

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: P183422

Luminaire Tested: **E2-WS-2L30-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26969)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-WS-2L30-1D-UNV-4-STD-DM8
Description: CORELITE ELEMENT SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 80% UP / 20% DOWN.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3528.6 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

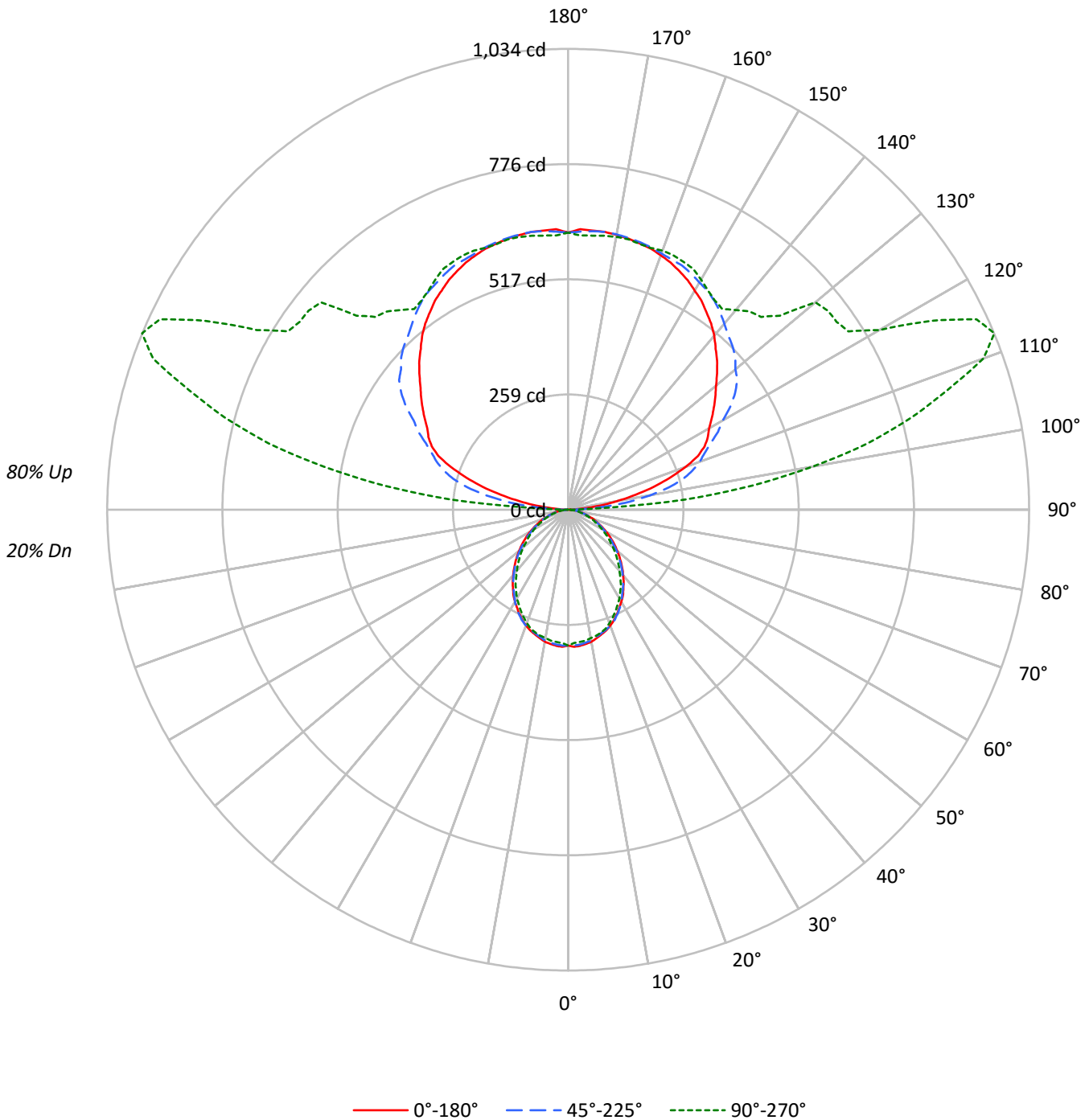
Input Watts (W): 35.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183422

CATALOG NUMBER: E2-WS-2L30-1D-UNV-4-STD-DM8

Luminous Intensity Polar Plot





TEST NUMBER: P183422

CATALOG NUMBER: E2-WS-2L30-1D-UNV-4-STD-DM8

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	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29	20
1	91	87	83	80	81	77	74	71	58	57	55	41	40	39	26	25	24	17
2	83	76	70	65	73	67	63	59	51	48	45	36	34	33	23	22	21	15
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18	12
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15	11
5	63	52	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13	9
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12	8
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10	7
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	12	11	10	8	6
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8	5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2444	2444	2444
5°	2452	2353	2285
10°	2422	2252	2165
15°	2364	2130	2059
20°	2310	2037	1922
25°	2223	1909	1763
30°	2134	1763	1610
35°	2027	1607	1449
40°	1910	1458	1275
45°	1793	1300	1127
50°	1670	1154	979
55°	1555	1004	851
60°	1425	857	719
65°	1291	725	589
70°	1175	591	474
75°	1010	453	358
80°	885	321	237
85°	707	197	124



TEST NUMBER: P183422

CATALOG NUMBER: E2-WS-2L30-1D-UNV-4-STD-DM8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.8
10°-20°	80.9	2.3
20°-30°	117.8	3.3
30°-40°	132.8	3.8
40°-50°	126.1	3.6
50°-60°	103.8	2.9
60°-70°	73.1	2.1
70°-80°	41.2	1.2
80°-90°	13.6	0.4
90°-100°	138.4	3.9
100°-110°	422.2	12.0
110°-120°	506.3	14.3
120°-130°	468.0	13.3
130°-140°	411.8	11.7
140°-150°	352.3	10.0
150°-160°	277.1	7.9
160°-170°	175.0	5.0
170°-180°	59.6	1.7
0°-30°	227.3	6.4
0°-40°	360.1	10.2
0°-60°	590.0	16.7
0°-90°	717.9	20.3
90°-120°	1066.9	30.2
90°-150°	2299.0	65.2
90°-180°	2811.0	79.7
0°-180°	3528.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	302	304	302	298	29
15°	290	287	287	287	285	82
25°	258	255	260	253	251	119
35°	216	217	214	209	206	135
45°	168	169	165	158	155	129
55°	121	122	116	111	109	108
65°	77	78	74	70	68	76
75°	40	41	38	37	36	43
85°	13	14	13	11	10	13
90°	1	4	3	1	0	3
95°	38	50	91	226	265	47
105°	199	203	267	663	796	208
115°	338	338	352	691	1010	329
125°	399	424	457	641	735	357
135°	473	485	521	572	612	364
145°	541	545	572	570	573	339
155°	590	586	604	609	613	272
165°	619	616	622	617	617	175
175°	629	626	627	623	617	60
180°	622	622	622	622	622	



TEST NUMBER: P183422

CATALOG NUMBER: E2-WS-2L30-1D-UNV-4-STD-DM8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.1	305.1	305.1	305.1	305.1
2.5°	307.9	303.7	305.1	303.7	299.4
5°	306.5	302.3	303.7	302.3	298.0
7.5°	303.7	299.4	300.8	299.4	296.6
10°	300.8	296.6	298.0	295.2	292.3
12.5°	295.2	292.3	292.3	289.5	289.5
15°	289.5	286.7	286.7	286.7	285.2
17.5°	283.8	279.6	282.4	282.4	279.6
20°	276.7	272.5	276.7	273.9	271.0
22.5°	268.2	265.4	269.6	264.0	261.1
25°	258.3	255.4	259.7	252.6	251.2
27.5°	248.3	246.9	249.8	242.7	239.8
30°	238.4	237.0	238.4	232.7	229.9
32.5°	228.5	227.1	225.6	220.0	217.1
35°	215.7	217.1	214.3	208.6	205.8
37.5°	204.4	205.8	202.9	195.8	191.6
40°	191.6	194.4	190.2	183.1	178.8
42.5°	180.2	181.6	177.4	170.3	167.5
45°	167.5	168.9	164.6	157.5	154.7
47.5°	156.1	157.5	153.3	146.2	143.3
50°	143.3	144.7	140.5	133.4	130.6
52.5°	132.0	133.4	127.7	122.0	119.2
55°	120.6	122.0	116.4	110.7	109.3
57.5°	109.3	110.7	105.0	100.8	97.9
60°	97.9	99.3	93.7	89.4	88.0
62.5°	86.6	88.0	83.7	79.5	78.1
65°	76.6	78.1	73.8	69.5	68.1
67.5°	66.7	68.1	63.9	61.0	59.6
70°	58.2	58.2	55.3	52.5	51.1
72.5°	48.2	49.7	46.8	44.0	42.6
75°	39.7	41.2	38.3	36.9	35.5
77.5°	32.6	34.1	31.2	29.8	28.4
80°	25.5	27.0	24.1	22.7	21.3
82.5°	18.4	19.9	18.4	17.0	15.6
85°	12.8	14.2	12.8	11.4	9.9
87.5°	5.7	8.5	5.7	5.7	4.3
90°	1.4	4.3	2.8	1.4	0.0
92.5°	14.2	19.9	29.8	51.1	55.3
95°	38.3	49.7	90.8	225.6	265.4
97.5°	72.4	85.1	139.1	353.4	417.2
100°	110.7	123.5	187.3	465.5	556.3
102.5°	154.7	164.6	231.3	569.1	688.3
105°	198.7	202.9	266.8	662.7	796.1
107.5°	239.8	242.7	292.3	733.7	891.2
110°	279.6	275.3	313.6	762.1	990.5



TEST NUMBER: P183422

CATALOG NUMBER: E2-WS-2L30-1D-UNV-4-STD-DM8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	315.0	307.9	330.7	740.8	1034.5
115°	337.7	337.7	351.9	691.1	1010.4
117.5°	353.4	363.3	378.9	665.6	918.2
120°	364.7	390.3	400.2	655.6	806.0
122.5°	381.7	413.0	431.4	647.1	745.0
125°	398.8	424.3	457.0	641.4	735.1
127.5°	415.8	432.8	478.2	640.0	733.7
130°	432.8	447.0	489.6	614.5	723.7
132.5°	452.7	466.9	508.0	570.5	644.3
135°	472.6	485.3	520.8	571.9	611.6
137.5°	489.6	499.5	530.7	571.9	603.1
140°	509.5	516.6	544.9	560.5	584.7
142.5°	526.5	532.2	559.1	560.5	567.6
145°	540.7	544.9	571.9	570.5	573.3
147.5°	556.3	557.7	581.8	583.3	583.3
150°	567.6	567.6	588.9	596.0	596.0
152.5°	580.4	577.6	597.4	604.5	608.8
155°	590.3	586.1	604.5	608.8	613.1
157.5°	600.3	596.0	607.4	614.5	617.3
160°	607.4	603.1	611.6	615.9	618.7
162.5°	614.5	608.8	617.3	614.5	615.9
165°	618.7	615.9	621.6	617.3	617.3
167.5°	623.0	621.6	624.4	621.6	621.6
170°	625.8	624.4	627.2	623.0	621.6
172.5°	628.7	625.8	628.7	623.0	620.1
175°	628.7	625.8	627.2	623.0	617.3
177.5°	630.1	624.4	624.4	618.7	615.9
180°	621.6	621.6	621.6	621.6	621.6

(END OF REPORT)