

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: P183745

Luminaire Tested: **I2-WS-5L35-1D-UNV-4-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26978)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I2-WS-5L35-1D-UNV-4-STD  
Description: CORELITE IRIDIUM 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**

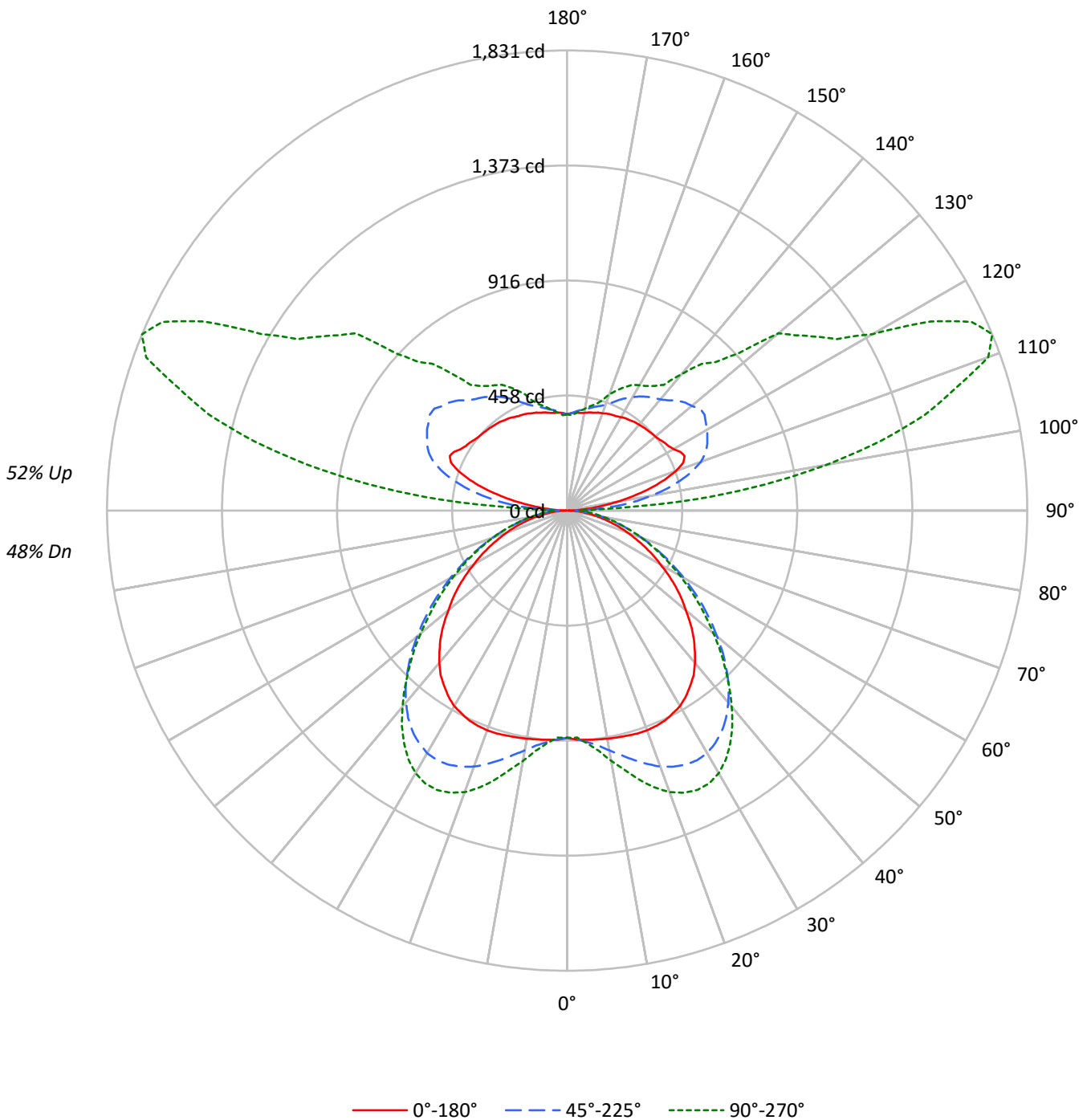
Lumens per Lamp: N/A  
Luminaire Lumens: 7214.3 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.69 / 1.63  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: General Diffuse

Input Watts (W): 79.2  
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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	85	89	85	82	79	72	69	67	59	57	56	47	46	45	40
2	88	81	75	69	81	74	69	64	63	59	55	52	49	46	42	40	38	33
3	80	71	63	57	74	65	59	54	55	50	46	45	42	39	37	34	32	28
4	73	62	54	48	67	58	51	45	49	43	39	40	36	33	33	30	27	24
5	67	56	47	41	62	51	44	39	43	38	34	36	32	29	29	26	24	20
6	62	50	41	36	57	46	39	33	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	41	34	29	35	30	25	29	25	22	24	21	18	16
8	53	40	33	27	48	38	31	26	32	26	22	27	22	19	22	19	16	14
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	15	12
10	46	34	26	22	42	31	25	20	27	22	18	23	18	15	19	15	13	11

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

	0°	45°	90°
0°	7242	7242	7242
5°	7326	7161	7132
10°	7419	7321	7488
15°	7571	7637	8003
20°	7764	7981	8453
25°	7929	8202	8611
30°	8040	8242	8450
35°	8009	8045	7967
40°	7895	7648	7270
45°	7614	7086	6480
50°	7182	6398	5700
55°	6794	5674	4956
60°	6244	4899	4232
65°	5727	4142	3562
70°	5176	3369	2910
75°	4466	2603	2262
80°	3695	1862	1633
85°	2706	1177	1117



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	1.2
10°-20°	290.6	4.0
20°-30°	503.0	7.0
30°-40°	643.1	8.9
40°-50°	653.0	9.1
50°-60°	553.8	7.7
60°-70°	396.4	5.5
70°-80°	225.3	3.1
80°-90°	84.2	1.2
90°-100°	268.5	3.7
100°-110°	746.0	10.3
110°-120°	862.4	12.0
120°-130°	684.9	9.5
130°-140°	493.1	6.8
140°-150°	337.9	4.7
150°-160°	223.5	3.1
160°-170°	121.2	1.7
170°-180°	38.0	0.5
0°-30°	883.0	12.2
0°-40°	1526.2	21.2
0°-60°	2732.9	37.9
0°-90°	3438.8	47.7
90°-120°	1876.9	26.0
90°-150°	3392.8	47.0
90°-180°	3775.0	52.3
0°-180°	7214.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	916	911	924	930	930	88
15°	927	952	1028	1089	1109	263
25°	921	981	1116	1201	1227	425
35°	852	932	1073	1129	1132	533
45°	711	787	897	906	890	546
55°	527	585	658	651	636	470
65°	340	378	422	419	412	338
75°	176	196	220	225	225	188
85°	49	60	76	89	89	52
90°	3	22	35	45	46	8
95°	78	99	187	428	512	90
105°	343	354	469	1165	1474	356
115°	515	532	615	1259	1777	496
125°	472	549	667	1014	1206	424
135°	452	504	619	756	835	350
145°	438	474	553	590	605	276
155°	420	433	485	526	541	195
165°	403	410	428	437	438	115
175°	392	392	396	395	389	37
180°	383	383	383	383	383	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1
2.5°	912.8	909.9	904.1	904.1	907.0	915.7	912.8	909.9	907.0	904.1
5°	915.7	909.9	909.9	912.8	918.5	930.1	930.1	930.1	930.1	930.1
7.5°	918.5	915.7	915.7	924.3	932.9	953.1	956.0	961.7	964.6	964.6
10°	921.4	918.5	924.3	938.7	956.0	981.9	993.4	1002.0	1007.8	1010.7
12.5°	924.3	924.3	932.9	953.1	979.0	1013.6	1030.8	1045.2	1053.9	1056.8
15°	927.2	930.1	944.5	973.3	1007.8	1048.1	1074.0	1094.2	1105.7	1108.6
17.5°	930.1	932.9	953.1	987.6	1030.8	1082.7	1111.5	1137.4	1151.8	1154.7
20°	930.1	935.8	961.7	1004.9	1056.8	1111.5	1146.0	1171.9	1186.3	1192.1
22.5°	927.2	932.9	964.6	1016.4	1074.0	1131.6	1169.1	1195.0	1212.2	1215.1
25°	921.4	930.1	967.5	1022.2	1085.5	1146.0	1183.4	1206.5	1220.9	1226.6
27.5°	909.9	921.4	961.7	1022.2	1091.3	1148.9	1186.3	1206.5	1218.0	1223.8
30°	898.4	909.9	953.1	1016.4	1085.5	1143.1	1174.8	1195.0	1203.6	1206.5
32.5°	878.2	892.6	935.8	1002.0	1071.2	1123.0	1154.7	1169.1	1174.8	1174.8
35°	852.3	866.7	915.7	981.9	1048.1	1097.1	1123.0	1131.6	1131.6	1131.6
37.5°	826.4	840.8	886.9	953.1	1016.4	1062.5	1082.7	1085.5	1082.7	1079.8
40°	791.8	806.2	852.3	918.5	979.0	1016.4	1030.8	1028.0	1022.2	1019.3
42.5°	751.5	765.9	814.9	875.3	935.8	967.5	973.3	967.5	958.9	956.0
45°	711.2	725.6	771.7	832.2	884.0	909.9	912.8	904.1	892.6	889.7
47.5°	665.2	679.5	722.7	783.2	829.3	852.3	849.4	840.8	829.3	826.4
50°	616.2	633.5	673.8	731.4	768.8	789.0	786.1	774.6	763.1	760.2
52.5°	573.0	587.4	624.8	676.7	711.2	725.6	722.7	711.2	699.7	696.8
55°	526.9	538.5	573.0	619.1	650.8	665.2	659.4	647.9	636.4	636.4
57.5°	478.0	489.5	521.2	561.5	590.3	601.8	596.0	587.4	578.8	575.9
60°	429.0	443.4	472.2	506.8	532.7	538.5	535.6	526.9	521.2	518.3
62.5°	385.8	397.4	423.3	452.1	472.2	483.7	478.0	472.2	463.6	463.6
65°	339.8	351.3	371.4	397.4	417.5	426.2	423.3	417.5	411.8	411.8
67.5°	296.6	305.2	325.4	348.4	362.8	371.4	368.6	365.7	359.9	359.9
70°	256.3	262.0	279.3	296.6	311.0	319.6	319.6	316.7	313.9	313.9
72.5°	216.0	221.7	236.1	250.5	262.0	270.7	273.5	267.8	267.8	267.8
75°	175.6	184.3	192.9	207.3	216.0	224.6	227.5	224.6	224.6	224.6
77.5°	141.1	146.9	155.5	167.0	172.8	181.4	184.3	184.3	184.3	184.3
80°	106.5	112.3	120.9	126.7	135.3	144.0	146.9	146.9	149.7	146.9
82.5°	77.7	80.6	86.4	95.0	100.8	109.4	115.2	115.2	118.1	118.1
85°	49.0	51.8	57.6	66.2	72.0	80.6	86.4	89.3	89.3	89.3
87.5°	20.2	28.8	34.6	43.2	49.0	57.6	63.3	66.2	66.2	66.2
90°	2.9	14.4	20.2	25.9	31.7	37.4	43.2	46.1	46.1	46.1
92.5°	31.7	40.3	43.2	49.0	63.3	89.3	115.2	120.9	126.7	126.7
95°	77.7	92.1	97.9	100.8	135.3	239.0	365.7	449.2	492.4	512.5
97.5°	138.2	152.6	161.2	155.5	198.7	336.9	544.2	682.4	765.9	791.8
100°	201.6	218.8	227.5	213.1	262.0	420.4	705.5	884.0	1002.0	1048.1
102.5°	270.7	287.9	296.6	270.7	316.7	498.1	837.9	1071.2	1215.1	1275.6
105°	342.7	354.2	362.8	328.3	368.6	570.1	944.5	1238.2	1408.0	1474.3
107.5°	406.0	414.6	420.4	385.8	414.6	630.6	993.4	1370.6	1572.2	1621.1
110°	460.7	469.3	469.3	440.6	457.8	673.8	993.4	1454.1	1693.1	1782.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	501.0	512.5	506.8	489.5	492.4	696.8	984.8	1448.4	1744.9	1831.3
115°	515.4	535.6	532.7	529.8	532.7	696.8	984.8	1350.5	1675.8	1776.6
117.5°	506.8	541.3	558.6	555.7	564.4	693.9	973.3	1220.9	1508.8	1629.8
120°	489.5	532.7	575.9	578.8	593.2	693.9	938.7	1143.1	1327.4	1405.2
122.5°	478.0	501.0	570.1	584.5	616.2	691.1	904.1	1088.4	1229.5	1269.8
125°	472.2	480.9	538.5	581.6	624.8	708.3	878.2	1059.6	1174.8	1206.5
127.5°	463.6	472.2	512.5	564.4	622.0	711.2	829.3	1019.3	1111.5	1146.0
130°	457.8	469.3	501.0	550.0	607.6	688.2	789.0	935.8	1065.4	1097.1
132.5°	455.0	466.5	498.1	547.1	601.8	670.9	737.1	814.9	912.8	927.2
135°	452.1	463.6	492.4	538.5	590.3	647.9	717.0	768.8	817.8	835.0
137.5°	449.2	460.7	483.7	529.8	575.9	613.3	673.8	734.3	777.4	791.8
140°	446.3	455.0	480.9	521.2	564.4	590.3	622.0	656.5	688.2	708.3
142.5°	443.4	452.1	472.2	509.7	552.9	578.8	596.0	613.3	624.8	630.6
145°	437.7	446.3	466.5	498.1	538.5	567.2	581.6	593.2	601.8	604.7
147.5°	434.8	437.7	455.0	483.7	524.1	552.9	570.1	578.8	584.5	587.4
150°	429.0	431.9	446.3	472.2	506.8	535.6	555.7	570.1	573.0	575.9
152.5°	423.3	426.2	437.7	457.8	489.5	518.3	535.6	552.9	561.5	564.4
155°	420.4	420.4	429.0	446.3	472.2	498.1	515.4	529.8	538.5	541.3
157.5°	417.5	417.5	423.3	437.7	455.0	475.1	495.3	506.8	515.4	518.3
160°	411.8	411.8	417.5	429.0	440.6	455.0	469.3	483.7	492.4	492.4
162.5°	408.9	408.9	411.8	420.4	431.9	440.6	446.3	452.1	457.8	457.8
165°	403.1	406.0	408.9	414.6	423.3	431.9	434.8	437.7	437.7	437.7
167.5°	400.2	403.1	406.0	408.9	414.6	420.4	423.3	426.2	426.2	426.2
170°	394.5	397.4	400.2	406.0	406.0	411.8	411.8	414.6	414.6	411.8
172.5°	391.6	394.5	397.4	400.2	403.1	403.1	403.1	403.1	400.2	400.2
175°	391.6	391.6	391.6	394.5	394.5	397.4	397.4	394.5	391.6	388.7
177.5°	388.7	388.7	388.7	388.7	385.8	388.7	385.8	385.8	383.0	380.1
180°	383.0	383.0	383.0	383.0	383.0	383.0	383.0	383.0	383.0	383.0

(END OF REPORT)