

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: P183481

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26967)  
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  
Description: CORELITE ELEMENT SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.  
WaveStream WITH FROSTED LENS. 65% UP / 35% DOWN.  
Light Source: (336)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2902.7 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.48 / 1.47  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: Semi-Indirect

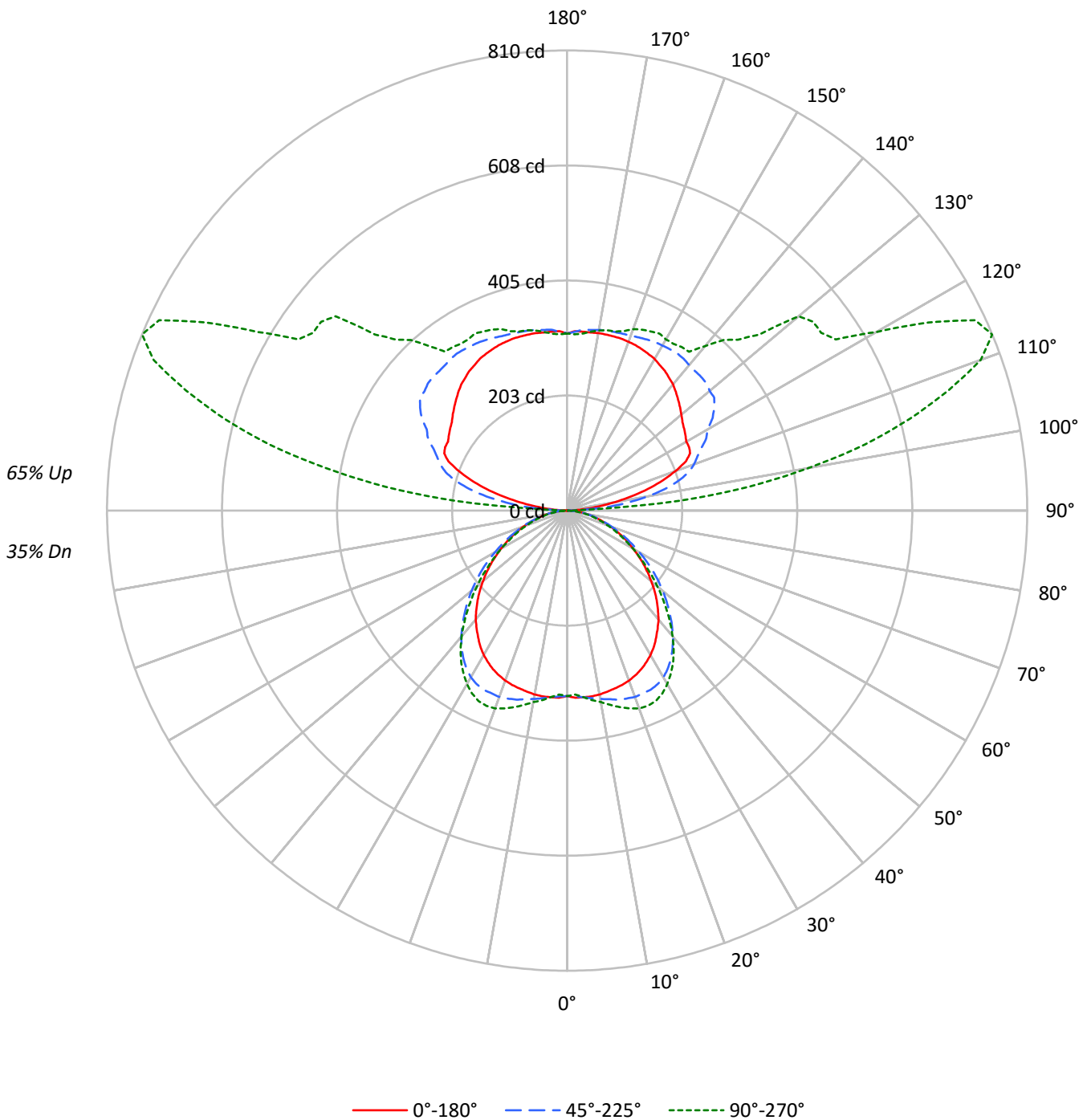
Input Watts (W): 26.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	94	90	86	83	85	82	78	76	66	63	61	51	49	48	37	36	36	29
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30	25
3	78	69	62	56	71	63	57	52	51	46	43	39	36	34	29	27	26	21
4	72	61	53	48	64	56	49	44	45	40	36	35	32	29	26	24	22	18
5	66	54	46	41	59	49	43	37	40	35	31	31	28	25	23	21	19	16
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17	14
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	29	25	30	25	21	23	20	17	18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2615	2615	2615
5°	2639	2555	2529
10°	2647	2543	2536
15°	2647	2560	2586
20°	2658	2570	2629
25°	2652	2558	2595
30°	2626	2507	2469
35°	2564	2388	2290
40°	2495	2223	2061
45°	2386	2012	1805
50°	2253	1803	1552
55°	2112	1579	1311
60°	1953	1342	1096
65°	1802	1116	886
70°	1630	900	696
75°	1447	685	527
80°	1225	471	353
85°	944	264	170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.6	1.1
10°-20°	96.9	3.3
20°-30°	157.4	5.4
30°-40°	191.7	6.6
40°-50°	188.8	6.5
50°-60°	156.3	5.4
60°-70°	108.9	3.8
70°-80°	60.2	2.1
80°-90°	18.3	0.6
90°-100°	106.4	3.7
100°-110°	326.9	11.3
110°-120°	382.9	13.2
120°-130°	329.3	11.3
130°-140°	265.0	9.1
140°-150°	207.0	7.1
150°-160°	152.9	5.3
160°-170°	91.8	3.2
170°-180°	30.3	1.0
0°-30°	285.9	9.9
0°-40°	477.6	16.5
0°-60°	822.8	28.3
0°-90°	1010.1	34.8
90°-120°	816.2	28.1
90°-150°	1617.6	55.7
90°-180°	1893.0	65.2
0°-180°	2902.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	326	326	326	326	326	
5°	330	326	330	330	330	31
15°	324	328	345	355	358	92
25°	308	318	348	365	370	142
35°	273	287	318	325	325	171
45°	223	236	255	254	248	172
55°	164	175	183	174	168	146
65°	107	114	114	107	102	106
75°	57	59	58	53	52	60
85°	17	18	17	15	14	17
90°	0	2	1	1	1	3
95°	30	39	69	175	198	36
105°	148	156	204	519	624	154
115°	239	243	260	544	793	230
125°	251	282	316	468	546	226
135°	276	292	333	384	425	214
145°	300	308	338	346	351	188
155°	313	315	332	345	348	145
165°	317	318	325	326	326	90
175°	316	316	320	317	313	30
180°	312	312	312	312	312	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	326.4	326.4	326.4	326.4	326.4
2.5°	329.8	326.4	327.5	327.5	324.1
5°	329.8	326.4	329.8	329.8	329.8
7.5°	329.8	327.5	333.2	335.5	336.6
10°	328.7	327.5	336.6	341.2	342.3
12.5°	326.4	327.5	340.0	348.0	350.3
15°	324.1	327.5	344.6	354.8	358.2
17.5°	321.8	326.4	346.9	360.5	365.0
20°	318.4	325.2	349.1	363.9	370.7
22.5°	313.9	321.8	348.0	365.0	371.9
25°	308.2	318.4	348.0	365.0	369.6
27.5°	301.4	312.7	344.6	360.5	362.8
30°	293.4	304.8	338.9	351.4	352.5
32.5°	284.3	298.0	329.8	338.9	340.0
35°	272.9	286.6	318.4	325.2	325.2
37.5°	261.6	276.3	304.8	308.2	308.2
40°	250.2	263.8	290.0	291.1	288.9
42.5°	236.5	250.2	272.9	272.9	268.4
45°	222.9	236.5	254.7	253.6	247.9
47.5°	208.1	221.8	237.7	233.1	227.4
50°	193.3	207.0	219.5	212.7	207.0
52.5°	178.5	192.2	201.3	193.3	187.6
55°	163.8	175.1	183.1	174.0	168.3
57.5°	149.0	159.2	164.9	155.8	150.1
60°	134.2	143.3	146.7	138.7	134.2
62.5°	120.5	128.5	129.6	121.7	117.1
65°	106.9	113.7	113.7	106.9	102.4
67.5°	93.3	98.9	97.8	92.1	88.7
70°	80.7	85.3	84.2	78.5	75.1
72.5°	68.2	71.6	70.5	66.0	63.7
75°	56.9	59.1	58.0	53.4	52.3
77.5°	45.5	47.8	46.6	43.2	40.9
80°	35.3	37.5	35.3	33.0	31.8
82.5°	25.0	27.3	26.2	23.9	22.7
85°	17.1	18.2	17.1	14.8	13.6
87.5°	8.0	9.1	8.0	5.7	5.7
90°	0.0	2.3	1.1	1.1	1.1
92.5°	11.4	15.9	21.6	36.4	25.0
95°	29.6	38.7	69.4	175.1	197.9
97.5°	55.7	64.8	108.0	278.6	323.0
100°	84.2	95.5	144.4	367.3	432.1
102.5°	114.9	126.2	176.3	448.1	536.8
105°	147.8	155.8	203.6	518.6	624.3
107.5°	176.3	183.1	224.0	570.9	703.9
110°	202.4	207.0	237.7	592.5	774.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	226.3	226.3	247.9	578.8	809.7
115°	238.8	243.4	260.4	543.6	792.6
117.5°	242.2	255.9	276.3	516.3	716.5
120°	242.2	271.8	285.4	499.2	628.9
122.5°	246.8	282.0	303.6	479.9	560.7
125°	251.3	282.0	316.1	468.5	545.9
127.5°	255.9	278.6	326.4	464.0	545.9
130°	262.7	282.0	327.5	435.6	532.2
132.5°	269.5	287.7	332.1	390.1	458.3
135°	276.3	292.3	333.2	384.4	425.3
137.5°	283.2	295.7	333.2	377.6	407.1
140°	290.0	300.2	334.3	357.1	377.6
142.5°	294.5	304.8	336.6	346.9	352.5
145°	300.2	308.2	337.8	345.7	351.4
147.5°	303.6	310.5	336.6	345.7	348.0
150°	308.2	312.7	335.5	349.1	348.0
152.5°	310.5	313.9	334.3	346.9	351.4
155°	312.7	315.0	332.1	344.6	348.0
157.5°	315.0	316.1	329.8	341.2	344.6
160°	316.1	317.3	327.5	336.6	340.0
162.5°	317.3	317.3	326.4	328.7	330.9
165°	317.3	318.4	325.2	326.4	326.4
167.5°	317.3	319.6	324.1	325.2	325.2
170°	317.3	319.6	323.0	321.8	321.8
172.5°	316.1	317.3	320.7	318.4	317.3
175°	316.1	316.1	319.6	317.3	312.7
177.5°	316.1	313.9	315.0	312.7	310.5
180°	311.6	311.6	311.6	311.6	311.6

(END OF REPORT)