

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: P183747

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183747
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-2L40-1D-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: 3771.7 lumens
Efficiency: N/A
Efficacy: 106.2 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

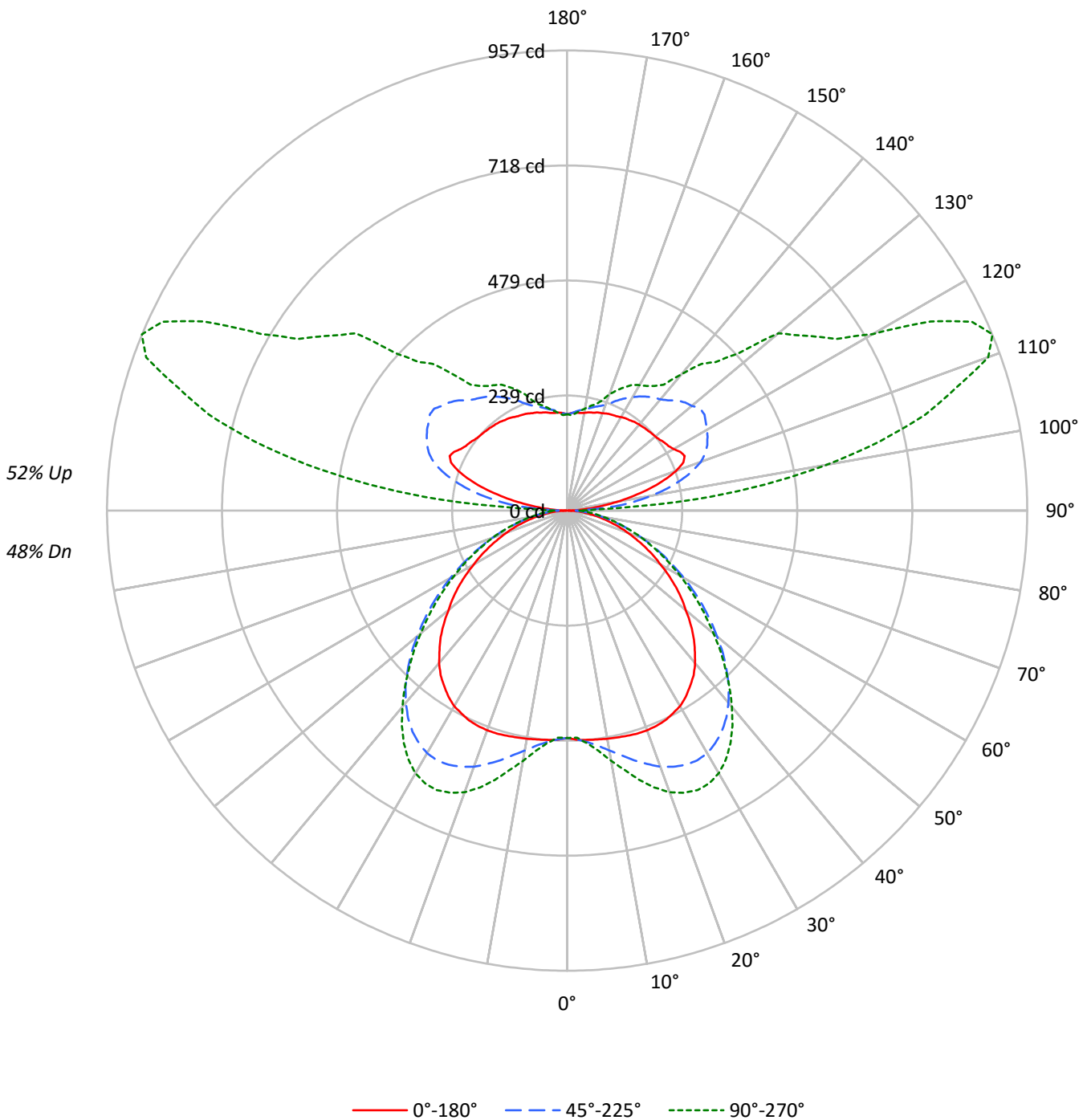
Input Watts (W): 35.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	3787	3787	3787
5°	3830	3743	3728
10°	3878	3827	3915
15°	3958	3993	4184
20°	4059	4173	4419
25°	4145	4288	4502
30°	4203	4309	4418
35°	4187	4206	4165
40°	4128	3999	3801
45°	3981	3705	3388
50°	3755	3345	2980
55°	3553	2966	2591
60°	3265	2561	2213
65°	2993	2165	1862
70°	2706	1761	1521
75°	2335	1361	1182
80°	1932	974	854
85°	1414	615	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.2
10°-20°	151.9	4.0
20°-30°	263.0	7.0
30°-40°	336.2	8.9
40°-50°	341.4	9.1
50°-60°	289.5	7.7
60°-70°	207.2	5.5
70°-80°	117.8	3.1
80°-90°	44.0	1.2
90°-100°	140.4	3.7
100°-110°	390.0	10.3
110°-120°	450.9	12.0
120°-130°	358.1	9.5
130°-140°	257.8	6.8
140°-150°	176.7	4.7
150°-160°	116.9	3.1
160°-170°	63.4	1.7
170°-180°	19.9	0.5
0°-30°	461.6	12.2
0°-40°	797.9	21.2
0°-60°	1428.8	37.9
0°-90°	1797.8	47.7
90°-120°	981.2	26.0
90°-150°	1773.8	47.0
90°-180°	1974.0	52.3
0°-180°	3771.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	473	473	473	473	473	
5°	479	476	483	486	486	46
15°	485	498	537	569	580	137
25°	482	513	583	628	641	222
35°	446	487	561	590	592	279
45°	372	411	469	474	465	286
55°	276	306	344	340	333	245
65°	178	198	221	219	215	176
75°	92	103	115	118	117	98
85°	26	31	40	46	47	27
90°	2	11	18	24	24	4
95°	41	52	98	224	268	47
105°	179	185	245	609	771	186
115°	270	278	321	658	929	259
125°	247	287	348	530	631	221
135°	236	263	324	395	437	183
145°	229	248	289	309	316	144
155°	220	227	254	275	283	102
165°	211	215	224	228	229	60
175°	205	205	207	207	203	20
180°	200	200	200	200	200	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	472.7	472.7	472.7	472.7	472.7	472.7	472.7	472.7	472.7	472.7
2.5°	477.2	475.7	472.7	472.7	474.2	478.7	477.2	475.7	474.2	472.7
5°	478.7	475.7	475.7	477.2	480.2	486.2	486.2	486.2	486.2	486.2
7.5°	480.2	478.7	478.7	483.2	487.7	498.3	499.8	502.8	504.3	504.3
10°	481.7	480.2	483.2	490.8	499.8	513.3	519.4	523.9	526.9	528.4
12.5°	483.2	483.2	487.7	498.3	511.8	529.9	538.9	546.5	551.0	552.5
15°	484.7	486.2	493.8	508.8	526.9	548.0	561.5	572.1	578.1	579.6
17.5°	486.2	487.7	498.3	516.4	538.9	566.0	581.1	594.6	602.2	603.7
20°	486.2	489.3	502.8	525.4	552.5	581.1	599.1	612.7	620.2	623.2
22.5°	484.7	487.7	504.3	531.4	561.5	591.6	611.2	624.7	633.8	635.3
25°	481.7	486.2	505.8	534.4	567.5	599.1	618.7	630.8	638.3	641.3
27.5°	475.7	481.7	502.8	534.4	570.5	600.7	620.2	630.8	636.8	639.8
30°	469.7	475.7	498.3	531.4	567.5	597.6	614.2	624.7	629.3	630.8
32.5°	459.1	466.7	489.3	523.9	560.0	587.1	603.7	611.2	614.2	614.2
35°	445.6	453.1	478.7	513.3	548.0	573.6	587.1	591.6	591.6	591.6
37.5°	432.0	439.6	463.7	498.3	531.4	555.5	566.0	567.5	566.0	564.5
40°	414.0	421.5	445.6	480.2	511.8	531.4	538.9	537.4	534.4	532.9
42.5°	392.9	400.4	426.0	457.6	489.3	505.8	508.8	505.8	501.3	499.8
45°	371.8	379.4	403.4	435.1	462.2	475.7	477.2	472.7	466.7	465.2
47.5°	347.7	355.3	377.9	409.5	433.6	445.6	444.1	439.6	433.6	432.0
50°	322.2	331.2	352.3	382.4	401.9	412.5	411.0	405.0	398.9	397.4
52.5°	299.6	307.1	326.7	353.8	371.8	379.4	377.9	371.8	365.8	364.3
55°	275.5	281.5	299.6	323.7	340.2	347.7	344.7	338.7	332.7	332.7
57.5°	249.9	255.9	272.5	293.6	308.6	314.6	311.6	307.1	302.6	301.1
60°	224.3	231.8	246.9	264.9	278.5	281.5	280.0	275.5	272.5	271.0
62.5°	201.7	207.7	221.3	236.3	246.9	252.9	249.9	246.9	242.4	242.4
65°	177.6	183.7	194.2	207.7	218.3	222.8	221.3	218.3	215.3	215.3
67.5°	155.1	159.6	170.1	182.2	189.7	194.2	192.7	191.2	188.2	188.2
70°	134.0	137.0	146.0	155.1	162.6	167.1	167.1	165.6	164.1	164.1
72.5°	112.9	115.9	123.4	131.0	137.0	141.5	143.0	140.0	140.0	140.0
75°	91.8	96.3	100.9	108.4	112.9	117.4	118.9	117.4	117.4	117.4
77.5°	73.8	76.8	81.3	87.3	90.3	94.8	96.3	96.3	96.3	96.3
80°	55.7	58.7	63.2	66.2	70.8	75.3	76.8	76.8	78.3	76.8
82.5°	40.6	42.2	45.2	49.7	52.7	57.2	60.2	60.2	61.7	61.7
85°	25.6	27.1	30.1	34.6	37.6	42.2	45.2	46.7	46.7	46.7
87.5°	10.5	15.1	18.1	22.6	25.6	30.1	33.1	34.6	34.6	34.6
90°	1.5	7.5	10.5	13.5	16.6	19.6	22.6	24.1	24.1	24.1
92.5°	16.6	21.1	22.6	25.6	33.1	46.7	60.2	63.2	66.2	66.2
95°	40.6	48.2	51.2	52.7	70.8	124.9	191.2	234.8	257.4	268.0
97.5°	72.3	79.8	84.3	81.3	103.9	176.1	284.5	356.8	400.4	414.0
100°	105.4	114.4	118.9	111.4	137.0	219.8	368.8	462.2	523.9	548.0
102.5°	141.5	150.5	155.1	141.5	165.6	260.4	438.1	560.0	635.3	666.9
105°	179.1	185.2	189.7	171.6	192.7	298.1	493.8	647.3	736.1	770.8
107.5°	212.3	216.8	219.8	201.7	216.8	329.7	519.4	716.6	821.9	847.5
110°	240.9	245.4	245.4	230.3	239.4	352.3	519.4	760.2	885.2	931.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	261.9	268.0	264.9	255.9	257.4	364.3	514.8	757.2	912.3	957.4
115°	269.5	280.0	278.5	277.0	278.5	364.3	514.8	706.0	876.1	928.8
117.5°	264.9	283.0	292.0	290.5	295.1	362.8	508.8	638.3	788.8	852.1
120°	255.9	278.5	301.1	302.6	310.1	362.8	490.8	597.6	694.0	734.6
122.5°	249.9	261.9	298.1	305.6	322.2	361.3	472.7	569.0	642.8	663.9
125°	246.9	251.4	281.5	304.1	326.7	370.3	459.1	554.0	614.2	630.8
127.5°	242.4	246.9	268.0	295.1	325.2	371.8	433.6	532.9	581.1	599.1
130°	239.4	245.4	261.9	287.5	317.6	359.8	412.5	489.3	557.0	573.6
132.5°	237.9	243.9	260.4	286.0	314.6	350.8	385.4	426.0	477.2	484.7
135°	236.3	242.4	257.4	281.5	308.6	338.7	374.8	401.9	427.5	436.6
137.5°	234.8	240.9	252.9	277.0	301.1	320.6	352.3	383.9	406.5	414.0
140°	233.3	237.9	251.4	272.5	295.1	308.6	325.2	343.2	359.8	370.3
142.5°	231.8	236.3	246.9	266.5	289.0	302.6	311.6	320.6	326.7	329.7
145°	228.8	233.3	243.9	260.4	281.5	296.6	304.1	310.1	314.6	316.1
147.5°	227.3	228.8	237.9	252.9	274.0	289.0	298.1	302.6	305.6	307.1
150°	224.3	225.8	233.3	246.9	264.9	280.0	290.5	298.1	299.6	301.1
152.5°	221.3	222.8	228.8	239.4	255.9	271.0	280.0	289.0	293.6	295.1
155°	219.8	219.8	224.3	233.3	246.9	260.4	269.5	277.0	281.5	283.0
157.5°	218.3	218.3	221.3	228.8	237.9	248.4	258.9	264.9	269.5	271.0
160°	215.3	215.3	218.3	224.3	230.3	237.9	245.4	252.9	257.4	257.4
162.5°	213.8	213.8	215.3	219.8	225.8	230.3	233.3	236.3	239.4	239.4
165°	210.8	212.3	213.8	216.8	221.3	225.8	227.3	228.8	228.8	228.8
167.5°	209.3	210.8	212.3	213.8	216.8	219.8	221.3	222.8	222.8	222.8
170°	206.2	207.7	209.3	212.3	212.3	215.3	215.3	216.8	216.8	215.3
172.5°	204.7	206.2	207.7	209.3	210.8	210.8	210.8	210.8	209.3	209.3
175°	204.7	204.7	204.7	206.2	206.2	207.7	207.7	206.2	204.7	203.2
177.5°	203.2	203.2	203.2	203.2	201.7	203.2	201.7	201.7	200.2	198.7
180°	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2

(END OF REPORT)