

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: P183722

Luminaire Tested: **I2-WS-2L30-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183722
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-2L30-1D-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

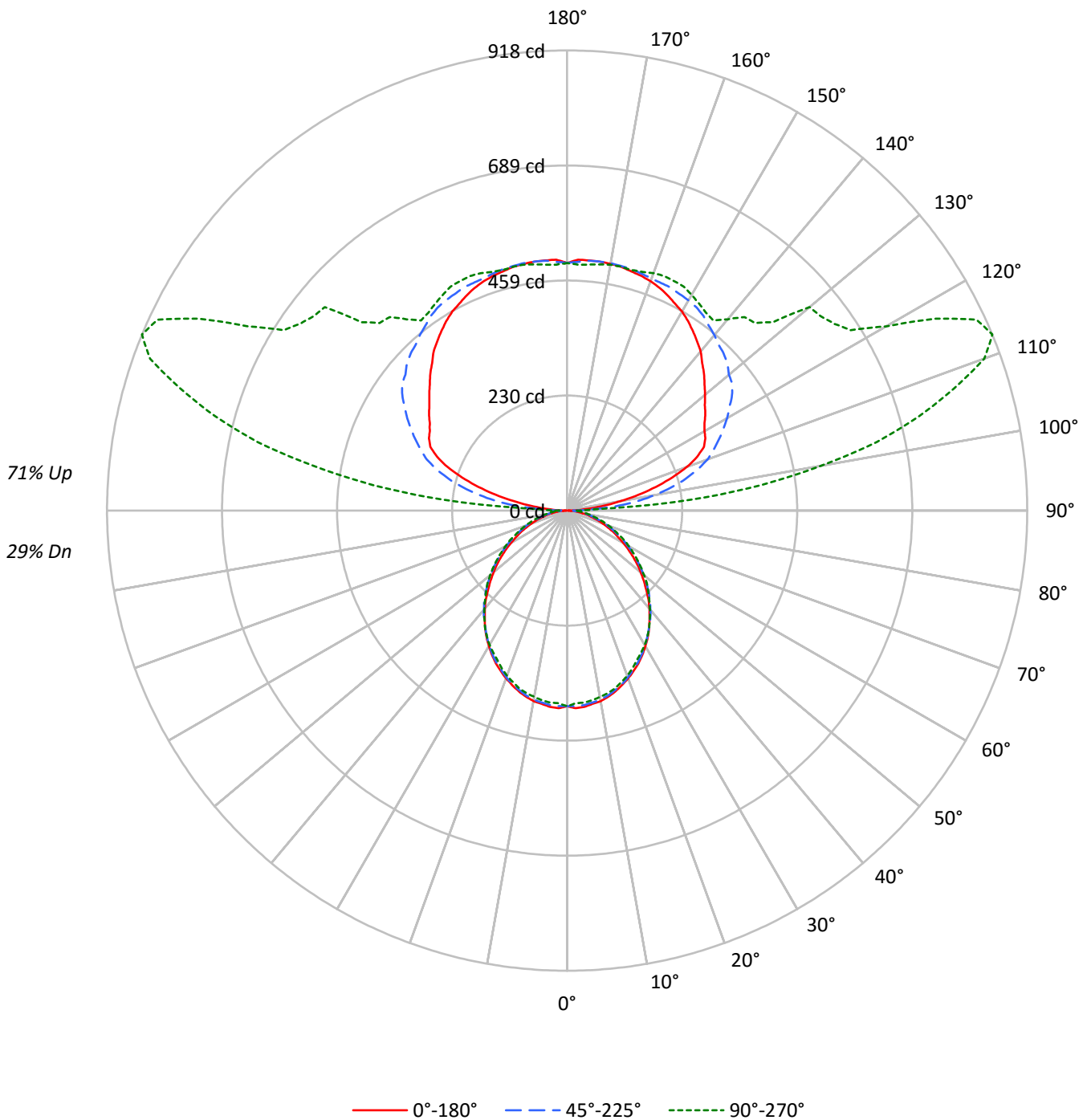
Lumens per Lamp: N/A
Luminaire Lumens: 3430.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

Input Watts (W): 35.5
Input Voltage (V): NR
Input Current (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	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°	3126	3126	3126
5°	3145	3018	2949
10°	3108	2895	2797
15°	3047	2752	2654
20°	2974	2607	2485
25°	2894	2457	2311
30°	2794	2299	2167
35°	2681	2134	2009
40°	2547	1980	1832
45°	2385	1816	1664
50°	2233	1632	1500
55°	2068	1456	1326
60°	1879	1272	1159
65°	1722	1080	982
70°	1519	902	829
75°	1335	704	658
80°	1082	520	489
85°	784	350	355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	1.1
10°-20°	104.2	3.0
20°-30°	153.2	4.5
30°-40°	178.0	5.2
40°-50°	175.5	5.1
50°-60°	149.7	4.4
60°-70°	109.1	3.2
70°-80°	63.7	1.9
80°-90°	25.3	0.7
90°-100°	134.9	3.9
100°-110°	380.5	11.1
110°-120°	457.7	13.3
120°-130°	406.8	11.9
130°-140°	349.1	10.2
140°-150°	292.0	8.5
150°-160°	225.5	6.6
160°-170°	140.5	4.1
170°-180°	47.6	1.4
0°-30°	294.2	8.6
0°-40°	472.2	13.8
0°-60°	797.3	23.2
0°-90°	995.3	29.0
90°-120°	973.2	28.4
90°-150°	2021.1	58.9
90°-180°	2435.0	71.0
0°-180°	3430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	393	389	390	388	385	37
15°	373	370	370	369	368	105
25°	336	333	334	331	329	155
35°	285	282	285	287	285	178
45°	223	224	230	229	228	172
55°	160	164	169	170	170	143
65°	102	107	110	113	114	101
75°	52	57	60	64	65	56
85°	14	19	23	27	28	15
90°	1	7	12	15	16	4
95°	43	51	96	215	250	49
105°	183	188	245	584	727	193
115°	301	301	334	645	901	292
125°	336	362	402	563	650	301
135°	386	403	442	492	529	298
145°	437	446	474	479	482	274
155°	474	473	490	500	505	219
165°	494	494	498	496	497	140
175°	501	500	500	497	492	48
180°	494	494	494	494	494	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3
2.5°	394.5	391.7	390.3	388.9	388.9	391.7	390.3	388.9	386.0	384.6
5°	393.1	390.3	388.9	387.4	388.9	390.3	388.9	387.4	386.0	384.6
7.5°	388.9	387.4	384.6	384.6	384.6	387.4	384.6	384.6	383.2	381.8
10°	386.0	383.2	381.8	381.8	381.8	384.6	381.8	380.3	378.9	377.5
12.5°	380.3	377.5	376.1	376.1	376.1	378.9	376.1	374.7	373.2	373.2
15°	373.2	371.8	370.4	369.0	369.0	371.8	370.4	369.0	367.6	367.6
17.5°	364.7	363.3	361.9	361.9	361.9	364.7	361.9	360.5	359.1	359.1
20°	356.2	354.8	353.4	353.4	353.4	354.8	353.4	352.0	350.5	350.5
22.5°	346.3	344.9	343.4	343.4	343.4	344.9	343.4	340.6	340.6	340.6
25°	336.3	334.9	333.5	332.1	333.5	334.9	332.1	330.7	329.2	329.2
27.5°	325.0	323.6	322.2	320.7	322.2	323.6	322.2	319.3	319.3	319.3
30°	312.2	310.8	309.4	309.4	310.8	310.8	309.4	309.4	309.4	309.4
32.5°	299.4	298.0	296.6	296.6	298.0	298.0	299.4	299.4	298.0	298.0
35°	285.3	283.8	282.4	282.4	283.8	285.3	286.7	286.7	286.7	285.3
37.5°	269.6	269.6	268.2	268.2	271.1	273.9	273.9	272.5	272.5	271.1
40°	255.5	254.0	254.0	254.0	256.9	259.7	259.7	258.3	256.9	256.9
42.5°	239.8	239.8	239.8	239.8	244.1	245.5	244.1	244.1	242.7	242.7
45°	222.8	224.2	224.2	224.2	229.9	229.9	229.9	228.5	229.9	228.5
47.5°	207.2	208.6	208.6	211.5	214.3	214.3	214.3	215.7	215.7	215.7
50°	191.6	193.0	193.0	197.3	198.7	198.7	200.1	200.1	200.1	200.1
52.5°	176.0	176.0	177.4	181.7	183.1	184.5	184.5	185.9	185.9	185.9
55°	160.4	161.8	163.2	167.5	167.5	170.3	170.3	170.3	171.7	170.3
57.5°	144.8	146.2	147.6	150.4	153.3	154.7	154.7	156.1	156.1	156.1
60°	129.1	132.0	134.8	136.2	139.1	139.1	140.5	141.9	141.9	141.9
62.5°	115.0	117.8	120.6	122.0	123.5	124.9	126.3	127.7	129.1	129.1
65°	102.2	103.6	106.4	107.9	109.3	110.7	112.1	113.5	115.0	113.5
67.5°	88.0	90.8	93.7	95.1	96.5	97.9	99.3	100.8	100.8	100.8
70°	75.2	78.1	80.9	82.3	83.7	85.2	86.6	88.0	88.0	89.4
72.5°	63.9	66.7	68.1	69.5	71.0	72.4	73.8	75.2	76.6	76.6
75°	52.5	55.3	56.8	56.8	58.2	61.0	62.4	63.9	63.9	65.3
77.5°	41.2	44.0	45.4	46.8	48.3	49.7	51.1	52.5	53.9	53.9
80°	31.2	34.1	35.5	36.9	38.3	39.7	41.2	42.6	44.0	44.0
82.5°	21.3	25.5	25.5	27.0	28.4	31.2	32.6	34.1	35.5	35.5
85°	14.2	17.0	18.4	19.9	21.3	24.1	25.5	27.0	28.4	28.4
87.5°	5.7	9.9	11.4	12.8	15.6	17.0	18.4	19.9	21.3	21.3
90°	1.4	5.7	7.1	8.5	11.4	12.8	14.2	15.6	15.6	15.6
92.5°	18.4	21.3	21.3	24.1	29.8	45.4	56.8	59.6	58.2	53.9
95°	42.6	48.3	51.1	52.5	69.5	122.0	185.9	224.2	244.1	249.8
97.5°	73.8	80.9	85.2	82.3	105.0	174.6	275.3	343.4	380.3	390.3
100°	107.9	115.0	120.6	113.5	137.7	215.7	356.2	444.2	499.5	515.2
102.5°	146.2	153.3	157.5	144.8	168.9	255.5	424.3	536.4	606.0	633.0
105°	183.1	190.2	193.0	174.6	195.8	293.8	474.0	620.2	702.5	726.6
107.5°	220.0	224.2	224.2	205.8	220.0	325.0	502.4	686.9	783.4	808.9
110°	254.0	255.5	254.0	237.0	245.5	350.5	503.8	729.5	845.8	885.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	281.0	283.8	278.2	266.8	266.8	364.7	503.8	729.5	872.8	918.2
115°	300.9	308.0	302.3	296.6	293.8	373.2	512.3	689.7	847.2	901.2
117.5°	310.8	325.0	326.4	320.7	320.7	381.8	515.2	634.4	776.3	828.8
120°	316.5	333.5	349.1	343.4	346.3	390.3	506.6	601.7	696.8	735.1
122.5°	325.0	333.5	360.5	359.1	369.0	398.8	498.1	587.5	654.2	669.8
125°	336.3	337.8	359.1	369.0	384.6	418.7	496.7	584.7	635.8	650.0
127.5°	346.3	349.1	361.9	376.1	397.4	432.8	486.8	576.2	617.3	637.2
130°	359.1	361.9	371.8	387.4	405.9	437.1	479.7	549.2	613.1	631.5
132.5°	371.8	376.1	386.0	403.0	420.1	447.0	469.7	502.4	547.8	556.3
135°	386.0	390.3	398.8	415.8	432.8	451.3	478.3	496.7	519.4	529.4
137.5°	398.8	403.0	410.1	425.8	442.8	452.7	474.0	496.7	513.7	523.7
140°	414.4	417.2	424.3	437.1	454.1	459.8	468.3	478.3	491.0	498.1
142.5°	425.8	428.6	434.3	445.6	461.2	468.3	471.2	474.0	478.3	478.3
145°	437.1	438.5	444.2	452.7	469.7	478.3	478.3	479.7	482.5	482.5
147.5°	448.5	448.5	452.7	459.8	475.4	485.4	488.2	486.8	488.2	489.6
150°	458.4	457.0	459.8	466.9	479.7	488.2	493.9	495.3	495.3	496.7
152.5°	465.5	465.5	465.5	471.2	482.5	491.0	495.3	499.5	502.4	503.8
155°	474.0	472.6	472.6	475.4	485.4	495.3	498.1	501.0	503.8	505.2
157.5°	481.1	481.1	479.7	481.1	486.8	495.3	501.0	502.4	505.2	506.6
160°	486.8	485.4	485.4	485.4	489.6	495.3	498.1	501.0	503.8	503.8
162.5°	491.0	491.0	489.6	489.6	493.9	496.7	495.3	495.3	498.1	499.5
165°	493.9	495.3	493.9	493.9	496.7	499.5	498.1	495.3	495.3	496.7
167.5°	498.1	498.1	498.1	496.7	498.1	501.0	499.5	498.1	498.1	498.1
170°	499.5	499.5	499.5	499.5	499.5	502.4	499.5	498.1	498.1	498.1
172.5°	501.0	499.5	499.5	499.5	499.5	502.4	499.5	496.7	495.3	495.3
175°	501.0	501.0	499.5	499.5	499.5	501.0	498.1	496.7	493.9	492.5
177.5°	501.0	499.5	498.1	495.3	495.3	498.1	495.3	492.5	491.0	491.0
180°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9

(END OF REPORT)