

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: P183738

Luminaire Tested: **I2-WS-3L30-1D-UNV-4-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183738
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-3L30-1D-UNV-4-STD
Description: CORELITE IRIDIUM SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4723.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

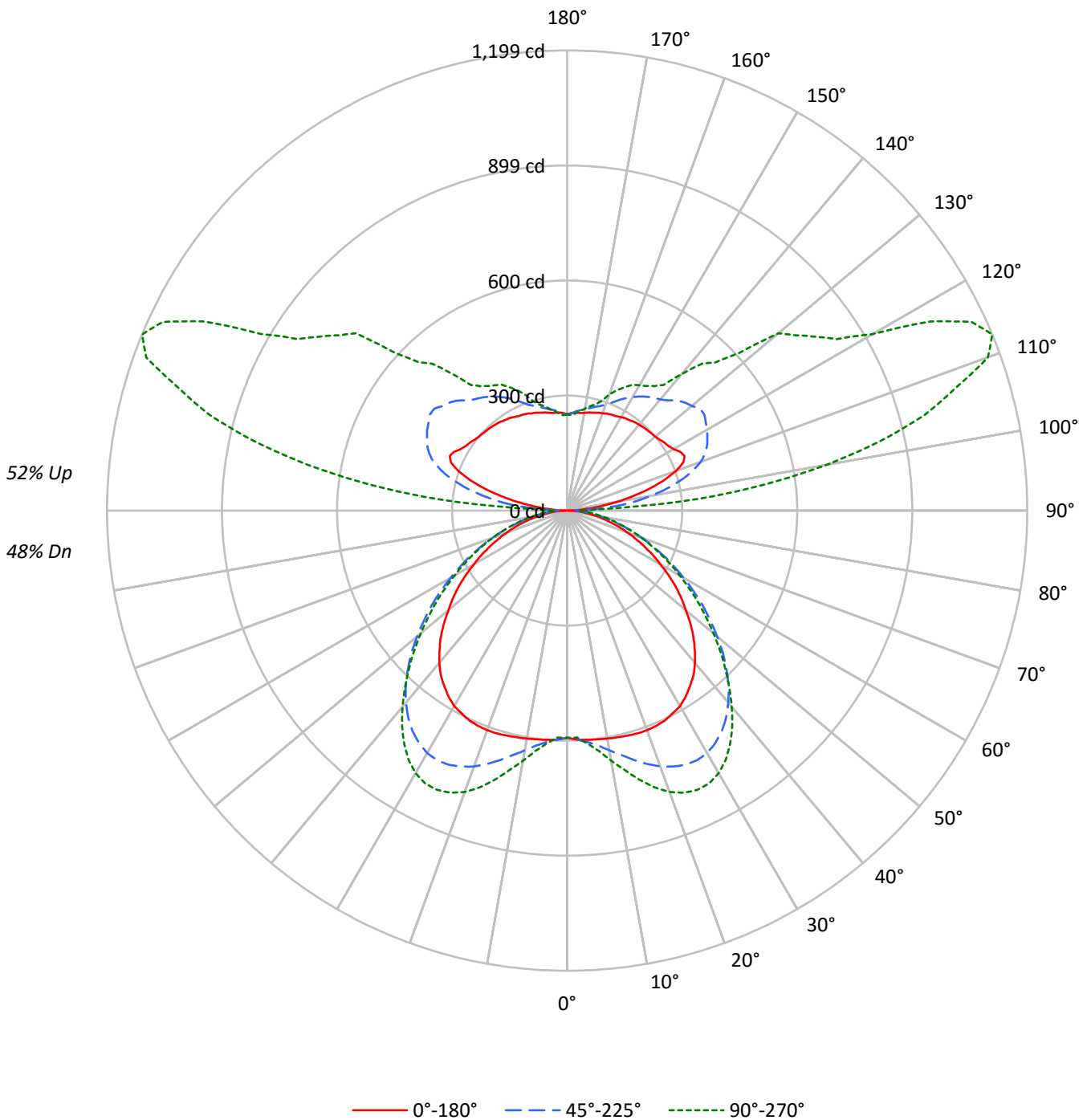
Input Watts (W): 46.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183738

CATALOG NUMBER: I2-WS-3L30-1D-UNV-4-STD

Luminous Intensity Polar Plot





TEST NUMBER: P183738

CATALOG NUMBER: I2-WS-3L30-1D-UNV-4-STD

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	85	89	85	82	79	72	69	67	59	57	56	47	46	45	40
2	88	81	75	69	81	74	69	64	63	59	55	52	49	46	42	40	38	33
3	80	71	63	57	74	65	59	54	55	50	46	45	42	39	37	34	32	28
4	73	62	54	48	67	58	51	45	49	43	39	40	36	33	33	30	27	24
5	67	56	47	41	62	51	44	39	43	38	34	36	32	29	29	26	24	20
6	62	50	41	36	57	46	39	33	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	41	34	29	35	30	25	29	25	22	24	21	18	16
8	53	40	33	27	48	38	31	26	32	26	22	27	22	19	22	19	16	14
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	15	12
10	46	34	26	22	42	31	25	20	27	22	18	23	18	15	19	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4741	4741	4741
5°	4796	4688	4669
10°	4857	4793	4902
15°	4957	5000	5239
20°	5083	5225	5534
25°	5191	5370	5637
30°	5263	5396	5532
35°	5243	5267	5216
40°	5169	5007	4760
45°	4985	4639	4242
50°	4701	4189	3732
55°	4449	3714	3244
60°	4089	3207	2770
65°	3748	2711	2332
70°	3389	2205	1905
75°	2925	1704	1481
80°	2418	1219	1068
85°	1767	770	730



TEST NUMBER: P183738

CATALOG NUMBER: I2-WS-3L30-1D-UNV-4-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	1.2
10°-20°	190.3	4.0
20°-30°	329.3	7.0
30°-40°	421.0	8.9
40°-50°	427.5	9.1
50°-60°	362.5	7.7
60°-70°	259.5	5.5
70°-80°	147.5	3.1
80°-90°	55.1	1.2
90°-100°	175.8	3.7
100°-110°	488.4	10.3
110°-120°	564.6	12.0
120°-130°	448.4	9.5
130°-140°	322.8	6.8
140°-150°	221.2	4.7
150°-160°	146.3	3.1
160°-170°	79.3	1.7
170°-180°	24.9	0.5
0°-30°	578.1	12.2
0°-40°	999.1	21.2
0°-60°	1789.2	37.9
0°-90°	2251.3	47.7
90°-120°	1228.7	26.0
90°-150°	2221.2	47.0
90°-180°	2472.0	52.3
0°-180°	4723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	600	596	605	609	609	57
15°	607	623	673	713	726	172
25°	603	642	730	786	803	278
35°	558	610	702	739	741	349
45°	466	515	587	593	582	358
55°	345	383	431	426	417	307
65°	222	247	276	274	270	221
75°	115	129	144	147	147	123
85°	32	39	50	58	58	34
90°	2	14	23	30	30	5
95°	51	65	123	280	336	59
105°	224	232	307	763	965	233
115°	337	348	402	824	1163	325
125°	309	360	436	664	790	277
135°	296	330	405	495	547	229
145°	286	311	362	386	396	180
155°	275	284	318	345	354	128
165°	264	269	280	286	286	75
175°	256	257	259	259	254	24
180°	251	251	251	251	251	



TEST NUMBER: P183738

CATALOG NUMBER: I2-WS-3L30-1D-UNV-4-STD

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9
2.5°	597.6	595.7	591.9	591.9	593.8	599.5	597.6	595.7	593.8	591.9
5°	599.5	595.7	595.7	597.6	601.3	608.9	608.9	608.9	608.9	608.9
7.5°	601.3	599.5	599.5	605.1	610.8	624.0	625.8	629.6	631.5	631.5
10°	603.2	601.3	605.1	614.5	625.8	642.8	650.4	656.0	659.8	661.7
12.5°	605.1	605.1	610.8	624.0	640.9	663.5	674.9	684.3	689.9	691.8
15°	607.0	608.9	618.3	637.2	659.8	686.2	703.1	716.3	723.9	725.8
17.5°	608.9	610.8	624.0	646.6	674.9	708.8	727.6	744.6	754.0	755.9
20°	608.9	612.7	629.6	657.9	691.8	727.6	750.3	767.2	776.7	780.4
22.5°	607.0	610.8	631.5	665.4	703.1	740.8	765.3	782.3	793.6	795.5
25°	603.2	608.9	633.4	669.2	710.7	750.3	774.8	789.9	799.3	803.0
27.5°	595.7	603.2	629.6	669.2	714.4	752.1	776.7	789.9	797.4	801.2
30°	588.1	595.7	624.0	665.4	710.7	748.4	769.1	782.3	788.0	789.9
32.5°	575.0	584.4	612.7	656.0	701.3	735.2	755.9	765.3	769.1	769.1
35°	558.0	567.4	599.5	642.8	686.2	718.2	735.2	740.8	740.8	740.8
37.5°	541.0	550.4	580.6	624.0	665.4	695.6	708.8	710.7	708.8	706.9
40°	518.4	527.8	558.0	601.3	640.9	665.4	674.9	673.0	669.2	667.3
42.5°	492.0	501.4	533.5	573.1	612.7	633.4	637.2	633.4	627.7	625.8
45°	465.6	475.0	505.2	544.8	578.7	595.7	597.6	591.9	584.4	582.5
47.5°	435.5	444.9	473.2	512.7	542.9	558.0	556.1	550.4	542.9	541.0
50°	403.4	414.7	441.1	478.8	503.3	516.5	514.6	507.1	499.5	497.7
52.5°	375.1	384.6	409.1	443.0	465.6	475.0	473.2	465.6	458.1	456.2
55°	345.0	352.5	375.1	405.3	426.0	435.5	431.7	424.1	416.6	416.6
57.5°	312.9	320.5	341.2	367.6	386.4	394.0	390.2	384.6	378.9	377.0
60°	280.9	290.3	309.2	331.8	348.7	352.5	350.6	345.0	341.2	339.3
62.5°	252.6	260.1	277.1	296.0	309.2	316.7	312.9	309.2	303.5	303.5
65°	222.4	230.0	243.2	260.1	273.3	279.0	277.1	273.3	269.6	269.6
67.5°	194.2	199.8	213.0	228.1	237.5	243.2	241.3	239.4	235.6	235.6
70°	167.8	171.5	182.9	194.2	203.6	209.2	209.2	207.4	205.5	205.5
72.5°	141.4	145.2	154.6	164.0	171.5	177.2	179.1	175.3	175.3	175.3
75°	115.0	120.6	126.3	135.7	141.4	147.0	148.9	147.0	147.0	147.0
77.5°	92.4	96.1	101.8	109.3	113.1	118.8	120.6	120.6	120.6	120.6
80°	69.7	73.5	79.2	82.9	88.6	94.3	96.1	96.1	98.0	96.1
82.5°	50.9	52.8	56.6	62.2	66.0	71.6	75.4	75.4	77.3	77.3
85°	32.0	33.9	37.7	43.4	47.1	52.8	56.6	58.4	58.4	58.4
87.5°	13.2	18.9	22.6	28.3	32.0	37.7	41.5	43.4	43.4	43.4
90°	1.9	9.4	13.2	17.0	20.7	24.5	28.3	30.2	30.2	30.2
92.5°	20.7	26.4	28.3	32.0	41.5	58.4	75.4	79.2	82.9	82.9
95°	50.9	60.3	64.1	66.0	88.6	156.5	239.4	294.1	322.3	335.5
97.5°	90.5	99.9	105.6	101.8	130.1	220.6	356.3	446.8	501.4	518.4
100°	132.0	143.3	148.9	139.5	171.5	275.2	461.8	578.7	656.0	686.2
102.5°	177.2	188.5	194.2	177.2	207.4	326.1	548.6	701.3	795.5	835.1
105°	224.3	231.9	237.5	214.9	241.3	373.2	618.3	810.6	921.8	965.2
107.5°	265.8	271.5	275.2	252.6	271.5	412.8	650.4	897.3	1029.3	1061.3
110°	301.6	307.3	307.3	288.4	299.7	441.1	650.4	952.0	1108.4	1166.9



TEST NUMBER: P183738

CATALOG NUMBER: I2-WS-3L30-1D-UNV-4-STD

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
112.5°	328.0	335.5	331.8	320.5	322.3	456.2	644.7	948.2	1142.4	1198.9
115°	337.4	350.6	348.7	346.9	348.7	456.2	644.7	884.1	1097.1	1163.1
117.5°	331.8	354.4	365.7	363.8	369.5	454.3	637.2	799.3	987.8	1067.0
120°	320.5	348.7	377.0	378.9	388.3	454.3	614.5	748.4	869.0	919.9
122.5°	312.9	328.0	373.2	382.7	403.4	452.4	591.9	712.6	804.9	831.3
125°	309.2	314.8	352.5	380.8	409.1	463.7	575.0	693.7	769.1	789.9
127.5°	303.5	309.2	335.5	369.5	407.2	465.6	542.9	667.3	727.6	750.3
130°	299.7	307.3	328.0	360.1	397.8	450.5	516.5	612.7	697.5	718.2
132.5°	297.8	305.4	326.1	358.2	394.0	439.2	482.6	533.5	597.6	607.0
135°	296.0	303.5	322.3	352.5	386.4	424.1	469.4	503.3	535.4	546.7
137.5°	294.1	301.6	316.7	346.9	377.0	401.5	441.1	480.7	509.0	518.4
140°	292.2	297.8	314.8	341.2	369.5	386.4	407.2	429.8	450.5	463.7
142.5°	290.3	296.0	309.2	333.7	361.9	378.9	390.2	401.5	409.1	412.8
145°	286.5	292.2	305.4	326.1	352.5	371.4	380.8	388.3	394.0	395.9
147.5°	284.6	286.5	297.8	316.7	343.1	361.9	373.2	378.9	382.7	384.6
150°	280.9	282.8	292.2	309.2	331.8	350.6	363.8	373.2	375.1	377.0
152.5°	277.1	279.0	286.5	299.7	320.5	339.3	350.6	361.9	367.6	369.5
155°	275.2	275.2	280.9	292.2	309.2	326.1	337.4	346.9	352.5	354.4
157.5°	273.3	273.3	277.1	286.5	297.8	311.0	324.2	331.8	337.4	339.3
160°	269.6	269.6	273.3	280.9	288.4	297.8	307.3	316.7	322.3	322.3
162.5°	267.7	267.7	269.6	275.2	282.8	288.4	292.2	296.0	299.7	299.7
165°	263.9	265.8	267.7	271.5	277.1	282.8	284.6	286.5	286.5	286.5
167.5°	262.0	263.9	265.8	267.7	271.5	275.2	277.1	279.0	279.0	279.0
170°	258.3	260.1	262.0	265.8	265.8	269.6	269.6	271.5	271.5	269.6
172.5°	256.4	258.3	260.1	262.0	263.9	263.9	263.9	263.9	262.0	262.0
175°	256.4	256.4	256.4	258.3	258.3	260.1	260.1	258.3	256.4	254.5
177.5°	254.5	254.5	254.5	254.5	252.6	254.5	252.6	252.6	250.7	248.8
180°	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7

(END OF REPORT)