

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: P234627

Luminaire Tested: **CTA-F-5050-50L840-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-8D)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-5050-50L840-UNV-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (1008) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15447.3 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')  
CIE Type: General Diffuse

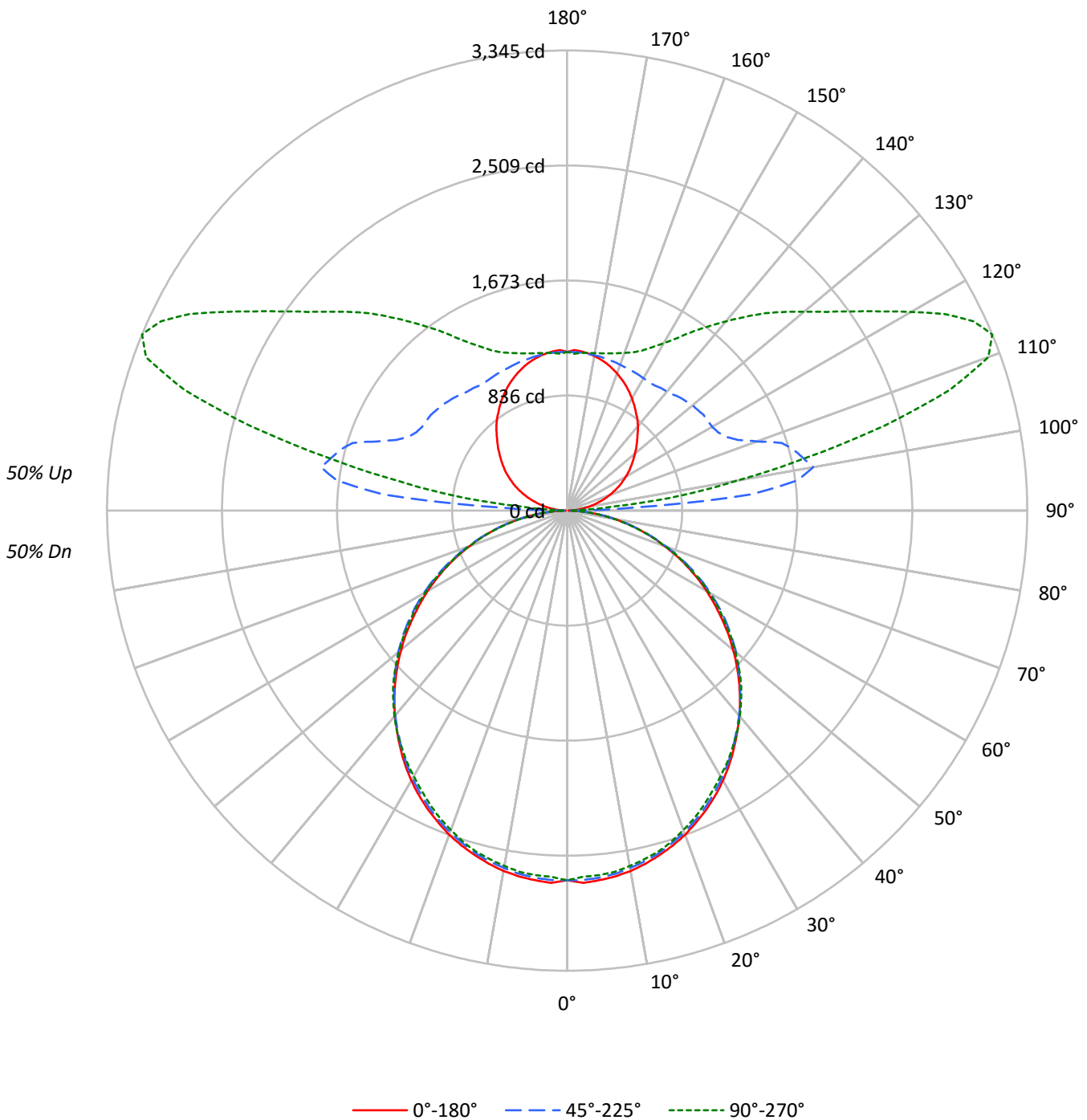
Input Watts (W): 119.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	85	90	86	83	79	73	70	68	60	59	57	49	48	47	42
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	63	58	74	66	59	54	56	51	47	46	43	40	38	35	33	29
4	74	63	55	48	68	58	51	45	49	44	40	41	37	34	34	31	28	25
5	68	56	47	41	62	52	44	39	44	38	34	37	33	29	30	27	24	21
6	62	50	42	36	57	46	39	34	40	34	30	33	29	25	27	24	21	19
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	22	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	18	23	19	16	20	16	14	12

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

	0°	45°	90°
0°	5786	5786	5786
5°	5828	5788	5748
10°	5815	5768	5734
15°	5778	5744	5717
20°	5744	5702	5660
25°	5694	5650	5599
30°	5632	5586	5541
35°	5552	5520	5512
40°	5473	5465	5491
45°	5380	5408	5446
50°	5273	5366	5345
55°	5152	5290	5233
60°	5042	5187	5121
65°	4921	5046	4952
70°	4734	4831	4773
75°	4578	4628	4527
80°	4321	4359	4246
85°	3850	3850	3626



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.1	1.6
10°-20°	726.1	4.7
20°-30°	1093.5	7.1
30°-40°	1314.3	8.5
40°-50°	1368.6	8.9
50°-60°	1245.3	8.1
60°-70°	969.7	6.3
70°-80°	584.6	3.8
80°-90°	178.7	1.2
90°-100°	616.5	4.0
100°-110°	1581.8	10.2
110°-120°	1592.8	10.3
120°-130°	1246.2	8.1
130°-140°	982.9	6.4
140°-150°	736.8	4.8
150°-160°	523.0	3.4
160°-170°	322.7	2.1
170°-180°	109.8	0.7
0°-30°	2073.7	13.4
0°-40°	3388.0	21.9
0°-60°	6002.0	38.9
0°-90°	7734.9	50.1
90°-120°	3791.0	24.5
90°-150°	6756.9	43.7
90°-180°	7712.0	49.9
0°-180°	15447.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2688	2688	2688	2688	2688	
5°	2697	2672	2678	2669	2660	256
15°	2593	2568	2578	2575	2565	732
25°	2397	2373	2379	2367	2358	1104
35°	2113	2094	2101	2101	2098	1322
45°	1767	1758	1776	1786	1789	1363
55°	1373	1376	1410	1400	1394	1229
65°	966	982	991	982	972	955
75°	550	556	556	547	544	581
85°	156	162	156	150	147	169
90°	12	21	21	24	18	19
95°	73	245	1342	569	355	79
105°	242	401	1706	2755	2391	255
115°	413	538	1269	2789	3256	407
125°	569	660	1211	2113	2523	509
135°	719	792	1162	1749	2027	556
145°	871	914	1110	1416	1587	546
155°	1006	1021	1119	1223	1281	463
165°	1107	1104	1138	1168	1183	312
175°	1162	1150	1153	1153	1150	110
180°	1153	1153	1153	1153	1153	



TEST NUMBER: P234627

CATALOG NUMBER: CTA-F-5050-50L840-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2687.7	2687.7	2687.7	2687.7	2687.7
2.5°	2709.1	2681.6	2687.7	2681.6	2663.3
5°	2696.9	2672.4	2678.5	2669.4	2660.2
7.5°	2681.6	2654.1	2663.3	2654.1	2648.0
10°	2660.2	2632.7	2638.8	2632.7	2623.5
12.5°	2629.6	2602.1	2611.3	2605.2	2596.0
15°	2592.9	2568.5	2577.6	2574.6	2565.4
17.5°	2553.2	2528.7	2534.8	2531.8	2522.6
20°	2507.3	2479.8	2489.0	2479.8	2470.6
22.5°	2452.3	2427.8	2437.0	2424.8	2418.6
25°	2397.2	2372.8	2378.9	2366.7	2357.5
27.5°	2333.0	2308.6	2314.7	2302.4	2293.3
30°	2265.8	2241.3	2247.4	2232.1	2229.1
32.5°	2192.4	2171.0	2177.1	2171.0	2167.9
35°	2112.9	2094.5	2100.6	2100.6	2097.6
37.5°	2030.3	2015.0	2021.1	2027.3	2030.3
40°	1947.8	1932.5	1944.7	1953.9	1953.9
42.5°	1859.1	1846.8	1862.1	1871.3	1871.3
45°	1767.3	1758.2	1776.5	1785.7	1788.8
47.5°	1672.6	1666.4	1690.9	1697.0	1694.0
50°	1574.7	1571.7	1602.2	1602.2	1596.1
52.5°	1476.9	1473.8	1507.4	1504.4	1498.3
55°	1372.9	1376.0	1409.6	1400.4	1394.3
57.5°	1272.0	1278.1	1308.7	1296.5	1296.5
60°	1171.1	1180.3	1204.7	1192.5	1189.4
62.5°	1070.2	1079.4	1097.7	1085.5	1085.5
65°	966.2	981.5	990.7	981.5	972.3
67.5°	862.3	880.6	880.6	874.5	871.4
70°	752.2	773.6	767.5	761.4	758.3
72.5°	654.3	663.5	660.5	654.3	651.3
75°	550.4	556.5	556.5	547.3	544.3
77.5°	449.5	455.6	452.5	446.4	440.3
80°	348.6	354.7	351.6	345.5	342.5
82.5°	253.8	253.8	250.7	244.6	241.6
85°	155.9	162.1	155.9	149.8	146.8
87.5°	73.4	73.4	67.3	64.2	58.1
90°	12.2	21.4	21.4	24.5	18.3
92.5°	42.8	152.9	464.8	122.3	79.5
95°	73.4	244.6	1342.3	568.7	354.7
97.5°	116.2	290.5	1690.9	1122.2	837.8
100°	159.0	366.9	1816.3	1651.2	1256.7
102.5°	198.8	394.4	1758.2	2247.4	1791.8
105°	241.6	400.6	1706.2	2755.0	2391.1
107.5°	284.4	418.9	1635.9	3042.4	2917.0
110°	327.2	461.7	1467.7	3109.7	3256.4



TEST NUMBER: P234627

CATALOG NUMBER: CTA-F-5050-50L840-UNV-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	370.0	501.5	1342.3	2990.4	3345.1
115°	412.8	538.2	1268.9	2788.6	3256.4
117.5°	452.5	571.8	1235.3	2580.7	3094.4
120°	492.3	602.4	1217.0	2391.1	2886.5
122.5°	532.0	629.9	1213.9	2238.2	2693.8
125°	568.7	660.5	1210.8	2112.9	2522.6
127.5°	605.4	688.0	1198.6	2012.0	2372.8
130°	642.1	718.6	1189.4	1926.3	2247.4
132.5°	681.9	752.2	1174.2	1837.7	2137.3
135°	718.6	791.9	1161.9	1749.0	2027.3
137.5°	758.3	825.6	1143.6	1663.4	1908.0
140°	801.1	856.2	1128.3	1574.7	1794.9
142.5°	837.8	886.7	1122.2	1495.2	1687.8
145°	871.4	914.3	1109.9	1415.7	1586.9
147.5°	908.1	944.8	1106.9	1351.5	1486.0
150°	941.8	969.3	1109.9	1299.5	1403.5
152.5°	975.4	996.8	1116.1	1250.6	1339.3
155°	1006.0	1021.3	1119.1	1223.1	1281.2
157.5°	1033.5	1045.7	1122.2	1201.7	1244.5
160°	1061.0	1067.1	1128.3	1189.4	1220.0
162.5°	1085.5	1088.5	1134.4	1177.2	1198.6
165°	1106.9	1103.8	1137.5	1168.0	1183.3
167.5°	1125.2	1119.1	1143.6	1161.9	1171.1
170°	1140.5	1131.3	1146.6	1155.8	1161.9
172.5°	1152.8	1143.6	1149.7	1155.8	1155.8
175°	1161.9	1149.7	1152.8	1152.8	1149.7
177.5°	1168.0	1152.8	1152.8	1152.8	1140.5
180°	1152.8	1152.8	1152.8	1152.8	1152.8

(END OF REPORT)