

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: P183545

Luminaire Tested: **E2-WS-5L30-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183545  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26966)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E2-WS-5L30-1D-UNV-4-STD-DM5  
Description: CORELITE ELEMENT 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: 6611.4 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.37 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')  
CIE Type: General Diffuse

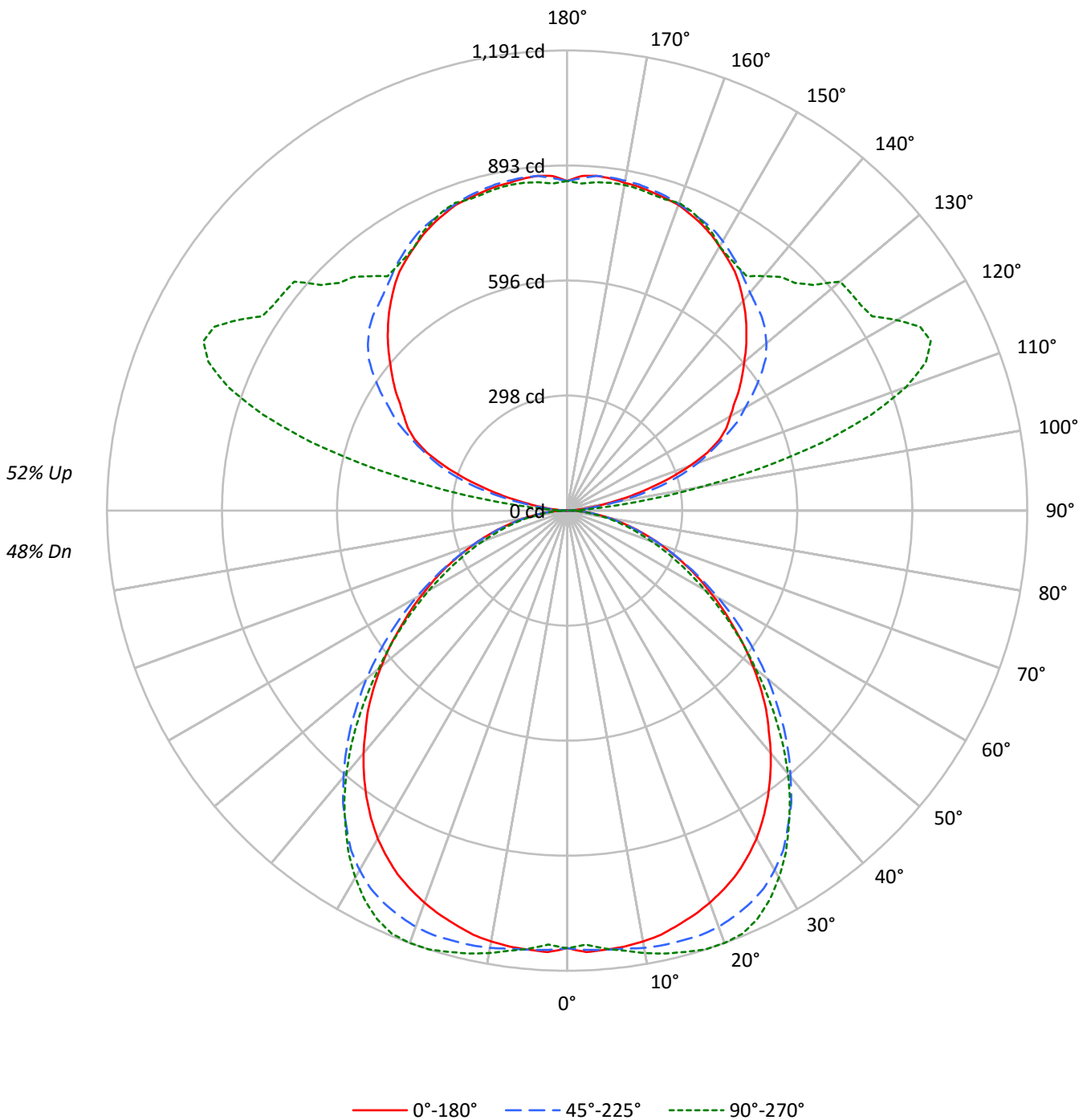
Input Watts (W): 79.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	33	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	36	31	27	31	26	23	25	22	20	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	21	18	16	14
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	9073	9073	9073
5°	9128	8839	8727
10°	9119	8683	8617
15°	9068	8559	8536
20°	9016	8440	8444
25°	8937	8244	8184
30°	8773	7948	7680
35°	8508	7477	7038
40°	8173	6899	6340
45°	7797	6257	5566
50°	7326	5574	4776
55°	6785	4848	4054
60°	6288	4129	3369
65°	5787	3426	2731
70°	5200	2751	2157
75°	4578	2094	1617
80°	3844	1440	1077
85°	2905	768	519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.8	1.6
10°-20°	324.5	4.9
20°-30°	509.5	7.7
30°-40°	605.9	9.2
40°-50°	590.9	8.9
50°-60°	486.8	7.4
60°-70°	338.6	5.1
70°-80°	186.1	2.8
80°-90°	55.5	0.8
90°-100°	74.8	1.1
100°-110°	383.0	5.8
110°-120°	587.9	8.9
120°-130°	613.8	9.3
130°-140°	561.8	8.5
140°-150°	479.9	7.3
150°-160°	379.9	5.7
160°-170°	241.5	3.7
170°-180°	82.3	1.2
0°-30°	942.8	14.3
0°-40°	1548.7	23.4
0°-60°	2626.4	39.7
0°-90°	3206.5	48.5
90°-120°	1045.7	15.8
90°-150°	2701.2	40.9
90°-180°	3405.0	51.5
0°-180°	6611.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1141	1130	1141	1138	1138	109
15°	1110	1113	1152	1177	1182	314
25°	1038	1055	1122	1155	1166	478
35°	906	928	997	1002	1000	566
45°	728	756	792	775	764	560
55°	526	551	562	537	521	473
65°	343	354	349	330	316	340
75°	180	186	177	166	161	192
85°	53	55	50	44	42	55
90°	0	3	3	3	3	5
95°	28	30	36	78	86	39
105°	216	216	255	559	687	229
115°	435	429	449	786	1038	422
125°	543	576	612	820	928	485
135°	656	667	712	778	834	507
145°	756	759	773	764	770	472
155°	820	817	828	828	825	378
165°	853	853	858	850	847	241
175°	870	861	870	864	853	83
180°	853	853	853	853	853	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1132.6	1132.6	1132.6	1132.6	1132.6
2.5°	1143.7	1129.8	1138.1	1135.4	1124.3
5°	1140.9	1129.8	1140.9	1138.1	1138.1
7.5°	1138.1	1127.1	1143.7	1149.2	1149.2
10°	1132.6	1124.3	1149.2	1157.5	1163.1
12.5°	1124.3	1118.8	1152.0	1168.6	1174.1
15°	1110.5	1113.2	1152.0	1176.9	1182.5
17.5°	1096.6	1104.9	1152.0	1179.7	1190.8
20°	1080.0	1091.1	1146.5	1179.7	1190.8
22.5°	1060.6	1074.5	1135.4	1171.4	1185.2
25°	1038.5	1055.1	1121.5	1154.8	1165.8
27.5°	1010.8	1030.1	1102.1	1129.8	1135.4
30°	980.3	999.7	1074.5	1093.8	1096.6
32.5°	944.3	969.2	1041.2	1052.3	1052.3
35°	905.5	927.7	996.9	1002.5	999.7
37.5°	864.0	888.9	952.6	949.8	947.1
40°	819.7	844.6	900.0	894.5	888.9
42.5°	772.6	800.3	847.4	836.3	828.0
45°	728.3	756.0	792.0	775.4	764.3
47.5°	678.5	706.1	733.8	717.2	700.6
50°	628.6	653.5	678.5	650.8	636.9
52.5°	578.8	603.7	620.3	595.4	578.8
55°	526.2	551.1	562.2	537.2	520.6
57.5°	479.1	498.5	506.8	481.8	465.2
60°	432.0	448.6	451.4	429.2	412.6
62.5°	387.7	401.5	398.8	376.6	362.8
65°	343.4	354.5	348.9	329.5	315.7
67.5°	299.1	307.4	301.8	285.2	274.2
70°	257.5	265.8	257.5	240.9	232.6
72.5°	218.8	224.3	216.0	202.2	193.8
75°	180.0	185.5	177.2	166.2	160.6
77.5°	144.0	146.8	141.2	132.9	127.4
80°	110.8	113.5	108.0	102.5	96.9
82.5°	80.3	83.1	77.5	74.8	69.2
85°	52.6	55.4	49.8	44.3	41.5
87.5°	24.9	27.7	22.2	19.4	16.6
90°	0.0	2.8	2.8	2.8	2.8
92.5°	8.3	11.1	11.1	16.6	16.6
95°	27.7	30.5	36.0	77.5	85.8
97.5°	60.9	63.7	77.5	182.8	202.2
100°	102.5	108.0	130.2	310.2	351.7
102.5°	157.8	160.6	193.8	443.1	520.6
105°	216.0	216.0	254.8	559.4	686.8
107.5°	276.9	268.6	312.9	653.5	825.2
110°	337.8	326.8	360.0	717.2	933.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	393.2	379.4	404.3	756.0	1005.2
115°	434.8	429.2	448.6	786.5	1038.5
117.5°	465.2	473.5	495.7	808.6	1030.1
120°	487.4	515.1	531.7	828.0	985.8
122.5°	512.3	551.1	573.2	822.5	936.0
125°	542.8	576.0	612.0	819.7	927.7
127.5°	570.5	592.6	648.0	822.5	924.9
130°	598.2	617.5	672.9	803.1	922.1
132.5°	628.6	642.5	695.1	775.4	864.0
135°	656.3	667.4	711.7	778.1	833.5
137.5°	684.0	689.5	722.8	780.9	819.7
140°	708.9	711.7	736.6	761.5	792.0
142.5°	733.8	736.6	753.2	756.0	764.3
145°	756.0	758.8	772.6	764.3	769.8
147.5°	772.6	775.4	789.2	778.1	778.1
150°	789.2	789.2	805.8	794.8	789.2
152.5°	805.8	803.1	819.7	811.4	811.4
155°	819.7	816.9	828.0	828.0	825.2
157.5°	830.8	828.0	836.3	841.8	839.1
160°	841.8	839.1	844.6	844.6	847.4
162.5°	847.4	847.4	852.9	844.6	844.6
165°	852.9	852.9	858.5	850.1	847.4
167.5°	858.5	858.5	864.0	855.7	852.9
170°	861.2	861.2	866.8	858.5	855.7
172.5°	866.8	864.0	869.5	861.2	855.7
175°	869.5	861.2	869.5	864.0	852.9
177.5°	866.8	858.5	861.2	852.9	847.4
180°	852.9	852.9	852.9	852.9	852.9

(END OF REPORT)