

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: P183740

Luminaire Tested: **I2-WS-5L30-1D-UNV-4-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183740  
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-5L30-1D-UNV-4-STD  
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.  
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.  
Light Source: (336)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

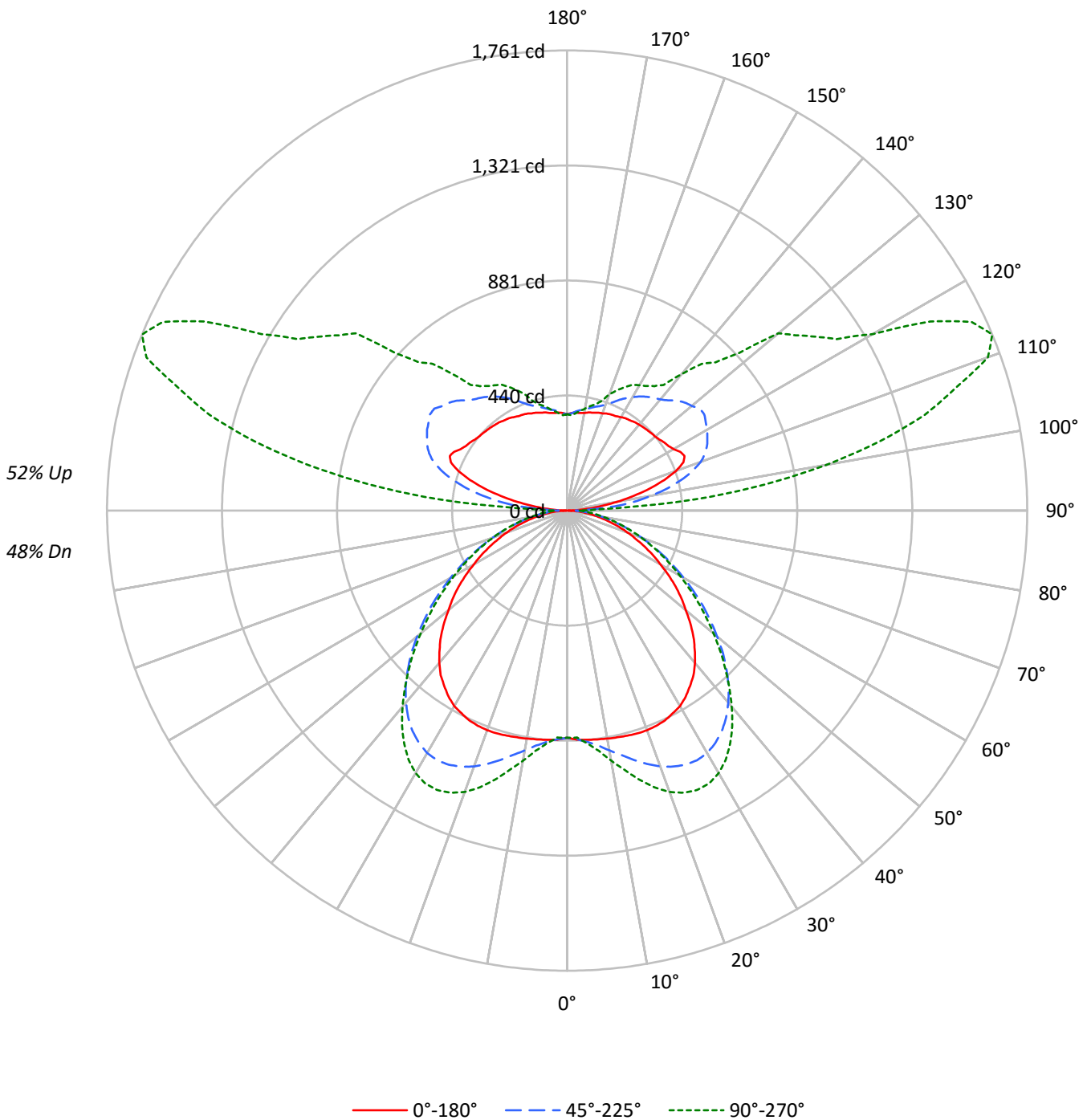
Lumens per Lamp: N/A  
Luminaire Lumens: 6936.8 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.69 / 1.63  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: General Diffuse

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°	6964	6964	6964
5°	7043	6885	6858
10°	7134	7039	7199
15°	7280	7343	7694
20°	7466	7674	8128
25°	7624	7887	8280
30°	7730	7926	8125
35°	7700	7735	7661
40°	7592	7354	6991
45°	7322	6814	6231
50°	6905	6152	5481
55°	6534	5455	4765
60°	6004	4710	4070
65°	5506	3983	3425
70°	4976	3239	2798
75°	4296	2503	2175
80°	3553	1790	1569
85°	2601	1131	1073



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	1.2
10°-20°	279.4	4.0
20°-30°	483.7	7.0
30°-40°	618.4	8.9
40°-50°	627.9	9.1
50°-60°	532.5	7.7
60°-70°	381.1	5.5
70°-80°	216.7	3.1
80°-90°	80.9	1.2
90°-100°	258.1	3.7
100°-110°	717.3	10.3
110°-120°	829.3	12.0
120°-130°	658.6	9.5
130°-140°	474.1	6.8
140°-150°	324.9	4.7
150°-160°	214.9	3.1
160°-170°	116.5	1.7
170°-180°	36.5	0.5
0°-30°	849.1	12.2
0°-40°	1467.4	21.2
0°-60°	2627.8	37.9
0°-90°	3306.6	47.7
90°-120°	1804.7	26.0
90°-150°	3262.3	47.0
90°-180°	3630.0	52.3
0°-180°	6936.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	880	876	889	894	894	84
15°	892	915	988	1047	1066	253
25°	886	943	1073	1155	1180	408
35°	820	896	1031	1086	1088	513
45°	684	757	862	871	856	525
55°	507	562	633	626	612	451
65°	327	363	406	403	396	325
75°	169	189	212	217	216	181
85°	47	57	73	85	86	50
90°	3	21	33	44	44	8
95°	75	95	180	412	493	87
105°	330	341	451	1120	1418	342
115°	496	512	591	1211	1708	477
125°	454	528	641	975	1160	407
135°	435	484	595	727	803	337
145°	421	456	532	568	581	265
155°	404	417	467	506	520	187
165°	388	395	411	420	421	110
175°	376	377	381	380	374	36
180°	368	368	368	368	368	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4
2.5°	877.7	874.9	869.4	869.4	872.1	880.4	877.7	874.9	872.1	869.4
5°	880.4	874.9	874.9	877.7	883.2	894.3	894.3	894.3	894.3	894.3
7.5°	883.2	880.4	880.4	888.7	897.1	916.4	919.2	924.7	927.5	927.5
10°	886.0	883.2	888.7	902.6	919.2	944.1	955.2	963.5	969.0	971.8
12.5°	888.7	888.7	897.1	916.4	941.4	974.6	991.2	1005.0	1013.3	1016.1
15°	891.5	894.3	908.1	935.8	969.0	1007.8	1032.7	1052.1	1063.2	1065.9
17.5°	894.3	897.1	916.4	949.7	991.2	1041.0	1068.7	1093.6	1107.5	1110.2
20°	894.3	899.8	924.7	966.3	1016.1	1068.7	1101.9	1126.9	1140.7	1146.2
22.5°	891.5	897.1	927.5	977.3	1032.7	1088.1	1124.1	1149.0	1165.6	1168.4
25°	886.0	894.3	930.3	982.9	1043.8	1101.9	1137.9	1160.1	1173.9	1179.5
27.5°	874.9	886.0	924.7	982.9	1049.3	1104.7	1140.7	1160.1	1171.2	1176.7
30°	863.8	874.9	916.4	977.3	1043.8	1099.2	1129.6	1149.0	1157.3	1160.1
32.5°	844.5	858.3	899.8	963.5	1030.0	1079.8	1110.2	1124.1	1129.6	1129.6
35°	819.5	833.4	880.4	944.1	1007.8	1054.9	1079.8	1088.1	1088.1	1088.1
37.5°	794.6	808.5	852.8	916.4	977.3	1021.6	1041.0	1043.8	1041.0	1038.3
40°	761.4	775.2	819.5	883.2	941.4	977.3	991.2	988.4	982.9	980.1
42.5°	722.6	736.5	783.5	841.7	899.8	930.3	935.8	930.3	922.0	919.2
45°	683.9	697.7	742.0	800.2	850.0	874.9	877.7	869.4	858.3	855.5
47.5°	639.6	653.4	694.9	753.1	797.4	819.5	816.8	808.5	797.4	794.6
50°	592.5	609.1	647.9	703.2	739.2	758.6	755.9	744.8	733.7	730.9
52.5°	551.0	564.8	600.8	650.6	683.9	697.7	694.9	683.9	672.8	670.0
55°	506.7	517.7	551.0	595.3	625.7	639.6	634.0	623.0	611.9	611.9
57.5°	459.6	470.7	501.1	539.9	567.6	578.7	573.1	564.8	556.5	553.7
60°	412.5	426.4	454.1	487.3	512.2	517.7	515.0	506.7	501.1	498.4
62.5°	371.0	382.1	407.0	434.7	454.1	465.1	459.6	454.1	445.8	445.8
65°	326.7	337.8	357.2	382.1	401.5	409.8	407.0	401.5	395.9	395.9
67.5°	285.2	293.5	312.9	335.0	348.9	357.2	354.4	351.6	346.1	346.1
70°	246.4	252.0	268.6	285.2	299.0	307.3	307.3	304.6	301.8	301.8
72.5°	207.7	213.2	227.0	240.9	252.0	260.3	263.0	257.5	257.5	257.5
75°	168.9	177.2	185.5	199.3	207.7	216.0	218.7	216.0	216.0	216.0
77.5°	135.7	141.2	149.5	160.6	166.1	174.4	177.2	177.2	177.2	177.2
80°	102.4	108.0	116.3	121.8	130.1	138.4	141.2	141.2	144.0	141.2
82.5°	74.8	77.5	83.1	91.4	96.9	105.2	110.7	110.7	113.5	113.5
85°	47.1	49.8	55.4	63.7	69.2	77.5	83.1	85.8	85.8	85.8
87.5°	19.4	27.7	33.2	41.5	47.1	55.4	60.9	63.7	63.7	63.7
90°	2.8	13.8	19.4	24.9	30.5	36.0	41.5	44.3	44.3	44.3
92.5°	30.5	38.8	41.5	47.1	60.9	85.8	110.7	116.3	121.8	121.8
95°	74.8	88.6	94.1	96.9	130.1	229.8	351.6	431.9	473.4	492.8
97.5°	132.9	146.7	155.0	149.5	191.0	323.9	523.3	656.2	736.5	761.4
100°	193.8	210.4	218.7	204.9	252.0	404.2	678.3	850.0	963.5	1007.8
102.5°	260.3	276.9	285.2	260.3	304.6	479.0	805.7	1030.0	1168.4	1226.5
105°	329.5	340.5	348.9	315.6	354.4	548.2	908.1	1190.5	1353.9	1417.6
107.5°	390.4	398.7	404.2	371.0	398.7	606.3	955.2	1317.9	1511.7	1558.8
110°	443.0	451.3	451.3	423.6	440.2	647.9	955.2	1398.2	1628.0	1713.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	481.8	492.8	487.3	470.7	473.4	670.0	946.9	1392.7	1677.8	1760.9
115°	495.6	515.0	512.2	509.4	512.2	670.0	946.9	1298.5	1611.4	1708.3
117.5°	487.3	520.5	537.1	534.4	542.7	667.3	935.8	1173.9	1450.8	1567.1
120°	470.7	512.2	553.7	556.5	570.4	667.3	902.6	1099.2	1276.4	1351.1
122.5°	459.6	481.8	548.2	562.0	592.5	664.5	869.4	1046.6	1182.2	1221.0
125°	454.1	462.4	517.7	559.3	600.8	681.1	844.5	1018.9	1129.6	1160.1
127.5°	445.8	454.1	492.8	542.7	598.0	683.9	797.4	980.1	1068.7	1101.9
130°	440.2	451.3	481.8	528.8	584.2	661.7	758.6	899.8	1024.4	1054.9
132.5°	437.5	448.5	479.0	526.1	578.7	645.1	708.8	783.5	877.7	891.5
135°	434.7	445.8	473.4	517.7	567.6	623.0	689.4	739.2	786.3	802.9
137.5°	431.9	443.0	465.1	509.4	553.7	589.7	647.9	706.0	747.5	761.4
140°	429.1	437.5	462.4	501.1	542.7	567.6	598.0	631.3	661.7	681.1
142.5°	426.4	434.7	454.1	490.1	531.6	556.5	573.1	589.7	600.8	606.3
145°	420.8	429.1	448.5	479.0	517.7	545.4	559.3	570.4	578.7	581.4
147.5°	418.1	420.8	437.5	465.1	503.9	531.6	548.2	556.5	562.0	564.8
150°	412.5	415.3	429.1	454.1	487.3	515.0	534.4	548.2	551.0	553.7
152.5°	407.0	409.8	420.8	440.2	470.7	498.4	515.0	531.6	539.9	542.7
155°	404.2	404.2	412.5	429.1	454.1	479.0	495.6	509.4	517.7	520.5
157.5°	401.5	401.5	407.0	420.8	437.5	456.8	476.2	487.3	495.6	498.4
160°	395.9	395.9	401.5	412.5	423.6	437.5	451.3	465.1	473.4	473.4
162.5°	393.2	393.2	395.9	404.2	415.3	423.6	429.1	434.7	440.2	440.2
165°	387.6	390.4	393.2	398.7	407.0	415.3	418.1	420.8	420.8	420.8
167.5°	384.8	387.6	390.4	393.2	398.7	404.2	407.0	409.8	409.8	409.8
170°	379.3	382.1	384.8	390.4	390.4	395.9	395.9	398.7	398.7	395.9
172.5°	376.5	379.3	382.1	384.8	387.6	387.6	387.6	387.6	384.8	384.8
175°	376.5	376.5	376.5	379.3	379.3	382.1	382.1	379.3	376.5	373.8
177.5°	373.8	373.8	373.8	373.8	371.0	373.8	371.0	371.0	368.2	365.5
180°	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2	368.2

(END OF REPORT)