97.4
115°	50.6	43.0	64.7	89.2	97.9
117.5°	50.6	43.0	63.1	89.2	97.9
120°	49.5	43.5	60.9	88.1	97.4
122.5°	48.4	42.4	58.7	85.9	95.2
125°	46.8	41.3	56.0	82.1	92.5
127.5°	44.1	42.4	53.3	77.2	87.6
130°	41.9	43.0	50.0	72.3	82.7
132.5°	40.3	41.9	46.8	66.9	76.2
135°	38.1	41.3	45.1	60.9	70.2
137.5°	36.4	39.7	42.4	55.5	63.1
140°	34.8	38.6	39.7	48.4	54.9
142.5°	32.6	37.0	37.5	45.1	47.9
145°	31.0	35.9	39.2	41.9	44.6
147.5°	29.4	33.7	38.1	38.6	41.3
150°	28.8	31.5	36.4	37.0	38.1
152.5°	28.3	30.5	33.7	37.0	37.5
155°	28.3	29.9	32.1	34.8	35.4
157.5°	27.7	29.9	31.0	33.2	33.7
160°	27.7	29.4	30.5	32.1	32.6
162.5°	27.7	29.4	29.9	31.5	32.1
165°	27.7	28.8	29.9	31.0	31.0
167.5°	27.7	28.8	29.4	30.5	30.5
170°	27.7	28.3	29.4	29.9	29.9
172.5°	27.2	28.3	28.8	29.9	29.9
175°	27.2	27.7	28.3	28.8	29.4
177.5°	26.1	27.7	28.3	28.8	28.3
180°	26.7	26.7	26.7	26.7	26.7



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	44.6	43.0	63.1	85.9	93.0
110°	47.3	43.5	64.7	87.6	96.3



(END OF REPORT)