

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: P183730

Luminaire Tested: **I2-WS-5L35-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183730  
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-5L35-1D-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)3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

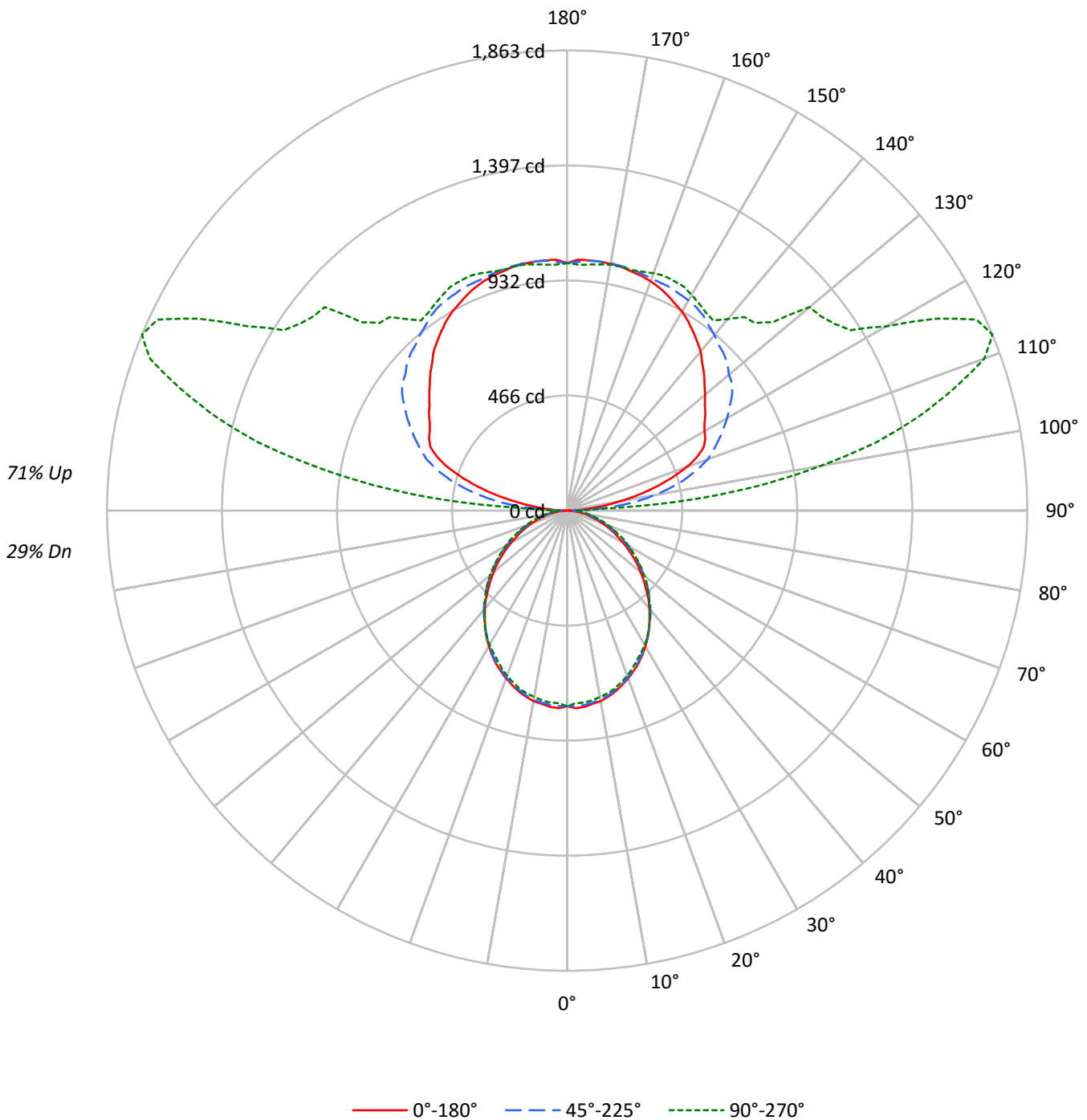
Lumens per Lamp: N/A  
Luminaire Lumens: 6960.8 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: Semi-Indirect

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°	6344	6344	6344
5°	6383	6124	5985
10°	6308	5875	5676
15°	6186	5585	5384
20°	6035	5290	5044
25°	5874	4986	4691
30°	5670	4665	4398
35°	5440	4331	4076
40°	5169	4018	3718
45°	4841	3686	3377
50°	4531	3312	3045
55°	4197	2955	2691
60°	3815	2581	2352
65°	3495	2192	1993
70°	3082	1831	1682
75°	2711	1429	1334
80°	2200	1056	993
85°	1590	711	720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.8	1.1
10°-20°	211.4	3.0
20°-30°	310.9	4.5
30°-40°	361.2	5.2
40°-50°	356.1	5.1
50°-60°	303.7	4.4
60°-70°	221.3	3.2
70°-80°	129.2	1.9
80°-90°	51.3	0.7
90°-100°	273.7	3.9
100°-110°	772.3	11.1
110°-120°	929.0	13.3
120°-130°	825.5	11.9
130°-140°	708.5	10.2
140°-150°	592.5	8.5
150°-160°	457.6	6.6
160°-170°	285.2	4.1
170°-180°	96.5	1.4
0°-30°	597.1	8.6
0°-40°	958.2	13.8
0°-60°	1618.0	23.2
0°-90°	2019.9	29.0
90°-120°	1975.0	28.4
90°-150°	4101.6	58.9
90°-180°	4941.0	71.0
0°-180°	6960.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	798	788	791	787	780	76
15°	758	751	752	750	746	213
25°	683	676	678	672	668	314
35°	579	573	577	582	579	361
45°	452	455	467	464	464	350
55°	326	333	343	346	346	291
65°	207	217	223	230	230	204
75°	107	115	121	129	132	113
85°	29	38	46	54	58	30
90°	3	15	24	31	32	7
95°	86	104	194	436	507	99
105°	372	382	497	1184	1475	391
115°	611	611	677	1310	1829	592
125°	683	734	815	1142	1319	612
135°	783	818	897	999	1074	605
145°	887	906	962	973	979	556
155°	962	961	995	1015	1025	444
165°	1002	1002	1011	1007	1008	284
175°	1017	1014	1015	1009	999	97
180°	1002	1002	1002	1002	1002	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0	792.0
2.5°	800.7	794.9	792.0	789.1	789.1	794.9	792.0	789.1	783.4	780.5
5°	797.8	792.0	789.1	786.3	789.1	792.0	789.1	786.3	783.4	780.5
7.5°	789.1	786.3	780.5	780.5	780.5	786.3	780.5	780.5	777.6	774.7
10°	783.4	777.6	774.7	774.7	774.7	780.5	774.7	771.9	769.0	766.1
12.5°	771.9	766.1	763.2	763.2	763.2	769.0	763.2	760.3	757.5	757.5
15°	757.5	754.6	751.7	748.8	748.8	754.6	751.7	748.8	745.9	745.9
17.5°	740.2	737.3	734.4	734.4	734.4	740.2	734.4	731.5	728.7	728.7
20°	722.9	720.0	717.1	717.1	717.1	720.0	717.1	714.3	711.4	711.4
22.5°	702.7	699.9	697.0	697.0	697.0	699.9	697.0	691.2	691.2	691.2
25°	682.6	679.7	676.8	673.9	676.8	679.7	673.9	671.1	668.2	668.2
27.5°	659.5	656.7	653.8	650.9	653.8	656.7	653.8	648.0	648.0	648.0
30°	633.6	630.7	627.9	627.9	630.7	630.7	627.9	627.9	627.9	627.9
32.5°	607.7	604.8	601.9	601.9	604.8	604.8	607.7	607.7	604.8	604.8
35°	578.9	576.0	573.1	573.1	576.0	578.9	581.8	581.8	581.8	578.9
37.5°	547.2	547.2	544.3	544.3	550.1	555.9	555.9	553.0	553.0	550.1
40°	518.4	515.5	515.5	515.5	521.3	527.1	527.1	524.2	521.3	521.3
42.5°	486.7	486.7	486.7	486.7	495.4	498.3	495.4	495.4	492.5	492.5
45°	452.2	455.1	455.1	455.1	466.6	466.6	466.6	463.7	466.6	463.7
47.5°	420.5	423.4	423.4	429.1	434.9	434.9	434.9	437.8	437.8	437.8
50°	388.8	391.7	391.7	400.3	403.2	403.2	406.1	406.1	406.1	406.1
52.5°	357.1	357.1	360.0	368.7	371.5	374.4	374.4	377.3	377.3	377.3
55°	325.5	328.3	331.2	339.9	339.9	345.6	345.6	345.6	348.5	345.6
57.5°	293.8	296.6	299.5	305.3	311.1	313.9	313.9	316.8	316.8	316.8
60°	262.1	267.8	273.6	276.5	282.2	282.2	285.1	288.0	288.0	288.0
62.5°	233.3	239.0	244.8	247.7	250.6	253.4	256.3	259.2	262.1	262.1
65°	207.4	210.2	216.0	218.9	221.8	224.6	227.5	230.4	233.3	230.4
67.5°	178.6	184.3	190.1	193.0	195.8	198.7	201.6	204.5	204.5	204.5
70°	152.6	158.4	164.2	167.0	169.9	172.8	175.7	178.6	178.6	181.4
72.5°	129.6	135.4	138.2	141.1	144.0	146.9	149.8	152.6	155.5	155.5
75°	106.6	112.3	115.2	115.2	118.1	123.8	126.7	129.6	129.6	132.5
77.5°	83.5	89.3	92.2	95.0	97.9	100.8	103.7	106.6	109.4	109.4
80°	63.4	69.1	72.0	74.9	77.8	80.6	83.5	86.4	89.3	89.3
82.5°	43.2	51.8	51.8	54.7	57.6	63.4	66.2	69.1	72.0	72.0
85°	28.8	34.6	37.4	40.3	43.2	49.0	51.8	54.7	57.6	57.6
87.5°	11.5	20.2	23.0	25.9	31.7	34.6	37.4	40.3	43.2	43.2
90°	2.9	11.5	14.4	17.3	23.0	25.9	28.8	31.7	31.7	31.7
92.5°	37.4	43.2	43.2	49.0	60.5	92.2	115.2	121.0	118.1	109.4
95°	86.4	97.9	103.7	106.6	141.1	247.7	377.3	455.1	495.4	506.9
97.5°	149.8	164.2	172.8	167.0	213.1	354.3	558.7	697.0	771.9	792.0
100°	218.9	233.3	244.8	230.4	279.4	437.8	722.9	901.5	1013.8	1045.5
102.5°	296.6	311.1	319.7	293.8	342.7	518.4	861.1	1088.7	1229.8	1284.5
105°	371.5	385.9	391.7	354.3	397.5	596.2	962.0	1258.6	1425.6	1474.6
107.5°	446.4	455.1	455.1	417.6	446.4	659.5	1019.6	1394.0	1589.8	1641.7
110°	515.5	518.4	515.5	481.0	498.3	711.4	1022.4	1480.4	1716.5	1797.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	570.3	576.0	564.5	541.5	541.5	740.2	1022.4	1480.4	1771.3	1863.4
115°	610.6	625.0	613.5	601.9	596.2	757.5	1039.7	1399.7	1719.4	1828.9
117.5°	630.7	659.5	662.4	650.9	650.9	774.7	1045.5	1287.4	1575.4	1682.0
120°	642.3	676.8	708.5	697.0	702.7	792.0	1028.2	1221.2	1414.1	1491.9
122.5°	659.5	676.8	731.5	728.7	748.8	809.3	1010.9	1192.4	1327.7	1359.4
125°	682.6	685.5	728.7	748.8	780.5	849.6	1008.0	1186.6	1290.3	1319.1
127.5°	702.7	708.5	734.4	763.2	806.4	878.4	987.9	1169.3	1252.8	1293.2
130°	728.7	734.4	754.6	786.3	823.7	887.1	973.5	1114.6	1244.2	1281.6
132.5°	754.6	763.2	783.4	817.9	852.5	907.2	953.3	1019.6	1111.7	1129.0
135°	783.4	792.0	809.3	843.9	878.4	915.9	970.6	1008.0	1054.1	1074.3
137.5°	809.3	817.9	832.3	864.0	898.6	918.7	962.0	1008.0	1042.6	1062.8
140°	841.0	846.7	861.1	887.1	921.6	933.2	950.4	970.6	996.5	1010.9
142.5°	864.0	869.8	881.3	904.3	936.0	950.4	956.2	962.0	970.6	970.6
145°	887.1	889.9	901.5	918.7	953.3	970.6	970.6	973.5	979.2	979.2
147.5°	910.1	910.1	918.7	933.2	964.8	985.0	990.8	987.9	990.8	993.6
150°	930.3	927.4	933.2	947.6	973.5	990.8	1002.3	1005.2	1005.2	1008.0
152.5°	944.7	944.7	944.7	956.2	979.2	996.5	1005.2	1013.8	1019.6	1022.4
155°	962.0	959.1	959.1	964.8	985.0	1005.2	1010.9	1016.7	1022.4	1025.3
157.5°	976.4	976.4	973.5	976.4	987.9	1005.2	1016.7	1019.6	1025.3	1028.2
160°	987.9	985.0	985.0	985.0	993.6	1005.2	1010.9	1016.7	1022.4	1022.4
162.5°	996.5	996.5	993.6	993.6	1002.3	1008.0	1005.2	1005.2	1010.9	1013.8
165°	1002.3	1005.2	1002.3	1002.3	1008.0	1013.8	1010.9	1005.2	1005.2	1008.0
167.5°	1010.9	1010.9	1010.9	1008.0	1010.9	1016.7	1013.8	1010.9	1010.9	1010.9
170°	1013.8	1013.8	1013.8	1013.8	1013.8	1019.6	1013.8	1010.9	1010.9	1010.9
172.5°	1016.7	1013.8	1013.8	1013.8	1013.8	1019.6	1013.8	1008.0	1005.2	1005.2
175°	1016.7	1016.7	1013.8	1013.8	1013.8	1016.7	1010.9	1008.0	1002.3	999.4
177.5°	1016.7	1013.8	1010.9	1005.2	1005.2	1010.9	1005.2	999.4	996.5	996.5
180°	1002.3	1002.3	1002.3	1002.3	1002.3	1002.3	1002.3	1002.3	1002.3	1002.3

(END OF REPORT)