

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: P234557

Luminaire Tested: **CTA-F-0100-50L840-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-18)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-0100-50L840-UNV-4  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT  
Light Source: (336) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5461.4 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

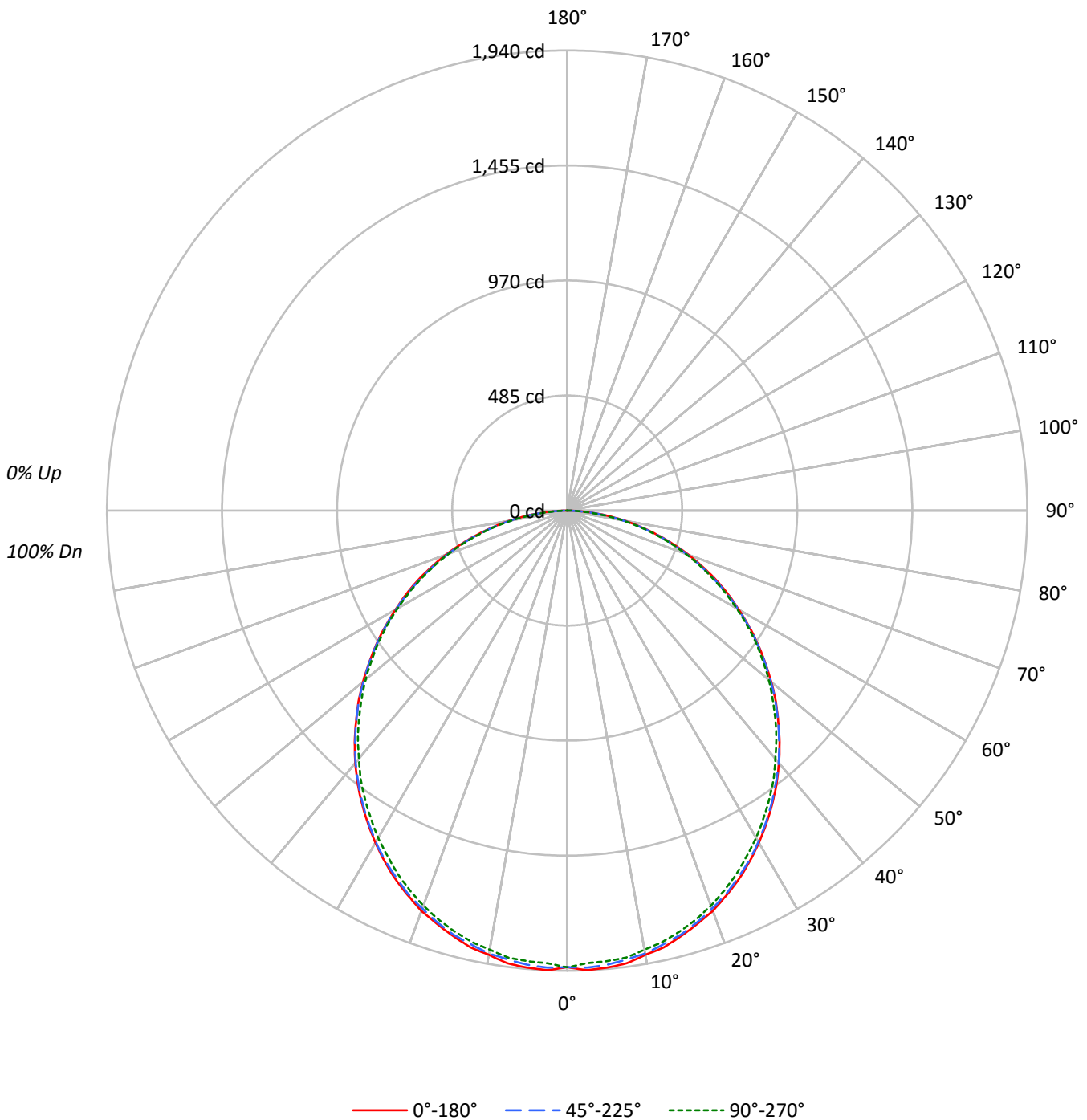
Input Watts (W): 63.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	12433	12433	12433
5°	12540	12461	12362
10°	12472	12432	12325
15°	12415	12374	12280
20°	12342	12272	12180
25°	12215	12157	12041
30°	12061	12031	11887
35°	11892	11860	11715
40°	11711	11694	11514
45°	11495	11486	11337
50°	11284	11253	11151
55°	11051	11017	10947
60°	10795	10768	10663
65°	10606	10450	10372
70°	10277	10103	10007
75°	9791	9689	9511
80°	9134	8944	8680
85°	8002	7476	7098



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.0	3.3
10°-20°	519.9	9.5
20°-30°	782.6	14.3
30°-40°	935.9	17.1
40°-50°	965.2	17.7
50°-60°	872.7	16.0
60°-70°	677.5	12.4
70°-80°	408.5	7.5
80°-90°	117.0	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1484.5	27.2
0°-40°	2420.4	44.3
0°-60°	4258.3	78.0
0°-90°	5461.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5461.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1925	1925	1925	1925	1925	
5°	1934	1908	1922	1913	1907	184
15°	1857	1833	1851	1844	1837	524
25°	1714	1692	1706	1692	1690	790
35°	1508	1492	1504	1489	1486	944
45°	1259	1254	1258	1244	1241	972
55°	982	982	978	971	972	877
65°	694	688	684	682	679	685
75°	392	390	388	384	381	415
85°	108	108	101	96	96	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1925.3	1925.3	1925.3	1925.3	1925.3
2.5°	1939.6	1913.1	1928.4	1922.3	1910.0
5°	1934.5	1908.0	1922.3	1913.1	1907.0
7.5°	1925.3	1894.7	1909.0	1903.9	1900.9
10°	1901.9	1879.5	1895.8	1885.6	1879.5
12.5°	1885.6	1856.0	1873.3	1866.2	1862.1
15°	1857.0	1832.6	1850.9	1843.8	1836.7
17.5°	1826.5	1803.0	1820.3	1813.2	1807.1
20°	1795.9	1770.4	1785.7	1777.5	1772.4
22.5°	1755.1	1732.7	1750.0	1735.7	1732.7
25°	1714.3	1691.9	1706.2	1691.9	1689.9
27.5°	1667.5	1648.1	1663.4	1649.1	1641.0
30°	1617.5	1599.2	1613.4	1596.1	1594.1
32.5°	1563.5	1548.2	1559.4	1547.2	1540.1
35°	1508.5	1492.2	1504.4	1489.1	1486.0
37.5°	1450.4	1436.1	1446.3	1432.0	1429.0
40°	1389.2	1377.0	1387.2	1370.9	1365.8
42.5°	1326.0	1316.8	1323.0	1307.7	1305.6
45°	1258.7	1253.7	1257.7	1244.5	1241.4
47.5°	1193.5	1186.4	1191.5	1176.2	1175.2
50°	1123.2	1120.1	1120.1	1109.9	1109.9
52.5°	1051.8	1049.8	1050.8	1039.6	1039.6
55°	981.5	981.5	978.5	971.3	972.3
57.5°	909.2	907.1	907.1	899.0	899.0
60°	835.8	835.8	833.7	826.6	825.6
62.5°	766.5	763.4	759.3	754.2	753.2
65°	694.1	688.0	683.9	681.9	678.8
67.5°	617.7	613.6	608.5	606.4	605.4
70°	544.3	538.2	535.1	531.0	530.0
72.5°	467.8	463.7	460.7	457.6	456.6
75°	392.4	390.4	388.3	384.2	381.2
77.5°	318.0	316.0	311.9	309.8	306.8
80°	245.6	243.6	240.5	237.5	233.4
82.5°	175.3	174.3	169.2	165.1	161.0
85°	108.0	108.0	100.9	95.8	95.8
87.5°	47.9	44.8	38.7	33.6	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)