

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: P183732

Luminaire Tested: **I2-WS-2L40-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183732  
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-2L40-1D-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)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

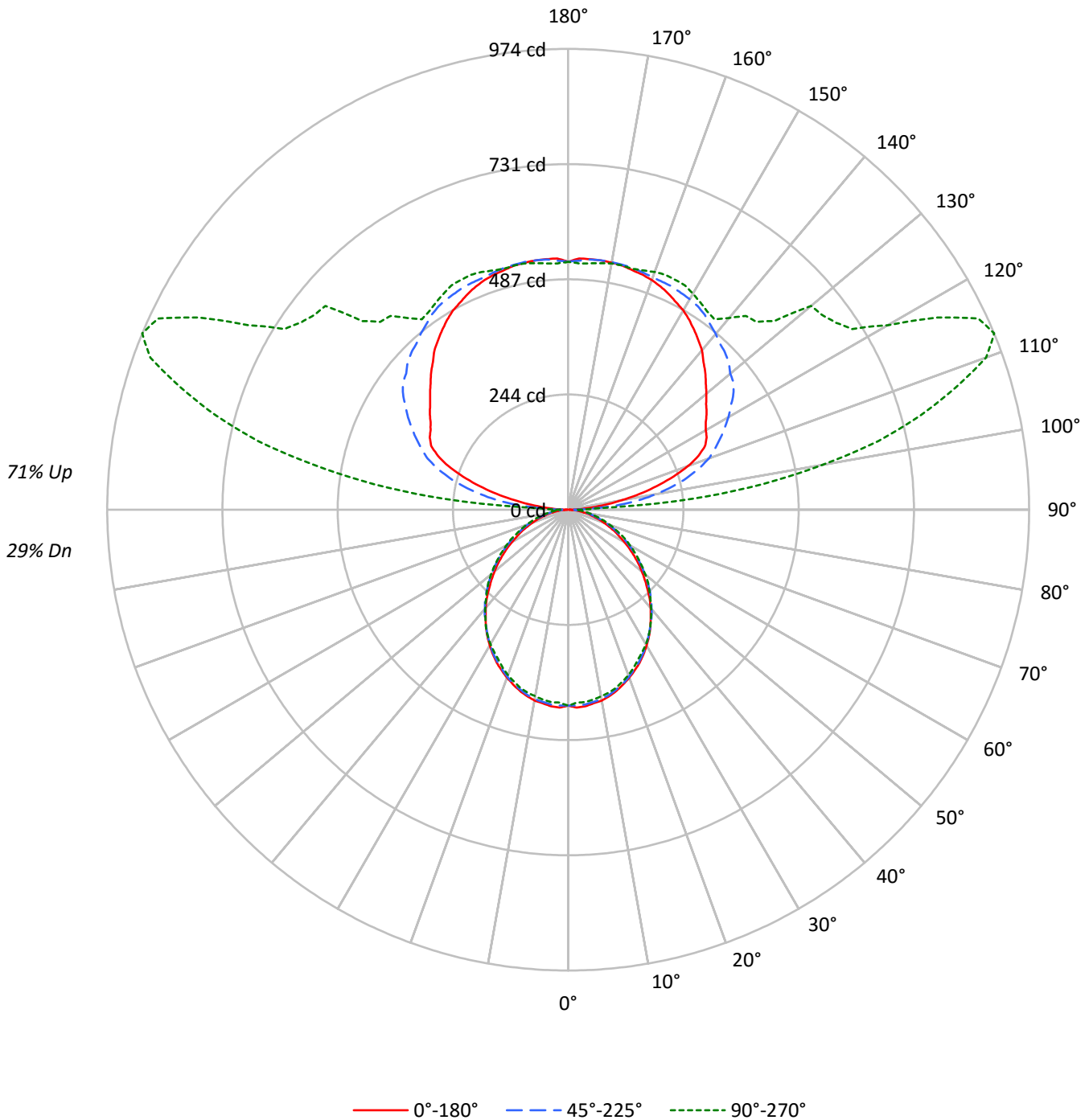
Lumens per Lamp: N/A  
Luminaire Lumens: 3639.2 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: Semi-Indirect

Input Watts (W): 35.5  
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°	3317	3317	3317
5°	3337	3202	3129
10°	3298	3072	2967
15°	3234	2920	2815
20°	3155	2766	2637
25°	3071	2607	2452
30°	2965	2439	2299
35°	2844	2264	2131
40°	2702	2101	1944
45°	2531	1927	1765
50°	2369	1732	1592
55°	2193	1545	1407
60°	1994	1350	1230
65°	1827	1145	1042
70°	1612	957	880
75°	1417	747	698
80°	1148	553	519
85°	834	372	376



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CATALOG NUMBER: I2-WS-2L40-1D-UNV-4-STD-DM8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.1	1.1
10°-20°	110.5	3.0
20°-30°	162.6	4.5
30°-40°	188.8	5.2
40°-50°	186.2	5.1
50°-60°	158.8	4.4
60°-70°	115.7	3.2
70°-80°	67.6	1.9
80°-90°	26.8	0.7
90°-100°	143.1	3.9
100°-110°	403.8	11.1
110°-120°	485.7	13.3
120°-130°	431.6	11.9
130°-140°	370.4	10.2
140°-150°	309.8	8.5
150°-160°	239.3	6.6
160°-170°	149.1	4.1
170°-180°	50.5	1.4
0°-30°	312.2	8.6
0°-40°	501.0	13.8
0°-60°	845.9	23.2
0°-90°	1056.0	29.0
90°-120°	1032.5	28.4
90°-150°	2144.3	58.9
90°-180°	2583.0	71.0
0°-180°	3639.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	417	412	413	411	408	40
15°	396	393	393	392	390	112
25°	357	353	355	351	349	164
35°	303	300	302	304	303	189
45°	236	238	244	243	242	183
55°	170	174	179	181	181	152
65°	108	113	117	120	120	107
75°	56	60	63	67	69	59
85°	15	20	24	28	30	16
90°	2	8	13	16	17	4
95°	45	55	102	228	265	52
105°	194	200	260	619	771	204
115°	319	319	354	685	956	310
125°	357	384	426	597	690	320
135°	410	428	469	522	562	316
145°	464	474	503	509	512	291
155°	503	502	520	531	536	232
165°	524	524	528	526	527	148
175°	532	530	531	527	522	51
180°	524	524	524	524	524	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	414.1	414.1	414.1	414.1	414.1	414.1	414.1	414.1	414.1	414.1
2.5°	418.6	415.6	414.1	412.6	412.6	415.6	414.1	412.6	409.6	408.1
5°	417.1	414.1	412.6	411.1	412.6	414.1	412.6	411.1	409.6	408.1
7.5°	412.6	411.1	408.1	408.1	408.1	411.1	408.1	408.1	406.5	405.0
10°	409.6	406.5	405.0	405.0	405.0	408.1	405.0	403.5	402.0	400.5
12.5°	403.5	400.5	399.0	399.0	399.0	402.0	399.0	397.5	396.0	396.0
15°	396.0	394.5	393.0	391.5	391.5	394.5	393.0	391.5	390.0	390.0
17.5°	387.0	385.5	384.0	384.0	384.0	387.0	384.0	382.5	381.0	381.0
20°	377.9	376.4	374.9	374.9	374.9	376.4	374.9	373.4	371.9	371.9
22.5°	367.4	365.9	364.4	364.4	364.4	365.9	364.4	361.4	361.4	361.4
25°	356.9	355.4	353.8	352.3	353.8	355.4	352.3	350.8	349.3	349.3
27.5°	344.8	343.3	341.8	340.3	341.8	343.3	341.8	338.8	338.8	338.8
30°	331.3	329.8	328.3	328.3	329.8	329.8	328.3	328.3	328.3	328.3
32.5°	317.7	316.2	314.7	314.7	316.2	316.2	317.7	317.7	316.2	316.2
35°	302.7	301.1	299.6	299.6	301.1	302.7	304.2	304.2	304.2	302.7
37.5°	286.1	286.1	284.6	284.6	287.6	290.6	290.6	289.1	289.1	287.6
40°	271.0	269.5	269.5	269.5	272.5	275.6	275.6	274.0	272.5	272.5
42.5°	254.5	254.5	254.5	254.5	259.0	260.5	259.0	259.0	257.5	257.5
45°	236.4	237.9	237.9	237.9	243.9	243.9	243.9	242.4	243.9	242.4
47.5°	219.8	221.3	221.3	224.4	227.4	227.4	227.4	228.9	228.9	228.9
50°	203.3	204.8	204.8	209.3	210.8	210.8	212.3	212.3	212.3	212.3
52.5°	186.7	186.7	188.2	192.7	194.2	195.7	195.7	197.3	197.3	197.3
55°	170.1	171.7	173.2	177.7	177.7	180.7	180.7	180.7	182.2	180.7
57.5°	153.6	155.1	156.6	159.6	162.6	164.1	164.1	165.6	165.6	165.6
60°	137.0	140.0	143.0	144.6	147.6	147.6	149.1	150.6	150.6	150.6
62.5°	122.0	125.0	128.0	129.5	131.0	132.5	134.0	135.5	137.0	137.0
65°	108.4	109.9	112.9	114.4	115.9	117.4	119.0	120.5	122.0	120.5
67.5°	93.4	96.4	99.4	100.9	102.4	103.9	105.4	106.9	106.9	106.9
70°	79.8	82.8	85.8	87.3	88.8	90.3	91.9	93.4	93.4	94.9
72.5°	67.8	70.8	72.3	73.8	75.3	76.8	78.3	79.8	81.3	81.3
75°	55.7	58.7	60.2	60.2	61.7	64.7	66.3	67.8	67.8	69.3
77.5°	43.7	46.7	48.2	49.7	51.2	52.7	54.2	55.7	57.2	57.2
80°	33.1	36.1	37.6	39.1	40.7	42.2	43.7	45.2	46.7	46.7
82.5°	22.6	27.1	27.1	28.6	30.1	33.1	34.6	36.1	37.6	37.6
85°	15.1	18.1	19.6	21.1	22.6	25.6	27.1	28.6	30.1	30.1
87.5°	6.0	10.5	12.0	13.6	16.6	18.1	19.6	21.1	22.6	22.6
90°	1.5	6.0	7.5	9.0	12.0	13.6	15.1	16.6	16.6	16.6
92.5°	19.6	22.6	22.6	25.6	31.6	48.2	60.2	63.2	61.7	57.2
95°	45.2	51.2	54.2	55.7	73.8	129.5	197.3	237.9	259.0	265.0
97.5°	78.3	85.8	90.3	87.3	111.4	185.2	292.1	364.4	403.5	414.1
100°	114.4	122.0	128.0	120.5	146.1	228.9	377.9	471.3	530.0	546.6
102.5°	155.1	162.6	167.1	153.6	179.2	271.0	450.2	569.2	643.0	671.6
105°	194.2	201.8	204.8	185.2	207.8	311.7	502.9	658.0	745.3	770.9
107.5°	233.4	237.9	237.9	218.3	233.4	344.8	533.0	728.8	831.2	858.3
110°	269.5	271.0	269.5	251.5	260.5	371.9	534.5	774.0	897.4	939.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	298.1	301.1	295.1	283.1	283.1	387.0	534.5	774.0	926.0	974.2
115°	319.2	326.7	320.7	314.7	311.7	396.0	543.6	731.8	898.9	956.1
117.5°	329.8	344.8	346.3	340.3	340.3	405.0	546.6	673.1	823.6	879.4
120°	335.8	353.8	370.4	364.4	367.4	414.1	537.5	638.4	739.3	780.0
122.5°	344.8	353.8	382.5	381.0	391.5	423.1	528.5	623.4	694.1	710.7
125°	356.9	358.4	381.0	391.5	408.1	444.2	527.0	620.4	674.6	689.6
127.5°	367.4	370.4	384.0	399.0	421.6	459.3	516.5	611.3	655.0	676.1
130°	381.0	384.0	394.5	411.1	430.6	463.8	508.9	582.7	650.5	670.1
132.5°	394.5	399.0	409.6	427.6	445.7	474.3	498.4	533.0	581.2	590.3
135°	409.6	414.1	423.1	441.2	459.3	478.8	507.4	527.0	551.1	561.6
137.5°	423.1	427.6	435.2	451.7	469.8	480.3	502.9	527.0	545.1	555.6
140°	439.7	442.7	450.2	463.8	481.8	487.9	496.9	507.4	521.0	528.5
142.5°	451.7	454.7	460.8	472.8	489.4	496.9	499.9	502.9	507.4	507.4
145°	463.8	465.3	471.3	480.3	498.4	507.4	507.4	508.9	512.0	512.0
147.5°	475.8	475.8	480.3	487.9	504.4	515.0	518.0	516.5	518.0	519.5
150°	486.4	484.8	487.9	495.4	508.9	518.0	524.0	525.5	525.5	527.0
152.5°	493.9	493.9	493.9	499.9	512.0	521.0	525.5	530.0	533.0	534.5
155°	502.9	501.4	501.4	504.4	515.0	525.5	528.5	531.5	534.5	536.0
157.5°	510.4	510.4	508.9	510.4	516.5	525.5	531.5	533.0	536.0	537.5
160°	516.5	515.0	515.0	515.0	519.5	525.5	528.5	531.5	534.5	534.5
162.5°	521.0	521.0	519.5	519.5	524.0	527.0	525.5	525.5	528.5	530.0
165°	524.0	525.5	524.0	524.0	527.0	530.0	528.5	525.5	525.5	527.0
167.5°	528.5	528.5	528.5	527.0	528.5	531.5	530.0	528.5	528.5	528.5
170°	530.0	530.0	530.0	530.0	530.0	533.0	530.0	528.5	528.5	528.5
172.5°	531.5	530.0	530.0	530.0	530.0	533.0	530.0	527.0	525.5	525.5
175°	531.5	531.5	530.0	530.0	530.0	531.5	528.5	527.0	524.0	522.5
177.5°	531.5	530.0	528.5	525.5	525.5	528.5	525.5	522.5	521.0	521.0
180°	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0

(END OF REPORT)