

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: P234624

Luminaire Tested: **CTA-F-5050-50L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234624  
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-8  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (672) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10298.2 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')  
CIE Type: General Diffuse

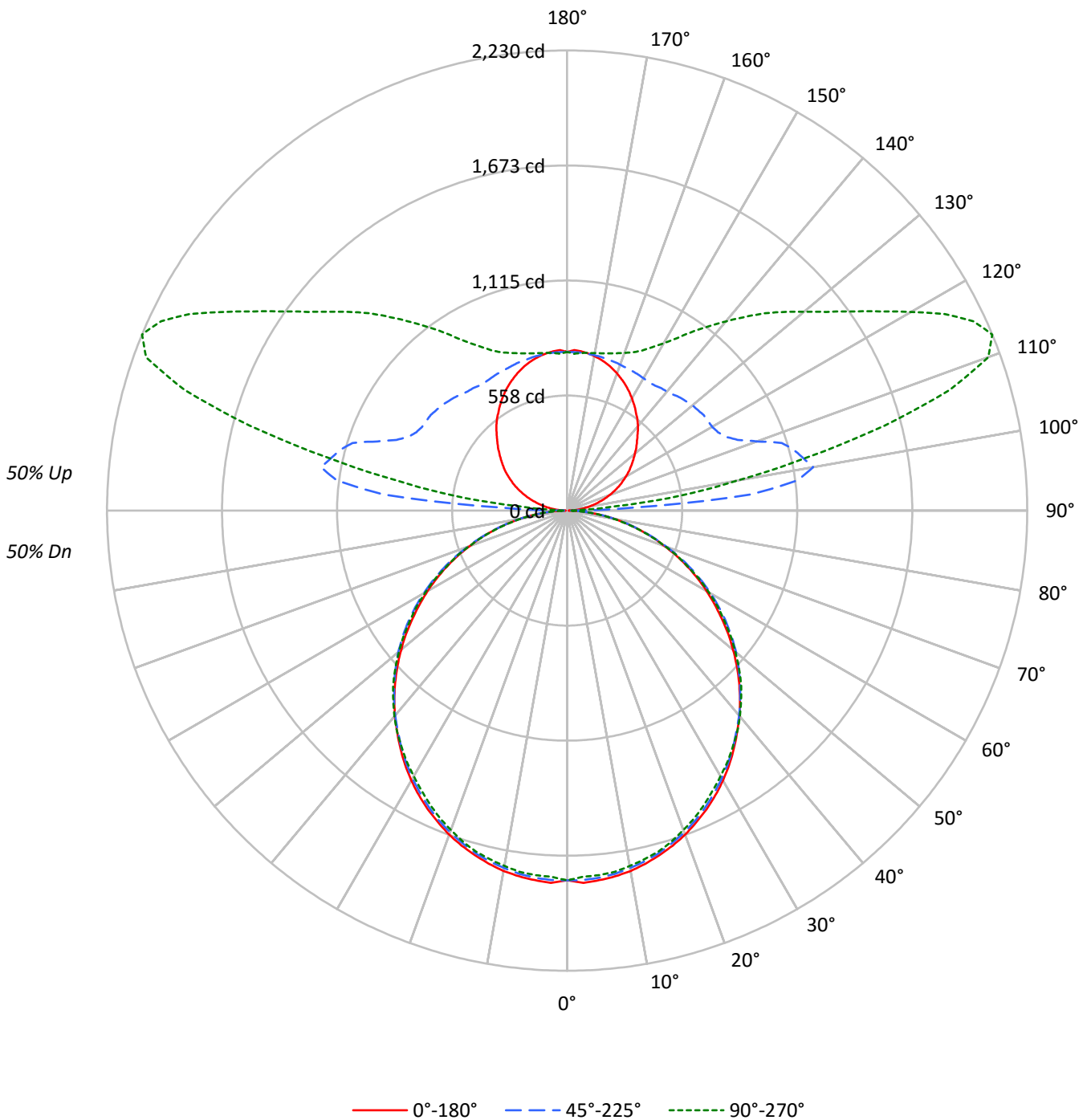
Input Watts (W): 81.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5827	5788	5748
10°	5815	5768	5734
15°	5778	5744	5717
20°	5744	5702	5660
25°	5694	5650	5600
30°	5632	5586	5540
35°	5552	5520	5512
40°	5473	5465	5491
45°	5380	5408	5445
50°	5273	5366	5345
55°	5153	5290	5233
60°	5042	5187	5121
65°	4922	5046	4952
70°	4735	4831	4772
75°	4577	4628	4526
80°	4321	4359	4245
85°	3853	3853	3623



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.4	1.6
10°-20°	484.1	4.7
20°-30°	729.0	7.1
30°-40°	876.2	8.5
40°-50°	912.4	8.9
50°-60°	830.2	8.1
60°-70°	646.5	6.3
70°-80°	389.7	3.8
80°-90°	119.1	1.2
90°-100°	411.0	4.0
100°-110°	1054.5	10.2
110°-120°	1061.9	10.3
120°-130°	830.8	8.1
130°-140°	655.3	6.4
140°-150°	491.2	4.8
150°-160°	348.6	3.4
160°-170°	215.1	2.1
170°-180°	73.2	0.7
0°-30°	1382.5	13.4
0°-40°	2258.7	21.9
0°-60°	4001.3	38.9
0°-90°	5156.6	50.1
90°-120°	2527.4	24.5
90°-150°	4504.6	43.7
90°-180°	5142.0	49.9
0°-180°	10298.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1798	1782	1786	1780	1774	171
15°	1729	1712	1718	1716	1710	488
25°	1598	1582	1586	1578	1572	736
35°	1409	1396	1400	1400	1398	881
45°	1178	1172	1184	1190	1192	909
55°	915	917	940	934	930	819
65°	644	654	660	654	648	637
75°	367	371	371	365	363	388
85°	104	108	104	100	98	113
90°	8	14	14	16	12	13
95°	49	163	895	379	236	53
105°	161	267	1138	1837	1594	170
115°	275	359	846	1859	2171	271
125°	379	440	807	1409	1682	339
135°	479	528	775	1166	1352	371
145°	581	610	740	944	1058	364
155°	671	681	746	815	854	309
165°	738	736	758	779	789	208
175°	775	766	768	768	766	73
180°	768	768	768	768	768	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1791.8	1791.8	1791.8	1791.8	1791.8
2.5°	1806.1	1787.7	1791.8	1787.7	1775.5
5°	1797.9	1781.6	1785.7	1779.6	1773.5
7.5°	1787.7	1769.4	1775.5	1769.4	1765.3
10°	1773.5	1755.1	1759.2	1755.1	1749.0
12.5°	1753.1	1734.7	1740.8	1736.8	1730.7
15°	1728.6	1712.3	1718.4	1716.4	1710.3
17.5°	1702.1	1685.8	1689.9	1687.8	1681.7
20°	1671.5	1653.2	1659.3	1653.2	1647.1
22.5°	1634.8	1618.5	1624.7	1616.5	1612.4
25°	1598.2	1581.8	1585.9	1577.8	1571.7
27.5°	1555.3	1539.0	1543.1	1535.0	1528.8
30°	1510.5	1494.2	1498.3	1488.1	1486.0
32.5°	1461.6	1447.3	1451.4	1447.3	1445.3
35°	1408.6	1396.3	1400.4	1400.4	1398.4
37.5°	1353.5	1343.3	1347.4	1351.5	1353.5
40°	1298.5	1288.3	1296.5	1302.6	1302.6
42.5°	1239.4	1231.2	1241.4	1247.5	1247.5
45°	1178.2	1172.1	1184.3	1190.5	1192.5
47.5°	1115.0	1111.0	1127.3	1131.3	1129.3
50°	1049.8	1047.8	1068.2	1068.2	1064.1
52.5°	984.6	982.5	1005.0	1002.9	998.8
55°	915.3	917.3	939.7	933.6	929.5
57.5°	848.0	852.1	872.5	864.3	864.3
60°	780.7	786.8	803.2	795.0	793.0
62.5°	713.5	719.6	731.8	723.7	723.7
65°	644.2	654.3	660.5	654.3	648.2
67.5°	574.8	587.1	587.1	583.0	581.0
70°	501.5	515.7	511.7	507.6	505.5
72.5°	436.2	442.3	440.3	436.2	434.2
75°	366.9	371.0	371.0	364.9	362.8
77.5°	299.7	303.7	301.7	297.6	293.5
80°	232.4	236.5	234.4	230.3	228.3
82.5°	169.2	169.2	167.2	163.1	161.0
85°	104.0	108.0	104.0	99.9	97.8
87.5°	48.9	48.9	44.8	42.8	38.7
90°	8.2	14.3	14.3	16.3	12.2
92.5°	28.5	101.9	309.8	81.5	53.0
95°	48.9	163.1	894.9	379.2	236.5
97.5°	77.5	193.7	1127.3	748.1	558.5
100°	106.0	244.6	1210.8	1100.8	837.8
102.5°	132.5	263.0	1172.1	1498.3	1194.5
105°	161.0	267.0	1137.5	1836.7	1594.1
107.5°	189.6	279.3	1090.6	2028.3	1944.7
110°	218.1	307.8	978.5	2073.1	2171.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	246.7	334.3	894.9	1993.6	2230.1
115°	275.2	358.8	846.0	1859.1	2171.0
117.5°	301.7	381.2	823.5	1720.5	2062.9
120°	328.2	401.6	811.3	1594.1	1924.3
122.5°	354.7	419.9	809.3	1492.2	1795.9
125°	379.2	440.3	807.2	1408.6	1681.7
127.5°	403.6	458.7	799.1	1341.3	1581.8
130°	428.1	479.0	793.0	1284.2	1498.3
132.5°	454.6	501.5	782.8	1225.1	1424.9
135°	479.0	528.0	774.6	1166.0	1351.5
137.5°	505.5	550.4	762.4	1108.9	1272.0
140°	534.1	570.8	752.2	1049.8	1196.6
142.5°	558.5	591.2	748.1	996.8	1125.2
145°	581.0	609.5	740.0	943.8	1058.0
147.5°	605.4	629.9	737.9	901.0	990.7
150°	627.8	646.2	740.0	866.3	935.7
152.5°	650.3	664.5	744.0	833.7	892.8
155°	670.7	680.8	746.1	815.4	854.1
157.5°	689.0	697.2	748.1	801.1	829.7
160°	707.3	711.4	752.2	793.0	813.3
162.5°	723.7	725.7	756.3	784.8	799.1
165°	737.9	735.9	758.3	778.7	788.9
167.5°	750.2	746.1	762.4	774.6	780.7
170°	760.3	754.2	764.4	770.5	774.6
172.5°	768.5	762.4	766.5	770.5	770.5
175°	774.6	766.5	768.5	768.5	766.5
177.5°	778.7	768.5	768.5	768.5	760.3
180°	768.5	768.5	768.5	768.5	768.5

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