

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: P183725

Luminaire Tested: **I2-WS-5L30-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27048)  
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-DM8  
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.  
WaveStream WITH FROSTED LENS. 70% UP / 30% DOWN.  
Light Source: (336)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

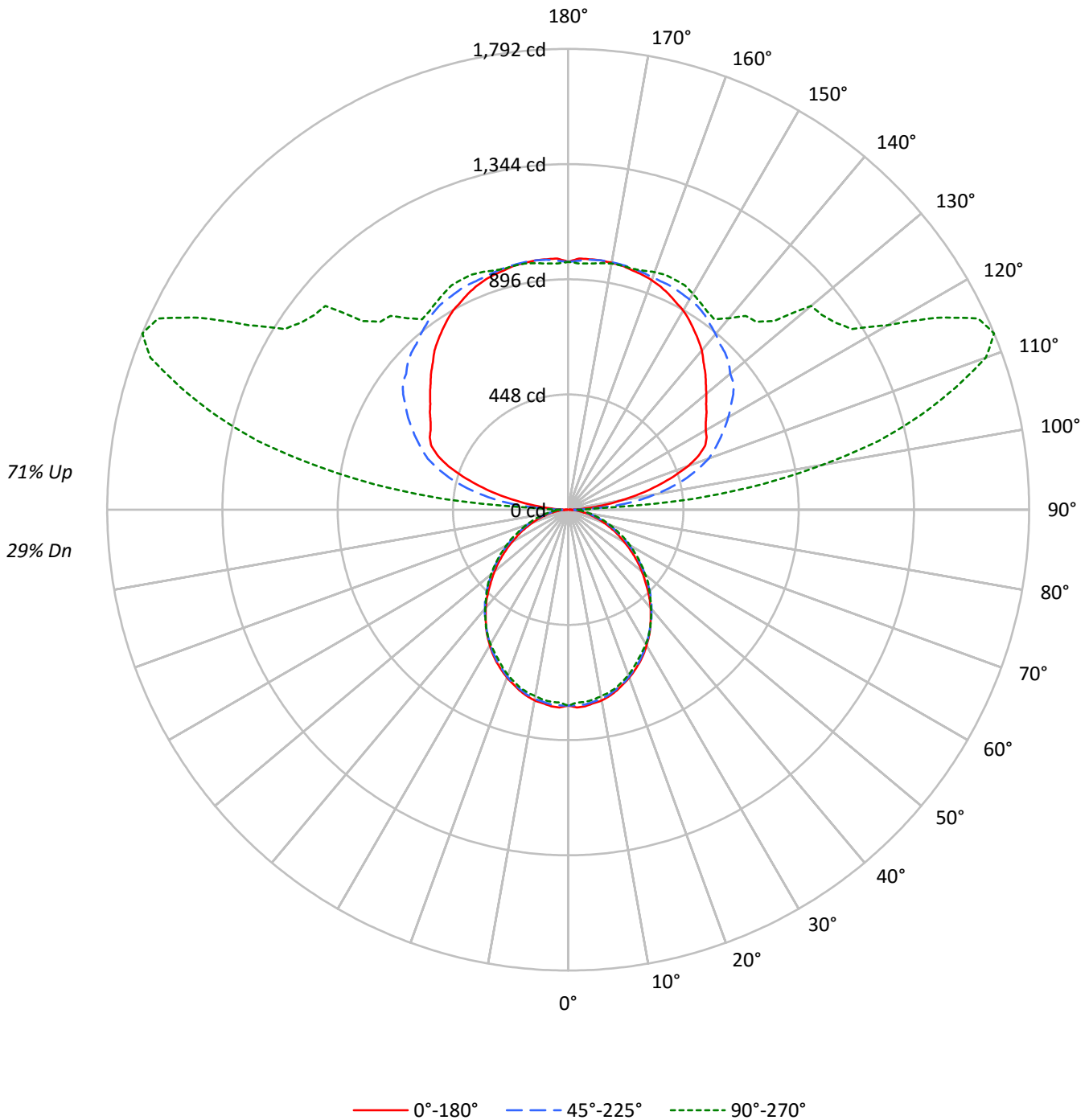
Lumens per Lamp: N/A  
Luminaire Lumens: 6693.1 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: Semi-Indirect

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	93	89	85	82	83	80	77	74	63	60	59	47	46	44	32	32	31	24
2	85	78	72	67	76	70	65	60	55	51	48	41	39	37	29	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	34	31	25	24	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19	15
5	65	53	46	40	58	48	41	36	38	33	30	29	26	23	20	18	17	13
6	59	48	40	34	53	43	36	32	34	29	26	26	23	20	18	16	15	11
7	55	43	35	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

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

	0°	45°	90°
0°	6101	6101	6101
5°	6137	5889	5755
10°	6065	5650	5457
15°	5947	5370	5178
20°	5803	5087	4850
25°	5648	4794	4510
30°	5453	4486	4228
35°	5230	4165	3919
40°	4970	3864	3575
45°	4655	3544	3247
50°	4358	3185	2928
55°	4035	2842	2588
60°	3668	2482	2261
65°	3361	2107	1916
70°	2965	1761	1618
75°	2607	1374	1283
80°	2113	1015	954
85°	1530	683	693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	1.1
10°-20°	203.2	3.0
20°-30°	299.0	4.5
30°-40°	347.3	5.2
40°-50°	342.4	5.1
50°-60°	292.1	4.4
60°-70°	212.8	3.2
70°-80°	124.2	1.9
80°-90°	49.3	0.7
90°-100°	263.2	3.9
100°-110°	742.6	11.1
110°-120°	893.2	13.3
120°-130°	793.8	11.9
130°-140°	681.3	10.2
140°-150°	569.7	8.5
150°-160°	440.0	6.6
160°-170°	274.2	4.1
170°-180°	92.8	1.4
0°-30°	574.1	8.6
0°-40°	921.4	13.8
0°-60°	1555.8	23.2
0°-90°	1942.2	29.0
90°-120°	1899.0	28.4
90°-150°	3943.8	58.9
90°-180°	4751.0	71.0
0°-180°	6693.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	767	758	760	757	750	73
15°	728	722	723	721	717	205
25°	656	650	652	646	642	302
35°	557	551	555	559	557	347
45°	435	438	449	447	446	336
55°	313	321	330	332	332	280
65°	199	208	215	221	222	197
75°	102	111	116	124	127	108
85°	28	37	44	52	55	29
90°	3	14	24	30	30	7
95°	83	100	187	419	487	95
105°	357	368	478	1139	1418	376
115°	587	587	651	1259	1758	570
125°	656	705	784	1098	1268	588
135°	753	786	863	960	1033	582
145°	853	871	925	935	942	535
155°	925	924	957	976	986	427
165°	964	964	972	968	969	273
175°	978	975	976	970	961	93
180°	964	964	964	964	964	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6	761.6
2.5°	769.9	764.3	761.6	758.8	758.8	764.3	761.6	758.8	753.3	750.5
5°	767.1	761.6	758.8	756.0	758.8	761.6	758.8	756.0	753.3	750.5
7.5°	758.8	756.0	750.5	750.5	750.5	756.0	750.5	750.5	747.7	744.9
10°	753.3	747.7	744.9	744.9	744.9	750.5	744.9	742.2	739.4	736.6
12.5°	742.2	736.6	733.9	733.9	733.9	739.4	733.9	731.1	728.3	728.3
15°	728.3	725.6	722.8	720.0	720.0	725.6	722.8	720.0	717.3	717.3
17.5°	711.7	708.9	706.2	706.2	706.2	711.7	706.2	703.4	700.6	700.6
20°	695.1	692.3	689.6	689.6	689.6	692.3	689.6	686.8	684.0	684.0
22.5°	675.7	672.9	670.2	670.2	670.2	672.9	670.2	664.6	664.6	664.6
25°	656.3	653.6	650.8	648.0	650.8	653.6	648.0	645.3	642.5	642.5
27.5°	634.2	631.4	628.6	625.9	628.6	631.4	628.6	623.1	623.1	623.1
30°	609.3	606.5	603.7	603.7	606.5	606.5	603.7	603.7	603.7	603.7
32.5°	584.3	581.6	578.8	578.8	581.6	581.6	584.3	584.3	581.6	581.6
35°	556.6	553.9	551.1	551.1	553.9	556.6	559.4	559.4	559.4	556.6
37.5°	526.2	526.2	523.4	523.4	528.9	534.5	534.5	531.7	531.7	528.9
40°	498.5	495.7	495.7	495.7	501.2	506.8	506.8	504.0	501.2	501.2
42.5°	468.0	468.0	468.0	468.0	476.3	479.1	476.3	476.3	473.6	473.6
45°	434.8	437.6	437.6	437.6	448.6	448.6	448.6	445.9	448.6	445.9
47.5°	404.3	407.1	407.1	412.6	418.2	418.2	418.2	420.9	420.9	420.9
50°	373.9	376.6	376.6	384.9	387.7	387.7	390.5	390.5	390.5	390.5
52.5°	343.4	343.4	346.2	354.5	357.2	360.0	360.0	362.8	362.8	362.8
55°	312.9	315.7	318.5	326.8	326.8	332.3	332.3	332.3	335.1	332.3
57.5°	282.5	285.2	288.0	293.5	299.1	301.9	301.9	304.6	304.6	304.6
60°	252.0	257.5	263.1	265.9	271.4	271.4	274.2	276.9	276.9	276.9
62.5°	224.3	229.9	235.4	238.2	240.9	243.7	246.5	249.2	252.0	252.0
65°	199.4	202.2	207.7	210.5	213.2	216.0	218.8	221.5	224.3	221.5
67.5°	171.7	177.2	182.8	185.5	188.3	191.1	193.9	196.6	196.6	196.6
70°	146.8	152.3	157.9	160.6	163.4	166.2	168.9	171.7	171.7	174.5
72.5°	124.6	130.2	132.9	135.7	138.5	141.2	144.0	146.8	149.5	149.5
75°	102.5	108.0	110.8	110.8	113.5	119.1	121.9	124.6	124.6	127.4
77.5°	80.3	85.8	88.6	91.4	94.2	96.9	99.7	102.5	105.2	105.2
80°	60.9	66.5	69.2	72.0	74.8	77.5	80.3	83.1	85.8	85.8
82.5°	41.5	49.8	49.8	52.6	55.4	60.9	63.7	66.5	69.2	69.2
85°	27.7	33.2	36.0	38.8	41.5	47.1	49.8	52.6	55.4	55.4
87.5°	11.1	19.4	22.2	24.9	30.5	33.2	36.0	38.8	41.5	41.5
90°	2.8	11.1	13.8	16.6	22.2	24.9	27.7	30.5	30.5	30.5
92.5°	36.0	41.5	41.5	47.1	58.2	88.6	110.8	116.3	113.5	105.2
95°	83.1	94.2	99.7	102.5	135.7	238.2	362.8	437.6	476.3	487.4
97.5°	144.0	157.9	166.2	160.6	204.9	340.6	537.2	670.2	742.2	761.6
100°	210.5	224.3	235.4	221.5	268.6	420.9	695.1	866.8	974.8	1005.3
102.5°	285.2	299.1	307.4	282.5	329.5	498.5	828.0	1046.8	1182.5	1235.1
105°	357.2	371.1	376.6	340.6	382.2	573.2	925.0	1210.2	1370.8	1417.9
107.5°	429.2	437.6	437.6	401.6	429.2	634.2	980.3	1340.4	1528.7	1578.5
110°	495.7	498.5	495.7	462.5	479.1	684.0	983.1	1423.4	1650.5	1728.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	548.3	553.9	542.8	520.6	520.6	711.7	983.1	1423.4	1703.1	1791.8
115°	587.1	600.9	589.9	578.8	573.2	728.3	999.7	1345.9	1653.3	1758.5
117.5°	606.5	634.2	636.9	625.9	625.9	744.9	1005.3	1237.9	1514.8	1617.3
120°	617.6	650.8	681.3	670.2	675.7	761.6	988.6	1174.2	1359.7	1434.5
122.5°	634.2	650.8	703.4	700.6	720.0	778.2	972.0	1146.5	1276.7	1307.1
125°	656.3	659.1	700.6	720.0	750.5	816.9	969.3	1141.0	1240.7	1268.3
127.5°	675.7	681.3	706.2	733.9	775.4	844.6	949.9	1124.3	1204.7	1243.4
130°	700.6	706.2	725.6	756.0	792.0	853.0	936.0	1071.7	1196.3	1232.3
132.5°	725.6	733.9	753.3	786.5	819.7	872.3	916.6	980.3	1069.0	1085.6
135°	753.3	761.6	778.2	811.4	844.6	880.6	933.3	969.3	1013.6	1033.0
137.5°	778.2	786.5	800.3	830.8	864.0	883.4	925.0	969.3	1002.5	1021.9
140°	808.6	814.2	828.0	853.0	886.2	897.3	913.9	933.3	958.2	972.0
142.5°	830.8	836.3	847.4	869.6	900.0	913.9	919.4	925.0	933.3	933.3
145°	853.0	855.7	866.8	883.4	916.6	933.3	933.3	936.0	941.6	941.6
147.5°	875.1	875.1	883.4	897.3	927.7	947.1	952.6	949.9	952.6	955.4
150°	894.5	891.7	897.3	911.1	936.0	952.6	963.7	966.5	966.5	969.3
152.5°	908.3	908.3	908.3	919.4	941.6	958.2	966.5	974.8	980.3	983.1
155°	925.0	922.2	922.2	927.7	947.1	966.5	972.0	977.6	983.1	985.9
157.5°	938.8	938.8	936.0	938.8	949.9	966.5	977.6	980.3	985.9	988.6
160°	949.9	947.1	947.1	947.1	955.4	966.5	972.0	977.6	983.1	983.1
162.5°	958.2	958.2	955.4	955.4	963.7	969.3	966.5	966.5	972.0	974.8
165°	963.7	966.5	963.7	963.7	969.3	974.8	972.0	966.5	966.5	969.3
167.5°	972.0	972.0	972.0	969.3	972.0	977.6	974.8	972.0	972.0	972.0
170°	974.8	974.8	974.8	974.8	974.8	980.3	974.8	972.0	972.0	972.0
172.5°	977.6	974.8	974.8	974.8	974.8	980.3	974.8	969.3	966.5	966.5
175°	977.6	977.6	974.8	974.8	974.8	977.6	972.0	969.3	963.7	961.0
177.5°	977.6	974.8	972.0	966.5	966.5	972.0	966.5	961.0	958.2	958.2
180°	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7	963.7

(END OF REPORT)