

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: P520601

Luminaire Tested: **4WSLA-50-L950-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520601
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-L950-UPL15-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

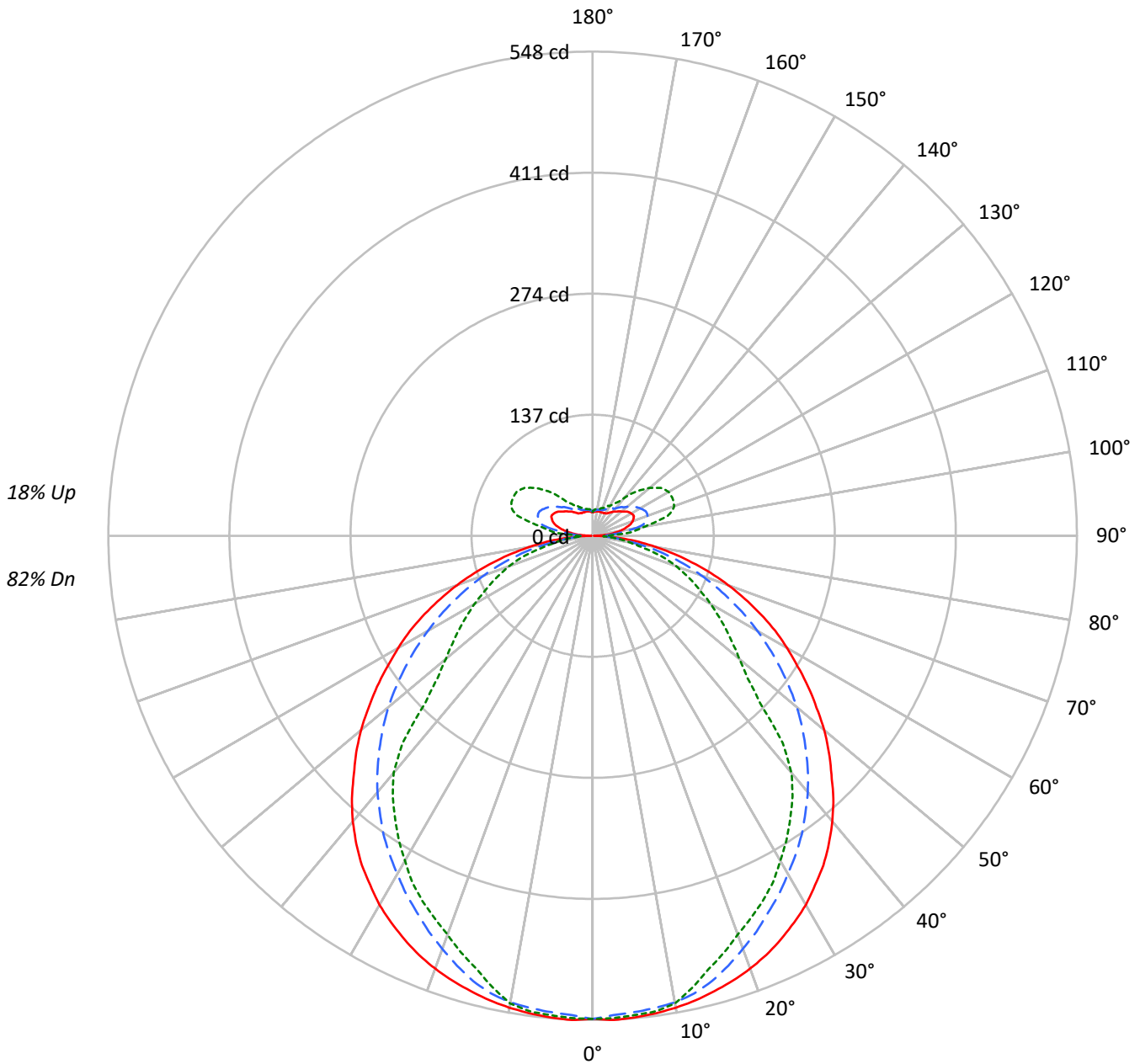
Lumens per Lamp: N/A
Luminaire Lumens: 1771.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 15.6
Input Voltage (V): NR
Input Current (A_{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°	2943	2943	2943
5°	2957	2924	2942
10°	2964	2931	2937
15°	2973	2908	2828
20°	2986	2849	2751
25°	2994	2793	2707
30°	2999	2747	2640
35°	2991	2711	2562
40°	2966	2661	2459
45°	2908	2596	2039
50°	2865	2526	1815
55°	2794	2425	1727
60°	2734	2316	1660
65°	2669	2189	1610
70°	2567	2050	1580
75°	2423	1880	1454
80°	2216	1581	1289
85°	1988	1371	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	2.9
10°-20°	147.2	8.3
20°-30°	219.7	12.4
30°-40°	261.8	14.8
40°-50°	260.4	14.7
50°-60°	223.2	12.6
60°-70°	168.1	9.5
70°-80°	97.3	5.5
80°-90°	29.3	1.7
90°-100°	31.4	1.8
100°-110°	64.5	3.6
110°-120°	68.2	3.9
120°-130°	56.9	3.2
130°-140°	39.7	2.2
140°-150°	24.7	1.4
150°-160°	15.3	0.9
160°-170°	8.6	0.5
170°-180°	2.8	0.2
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0°-30°	418.8	23.6
0°-40°	680.5	38.4
0°-60°	1164.1	65.7
0°-90°	1458.8	82.4
90°-120°	164.1	9.3
90°-150°	285.5	16.1
90°-180°	312.0	17.6
0°-180°	1771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	547	546	541	545	545	52
15°	534	533	522	513	508	151
25°	504	497	470	459	456	232
35°	455	443	413	396	390	284
45°	382	373	341	307	268	295
55°	298	293	258	205	184	266
65°	210	205	172	134	126	207
75°	116	113	90	72	70	123
85°	32	28	22	21	21	34
90°	2	8	13	17	18	3
95°	18	24	27	40	43	17
105°	42	43	62	83	88	43
115°	52	44	66	91	100	50
125°	48	42	57	84	94	42
135°	39	42	46	62	72	30
145°	32	37	40	43	46	20
155°	29	30	33	36	36	13
165°	28	29	30	32	32	8
175°	28	28	29	29	30	3
180°	27	27	27	27	27	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	546.8	546.8	546.8	546.8	546.8
2.5°	548.5	547.4	543.0	547.4	546.3
5°	547.4	545.7	541.3	545.2	544.6
7.5°	545.2	544.1	539.1	543.5	543.0
10°	542.4	540.7	536.3	539.6	537.4
12.5°	538.5	537.4	530.8	528.0	523.5
15°	533.5	533.0	521.9	513.0	507.5
17.5°	528.0	525.8	510.2	499.7	494.7
20°	521.3	518.0	497.5	485.3	480.3
22.5°	513.6	508.6	484.7	473.1	468.1
25°	504.1	496.9	470.3	458.7	455.9
27.5°	493.6	485.3	457.0	445.3	442.0
30°	482.5	472.0	442.0	430.9	424.8
32.5°	468.6	458.7	427.6	414.8	408.2
35°	455.3	443.1	412.6	396.5	389.9
37.5°	439.2	427.0	395.4	379.3	371.6
40°	422.1	409.8	378.8	359.9	350.0
42.5°	403.2	392.1	360.5	337.8	318.3
45°	382.1	372.7	341.1	307.2	267.9
47.5°	362.7	353.8	321.7	277.9	237.4
50°	342.2	333.9	301.7	250.1	216.8
52.5°	319.4	313.3	280.1	226.3	199.7
55°	297.8	293.4	258.4	205.2	184.1
57.5°	275.1	270.6	236.8	185.2	168.6
60°	254.0	249.6	215.2	167.5	154.2
62.5°	232.9	226.8	194.1	150.3	139.2
65°	209.6	204.6	171.9	133.7	126.4
67.5°	186.3	181.9	151.4	118.1	113.1
70°	163.1	159.2	130.3	103.2	100.4
72.5°	140.3	135.3	111.5	88.2	87.1
75°	116.5	112.6	90.4	72.1	69.9
77.5°	93.7	90.4	71.0	54.9	53.2
80°	71.5	68.2	51.0	39.9	41.6
82.5°	52.7	48.3	34.4	31.1	32.7
85°	32.2	28.3	22.2	21.1	21.1
87.5°	11.1	10.5	10.0	11.6	12.2
90°	1.7	7.8	13.3	16.6	17.7
92.5°	9.4	13.9	18.3	21.6	22.7
95°	17.7	23.8	27.2	39.9	43.3
97.5°	24.4	31.6	35.5	47.1	50.5
100°	31.1	37.7	49.9	56.0	59.9
102.5°	36.6	41.6	58.8	71.0	73.2
105°	41.6	43.3	62.1	83.2	88.2



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CATALOG NUMBER: 4WSLA-50-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.9	44.4	66.6	90.4	99.3
115°	51.6	43.8	66.0	91.0	99.8
117.5°	51.6	43.8	64.3	91.0	99.8
120°	50.5	44.4	62.1	89.8	99.3
122.5°	49.4	43.3	59.9	87.6	97.1
125°	47.7	42.1	57.1	83.7	94.3
127.5°	44.9	43.3	54.4	78.8	89.3
130°	42.7	43.8	51.0	73.8	84.3
132.5°	41.0	42.7	47.7	68.2	77.6
135°	38.8	42.1	46.0	62.1	71.5
137.5°	37.2	40.5	43.3	56.6	64.3
140°	35.5	39.4	40.5	49.4	56.0
142.5°	33.3	37.7	38.3	46.0	48.8
145°	31.6	36.6	39.9	42.7	45.5
147.5°	29.9	34.4	38.8	39.4	42.1
150°	29.4	32.2	37.2	37.7	38.8
152.5°	28.8	31.1	34.4	37.7	38.3
155°	28.8	30.5	32.7	35.5	36.0
157.5°	28.3	30.5	31.6	33.8	34.4
160°	28.3	29.9	31.1	32.7	33.3
162.5°	28.3	29.9	30.5	32.2	32.7
165°	28.3	29.4	30.5	31.6	31.6
167.5°	28.3	29.4	29.9	31.1	31.1
170°	28.3	28.8	29.9	30.5	30.5
172.5°	27.7	28.8	29.4	30.5	30.5
175°	27.7	28.3	28.8	29.4	29.9
177.5°	26.6	28.3	28.8	29.4	28.8
180°	27.2	27.2	27.2	27.2	27.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	45.5	43.8	64.3	87.6	94.8
110°	48.3	44.4	66.0	89.3	98.2



(END OF REPORT)