

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: P520580

Luminaire Tested: **4WSLA-50-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520580  
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-L830-UPL15-UNV-U  
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

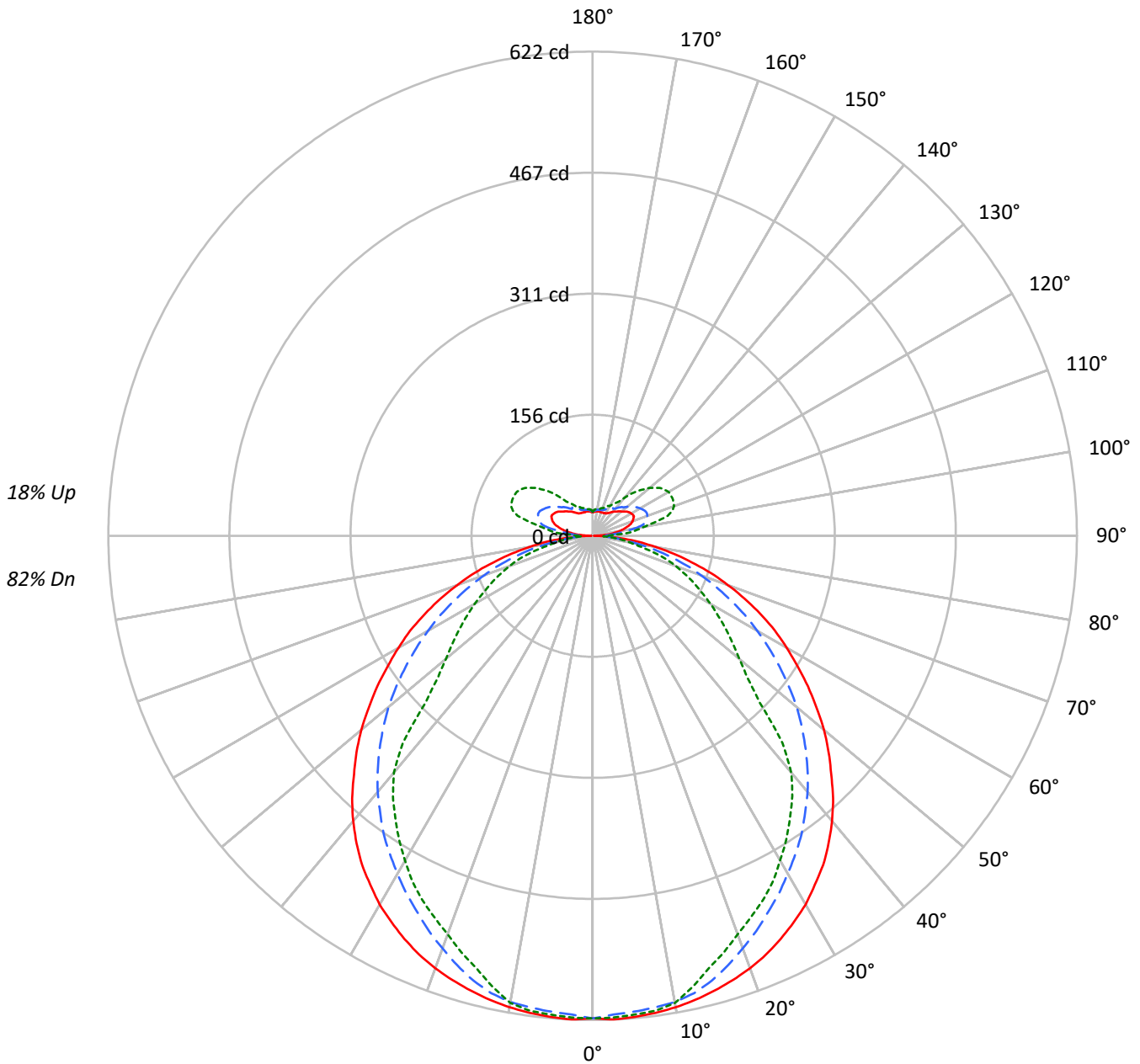
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2008.0 lumens  
Efficiency: N/A  
Efficacy: 128.7 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°	3337	3337	3337
5°	3353	3316	3336
10°	3361	3323	3330
15°	3370	3297	3206
20°	3385	3230	3119
25°	3394	3166	3070
30°	3400	3115	2994
35°	3392	3074	2905
40°	3362	3018	2788
45°	3298	2943	2312
50°	3249	2864	2059
55°	3169	2749	1959
60°	3100	2626	1882
65°	3027	2482	1826
70°	2910	2326	1791
75°	2747	2131	1647
80°	2514	1795	1463
85°	2254	1556	1476



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	2.9
10°-20°	166.9	8.3
20°-30°	249.1	12.4
30°-40°	296.8	14.8
40°-50°	295.2	14.7
50°-60°	253.0	12.6
60°-70°	190.6	9.5
70°-80°	110.4	5.5
80°-90°	33.2	1.7
90°-100°	35.6	1.8
100°-110°	73.1	3.6
110°-120°	77.3	3.9
120°-130°	64.5	3.2
130°-140°	45.1	2.2
140°-150°	28.0	1.4
150°-160°	17.4	0.9
160°-170°	9.8	0.5
170°-180°	3.2	0.2
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0°-30°	474.8	23.6
0°-40°	771.6	38.4
0°-60°	1319.9	65.7
0°-90°	1654.0	82.4
90°-120°	186.1	9.3
90°-150°	323.7	16.1
90°-180°	354.0	17.6
0°-180°	2008.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	621	619	614	618	618	59
15°	605	604	592	582	575	171
25°	572	563	533	520	517	264
35°	516	502	468	450	442	322
45°	433	423	387	348	304	335
55°	338	333	293	233	209	302
65°	238	232	195	152	143	235
75°	132	128	102	82	79	140
85°	36	32	25	24	24	39
90°	2	9	15	19	20	4
95°	20	27	31	45	49	19
105°	47	49	70	94	100	49
115°	58	50	75	103	113	57
125°	54	48	65	95	107	48
135°	44	48	52	70	81	34
145°	36	42	45	48	52	23
155°	33	35	37	40	41	15
165°	32	33	35	36	36	9
175°	31	32	33	33	34	3
180°	31	31	31	31	31	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	620.0	620.0	620.0	620.0	620.0
2.5°	621.9	620.6	615.6	620.6	619.4
5°	620.6	618.8	613.7	618.1	617.5
7.5°	618.1	616.9	611.2	616.2	615.6
10°	615.0	613.1	608.1	611.8	609.3
12.5°	610.6	609.3	601.8	598.6	593.6
15°	604.9	604.3	591.7	581.7	575.4
17.5°	598.6	596.1	578.5	566.6	560.9
20°	591.1	587.3	564.0	550.2	544.6
22.5°	582.3	576.6	549.6	536.4	530.7
25°	571.6	563.4	533.2	520.0	516.9
27.5°	559.6	550.2	518.1	504.9	501.2
30°	547.1	535.1	501.2	488.6	481.7
32.5°	531.4	520.0	484.8	470.4	462.8
35°	516.3	502.4	467.8	449.6	442.1
37.5°	498.0	484.2	448.3	430.1	421.3
40°	478.5	464.7	429.5	408.1	396.8
42.5°	457.2	444.6	408.7	383.0	360.9
45°	433.3	422.6	386.7	348.4	303.7
47.5°	411.2	401.2	364.7	315.0	269.1
50°	388.0	378.5	342.1	283.6	245.9
52.5°	362.2	355.3	317.6	256.6	226.4
55°	337.7	332.6	293.0	232.7	208.8
57.5°	311.9	306.9	268.5	210.0	191.2
60°	288.0	283.0	244.0	189.9	174.8
62.5°	264.1	257.2	220.1	170.4	157.8
65°	237.7	232.0	194.9	151.5	143.4
67.5°	211.3	206.3	171.7	133.9	128.3
70°	184.9	180.5	147.8	117.0	113.8
72.5°	159.1	153.4	126.4	100.0	98.7
75°	132.1	127.7	102.5	81.7	79.2
77.5°	106.3	102.5	80.5	62.3	60.4
80°	81.1	77.3	57.9	45.3	47.2
82.5°	59.7	54.7	39.0	35.2	37.1
85°	36.5	32.1	25.2	23.9	23.9
87.5°	12.6	11.9	11.3	13.2	13.8
90°	1.9	8.8	15.1	18.9	20.1
92.5°	10.7	15.7	20.8	24.5	25.8
95°	20.1	27.0	30.8	45.3	49.0
97.5°	27.7	35.8	40.2	53.4	57.2
100°	35.2	42.8	56.6	63.5	67.9
102.5°	41.5	47.2	66.7	80.5	83.0
105°	47.2	49.0	70.4	94.3	100.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	56.6	50.3	75.5	102.5	112.6
115°	58.5	49.7	74.8	103.1	113.2
117.5°	58.5	49.7	72.9	103.1	113.2
120°	57.2	50.3	70.4	101.9	112.6
122.5°	56.0	49.0	67.9	99.4	110.0
125°	54.1	47.8	64.8	95.0	106.9
127.5°	50.9	49.0	61.6	89.3	101.2
130°	48.4	49.7	57.9	83.6	95.6
132.5°	46.5	48.4	54.1	77.3	88.0
135°	44.0	47.8	52.2	70.4	81.1
137.5°	42.1	45.9	49.0	64.1	72.9
140°	40.2	44.6	45.9	56.0	63.5
142.5°	37.7	42.8	43.4	52.2	55.3
145°	35.8	41.5	45.3	48.4	51.6
147.5°	34.0	39.0	44.0	44.6	47.8
150°	33.3	36.5	42.1	42.8	44.0
152.5°	32.7	35.2	39.0	42.8	43.4
155°	32.7	34.6	37.1	40.2	40.9
157.5°	32.1	34.6	35.8	38.4	39.0
160°	32.1	34.0	35.2	37.1	37.7
162.5°	32.1	34.0	34.6	36.5	37.1
165°	32.1	33.3	34.6	35.8	35.8
167.5°	32.1	33.3	34.0	35.2	35.2
170°	32.1	32.7	34.0	34.6	34.6
172.5°	31.4	32.7	33.3	34.6	34.6
175°	31.4	32.1	32.7	33.3	34.0
177.5°	30.2	32.1	32.7	33.3	32.7
180°	30.8	30.8	30.8	30.8	30.8



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	51.6	49.7	72.9	99.4	107.5
110°	54.7	50.3	74.8	101.2	111.3



(END OF REPORT)