

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: P183750

Luminaire Tested: **I2-WS-5L40-1D-UNV-4-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183750  
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-5L40-1D-UNV-4-STD  
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.  
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.  
Light Source: (336)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

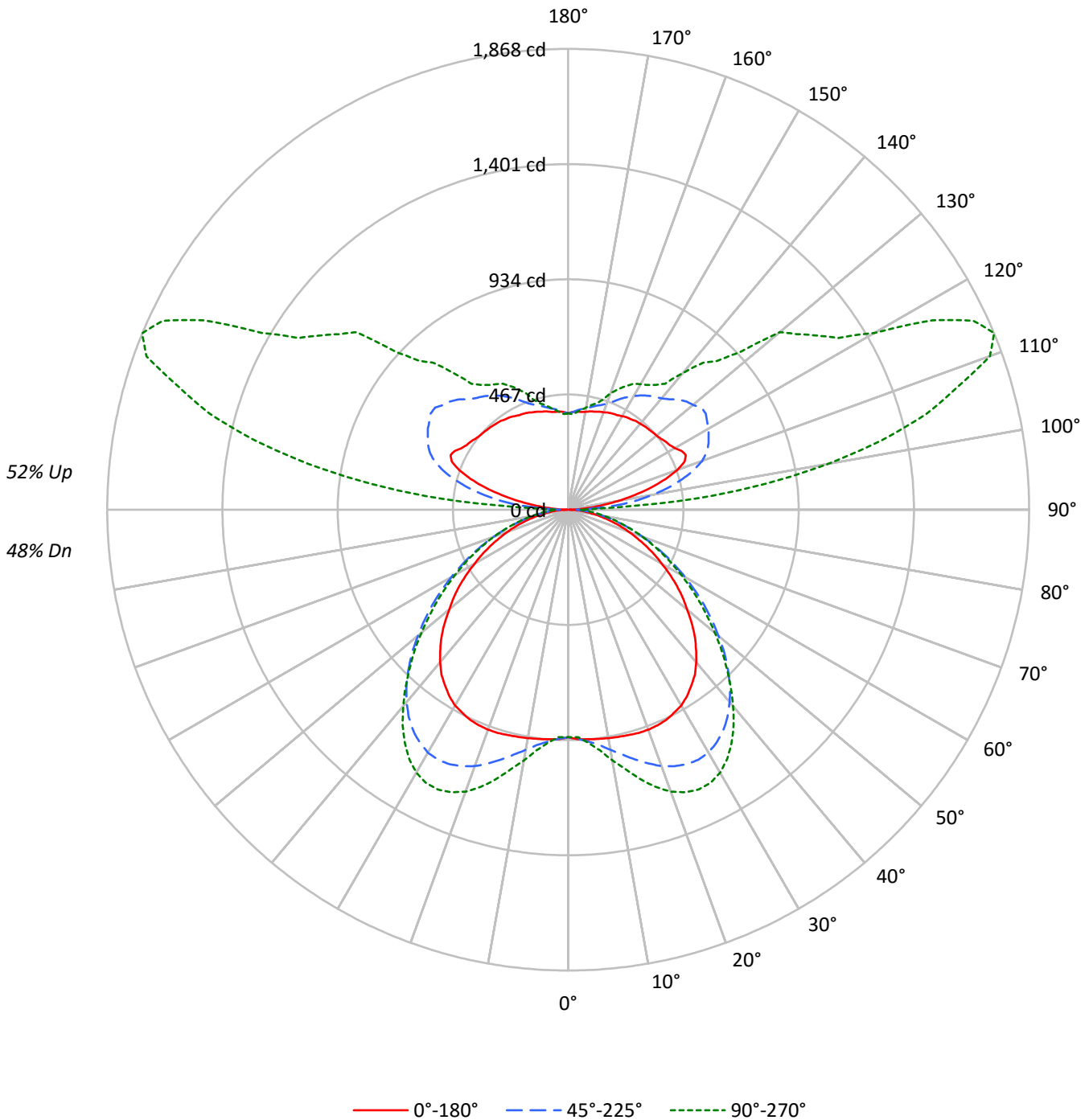
Lumens per Lamp: N/A  
Luminaire Lumens: 7360.0 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.69 / 1.63  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: General Diffuse

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

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

	0°	45°	90°
0°	7389	7389	7389
5°	7474	7305	7276
10°	7568	7469	7639
15°	7724	7791	8164
20°	7920	8142	8624
25°	8089	8368	8785
30°	8202	8409	8620
35°	8170	8207	8128
40°	8054	7803	7417
45°	7768	7229	6611
50°	7326	6527	5815
55°	6932	5788	5056
60°	6371	4998	4318
65°	5841	4225	3634
70°	5279	3437	2969
75°	4557	2655	2307
80°	3771	1900	1665
85°	2755	1201	1139



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.2	1.2
10°-20°	296.5	4.0
20°-30°	513.2	7.0
30°-40°	656.1	8.9
40°-50°	666.2	9.1
50°-60°	564.9	7.7
60°-70°	404.4	5.5
70°-80°	229.9	3.1
80°-90°	85.9	1.2
90°-100°	273.9	3.7
100°-110°	761.0	10.3
110°-120°	879.9	12.0
120°-130°	698.8	9.5
130°-140°	503.0	6.8
140°-150°	344.7	4.7
150°-160°	228.0	3.1
160°-170°	123.6	1.7
170°-180°	38.7	0.5
0°-30°	900.8	12.2
0°-40°	1557.0	21.2
0°-60°	2788.1	37.9
0°-90°	3508.3	47.7
90°-120°	1914.8	26.0
90°-150°	3461.3	47.0
90°-180°	3852.0	52.3
0°-180°	7360.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	934	929	943	949	949	89
15°	946	971	1049	1111	1131	268
25°	940	1001	1138	1225	1251	433
35°	870	951	1094	1152	1154	544
45°	726	803	915	925	908	557
55°	538	596	671	664	649	479
65°	347	386	430	427	420	344
75°	179	200	225	230	229	192
85°	50	61	78	90	91	53
90°	3	22	35	46	47	8
95°	79	101	191	437	523	92
105°	350	361	479	1188	1504	363
115°	526	543	627	1284	1812	506
125°	482	560	680	1035	1231	432
135°	461	514	632	771	852	357
145°	446	484	564	602	617	281
155°	429	442	495	537	552	199
165°	411	419	436	446	446	117
175°	400	400	404	403	397	38
180°	391	391	391	391	391	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	922.4	922.4	922.4	922.4	922.4	922.4	922.4	922.4	922.4	922.4
2.5°	931.2	928.3	922.4	922.4	925.3	934.2	931.2	928.3	925.3	922.4
5°	934.2	928.3	928.3	931.2	937.1	948.8	948.8	948.8	948.8	948.8
7.5°	937.1	934.2	934.2	943.0	951.8	972.3	975.3	981.2	984.1	984.1
10°	940.0	937.1	943.0	957.7	975.3	1001.7	1013.5	1022.3	1028.2	1031.1
12.5°	943.0	943.0	951.8	972.3	998.8	1034.0	1051.7	1066.3	1075.2	1078.1
15°	945.9	948.8	963.5	992.9	1028.2	1069.3	1095.7	1116.3	1128.0	1131.0
17.5°	948.8	951.8	972.3	1007.6	1051.7	1104.5	1133.9	1160.3	1175.0	1178.0
20°	948.8	954.7	981.2	1025.2	1078.1	1133.9	1169.2	1195.6	1210.3	1216.2
22.5°	945.9	951.8	984.1	1037.0	1095.7	1154.5	1192.7	1219.1	1236.7	1239.7
25°	940.0	948.8	987.0	1042.8	1107.5	1169.2	1207.3	1230.8	1245.5	1251.4
27.5°	928.3	940.0	981.2	1042.8	1113.3	1172.1	1210.3	1230.8	1242.6	1248.5
30°	916.5	928.3	972.3	1037.0	1107.5	1166.2	1198.5	1219.1	1227.9	1230.8
32.5°	896.0	910.7	954.7	1022.3	1092.8	1145.7	1178.0	1192.7	1198.5	1198.5
35°	869.5	884.2	934.2	1001.7	1069.3	1119.2	1145.7	1154.5	1154.5	1154.5
37.5°	843.1	857.8	904.8	972.3	1037.0	1084.0	1104.5	1107.5	1104.5	1101.6
40°	807.8	822.5	869.5	937.1	998.8	1037.0	1051.7	1048.7	1042.8	1039.9
42.5°	766.7	781.4	831.3	893.0	954.7	987.0	992.9	987.0	978.2	975.3
45°	725.6	740.3	787.3	849.0	901.8	928.3	931.2	922.4	910.7	907.7
47.5°	678.6	693.3	737.3	799.0	846.0	869.5	866.6	857.8	846.0	843.1
50°	628.6	646.3	687.4	746.1	784.3	804.9	802.0	790.2	778.5	775.5
52.5°	584.6	599.3	637.5	690.3	725.6	740.3	737.3	725.6	713.8	710.9
55°	537.6	549.3	584.6	631.6	663.9	678.6	672.7	661.0	649.2	649.2
57.5°	487.6	499.4	531.7	572.8	602.2	614.0	608.1	599.3	590.5	587.5
60°	437.7	452.4	481.8	517.0	543.5	549.3	546.4	537.6	531.7	528.8
62.5°	393.6	405.4	431.8	461.2	481.8	493.5	487.6	481.8	473.0	473.0
65°	346.6	358.4	378.9	405.4	425.9	434.8	431.8	425.9	420.1	420.1
67.5°	302.6	311.4	331.9	355.4	370.1	378.9	376.0	373.1	367.2	367.2
70°	261.4	267.3	284.9	302.6	317.3	326.1	326.1	323.1	320.2	320.2
72.5°	220.3	226.2	240.9	255.6	267.3	276.1	279.1	273.2	273.2	273.2
75°	179.2	188.0	196.8	211.5	220.3	229.1	232.1	229.1	229.1	229.1
77.5°	143.9	149.8	158.6	170.4	176.3	185.1	188.0	188.0	188.0	188.0
80°	108.7	114.6	123.4	129.3	138.1	146.9	149.8	149.8	152.8	149.8
82.5°	79.3	82.3	88.1	96.9	102.8	111.6	117.5	117.5	120.4	120.4
85°	49.9	52.9	58.8	67.6	73.4	82.3	88.1	91.1	91.1	91.1
87.5°	20.6	29.4	35.3	44.1	49.9	58.8	64.6	67.6	67.6	67.6
90°	2.9	14.7	20.6	26.4	32.3	38.2	44.1	47.0	47.0	47.0
92.5°	32.3	41.1	44.1	49.9	64.6	91.1	117.5	123.4	129.3	129.3
95°	79.3	94.0	99.9	102.8	138.1	243.8	373.1	458.3	502.3	522.9
97.5°	141.0	155.7	164.5	158.6	202.7	343.7	555.2	696.2	781.4	807.8
100°	205.6	223.3	232.1	217.4	267.3	428.9	719.7	901.8	1022.3	1069.3
102.5°	276.1	293.8	302.6	276.1	323.1	508.2	854.8	1092.8	1239.7	1301.3
105°	349.6	361.3	370.1	334.9	376.0	581.6	963.5	1263.2	1436.5	1504.0
107.5°	414.2	423.0	428.9	393.6	423.0	643.3	1013.5	1398.3	1603.9	1653.9
110°	470.0	478.8	478.8	449.4	467.1	687.4	1013.5	1483.5	1727.3	1818.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	511.1	522.9	517.0	499.4	502.3	710.9	1004.7	1477.6	1780.2	1868.3
115°	525.8	546.4	543.5	540.5	543.5	710.9	1004.7	1377.7	1709.7	1812.5
117.5°	517.0	552.3	569.9	567.0	575.8	708.0	992.9	1245.5	1539.3	1662.7
120°	499.4	543.5	587.5	590.5	605.1	708.0	957.7	1166.2	1354.2	1433.5
122.5°	487.6	511.1	581.6	596.3	628.6	705.0	922.4	1110.4	1254.3	1295.5
125°	481.8	490.6	549.3	593.4	637.5	722.6	896.0	1081.0	1198.5	1230.8
127.5°	473.0	481.8	522.9	575.8	634.5	725.6	846.0	1039.9	1133.9	1169.2
130°	467.1	478.8	511.1	561.1	619.8	702.1	804.9	954.7	1086.9	1119.2
132.5°	464.1	475.9	508.2	558.1	614.0	684.5	752.0	831.3	931.2	945.9
135°	461.2	473.0	502.3	549.3	602.2	661.0	731.5	784.3	834.3	851.9
137.5°	458.3	470.0	493.5	540.5	587.5	625.7	687.4	749.1	793.1	807.8
140°	455.3	464.1	490.6	531.7	575.8	602.2	634.5	669.8	702.1	722.6
142.5°	452.4	461.2	481.8	520.0	564.0	590.5	608.1	625.7	637.5	643.3
145°	446.5	455.3	475.9	508.2	549.3	578.7	593.4	605.1	614.0	616.9
147.5°	443.6	446.5	464.1	493.5	534.6	564.0	581.6	590.5	596.3	599.3
150°	437.7	440.6	455.3	481.8	517.0	546.4	567.0	581.6	584.6	587.5
152.5°	431.8	434.8	446.5	467.1	499.4	528.8	546.4	564.0	572.8	575.8
155°	428.9	428.9	437.7	455.3	481.8	508.2	525.8	540.5	549.3	552.3
157.5°	425.9	425.9	431.8	446.5	464.1	484.7	505.3	517.0	525.8	528.8
160°	420.1	420.1	425.9	437.7	449.4	464.1	478.8	493.5	502.3	502.3
162.5°	417.1	417.1	420.1	428.9	440.6	449.4	455.3	461.2	467.1	467.1
165°	411.3	414.2	417.1	423.0	431.8	440.6	443.6	446.5	446.5	446.5
167.5°	408.3	411.3	414.2	417.1	423.0	428.9	431.8	434.8	434.8	434.8
170°	402.4	405.4	408.3	414.2	414.2	420.1	420.1	423.0	423.0	420.1
172.5°	399.5	402.4	405.4	408.3	411.3	411.3	411.3	411.3	408.3	408.3
175°	399.5	399.5	399.5	402.4	402.4	405.4	405.4	402.4	399.5	396.6
177.5°	396.6	396.6	396.6	396.6	393.6	396.6	393.6	393.6	390.7	387.8
180°	390.7	390.7	390.7	390.7	390.7	390.7	390.7	390.7	390.7	390.7

(END OF REPORT)