

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: P234622

Luminaire Tested: **CTA-F-5050-50L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234622
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-5050-50L830-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (672) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

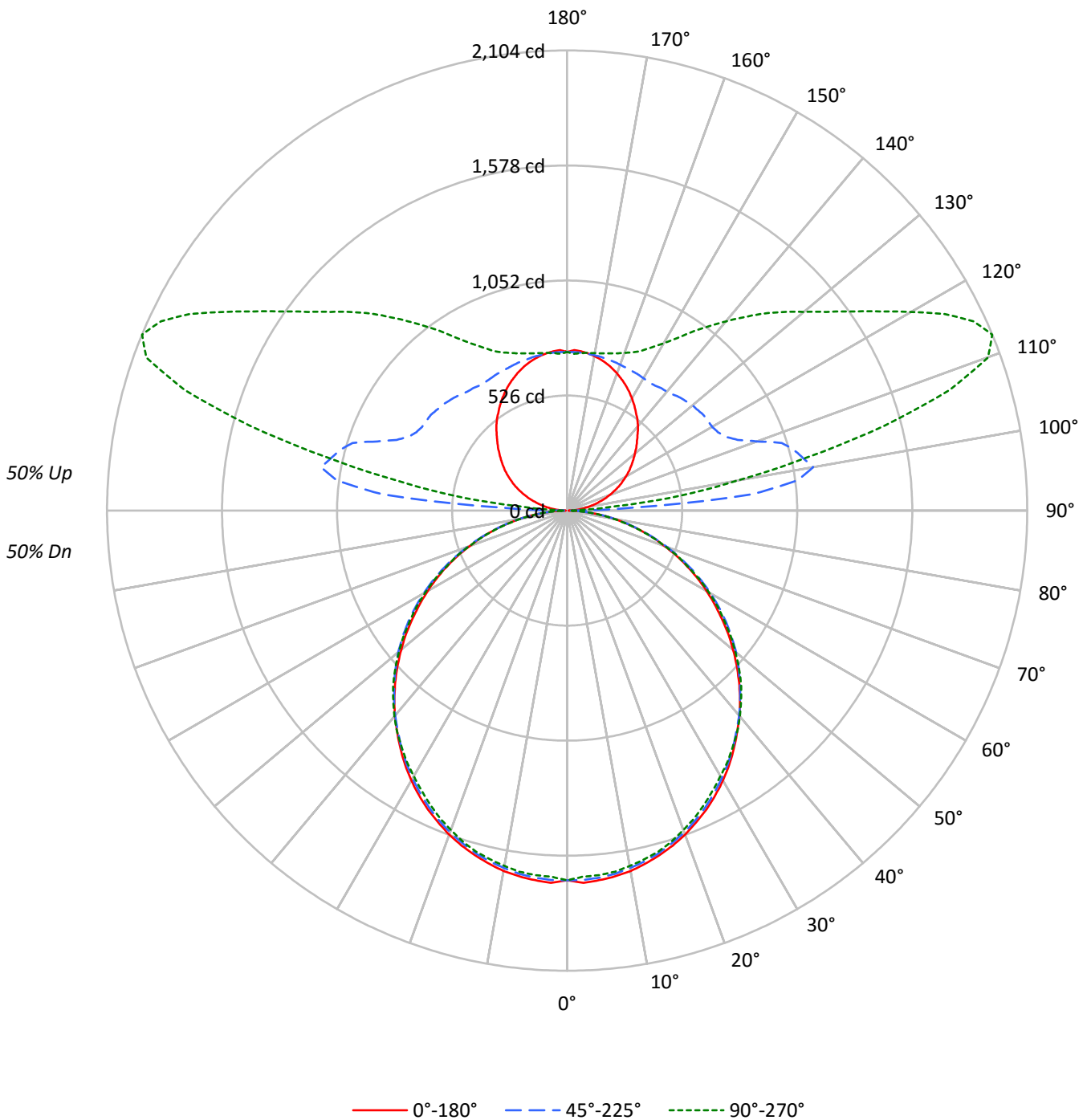
Lumens per Lamp: N/A
Luminaire Lumens: 9715.3 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P234622
CATALOG NUMBER: CTA-F-5050-50L830-UNV-8

Luminous Intensity Polar Plot





TEST NUMBER: P234622

CATALOG NUMBER: CTA-F-5050-50L830-UNV-8

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	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°	5458	5458	5458
5°	5498	5460	5423
10°	5486	5441	5410
15°	5451	5419	5394
20°	5418	5379	5339
25°	5372	5331	5282
30°	5313	5270	5227
35°	5238	5208	5200
40°	5163	5155	5179
45°	5076	5102	5137
50°	4975	5062	5042
55°	4861	4991	4936
60°	4756	4893	4831
65°	4643	4761	4672
70°	4466	4557	4502
75°	4319	4366	4270
80°	4076	4113	4005
85°	3634	3634	3419



TEST NUMBER: P234622

CATALOG NUMBER: CTA-F-5050-50L830-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	1.6
10°-20°	456.7	4.7
20°-30°	687.7	7.1
30°-40°	826.6	8.5
40°-50°	860.8	8.9
50°-60°	783.2	8.1
60°-70°	609.9	6.3
70°-80°	367.7	3.8
80°-90°	112.4	1.2
90°-100°	387.7	4.0
100°-110°	994.8	10.2
110°-120°	1001.7	10.3
120°-130°	783.8	8.1
130°-140°	618.2	6.4
140°-150°	463.4	4.8
150°-160°	328.9	3.4
160°-170°	202.9	2.1
170°-180°	69.1	0.7
0°-30°	1304.2	13.4
0°-40°	2130.8	21.9
0°-60°	3774.8	38.9
0°-90°	4864.7	50.1
90°-120°	2384.3	24.5
90°-150°	4249.6	43.7
90°-180°	4851.0	49.9
0°-180°	9715.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1696	1681	1685	1679	1673	161
15°	1631	1615	1621	1619	1614	460
25°	1508	1492	1496	1488	1483	694
35°	1329	1317	1321	1321	1319	831
45°	1112	1106	1117	1123	1125	857
55°	864	865	886	881	877	773
65°	608	617	623	617	612	601
75°	346	350	350	344	342	366
85°	98	102	98	94	92	106
90°	8	14	14	15	12	12
95°	46	154	844	358	223	50
105°	152	252	1073	1733	1504	161
115°	260	338	798	1754	2048	256
125°	358	415	762	1329	1586	320
135°	452	498	731	1100	1275	350
145°	548	575	698	890	998	344
155°	633	642	704	769	806	291
165°	696	694	715	735	744	196
175°	731	723	725	725	723	69
180°	725	725	725	725	725	



TEST NUMBER: P234622

CATALOG NUMBER: CTA-F-5050-50L830-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.4	1690.4	1690.4	1690.4	1690.4
2.5°	1703.8	1686.5	1690.4	1686.5	1675.0
5°	1696.2	1680.8	1684.6	1678.8	1673.1
7.5°	1686.5	1669.2	1675.0	1669.2	1665.4
10°	1673.1	1655.8	1659.6	1655.8	1650.0
12.5°	1653.8	1636.5	1642.3	1638.5	1632.7
15°	1630.8	1615.4	1621.2	1619.2	1613.5
17.5°	1605.8	1590.4	1594.2	1592.3	1586.5
20°	1576.9	1559.6	1565.4	1559.6	1553.8
22.5°	1542.3	1526.9	1532.7	1525.0	1521.2
25°	1507.7	1492.3	1496.2	1488.5	1482.7
27.5°	1467.3	1451.9	1455.8	1448.1	1442.3
30°	1425.0	1409.6	1413.5	1403.8	1401.9
32.5°	1378.8	1365.4	1369.2	1365.4	1363.5
35°	1328.8	1317.3	1321.2	1321.2	1319.2
37.5°	1276.9	1267.3	1271.2	1275.0	1276.9
40°	1225.0	1215.4	1223.1	1228.8	1228.8
42.5°	1169.2	1161.5	1171.2	1176.9	1176.9
45°	1111.5	1105.8	1117.3	1123.1	1125.0
47.5°	1051.9	1048.1	1063.5	1067.3	1065.4
50°	990.4	988.5	1007.7	1007.7	1003.8
52.5°	928.8	926.9	948.1	946.2	942.3
55°	863.5	865.4	886.5	880.8	876.9
57.5°	800.0	803.8	823.1	815.4	815.4
60°	736.5	742.3	757.7	750.0	748.1
62.5°	673.1	678.8	690.4	682.7	682.7
65°	607.7	617.3	623.1	617.3	611.5
67.5°	542.3	553.8	553.8	550.0	548.1
70°	473.1	486.5	482.7	478.8	476.9
72.5°	411.5	417.3	415.4	411.5	409.6
75°	346.2	350.0	350.0	344.2	342.3
77.5°	282.7	286.5	284.6	280.8	276.9
80°	219.2	223.1	221.2	217.3	215.4
82.5°	159.6	159.6	157.7	153.8	151.9
85°	98.1	101.9	98.1	94.2	92.3
87.5°	46.2	46.2	42.3	40.4	36.5
90°	7.7	13.5	13.5	15.4	11.5
92.5°	26.9	96.2	292.3	76.9	50.0
95°	46.2	153.8	844.2	357.7	223.1
97.5°	73.1	182.7	1063.5	705.8	526.9
100°	100.0	230.8	1142.3	1038.5	790.4
102.5°	125.0	248.1	1105.8	1413.5	1126.9
105°	151.9	251.9	1073.1	1732.7	1503.8
107.5°	178.8	263.5	1028.8	1913.5	1834.6
110°	205.8	290.4	923.1	1955.8	2048.1



TEST NUMBER: P234622

CATALOG NUMBER: CTA-F-5050-50L830-UNV-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	232.7	315.4	844.2	1880.8	2103.8
115°	259.6	338.5	798.1	1753.8	2048.1
117.5°	284.6	359.6	776.9	1623.1	1946.2
120°	309.6	378.8	765.4	1503.8	1815.4
122.5°	334.6	396.2	763.5	1407.7	1694.2
125°	357.7	415.4	761.5	1328.8	1586.5
127.5°	380.8	432.7	753.8	1265.4	1492.3
130°	403.8	451.9	748.1	1211.5	1413.5
132.5°	428.8	473.1	738.5	1155.8	1344.2
135°	451.9	498.1	730.8	1100.0	1275.0
137.5°	476.9	519.2	719.2	1046.2	1200.0
140°	503.8	538.5	709.6	990.4	1128.8
142.5°	526.9	557.7	705.8	940.4	1061.5
145°	548.1	575.0	698.1	890.4	998.1
147.5°	571.2	594.2	696.2	850.0	934.6
150°	592.3	609.6	698.1	817.3	882.7
152.5°	613.5	626.9	701.9	786.5	842.3
155°	632.7	642.3	703.8	769.2	805.8
157.5°	650.0	657.7	705.8	755.8	782.7
160°	667.3	671.2	709.6	748.1	767.3
162.5°	682.7	684.6	713.5	740.4	753.8
165°	696.2	694.2	715.4	734.6	744.2
167.5°	707.7	703.8	719.2	730.8	736.5
170°	717.3	711.5	721.2	726.9	730.8
172.5°	725.0	719.2	723.1	726.9	726.9
175°	730.8	723.1	725.0	725.0	723.1
177.5°	734.6	725.0	725.0	725.0	717.3
180°	725.0	725.0	725.0	725.0	725.0

(END OF REPORT)