

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: P183421

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183421
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-1L30-1D-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: 2827.7 lumens
Efficiency: N/A
Efficacy: 108.3 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

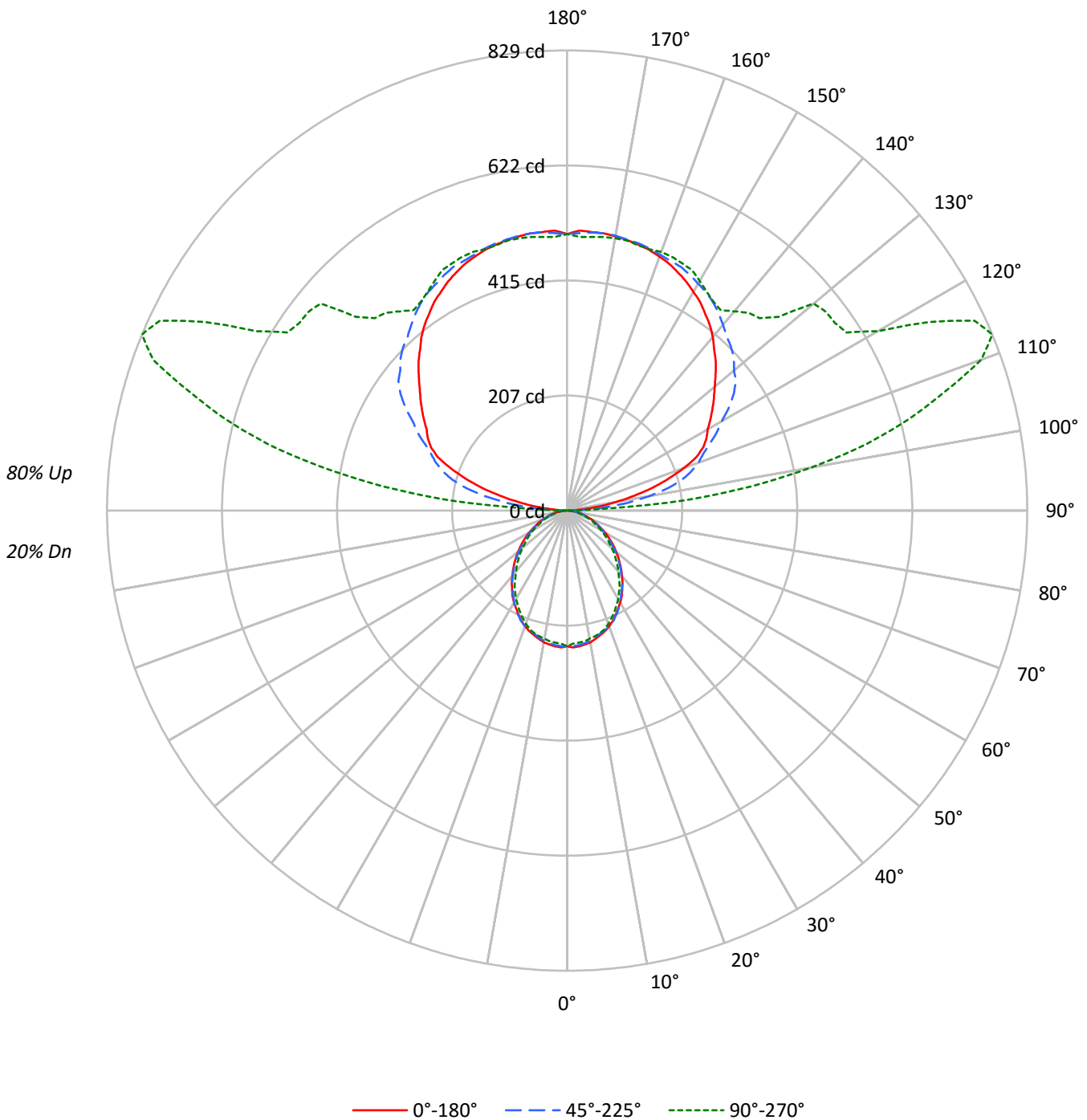
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	1959	1959	1959
5°	1965	1886	1831
10°	1941	1804	1736
15°	1894	1707	1650
20°	1852	1633	1540
25°	1781	1530	1413
30°	1710	1414	1290
35°	1625	1288	1161
40°	1530	1168	1022
45°	1437	1042	903
50°	1339	925	784
55°	1247	805	682
60°	1143	687	576
65°	1035	580	472
70°	941	474	379
75°	809	363	286
80°	711	257	190
85°	563	157	100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	0.8
10°-20°	64.8	2.3
20°-30°	94.4	3.3
30°-40°	106.4	3.8
40°-50°	101.1	3.6
50°-60°	83.2	2.9
60°-70°	58.5	2.1
70°-80°	33.0	1.2
80°-90°	10.9	0.4
90°-100°	110.9	3.9
100°-110°	338.4	12.0
110°-120°	405.7	14.3
120°-130°	375.0	13.3
130°-140°	330.0	11.7
140°-150°	282.4	10.0
150°-160°	222.1	7.9
160°-170°	140.2	5.0
170°-180°	47.8	1.7
0°-30°	182.2	6.4
0°-40°	288.6	10.2
0°-60°	472.8	16.7
0°-90°	575.3	20.3
90°-120°	855.0	30.2
90°-150°	1842.4	65.2
90°-180°	2252.0	79.6
0°-180°	2827.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	244	244	244	244	244	
5°	246	242	243	242	239	23
15°	232	230	230	230	229	65
25°	207	205	208	202	201	95
35°	173	174	172	167	165	108
45°	134	135	132	126	124	104
55°	97	98	93	89	88	86
65°	61	62	59	56	55	61
75°	32	33	31	30	28	34
85°	10	11	10	9	8	10
90°	1	3	2	1	0	2
95°	31	40	73	181	213	38
105°	159	163	214	531	638	167
115°	271	271	282	554	810	264
125°	320	340	366	514	589	286
135°	379	389	417	458	490	292
145°	433	437	458	457	459	272
155°	473	470	484	488	491	218
165°	496	494	498	495	495	140
175°	504	502	503	499	495	48
180°	498	498	498	498	498	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	244.5	244.5	244.5	244.5	244.5
2.5°	246.8	243.4	244.5	243.4	240.0
5°	245.6	242.2	243.4	242.2	238.8
7.5°	243.4	240.0	241.1	240.0	237.7
10°	241.1	237.7	238.8	236.5	234.3
12.5°	236.5	234.3	234.3	232.0	232.0
15°	232.0	229.7	229.7	229.7	228.6
17.5°	227.4	224.0	226.3	226.3	224.0
20°	221.8	218.4	221.8	219.5	217.2
22.5°	214.9	212.7	216.1	211.5	209.3
25°	207.0	204.7	208.1	202.4	201.3
27.5°	199.0	197.9	200.2	194.5	192.2
30°	191.1	189.9	191.1	186.5	184.2
32.5°	183.1	182.0	180.8	176.3	174.0
35°	172.9	174.0	171.7	167.2	164.9
37.5°	163.8	164.9	162.6	156.9	153.5
40°	153.5	155.8	152.4	146.7	143.3
42.5°	144.4	145.6	142.2	136.5	134.2
45°	134.2	135.3	131.9	126.2	124.0
47.5°	125.1	126.2	122.8	117.1	114.9
50°	114.9	116.0	112.6	106.9	104.6
52.5°	105.8	106.9	102.4	97.8	95.5
55°	96.7	97.8	93.3	88.7	87.6
57.5°	87.6	88.7	84.2	80.7	78.5
60°	78.5	79.6	75.1	71.6	70.5
62.5°	69.4	70.5	67.1	63.7	62.5
65°	61.4	62.5	59.1	55.7	54.6
67.5°	53.5	54.6	51.2	48.9	47.8
70°	46.6	46.6	44.4	42.1	40.9
72.5°	38.7	39.8	37.5	35.3	34.1
75°	31.8	33.0	30.7	29.6	28.4
77.5°	26.2	27.3	25.0	23.9	22.7
80°	20.5	21.6	19.3	18.2	17.1
82.5°	14.8	15.9	14.8	13.6	12.5
85°	10.2	11.4	10.2	9.1	8.0
87.5°	4.5	6.8	4.5	4.5	3.4
90°	1.1	3.4	2.3	1.1	0.0
92.5°	11.4	15.9	23.9	40.9	44.4
95°	30.7	39.8	72.8	180.8	212.7
97.5°	58.0	68.2	111.4	283.2	334.3
100°	88.7	98.9	150.1	373.0	445.8
102.5°	124.0	131.9	185.4	456.0	551.6
105°	159.2	162.6	213.8	531.1	638.0
107.5°	192.2	194.5	234.3	588.0	714.2
110°	224.0	220.6	251.3	610.7	793.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	252.5	246.8	265.0	593.6	829.0
115°	270.7	270.7	282.0	553.8	809.7
117.5°	283.2	291.1	303.6	533.4	735.8
120°	292.3	312.7	320.7	525.4	646.0
122.5°	305.9	330.9	345.7	518.6	597.1
125°	319.6	340.0	366.2	514.0	589.1
127.5°	333.2	346.9	383.3	512.9	588.0
130°	346.9	358.2	392.3	492.4	580.0
132.5°	362.8	374.2	407.1	457.2	516.3
135°	378.7	388.9	417.4	458.3	490.2
137.5°	392.3	400.3	425.3	458.3	483.3
140°	408.3	414.0	436.7	449.2	468.5
142.5°	421.9	426.5	448.1	449.2	454.9
145°	433.3	436.7	458.3	457.2	459.4
147.5°	445.8	446.9	466.3	467.4	467.4
150°	454.9	454.9	472.0	477.6	477.6
152.5°	465.1	462.9	478.8	484.5	487.9
155°	473.1	469.7	484.5	487.9	491.3
157.5°	481.1	477.6	486.7	492.4	494.7
160°	486.7	483.3	490.2	493.6	495.8
162.5°	492.4	487.9	494.7	492.4	493.6
165°	495.8	493.6	498.1	494.7	494.7
167.5°	499.2	498.1	500.4	498.1	498.1
170°	501.5	500.4	502.7	499.2	498.1
172.5°	503.8	501.5	503.8	499.2	497.0
175°	503.8	501.5	502.7	499.2	494.7
177.5°	504.9	500.4	500.4	495.8	493.6
180°	498.1	498.1	498.1	498.1	498.1

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