

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: P520592

Luminaire Tested: **4WSLA-50-L930-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520592
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-L930-UPL15-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

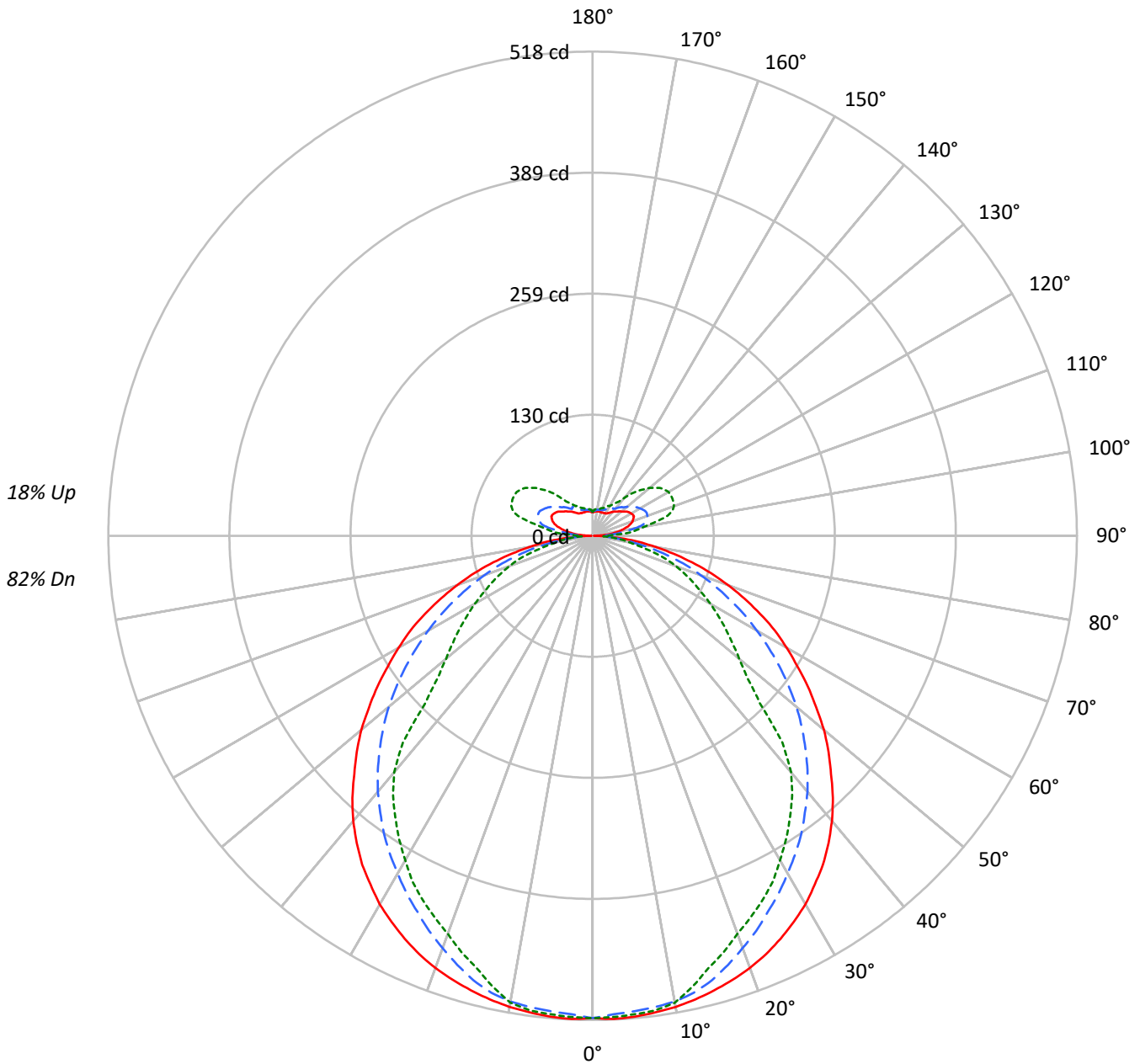
Lumens per Lamp: N/A
Luminaire Lumens: 1671.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 15.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	2777	2777	2777
5°	2790	2759	2776
10°	2797	2765	2771
15°	2805	2744	2668
20°	2817	2688	2596
25°	2825	2635	2554
30°	2829	2592	2491
35°	2823	2558	2417
40°	2798	2511	2320
45°	2744	2449	1923
50°	2704	2384	1713
55°	2637	2289	1630
60°	2580	2185	1566
65°	2519	2066	1519
70°	2420	1936	1490
75°	2285	1774	1370
80°	2092	1491	1215
85°	1877	1291	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	2.9
10°-20°	138.9	8.3
20°-30°	207.3	12.4
30°-40°	247.0	14.8
40°-50°	245.7	14.7
50°-60°	210.6	12.6
60°-70°	158.6	9.5
70°-80°	91.8	5.5
80°-90°	27.6	1.7
90°-100°	29.6	1.8
100°-110°	60.9	3.6
110°-120°	64.3	3.9
120°-130°	53.7	3.2
130°-140°	37.5	2.2
140°-150°	23.3	1.4
150°-160°	14.5	0.9
160°-170°	8.2	0.5
170°-180°	2.6	0.2
0°-30°	395.1	23.6
0°-40°	642.1	38.4
0°-60°	1098.4	65.7
0°-90°	1376.4	82.4
90°-120°	154.8	9.3
90°-150°	269.4	16.1
90°-180°	295.0	17.7
0°-180°	1671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	516	515	511	514	514	49
15°	503	503	492	484	479	142
25°	476	469	444	433	430	219
35°	430	418	389	374	368	268
45°	360	352	322	290	253	279
55°	281	277	244	194	174	251
65°	198	193	162	126	119	196
75°	110	106	85	68	66	116
85°	30	27	21	20	20	32
90°	2	7	13	16	17	3
95°	17	22	26	38	41	16
105°	39	41	59	78	83	41
115°	49	41	62	86	94	47
125°	45	40	54	79	89	40
135°	37	40	43	59	68	29
145°	30	34	38	40	43	19
155°	27	29	31	34	34	13
165°	27	28	29	30	30	8
175°	26	27	27	28	28	2
180°	26	26	26	26	26	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	516.0	516.0	516.0	516.0	516.0
2.5°	517.5	516.5	512.3	516.5	515.4
5°	516.5	514.9	510.7	514.4	513.9
7.5°	514.4	513.3	508.6	512.8	512.3
10°	511.8	510.2	506.0	509.2	507.1
12.5°	508.1	507.1	500.8	498.2	494.0
15°	503.4	502.9	492.4	484.0	478.8
17.5°	498.2	496.1	481.4	471.5	466.8
20°	491.9	488.7	469.4	457.9	453.2
22.5°	484.6	479.9	457.4	446.4	441.7
25°	475.7	468.9	443.7	432.8	430.1
27.5°	465.7	457.9	431.2	420.2	417.1
30°	455.3	445.3	417.1	406.6	400.8
32.5°	442.2	432.8	403.5	391.4	385.1
35°	429.6	418.1	389.3	374.1	367.9
37.5°	414.4	402.9	373.1	357.9	350.6
40°	398.2	386.7	357.4	339.6	330.2
42.5°	380.4	370.0	340.1	318.7	300.4
45°	360.5	351.6	321.8	289.9	252.7
47.5°	342.2	333.9	303.5	262.2	224.0
50°	322.9	315.0	284.7	236.0	204.6
52.5°	301.4	295.7	264.3	213.5	188.4
55°	281.0	276.8	243.9	193.6	173.7
57.5°	259.5	255.4	223.4	174.8	159.1
60°	239.7	235.5	203.0	158.0	145.5
62.5°	219.8	214.0	183.1	141.8	131.3
65°	197.8	193.1	162.2	126.1	119.3
67.5°	175.8	171.6	142.9	111.5	106.8
70°	153.8	150.2	123.0	97.3	94.7
72.5°	132.4	127.7	105.2	83.2	82.2
75°	109.9	106.2	85.3	68.0	65.9
77.5°	88.4	85.3	67.0	51.8	50.2
80°	67.5	64.4	48.1	37.7	39.2
82.5°	49.7	45.5	32.4	29.3	30.9
85°	30.4	26.7	20.9	19.9	19.9
87.5°	10.5	9.9	9.4	11.0	11.5
90°	1.6	7.3	12.6	15.7	16.7
92.5°	8.9	13.1	17.3	20.4	21.5
95°	16.7	22.5	25.6	37.7	40.8
97.5°	23.0	29.8	33.5	44.5	47.6
100°	29.3	35.6	47.1	52.9	56.5
102.5°	34.5	39.2	55.5	67.0	69.1
105°	39.2	40.8	58.6	78.5	83.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.1	41.9	62.8	85.3	93.7
115°	48.7	41.3	62.3	85.8	94.2
117.5°	48.7	41.3	60.7	85.8	94.2
120°	47.6	41.9	58.6	84.8	93.7
122.5°	46.6	40.8	56.5	82.7	91.6
125°	45.0	39.8	53.9	79.0	89.0
127.5°	42.4	40.8	51.3	74.3	84.2
130°	40.3	41.3	48.1	69.6	79.5
132.5°	38.7	40.3	45.0	64.4	73.3
135°	36.6	39.8	43.4	58.6	67.5
137.5°	35.1	38.2	40.8	53.4	60.7
140°	33.5	37.2	38.2	46.6	52.9
142.5°	31.4	35.6	36.1	43.4	46.0
145°	29.8	34.5	37.7	40.3	42.9
147.5°	28.3	32.4	36.6	37.2	39.8
150°	27.7	30.4	35.1	35.6	36.6
152.5°	27.2	29.3	32.4	35.6	36.1
155°	27.2	28.8	30.9	33.5	34.0
157.5°	26.7	28.8	29.8	31.9	32.4
160°	26.7	28.3	29.3	30.9	31.4
162.5°	26.7	28.3	28.8	30.4	30.9
165°	26.7	27.7	28.8	29.8	29.8
167.5°	26.7	27.7	28.3	29.3	29.3
170°	26.7	27.2	28.3	28.8	28.8
172.5°	26.2	27.2	27.7	28.8	28.8
175°	26.2	26.7	27.2	27.7	28.3
177.5°	25.1	26.7	27.2	27.7	27.2
180°	25.6	25.6	25.6	25.6	25.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	42.9	41.3	60.7	82.7	89.5
110°	45.5	41.9	62.3	84.2	92.6



(END OF REPORT)