

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: P520595

Luminaire Tested: **4WSLA-50-L935-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520595  
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-L935-UPL15-UNV-U  
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

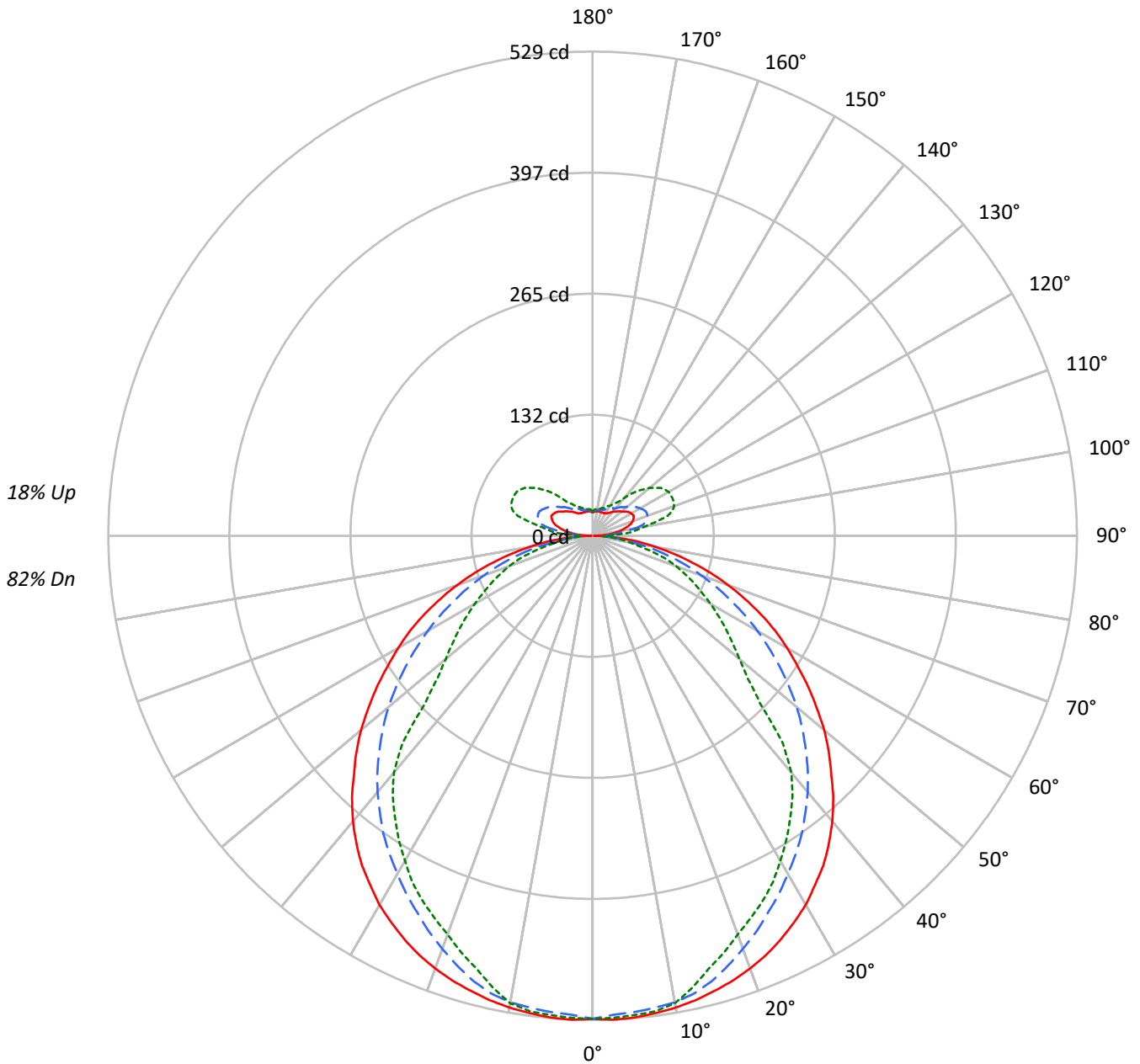
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1709.0 lumens  
Efficiency: N/A  
Efficacy: 109.5 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°	2840	2840	2840
5°	2854	2822	2840
10°	2860	2828	2834
15°	2868	2806	2729
20°	2881	2750	2655
25°	2889	2695	2612
30°	2893	2651	2548
35°	2887	2616	2472
40°	2862	2568	2373
45°	2806	2505	1968
50°	2765	2437	1752
55°	2697	2340	1667
60°	2638	2236	1602
65°	2576	2113	1554
70°	2475	1980	1525
75°	2337	1813	1402
80°	2139	1525	1243
85°	1914	1321	1254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.0	2.9
10°-20°	142.1	8.3
20°-30°	212.0	12.4
30°-40°	252.6	14.8
40°-50°	251.3	14.7
50°-60°	215.4	12.6
60°-70°	162.2	9.5
70°-80°	93.9	5.5
80°-90°	28.2	1.7
90°-100°	30.3	1.8
100°-110°	62.2	3.6
110°-120°	65.8	3.9
120°-130°	54.9	3.2
130°-140°	38.3	2.2
140°-150°	23.9	1.4
150°-160°	14.8	0.9
160°-170°	8.3	0.5
170°-180°	2.7	0.2
0°-30°	404.1	23.6
0°-40°	656.7	38.4
0°-60°	1123.4	65.7
0°-90°	1407.7	82.4
90°-120°	158.4	9.3
90°-150°	275.5	16.1
90°-180°	301.0	17.6
0°-180°	1709.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	528	527	522	526	526	50
15°	515	514	504	495	490	145
25°	486	480	454	443	440	224
35°	439	428	398	383	376	274
45°	369	360	329	296	258	285
55°	287	283	249	198	178	257
65°	202	198	166	129	122	200
75°	112	109	87	70	67	119
85°	31	27	21	20	20	33
90°	2	8	13	16	17	3
95°	17	23	26	38	42	16
105°	40	42	60	80	85	42
115°	50	42	64	88	96	48
125°	46	41	55	81	91	41
135°	38	41	44	60	69	29
145°	30	35	38	41	44	19
155°	28	29	32	34	35	13
165°	27	28	29	30	30	8
175°	27	27	28	28	29	3
180°	26	26	26	26	26	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	527.7	527.7	527.7	527.7	527.7
2.5°	529.3	528.2	523.9	528.2	527.2
5°	528.2	526.6	522.3	526.1	525.6
7.5°	526.1	525.0	520.2	524.5	523.9
10°	523.4	521.8	517.5	520.7	518.6
12.5°	519.7	518.6	512.2	509.5	505.2
15°	514.8	514.3	503.6	495.0	489.7
17.5°	509.5	507.4	492.4	482.2	477.4
20°	503.1	499.9	480.1	468.3	463.5
22.5°	495.6	490.8	467.8	456.5	451.7
25°	486.5	479.5	453.8	442.6	439.9
27.5°	476.3	468.3	441.0	429.8	426.5
30°	465.6	455.4	426.5	415.8	410.0
32.5°	452.2	442.6	412.6	400.3	393.9
35°	439.4	427.6	398.2	382.7	376.2
37.5°	423.9	412.1	381.6	366.1	358.6
40°	407.3	395.5	365.5	347.3	337.7
42.5°	389.1	378.4	347.9	325.9	307.2
45°	368.7	359.6	329.1	296.5	258.5
47.5°	350.0	341.4	310.4	268.1	229.1
50°	330.2	322.2	291.1	241.4	209.3
52.5°	308.3	302.4	270.3	218.4	192.7
55°	287.4	283.1	249.4	198.0	177.7
57.5°	265.5	261.2	228.5	178.8	162.7
60°	245.1	240.8	207.7	161.6	148.8
62.5°	224.8	218.9	187.3	145.0	134.3
65°	202.3	197.5	165.9	129.0	122.0
67.5°	179.8	175.5	146.1	114.0	109.2
70°	157.3	153.6	125.8	99.5	96.9
72.5°	135.4	130.6	107.6	85.1	84.0
75°	112.4	108.6	87.2	69.6	67.4
77.5°	90.4	87.2	68.5	53.0	51.4
80°	69.0	65.8	49.2	38.5	40.1
82.5°	50.8	46.6	33.2	30.0	31.6
85°	31.0	27.3	21.4	20.3	20.3
87.5°	10.7	10.2	9.6	11.2	11.8
90°	1.6	7.5	12.8	16.1	17.1
92.5°	9.1	13.4	17.7	20.9	21.9
95°	17.1	23.0	26.2	38.5	41.7
97.5°	23.5	30.5	34.3	45.5	48.7
100°	30.0	36.4	48.2	54.1	57.8
102.5°	35.3	40.1	56.7	68.5	70.6
105°	40.1	41.7	59.9	80.3	85.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	48.2	42.8	64.2	87.2	95.8
115°	49.8	42.3	63.7	87.8	96.3
117.5°	49.8	42.3	62.1	87.8	96.3
120°	48.7	42.8	59.9	86.7	95.8
122.5°	47.6	41.7	57.8	84.6	93.7
125°	46.0	40.7	55.1	80.8	91.0
127.5°	43.3	41.7	52.4	76.0	86.2
130°	41.2	42.3	49.2	71.2	81.3
132.5°	39.6	41.2	46.0	65.8	74.9
135°	37.5	40.7	44.4	59.9	69.0
137.5°	35.9	39.1	41.7	54.6	62.1
140°	34.3	38.0	39.1	47.6	54.1
142.5°	32.1	36.4	36.9	44.4	47.1
145°	30.5	35.3	38.5	41.2	43.9
147.5°	28.9	33.2	37.5	38.0	40.7
150°	28.4	31.0	35.9	36.4	37.5
152.5°	27.8	30.0	33.2	36.4	36.9
155°	27.8	29.4	31.6	34.3	34.8
157.5°	27.3	29.4	30.5	32.6	33.2
160°	27.3	28.9	30.0	31.6	32.1
162.5°	27.3	28.9	29.4	31.0	31.6
165°	27.3	28.4	29.4	30.5	30.5
167.5°	27.3	28.4	28.9	30.0	30.0
170°	27.3	27.8	28.9	29.4	29.4
172.5°	26.8	27.8	28.4	29.4	29.4
175°	26.8	27.3	27.8	28.4	28.9
177.5°	25.7	27.3	27.8	28.4	27.8
180°	26.2	26.2	26.2	26.2	26.2



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	43.9	42.3	62.1	84.6	91.5
110°	46.6	42.8	63.7	86.2	94.7



(END OF REPORT)