

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: P183752

Luminaire Tested: **I2-WS-2L30-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26979)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WS-2L30-1D-UNV-4-STD-DM5
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 40% UP / 60% DOWN.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

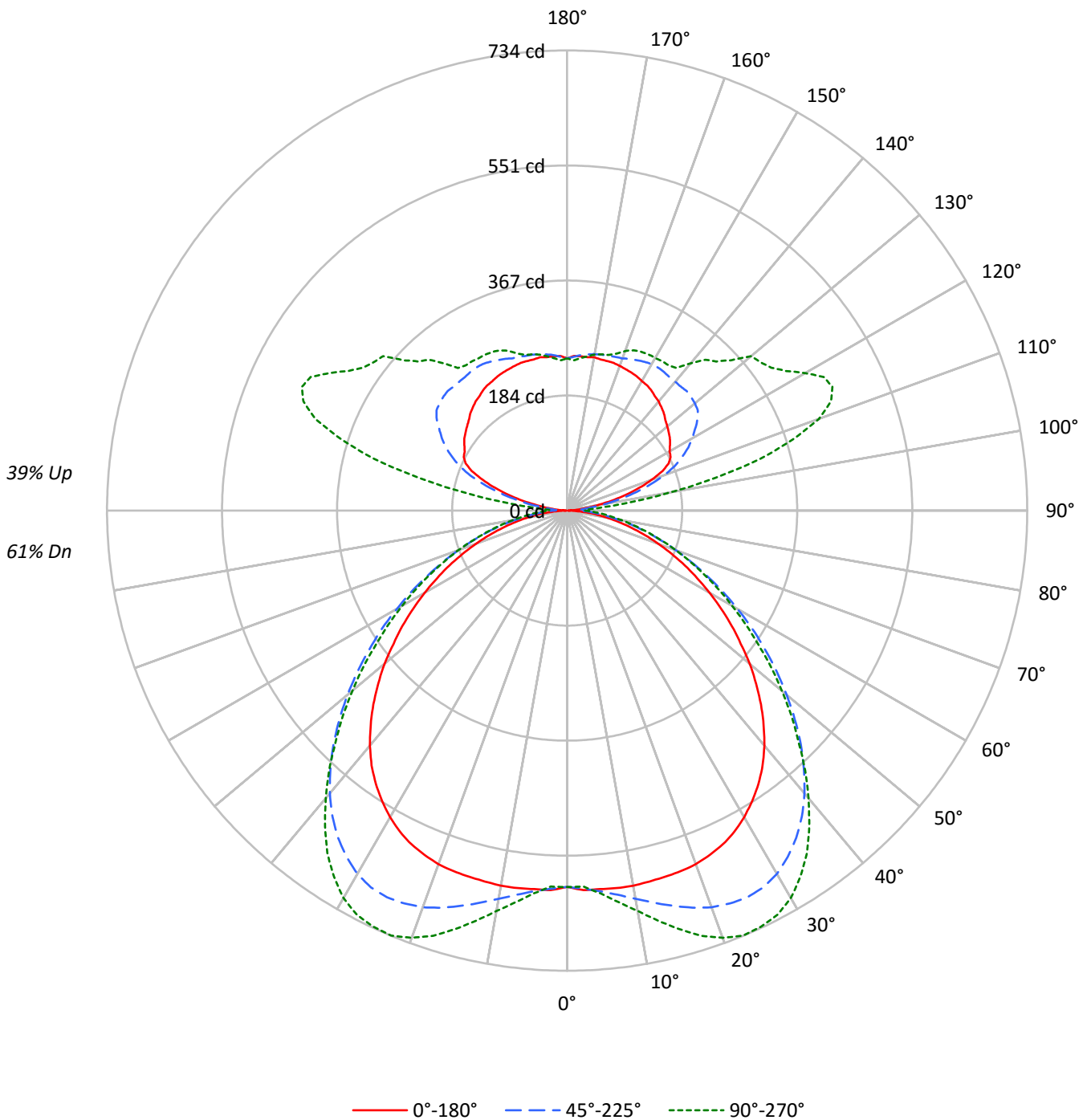
Lumens per Lamp: N/A
Luminaire Lumens: 3385.9 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.58 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 35.5
Input Voltage (V): NR
Input Current (A_{in}): 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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56	51
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	49	47	43
3	83	73	66	60	77	69	62	56	60	55	51	52	48	45	45	42	40	36
4	76	65	56	50	71	61	53	48	53	48	43	47	42	38	40	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	36	31	39	33	28	34	29	26	30	26	23	20
8	55	42	34	29	51	40	33	27	35	29	25	31	26	23	27	23	20	18
9	51	38	31	26	48	36	29	24	32	27	22	29	24	20	25	21	18	16
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4809	4809	4809
5°	4848	4722	4701
10°	4890	4750	4804
15°	4936	4849	4989
20°	5011	4957	5142
25°	5056	5003	5140
30°	5055	4949	4999
35°	5001	4779	4696
40°	4882	4515	4272
45°	4680	4165	3803
50°	4432	3754	3352
55°	4135	3316	2896
60°	3821	2869	2480
65°	3492	2410	2086
70°	3124	1971	1711
75°	2706	1534	1329
80°	2217	1088	978
85°	1491	689	674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.7
10°-20°	184.4	5.4
20°-30°	307.8	9.1
30°-40°	384.7	11.4
40°-50°	387.4	11.4
50°-60°	327.8	9.7
60°-70°	234.1	6.9
70°-80°	133.1	3.9
80°-90°	49.3	1.5
90°-100°	42.8	1.3
100°-110°	172.5	5.1
110°-120°	257.8	7.6
120°-130°	250.5	7.4
130°-140°	211.7	6.3
140°-150°	166.0	4.9
150°-160°	121.5	3.6
160°-170°	72.2	2.1
170°-180°	23.7	0.7
0°-30°	550.8	16.3
0°-40°	935.6	27.6
0°-60°	1650.7	48.8
0°-90°	2067.2	61.1
90°-120°	473.1	14.0
90°-150°	1101.2	32.5
90°-180°	1319.0	39.0
0°-180°	3385.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	606	602	610	612	613	58
15°	604	614	653	683	691	171
25°	588	614	680	721	732	271
35°	532	570	637	664	667	332
45°	437	474	527	529	522	337
55°	321	349	385	382	372	287
65°	207	225	246	246	241	205
75°	106	117	130	133	132	113
85°	27	34	45	52	54	30
90°	1	11	21	27	28	3
95°	14	16	24	45	52	19
105°	96	98	114	252	319	102
115°	179	180	202	354	467	172
125°	200	221	254	347	397	179
135°	218	236	270	309	336	169
145°	234	248	270	279	282	146
155°	243	249	265	276	280	112
165°	247	252	255	257	257	70
175°	247	247	249	247	244	24
180°	243	243	243	243	243	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3	600.3
2.5°	606.0	603.1	600.3	600.3	600.3	607.4	604.5	603.1	600.3	600.3
5°	606.0	603.1	601.7	603.1	606.0	613.0	611.6	611.6	613.0	613.0
7.5°	607.4	604.5	603.1	607.4	613.0	623.0	624.4	627.2	628.7	630.1
10°	607.4	604.5	606.0	613.0	621.6	635.8	640.0	644.3	647.1	648.5
12.5°	606.0	604.5	608.8	618.7	631.5	649.9	657.0	664.1	668.4	669.8
15°	604.5	604.5	610.2	624.4	641.4	664.1	674.1	685.4	691.1	691.1
17.5°	603.1	603.1	613.0	630.1	651.4	676.9	691.1	702.4	709.5	711.0
20°	600.3	600.3	613.0	634.3	659.9	686.8	702.4	715.2	723.7	725.2
22.5°	594.6	597.4	611.6	635.8	664.1	692.5	709.5	722.3	730.8	733.7
25°	587.5	590.3	607.4	634.3	665.6	695.4	712.4	723.7	730.8	732.2
27.5°	577.6	581.8	600.3	630.1	662.7	692.5	708.1	718.1	723.7	726.6
30°	564.8	570.5	590.3	621.6	655.6	682.6	698.2	706.7	711.0	713.8
32.5°	549.2	554.9	577.6	608.8	642.8	667.0	681.2	688.3	689.7	692.5
35°	532.2	537.8	562.0	593.2	625.8	648.5	659.9	665.6	664.1	667.0
37.5°	512.3	518.0	542.1	573.3	604.5	625.8	634.3	635.8	632.9	634.3
40°	489.6	495.3	519.4	550.6	579.0	598.9	603.1	600.3	597.4	598.9
42.5°	464.0	471.1	493.8	523.6	552.0	566.2	570.5	566.2	560.5	562.0
45°	437.1	444.2	466.9	495.3	520.8	533.6	533.6	527.9	523.6	522.2
47.5°	408.7	415.8	437.1	465.5	486.7	498.1	498.1	492.4	485.3	485.3
50°	380.3	386.0	405.9	434.2	451.3	462.6	459.8	454.1	448.4	447.0
52.5°	349.1	357.6	374.6	401.6	417.2	425.7	424.3	418.6	411.5	410.1
55°	320.7	327.8	343.4	366.1	380.3	388.8	386.0	380.3	374.6	371.8
57.5°	290.9	298.0	313.6	332.1	346.3	353.4	350.5	344.8	340.6	337.7
60°	262.5	268.2	282.4	298.0	310.8	316.5	315.0	310.8	306.5	303.7
62.5°	234.1	239.8	251.2	265.4	276.7	282.4	281.0	278.1	273.9	272.5
65°	207.2	211.4	221.4	234.1	242.7	248.3	248.3	245.5	242.7	241.2
67.5°	180.2	184.5	193.0	204.3	211.4	217.1	218.5	215.7	212.9	211.4
70°	154.7	158.9	164.6	174.5	181.6	187.3	188.7	187.3	184.5	184.5
72.5°	130.6	133.4	139.1	146.2	154.7	157.5	158.9	158.9	158.9	157.5
75°	106.4	109.3	114.9	122.0	127.7	132.0	133.4	133.4	132.0	132.0
77.5°	83.7	88.0	90.8	97.9	103.6	106.4	109.3	109.3	109.3	109.3
80°	63.9	66.7	69.5	75.2	79.5	83.7	86.6	88.0	88.0	88.0
82.5°	45.4	48.2	49.7	55.3	59.6	63.9	66.7	69.5	69.5	69.5
85°	27.0	29.8	32.6	38.3	42.6	46.8	51.1	52.5	53.9	53.9
87.5°	11.4	15.6	18.4	24.1	29.8	34.1	36.9	38.3	39.7	39.7
90°	1.4	5.7	9.9	14.2	18.4	22.7	25.5	27.0	28.4	28.4
92.5°	5.7	7.1	8.5	11.4	15.6	19.9	24.1	25.5	28.4	28.4
95°	14.2	17.0	15.6	15.6	18.4	29.8	41.2	46.8	51.1	52.5
97.5°	29.8	31.2	31.2	29.8	32.6	46.8	73.8	89.4	99.3	100.8
100°	48.2	51.1	51.1	48.2	52.5	72.4	119.2	146.2	163.2	168.9
102.5°	72.4	73.8	75.2	69.5	73.8	102.2	164.6	210.0	235.6	242.7
105°	96.5	99.3	99.3	92.2	96.5	132.0	201.5	268.2	305.1	319.3
107.5°	120.6	123.5	122.0	113.5	117.8	161.8	229.9	313.6	363.3	377.5
110°	143.3	146.2	143.3	136.2	140.5	188.7	249.8	349.1	405.9	427.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	164.6	166.0	163.2	158.9	161.8	210.0	272.5	369.0	435.7	455.5
115°	178.8	183.1	180.2	178.8	181.6	222.8	293.8	374.6	445.6	466.9
117.5°	185.9	194.4	197.3	195.8	201.5	234.1	307.9	369.0	438.5	461.2
120°	188.7	200.1	210.0	211.4	217.1	244.1	312.2	367.5	417.2	438.5
122.5°	194.4	201.5	218.5	222.8	231.3	252.6	310.8	363.3	403.0	414.4
125°	200.1	202.9	218.5	229.9	242.7	265.4	309.4	359.0	390.2	397.3
127.5°	204.3	208.6	218.5	232.7	251.2	273.9	305.1	354.8	378.9	388.8
130°	208.6	212.9	222.8	237.0	254.0	278.1	303.7	342.0	374.6	383.2
132.5°	212.9	218.5	228.5	241.2	258.3	278.1	298.0	322.1	349.1	354.8
135°	218.5	224.2	232.7	245.5	261.1	278.1	298.0	312.2	327.8	336.3
137.5°	222.8	228.5	235.6	249.8	262.5	273.9	289.5	306.5	319.3	326.4
140°	227.1	232.7	239.8	252.6	264.0	272.5	281.0	289.5	299.4	306.5
142.5°	229.9	235.6	242.7	254.0	265.4	271.0	276.7	281.0	285.2	286.7
145°	234.1	238.4	245.5	254.0	266.8	272.5	276.7	279.6	282.4	282.4
147.5°	237.0	239.8	246.9	254.0	266.8	273.9	276.7	279.6	281.0	282.4
150°	238.4	241.2	246.9	254.0	265.4	273.9	276.7	279.6	279.6	281.0
152.5°	241.2	242.7	248.3	254.0	262.5	272.5	275.3	278.1	281.0	281.0
155°	242.7	244.1	248.3	252.6	259.7	269.6	273.9	276.7	278.1	279.6
157.5°	244.1	245.5	249.8	252.6	258.3	265.4	271.0	273.9	276.7	276.7
160°	245.5	246.9	249.8	252.6	256.9	259.7	264.0	268.2	271.0	271.0
162.5°	246.9	248.3	251.2	252.6	255.4	258.3	259.7	259.7	262.5	262.5
165°	246.9	248.3	251.2	252.6	254.0	256.9	256.9	256.9	256.9	256.9
167.5°	246.9	248.3	249.8	251.2	254.0	255.4	255.4	255.4	255.4	255.4
170°	248.3	248.3	249.8	251.2	252.6	254.0	252.6	252.6	252.6	252.6
172.5°	246.9	246.9	248.3	249.8	251.2	251.2	251.2	249.8	249.8	248.3
175°	246.9	246.9	246.9	246.9	248.3	249.8	248.3	246.9	245.5	244.1
177.5°	246.9	246.9	245.5	245.5	245.5	245.5	244.1	242.7	241.2	239.8
180°	242.7	242.7	242.7	242.7	242.7	242.7	242.7	242.7	242.7	242.7

(END OF REPORT)