

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: P183547

Luminaire Tested: **E2-WS-2L35-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26966)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-WS-2L35-1D-UNV-4-STD-DM5  
Description: CORELITE ELEMENT SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.  
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.  
Light Source: (336)3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3523.6 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.37 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: General Diffuse

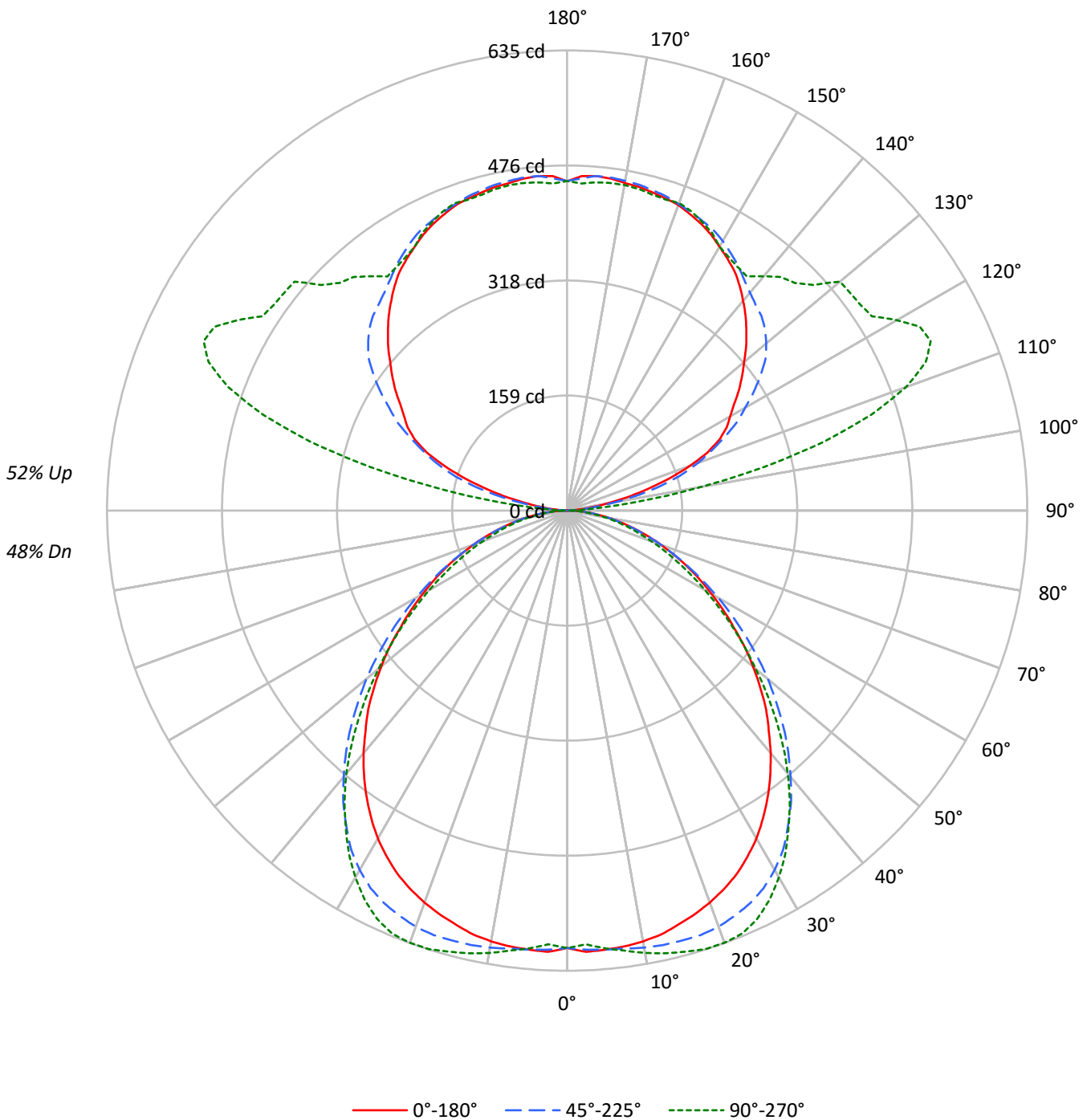
Input Watts (W): 35.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48				48
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46	41				41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35				35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	33	29				29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25				25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22				22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19				19
7	58	46	38	32	53	43	36	30	36	31	27	31	26	23	25	22	20	17				17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15				15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16	14				14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12				12

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

	0°	45°	90°
0°	4835	4835	4835
5°	4865	4711	4652
10°	4860	4628	4592
15°	4833	4562	4549
20°	4805	4498	4500
25°	4763	4394	4362
30°	4676	4235	4093
35°	4535	3985	3751
40°	4356	3677	3379
45°	4156	3335	2966
50°	3904	2970	2546
55°	3616	2583	2161
60°	3351	2201	1796
65°	3084	1826	1456
70°	2773	1467	1150
75°	2439	1117	862
80°	2047	768	575
85°	1546	410	276



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.0	1.6
10°-20°	173.0	4.9
20°-30°	271.5	7.7
30°-40°	322.9	9.2
40°-50°	314.9	8.9
50°-60°	259.4	7.4
60°-70°	180.4	5.1
70°-80°	99.2	2.8
80°-90°	29.6	0.8
90°-100°	39.8	1.1
100°-110°	204.2	5.8
110°-120°	313.3	8.9
120°-130°	327.1	9.3
130°-140°	299.4	8.5
140°-150°	255.8	7.3
150°-160°	202.5	5.7
160°-170°	128.7	3.7
170°-180°	43.9	1.2
0°-30°	502.5	14.3
0°-40°	825.4	23.4
0°-60°	1399.8	39.7
0°-90°	1708.9	48.5
90°-120°	557.3	15.8
90°-150°	1439.7	40.9
90°-180°	1815.0	51.5
0°-180°	3523.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	608	602	608	607	607	58
15°	592	593	614	627	630	167
25°	554	562	598	615	621	255
35°	483	494	531	534	533	301
45°	388	403	422	413	407	299
55°	280	294	300	286	278	252
65°	183	189	186	176	168	181
75°	96	99	94	89	86	102
85°	28	30	27	24	22	29
90°	0	2	2	2	2	2
95°	15	16	19	41	46	21
105°	115	115	136	298	366	122
115°	232	229	239	419	554	225
125°	289	307	326	437	494	259
135°	350	356	379	415	444	270
145°	403	404	412	407	410	252
155°	437	435	441	441	440	201
165°	455	455	458	453	452	129
175°	463	459	463	460	455	44
180°	455	455	455	455	455	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	603.6	603.6	603.6	603.6	603.6
2.5°	609.5	602.2	606.6	605.1	599.2
5°	608.1	602.2	608.1	606.6	606.6
7.5°	606.6	600.7	609.5	612.5	612.5
10°	603.6	599.2	612.5	616.9	619.9
12.5°	599.2	596.3	614.0	622.8	625.8
15°	591.8	593.3	614.0	627.2	630.2
17.5°	584.4	588.9	614.0	628.7	634.6
20°	575.6	581.5	611.0	628.7	634.6
22.5°	565.3	572.6	605.1	624.3	631.7
25°	553.5	562.3	597.7	615.4	621.3
27.5°	538.7	549.0	587.4	602.2	605.1
30°	522.5	532.8	572.6	583.0	584.4
32.5°	503.3	516.6	554.9	560.8	560.8
35°	482.6	494.4	531.3	534.3	532.8
37.5°	460.5	473.8	507.7	506.2	504.8
40°	436.9	450.1	479.7	476.7	473.8
42.5°	411.8	426.5	451.6	445.7	441.3
45°	388.2	402.9	422.1	413.2	407.3
47.5°	361.6	376.3	391.1	382.3	373.4
50°	335.0	348.3	361.6	346.8	339.5
52.5°	308.5	321.7	330.6	317.3	308.5
55°	280.4	293.7	299.6	286.3	277.5
57.5°	255.3	265.7	270.1	256.8	247.9
60°	230.2	239.1	240.6	228.8	219.9
62.5°	206.6	214.0	212.5	200.7	193.3
65°	183.0	188.9	186.0	175.6	168.3
67.5°	159.4	163.8	160.9	152.0	146.1
70°	137.3	141.7	137.3	128.4	124.0
72.5°	116.6	119.5	115.1	107.7	103.3
75°	95.9	98.9	94.5	88.6	85.6
77.5°	76.7	78.2	75.3	70.8	67.9
80°	59.0	60.5	57.6	54.6	51.7
82.5°	42.8	44.3	41.3	39.8	36.9
85°	28.0	29.5	26.6	23.6	22.1
87.5°	13.3	14.8	11.8	10.3	8.9
90°	0.0	1.5	1.5	1.5	1.5
92.5°	4.4	5.9	5.9	8.9	8.9
95°	14.8	16.2	19.2	41.3	45.8
97.5°	32.5	33.9	41.3	97.4	107.7
100°	54.6	57.6	69.4	165.3	187.4
102.5°	84.1	85.6	103.3	236.1	277.5
105°	115.1	115.1	135.8	298.1	366.0
107.5°	147.6	143.2	166.8	348.3	439.8
110°	180.1	174.2	191.9	382.3	497.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	209.6	202.2	215.5	402.9	535.7
115°	231.7	228.8	239.1	419.2	553.5
117.5°	247.9	252.4	264.2	431.0	549.0
120°	259.8	274.5	283.4	441.3	525.4
122.5°	273.0	293.7	305.5	438.3	498.8
125°	289.3	307.0	326.2	436.9	494.4
127.5°	304.0	315.8	345.4	438.3	492.9
130°	318.8	329.1	358.6	428.0	491.5
132.5°	335.0	342.4	370.4	413.2	460.5
135°	349.8	355.7	379.3	414.7	444.2
137.5°	364.5	367.5	385.2	416.2	436.9
140°	377.8	379.3	392.6	405.9	422.1
142.5°	391.1	392.6	401.4	402.9	407.3
145°	402.9	404.4	411.8	407.3	410.3
147.5°	411.8	413.2	420.6	414.7	414.7
150°	420.6	420.6	429.5	423.6	420.6
152.5°	429.5	428.0	436.9	432.4	432.4
155°	436.9	435.4	441.3	441.3	439.8
157.5°	442.8	441.3	445.7	448.7	447.2
160°	448.7	447.2	450.1	450.1	451.6
162.5°	451.6	451.6	454.6	450.1	450.1
165°	454.6	454.6	457.5	453.1	451.6
167.5°	457.5	457.5	460.5	456.0	454.6
170°	459.0	459.0	462.0	457.5	456.0
172.5°	462.0	460.5	463.4	459.0	456.0
175°	463.4	459.0	463.4	460.5	454.6
177.5°	462.0	457.5	459.0	454.6	451.6
180°	454.6	454.6	454.6	454.6	454.6

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