

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: P234657

Luminaire Tested: **CTA-F-7525-50L830-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-3D)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-7525-50L830-UNV-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT  
Light Source: (1008) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

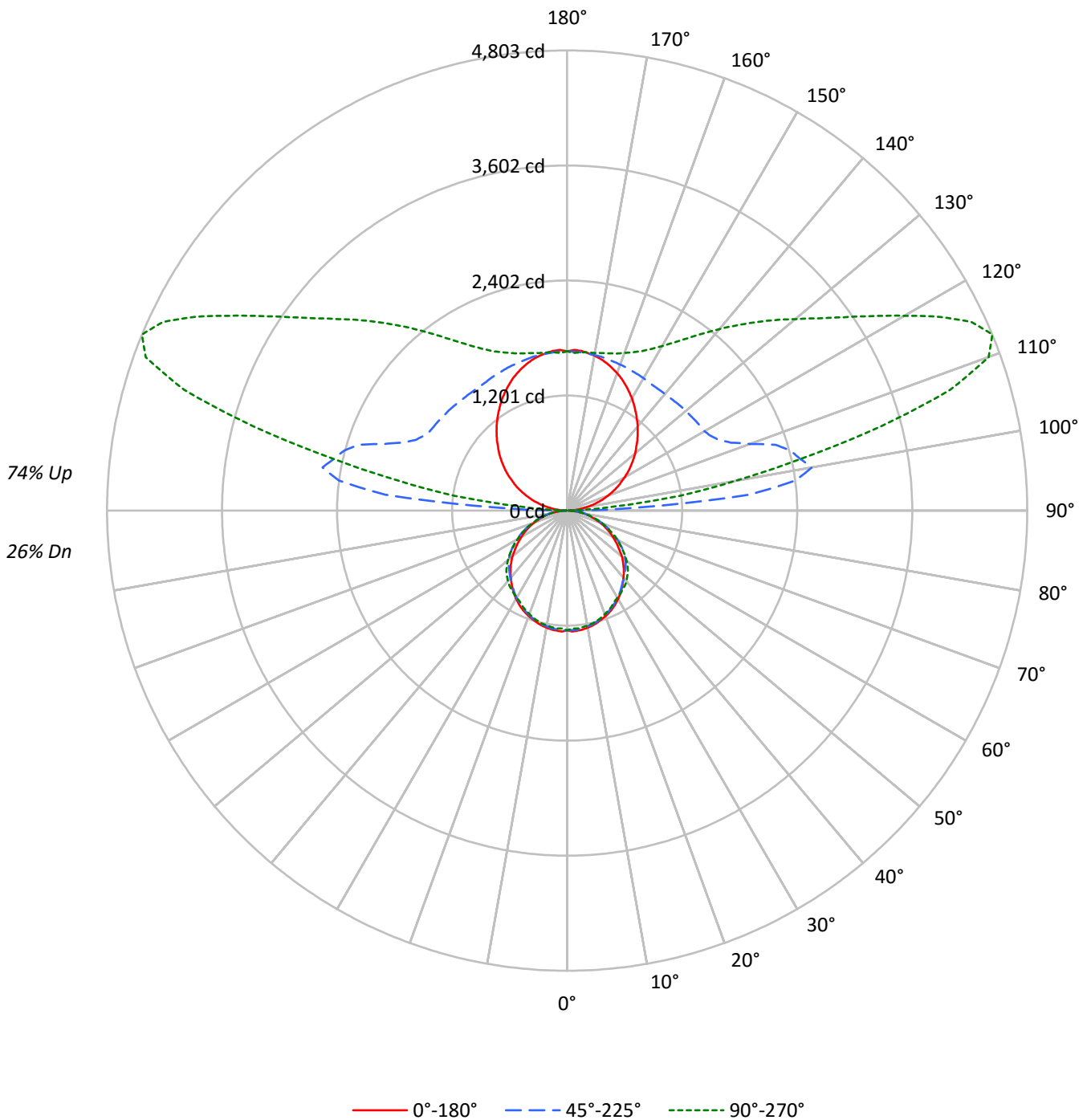
Lumens per Lamp: N/A  
Luminaire Lumens: 14597.8 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 104.4  
Input Voltage (V): 120  
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	78	75	72	61	59	57	44	43	42	29	29	28	21
2	84	76	70	65	74	68	63	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	54	68	60	54	49	46	42	39	34	31	29	23	21	20	15
4	70	59	51	46	62	53	46	41	41	37	33	30	27	25	20	18	17	12
5	64	52	45	39	56	47	40	35	37	32	28	27	24	21	18	16	14	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	7
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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

	0°	45°	90°
0°	2689	2689	2689
5°	2718	2693	2668
10°	2711	2680	2661
15°	2700	2674	2655
20°	2683	2656	2637
25°	2672	2638	2617
30°	2646	2617	2610
35°	2608	2592	2645
40°	2569	2586	2707
45°	2538	2608	2731
50°	2502	2657	2705
55°	2425	2652	2631
60°	2384	2608	2571
65°	2336	2542	2513
70°	2288	2469	2433
75°	2231	2399	2351
80°	2216	2324	2252
85°	2067	2280	2136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	0.8
10°-20°	338.3	2.3
20°-30°	511.3	3.5
30°-40°	621.4	4.3
40°-50°	663.1	4.5
50°-60°	611.6	4.2
60°-70°	482.7	3.3
70°-80°	301.3	2.1
80°-90°	101.8	0.7
90°-100°	872.5	6.0
100°-110°	2235.5	15.3
110°-120°	2234.6	15.3
120°-130°	1728.9	11.8
130°-140°	1364.6	9.3
140°-150°	1040.4	7.1
150°-160°	749.9	5.1
160°-170°	463.7	3.2
170°-180°	158.0	1.1
0°-30°	967.9	6.6
0°-40°	1589.2	10.9
0°-60°	2863.9	19.6
0°-90°	3749.7	25.7
90°-120°	5342.7	36.6
90°-150°	9476.6	64.9
90°-180°	10848.0	74.3
0°-180°	14597.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1258	1246	1246	1240	1235	120
15°	1212	1197	1200	1197	1191	342
25°	1125	1111	1111	1105	1102	518
35°	992	981	986	998	1007	621
45°	834	831	857	886	897	643
55°	646	649	707	701	701	579
65°	459	482	499	493	493	455
75°	268	288	288	288	283	285
85°	84	92	92	95	86	90
90°	9	9	9	9	6	15
95°	92	323	1907	871	516	99
105°	329	525	2412	3955	3386	347
115°	574	721	1745	3940	4656	567
125°	811	935	1636	2928	3516	725
135°	1036	1131	1601	2394	2781	799
145°	1249	1310	1584	1982	2198	782
155°	1445	1468	1607	1754	1835	666
165°	1592	1589	1636	1679	1699	449
175°	1673	1653	1659	1659	1659	159
180°	1662	1662	1662	1662	1662	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1263.5	1249.0	1249.0	1246.2	1231.7
5°	1257.7	1246.2	1246.2	1240.4	1234.6
7.5°	1251.9	1240.4	1240.4	1234.6	1228.8
10°	1240.4	1226.0	1226.0	1223.1	1217.3
12.5°	1228.8	1214.4	1217.3	1211.5	1208.7
15°	1211.5	1197.1	1200.0	1197.1	1191.3
17.5°	1191.3	1179.8	1182.7	1179.8	1174.0
20°	1171.2	1156.7	1159.6	1156.7	1151.0
22.5°	1151.0	1136.5	1136.5	1130.8	1127.9
25°	1125.0	1110.6	1110.6	1104.8	1101.9
27.5°	1096.2	1081.7	1081.7	1076.0	1070.2
30°	1064.4	1050.0	1052.9	1044.2	1050.0
32.5°	1029.8	1018.3	1021.2	1024.0	1032.7
35°	992.3	980.8	986.5	998.1	1006.7
37.5°	954.8	946.2	949.0	975.0	989.4
40°	914.4	908.7	920.2	951.9	963.5
42.5°	876.9	871.2	888.5	923.1	928.8
45°	833.7	830.8	856.7	885.6	897.1
47.5°	790.4	787.5	827.9	851.0	853.8
50°	747.1	744.2	793.3	804.8	807.7
52.5°	692.3	695.2	752.9	758.7	758.7
55°	646.2	649.0	706.7	701.0	701.0
57.5°	600.0	608.7	657.7	649.0	651.9
60°	553.8	565.4	605.8	600.0	597.1
62.5°	507.7	525.0	553.8	545.2	545.2
65°	458.7	481.7	499.0	493.3	493.3
67.5°	412.5	438.5	447.1	441.3	438.5
70°	363.5	392.3	392.3	389.4	386.5
72.5°	317.3	340.4	340.4	337.5	334.6
75°	268.3	288.5	288.5	288.5	282.7
77.5°	222.1	236.5	239.4	236.5	230.8
80°	178.8	187.5	187.5	184.6	181.7
82.5°	135.6	138.5	138.5	138.5	132.7
85°	83.7	92.3	92.3	95.2	86.5
87.5°	46.2	49.0	51.9	49.0	43.3
90°	8.7	8.7	8.7	8.7	5.8
92.5°	46.2	210.6	741.3	170.2	115.4
95°	92.3	323.1	1906.7	871.2	516.3
97.5°	147.1	386.5	2402.9	1563.5	1179.8
100°	204.8	496.2	2593.3	2299.0	1765.4
102.5°	265.4	522.1	2492.3	3204.8	2503.8
105°	328.8	525.0	2411.5	3954.8	3386.5
107.5°	392.3	545.2	2281.7	4373.1	4191.3
110°	450.0	600.0	2030.8	4462.5	4681.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	513.5	660.6	1851.9	4257.7	4802.9
115°	574.0	721.2	1745.2	3940.4	4655.8
117.5°	631.7	778.8	1687.5	3623.1	4378.8
120°	692.3	833.7	1655.8	3343.3	4067.3
122.5°	752.9	885.6	1644.2	3112.5	3776.0
125°	810.6	934.6	1635.6	2927.9	3516.3
127.5°	868.3	983.7	1624.0	2777.9	3294.2
130°	926.0	1032.7	1618.3	2648.1	3109.6
132.5°	977.9	1081.7	1609.6	2518.3	2942.3
135°	1035.6	1130.8	1601.0	2394.2	2780.8
137.5°	1090.4	1176.9	1592.3	2278.8	2622.1
140°	1145.2	1223.1	1589.4	2172.1	2472.1
142.5°	1197.1	1269.2	1586.5	2074.0	2327.9
145°	1249.0	1309.6	1583.7	1981.7	2198.1
147.5°	1301.0	1352.9	1586.5	1906.7	2079.8
150°	1352.9	1393.3	1595.2	1846.2	1981.7
152.5°	1399.0	1430.8	1601.0	1791.3	1901.0
155°	1445.2	1468.3	1606.7	1753.8	1834.6
157.5°	1488.5	1502.9	1615.4	1725.0	1788.5
160°	1526.0	1534.6	1621.2	1704.8	1751.0
162.5°	1560.6	1563.5	1626.9	1690.4	1719.2
165°	1592.3	1589.4	1635.6	1678.8	1699.0
167.5°	1621.2	1609.6	1644.2	1667.3	1684.6
170°	1641.3	1626.9	1647.1	1664.4	1670.2
172.5°	1658.7	1641.3	1652.9	1658.7	1664.4
175°	1673.1	1652.9	1658.7	1658.7	1658.7
177.5°	1678.8	1658.7	1658.7	1658.7	1647.1
180°	1661.5	1661.5	1661.5	1661.5	1661.5

(END OF REPORT)