

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: P520579

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

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 4WSLA-50-L830-UNV-U  
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

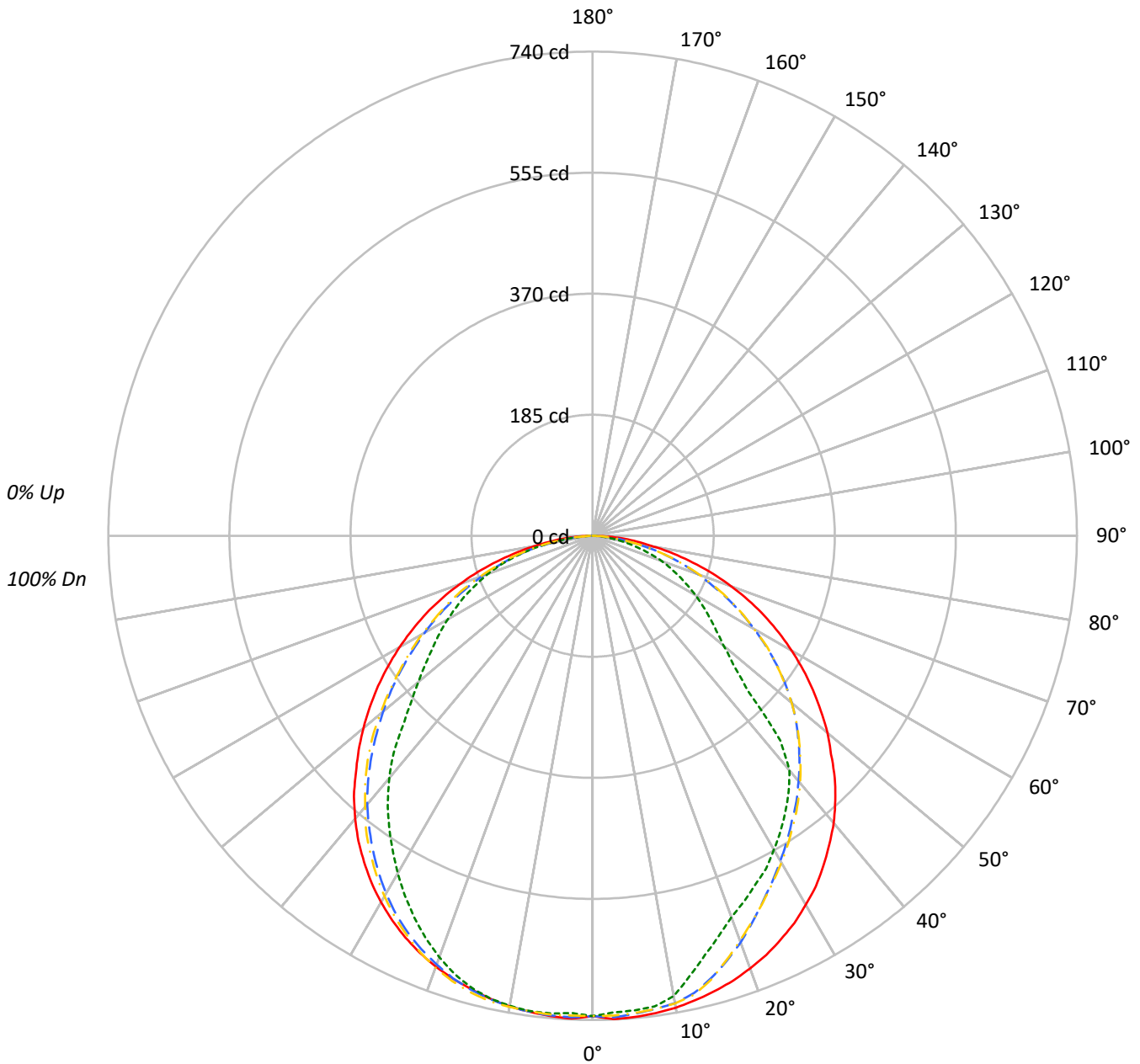
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1969.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 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: 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				20				
RC	80				70				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84			84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70			70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60			60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44			44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39			39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25			25

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

	0°	90°	180°	270°
0°	3950	3950	3950	3950
5°	3989	3934	3982	3959
10°	4003	3904	3992	3986
15°	4015	3697	3997	3984
20°	4030	3552	4014	3924
25°	4043	3494	4022	3825
30°	4048	3443	4018	3700
35°	4041	3376	4000	3562
40°	4028	3287	3965	3397
45°	3983	2554	3893	3117
50°	3924	2186	3828	2908
55°	3854	2046	3754	2797
60°	3780	1954	3666	2751
65°	3691	1850	3566	2718
70°	3544	1759	3396	2677
75°	3300	1547	3144	2547
80°	2929	1292	2746	2160
85°	2773	926	2433	1241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	3.5
10°-20°	198.9	10.1
20°-30°	297.2	15.1
30°-40°	353.8	18.0
40°-50°	353.7	18.0
50°-60°	304.3	15.5
60°-70°	229.0	11.6
70°-80°	130.5	6.6
80°-90°	31.8	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	565.9	28.7
0°-40°	919.7	46.7
0°-60°	1577.7	80.1
0°-90°	1969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1969.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	734	734	734	734	734	
5°	738	728	737	733	738	70
15°	721	664	717	715	721	204
25°	681	588	677	644	681	314
35°	615	514	609	542	615	385
45°	523	336	512	410	523	403
55°	411	218	400	298	411	367
65°	290	145	280	213	290	286
75°	159	74	151	122	159	168
85°	45	15	39	20	45	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
2.5°	739.5	732.8	736.7	735.6	729.3	731.6	734.0	731.6	738.7	732.4	736.7
5°	738.3	731.2	733.6	731.2	728.1	728.9	732.4	730.0	737.1	730.4	735.9
7.5°	735.9	727.3	729.6	728.5	725.7	726.1	729.6	727.7	734.0	727.7	734.0
10°	732.4	723.3	725.3	720.2	714.3	718.6	725.7	723.7	730.4	723.3	730.4
12.5°	726.9	717.8	715.9	698.9	688.3	696.6	718.2	718.2	724.5	717.8	725.3
15°	720.6	710.7	700.1	674.5	663.5	671.8	701.7	711.9	717.4	710.7	718.2
17.5°	713.1	701.7	681.2	651.3	641.0	649.3	680.0	702.5	709.6	702.5	709.2
20°	703.7	690.3	661.1	626.9	620.2	627.7	658.4	691.1	700.9	692.2	697.0
22.5°	693.4	677.3	638.7	608.0	604.8	609.5	637.5	676.9	689.9	680.8	684.0
25°	680.8	661.9	616.2	590.6	588.3	591.0	617.0	660.3	677.3	667.8	669.0
27.5°	667.4	647.0	595.0	576.1	573.7	574.9	596.6	641.8	662.7	653.3	651.3
30°	651.3	629.2	573.7	556.4	554.0	558.4	576.9	622.9	646.6	637.1	631.2
32.5°	635.1	609.9	552.8	539.5	534.7	538.7	556.4	603.2	628.8	619.0	609.2
35°	615.1	589.5	531.2	517.8	513.9	518.2	535.9	582.8	608.8	598.9	585.5
37.5°	594.2	567.8	511.5	499.3	492.2	497.3	515.0	561.5	587.9	577.7	561.1
40°	573.3	545.0	489.5	476.8	467.8	475.3	493.4	539.1	564.3	554.8	535.9
42.5°	548.9	522.1	467.8	450.1	424.5	448.5	470.2	516.6	539.9	530.8	508.0
45°	523.3	497.7	445.0	402.0	335.5	406.0	446.5	493.0	511.5	502.8	478.0
47.5°	494.2	472.5	421.7	356.4	291.8	360.3	422.5	470.5	484.7	475.3	447.7
50°	468.6	447.3	397.3	317.8	261.1	322.1	396.9	445.3	457.2	448.5	417.8
52.5°	439.4	420.9	370.9	283.5	238.2	287.8	370.1	419.4	428.8	418.6	387.9
55°	410.7	394.2	343.0	253.2	218.1	257.1	342.2	392.6	400.1	388.3	356.4
57.5°	381.6	366.6	314.2	226.0	199.6	230.4	316.2	365.0	370.1	355.2	326.0
60°	351.2	338.6	285.1	202.0	181.5	205.5	284.3	337.5	340.6	324.5	296.5
62.5°	320.9	309.5	255.9	180.0	163.0	182.3	257.9	308.3	310.3	294.9	266.2
65°	289.8	279.2	227.6	156.7	145.3	160.7	229.6	278.0	280.0	262.6	236.7
67.5°	257.5	248.9	197.3	139.0	128.4	140.2	201.2	247.3	248.5	231.5	207.9
70°	225.2	217.8	170.5	119.7	111.8	120.1	173.3	213.4	215.8	197.7	178.8
72.5°	192.2	186.3	144.5	99.6	92.5	99.6	146.1	182.3	183.9	168.9	150.4
75°	158.7	154.4	118.1	79.9	74.4	79.5	118.9	151.2	151.2	137.0	122.5
77.5°	126.4	123.2	90.6	61.4	57.5	60.6	91.0	119.7	118.9	107.9	96.5
80°	94.5	92.1	65.0	44.5	41.7	43.3	65.0	88.6	88.6	80.7	66.9
82.5°	67.7	65.0	42.9	29.1	27.6	28.4	42.1	61.8	63.0	57.1	45.3
85°	44.9	38.6	23.2	16.1	15.0	15.4	22.1	35.8	39.4	33.1	23.6
87.5°	19.7	13.0	5.9	2.4	1.2	1.6	4.7	11.4	15.0	9.8	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	734.0	734.0	734.0	734.0	734.0	734.0
2.5°	736.3	730.0	732.4	734.0	732.4	739.5
5°	735.6	732.8	732.4	734.4	731.2	738.3
7.5°	734.4	732.8	732.4	733.2	729.3	735.9
10°	731.6	729.3	730.0	731.2	726.1	732.4
12.5°	726.5	724.1	724.5	728.5	721.4	726.9
15°	717.8	715.1	717.8	722.2	715.9	720.6
17.5°	706.4	702.1	706.8	713.5	708.8	713.1
20°	691.8	685.2	690.3	702.5	698.1	703.7
22.5°	674.1	665.9	671.0	688.7	687.5	693.4
25°	654.0	644.2	651.3	672.9	675.3	680.8
27.5°	631.6	620.6	630.0	655.6	661.1	667.4
30°	607.2	595.4	606.4	636.3	644.6	651.3
32.5°	582.0	569.0	581.6	614.7	626.5	635.1
35°	555.6	542.2	556.4	592.2	606.4	615.1
37.5°	527.3	514.3	529.6	568.6	585.5	594.2
40°	498.1	483.5	500.9	540.6	563.1	573.3
42.5°	468.2	450.1	471.3	514.3	538.7	548.9
45°	434.7	409.5	438.3	486.3	511.9	523.3
47.5°	401.2	376.0	405.2	456.4	483.9	494.2
50°	369.0	347.3	370.5	423.7	455.6	468.6
52.5°	339.4	321.7	341.4	391.8	426.4	439.4
55°	311.9	298.1	314.2	360.3	395.7	410.7
57.5°	285.9	277.2	288.2	330.4	367.4	381.6
60°	261.5	255.6	263.4	300.8	333.9	351.2
62.5°	237.4	234.3	240.2	269.7	302.8	320.9
65°	214.2	213.4	216.6	242.6	270.1	289.8
67.5°	191.0	190.6	192.6	213.8	238.2	257.5
70°	167.7	170.1	168.9	182.7	206.3	225.2
72.5°	144.1	147.7	145.7	154.4	177.2	192.2
75°	117.7	122.5	118.5	128.4	142.5	158.7
77.5°	90.6	95.7	91.0	99.6	115.0	126.4
80°	65.0	69.7	65.8	72.5	85.8	94.5
82.5°	41.0	44.5	41.3	48.0	61.4	67.7
85°	18.1	20.1	20.9	26.0	37.8	44.9
87.5°	0.8	0.4	0.8	5.1	13.4	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°









(END OF REPORT)