

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: P520596

Luminaire Tested: **4WSLA-50-L935-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-50-L935-UPL8-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

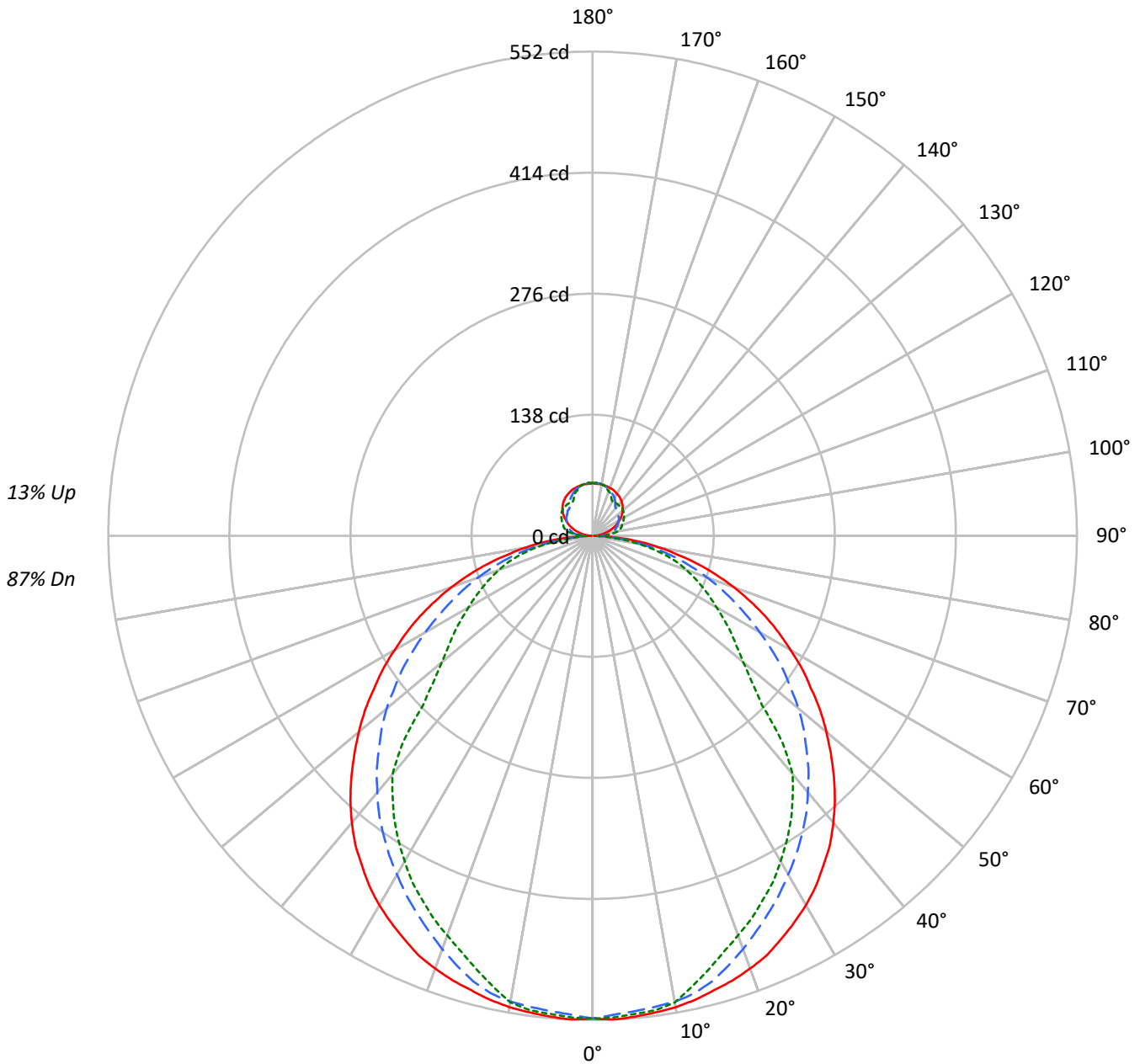
Lumens per Lamp: N/A
Luminaire Lumens: 1713.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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				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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2962	2962	2962
5°	2974	2940	2957
10°	2982	2947	2952
15°	2988	2930	2851
20°	3007	2871	2776
25°	3015	2817	2723
30°	3022	2771	2663
35°	3013	2732	2591
40°	2999	2682	2493
45°	2960	2622	2079
50°	2911	2566	1876
55°	2853	2482	1806
60°	2805	2370	1756
65°	2763	2269	1755
70°	2692	2181	1783
75°	2568	2075	1795
80°	2405	1866	1671
85°	2198	1321	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	3.0
10°-20°	148.1	8.6
20°-30°	221.4	12.9
30°-40°	264.2	15.4
40°-50°	264.3	15.4
50°-60°	228.7	13.4
60°-70°	175.5	10.2
70°-80°	107.6	6.3
80°-90°	30.3	1.8
90°-100°	17.1	1.0
100°-110°	27.2	1.6
110°-120°	31.8	1.9
120°-130°	34.3	2.0
130°-140°	33.8	2.0
140°-150°	29.9	1.7
150°-160°	24.6	1.4
160°-170°	16.5	1.0
170°-180°	5.7	0.3
0°-30°	421.6	24.6
0°-40°	685.8	40.0
0°-60°	1178.8	68.8
0°-90°	1492.2	87.1
90°-120°	76.0	4.4
90°-150°	174.0	10.2
90°-180°	221.0	12.9
0°-180°	1713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	550	550	550	550	550	
5°	550	549	544	548	547	52
15°	536	535	526	516	512	152
25°	508	501	474	462	459	234
35°	459	447	416	401	394	287
45°	389	378	344	314	273	300
55°	304	297	264	212	192	273
65°	217	209	178	143	138	214
75°	124	117	100	86	86	130
85°	36	29	21	18	18	37
90°	2	6	9	11	12	3
95°	6	14	18	19	19	6
105°	18	19	27	32	33	19
115°	30	25	32	36	39	29
125°	40	32	36	42	44	36
135°	48	44	40	44	47	37
145°	54	52	45	44	46	34
155°	57	56	53	51	50	26
165°	59	59	58	58	58	17
175°	59	60	60	61	61	6
180°	60	60	60	60	60	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	550.4	550.4	550.4	550.4	550.4
2.5°	552.0	550.4	546.5	550.4	549.6
5°	550.4	548.8	544.1	548.1	547.3
7.5°	548.1	546.5	541.7	546.5	545.7
10°	545.7	544.1	539.3	542.5	540.1
12.5°	541.7	540.1	534.6	530.6	525.9
15°	536.2	535.4	525.9	516.4	511.6
17.5°	531.4	529.0	514.0	502.9	497.4
20°	525.1	521.1	501.3	488.7	484.7
22.5°	518.0	511.6	487.9	476.0	472.8
25°	507.7	501.3	474.4	461.7	458.6
27.5°	497.4	489.4	460.9	448.3	445.1
30°	486.3	475.2	445.9	434.0	428.5
32.5°	473.6	462.5	431.6	418.2	411.8
35°	458.6	446.7	415.8	400.7	394.4
37.5°	444.3	431.6	400.0	383.3	374.6
40°	426.9	414.2	381.7	363.5	354.8
42.5°	408.7	396.8	364.3	342.1	320.8
45°	388.9	377.8	344.5	313.6	273.2
47.5°	368.3	358.8	326.3	284.3	245.5
50°	347.7	338.2	306.5	256.6	224.1
52.5°	327.1	319.2	284.3	233.6	206.7
55°	304.1	297.0	264.5	211.5	192.5
57.5°	283.5	276.4	241.6	193.2	177.4
60°	260.6	254.2	220.2	175.0	163.1
62.5°	239.2	232.1	198.8	159.2	150.5
65°	217.0	209.1	178.2	143.3	137.8
67.5°	194.0	186.1	158.4	129.1	125.9
70°	171.1	164.7	138.6	114.8	113.3
72.5°	147.3	140.2	118.8	101.4	101.4
75°	123.5	117.2	99.8	86.3	86.3
77.5°	99.0	95.8	80.0	70.5	71.3
80°	77.6	73.7	60.2	53.9	53.9
82.5°	57.0	52.3	40.4	35.6	37.2
85°	35.6	29.3	21.4	18.2	18.2
87.5°	11.1	8.7	6.3	7.1	7.1
90°	1.6	5.5	8.7	11.1	11.9
92.5°	4.0	10.3	12.7	15.0	15.8
95°	6.3	13.5	18.2	19.0	19.0
97.5°	8.7	15.0	22.2	25.3	25.3
100°	11.9	15.8	23.8	28.5	29.3
102.5°	15.0	17.4	25.3	30.1	31.7
105°	18.2	19.0	26.9	31.7	33.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	26.9	23.8	30.1	35.6	37.2
115°	30.1	25.3	31.7	36.4	38.8
117.5°	32.5	27.7	33.3	38.0	39.6
120°	34.8	29.3	34.1	39.6	41.2
122.5°	38.0	30.9	35.6	40.4	42.8
125°	40.4	32.5	36.4	42.0	43.6
127.5°	42.8	35.6	37.2	42.8	44.4
130°	44.4	38.8	38.0	43.6	45.1
132.5°	46.7	41.2	38.8	44.4	45.9
135°	48.3	43.6	40.4	44.4	46.7
137.5°	49.9	45.9	40.4	44.4	45.9
140°	51.5	48.3	41.2	44.4	45.9
142.5°	52.3	49.9	42.0	44.4	45.9
145°	53.9	51.5	45.1	44.4	45.9
147.5°	54.6	53.1	47.5	44.4	45.9
150°	55.4	54.6	49.9	45.1	45.1
152.5°	56.2	55.4	51.5	48.3	46.7
155°	57.0	56.2	53.1	50.7	49.9
157.5°	57.8	57.8	54.6	53.1	52.3
160°	57.8	58.6	56.2	54.6	53.9
162.5°	58.6	59.4	57.0	56.2	55.4
165°	58.6	59.4	57.8	57.8	57.8
167.5°	59.4	60.2	59.4	58.6	58.6
170°	59.4	60.2	59.4	59.4	59.4
172.5°	59.4	60.2	60.2	60.2	60.2
175°	59.4	60.2	60.2	61.0	61.0
177.5°	59.4	60.2	60.2	60.2	60.2
180°	60.2	60.2	60.2	60.2	60.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	21.4	20.6	27.7	33.3	34.8
110°	23.8	22.2	29.3	34.1	35.6



(END OF REPORT)