

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: P234617

Luminaire Tested: **CTA-F-5050-40L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-40L830-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (1008) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

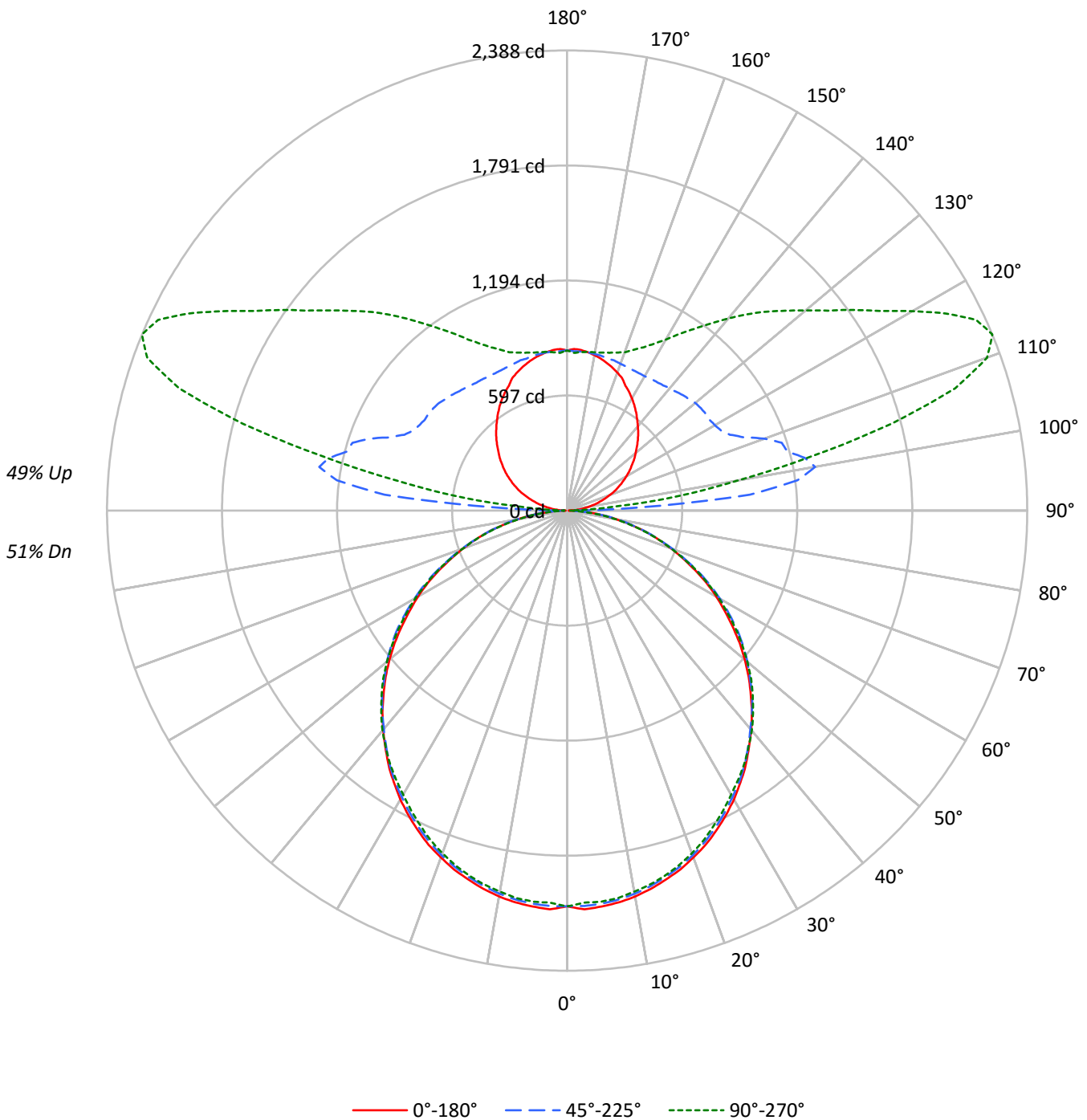
Lumens per Lamp: N/A
Luminaire Lumens: 11463.5 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.8
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: P234617
CATALOG NUMBER: CTA-F-5050-40L830-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P234617

CATALOG NUMBER: CTA-F-5050-40L830-UNV-12

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	84	84	84	70	70	70	57	57	57	51
1	98	93	89	86	90	86	83	80	73	71	69	61	60	58	50	49	48	43
2	89	81	75	70	82	75	70	65	64	60	56	54	51	48	44	42	40	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	39	36	34	30
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	35	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	38	33	30	31	28	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	26	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4421	4421	4421
5°	4457	4426	4401
10°	4445	4414	4388
15°	4416	4391	4371
20°	4388	4361	4335
25°	4351	4316	4282
30°	4302	4266	4230
35°	4245	4222	4215
40°	4175	4158	4191
45°	4101	4136	4145
50°	4028	4086	4086
55°	3930	4038	4006
60°	3850	3949	3912
65°	3732	3835	3791
70°	3613	3667	3613
75°	3479	3503	3455
80°	3218	3254	3146
85°	2850	2850	2564



TEST NUMBER: P234617

CATALOG NUMBER: CTA-F-5050-40L830-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	1.7
10°-20°	555.3	4.8
20°-30°	835.9	7.3
30°-40°	1003.4	8.8
40°-50°	1043.4	9.1
50°-60°	949.4	8.3
60°-70°	736.1	6.4
70°-80°	443.8	3.9
80°-90°	133.1	1.2
90°-100°	446.0	3.9
100°-110°	1138.0	9.9
110°-120°	1150.7	10.0
120°-130°	899.9	7.9
130°-140°	711.5	6.2
140°-150°	534.6	4.7
150°-160°	377.3	3.3
160°-170°	231.8	2.0
170°-180°	79.0	0.7
0°-30°	1585.6	13.8
0°-40°	2588.9	22.6
0°-60°	4581.7	40.0
0°-90°	5894.7	51.4
90°-120°	2734.7	23.9
90°-150°	4880.7	42.6
90°-180°	5569.0	48.6
0°-180°	11463.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2062	2042	2048	2042	2036	196
15°	1982	1964	1970	1967	1962	560
25°	1832	1812	1817	1809	1803	844
35°	1615	1601	1607	1601	1604	1009
45°	1347	1341	1359	1362	1362	1040
55°	1047	1050	1076	1064	1067	938
65°	733	741	753	744	744	726
75°	418	427	421	418	415	440
85°	115	121	115	112	104	124
90°	9	17	17	20	14	13
95°	55	170	952	427	271	58
105°	173	309	1183	1985	1742	184
115°	297	395	932	2011	2342	294
125°	410	485	877	1520	1814	367
135°	519	568	848	1266	1460	400
145°	623	655	814	1038	1151	390
155°	715	730	805	888	935	331
165°	793	793	816	839	848	224
175°	836	825	828	828	825	79
180°	831	831	831	831	831	



TEST NUMBER: P234617

CATALOG NUMBER: CTA-F-5050-40L830-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2053.8	2053.8	2053.8	2053.8	2053.8
2.5°	2071.2	2051.0	2053.8	2051.0	2036.5
5°	2062.5	2042.3	2048.1	2042.3	2036.5
7.5°	2051.0	2030.8	2036.5	2030.8	2027.9
10°	2033.7	2013.5	2019.2	2013.5	2007.7
12.5°	2010.6	1990.4	1996.2	1990.4	1987.5
15°	1981.7	1964.4	1970.2	1967.3	1961.5
17.5°	1952.9	1932.7	1938.5	1938.5	1929.8
20°	1915.4	1898.1	1903.8	1898.1	1892.3
22.5°	1877.9	1857.7	1863.5	1854.8	1851.9
25°	1831.7	1811.5	1817.3	1808.7	1802.9
27.5°	1782.7	1762.5	1768.3	1759.6	1753.8
30°	1730.8	1713.5	1716.3	1707.7	1701.9
32.5°	1673.1	1658.7	1664.4	1652.9	1652.9
35°	1615.4	1601.0	1606.7	1601.0	1603.8
37.5°	1549.0	1537.5	1543.3	1549.0	1546.2
40°	1485.6	1474.0	1479.8	1488.5	1491.3
42.5°	1419.2	1407.7	1419.2	1425.0	1427.9
45°	1347.1	1341.3	1358.7	1361.5	1361.5
47.5°	1277.9	1269.2	1286.5	1292.3	1295.2
50°	1202.9	1197.1	1220.2	1220.2	1220.2
52.5°	1127.9	1125.0	1151.0	1145.2	1145.2
55°	1047.1	1050.0	1076.0	1064.4	1067.3
57.5°	969.2	972.1	995.2	989.4	986.5
60°	894.2	900.0	917.3	908.7	908.7
62.5°	816.3	822.1	833.7	827.9	825.0
65°	732.7	741.3	752.9	744.2	744.2
67.5°	651.9	663.5	663.5	660.6	657.7
70°	574.0	585.6	582.7	579.8	574.0
72.5°	496.2	507.7	499.0	499.0	496.2
75°	418.3	426.9	421.2	418.3	415.4
77.5°	337.5	346.2	343.3	337.5	331.7
80°	259.6	268.3	262.5	259.6	253.8
82.5°	187.5	193.3	190.4	184.6	178.8
85°	115.4	121.2	115.4	112.5	103.8
87.5°	49.0	54.8	49.0	43.3	37.5
90°	8.7	17.3	17.3	20.2	14.4
92.5°	31.7	115.4	369.2	106.7	69.2
95°	54.8	170.2	951.9	426.9	271.2
97.5°	86.5	207.7	1205.8	790.4	591.3
100°	112.5	268.3	1306.7	1176.9	894.2
102.5°	144.2	300.0	1263.5	1618.3	1298.1
105°	173.1	308.7	1182.7	1984.6	1742.3
107.5°	204.8	317.3	1168.3	2169.2	2111.5
110°	236.5	340.4	1090.4	2209.6	2319.2



TEST NUMBER: P234617

CATALOG NUMBER: CTA-F-5050-40L830-UNV-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	268.3	366.3	992.3	2151.9	2388.5
115°	297.1	395.2	931.7	2010.6	2342.3
117.5°	326.0	421.2	900.0	1851.9	2215.4
120°	354.8	441.3	885.6	1722.1	2068.3
122.5°	383.7	464.4	876.9	1603.8	1926.9
125°	409.6	484.6	876.9	1520.2	1814.4
127.5°	438.5	504.8	874.0	1448.1	1704.8
130°	464.4	525.0	868.3	1387.5	1615.4
132.5°	490.4	548.1	856.7	1326.9	1534.6
135°	519.2	568.3	848.1	1266.3	1459.6
137.5°	545.2	588.5	836.5	1205.8	1381.7
140°	571.2	611.5	827.9	1148.1	1301.0
142.5°	597.1	634.6	819.2	1090.4	1223.1
145°	623.1	654.8	813.5	1038.5	1151.0
147.5°	649.0	672.1	810.6	989.4	1087.5
150°	672.1	692.3	804.8	949.0	1024.0
152.5°	695.2	709.6	804.8	917.3	975.0
155°	715.4	729.8	804.8	888.5	934.6
157.5°	744.2	752.9	807.7	868.3	902.9
160°	761.5	767.3	810.6	853.8	874.0
162.5°	778.8	781.7	816.3	848.1	859.6
165°	793.3	793.3	816.3	839.4	848.1
167.5°	807.7	804.8	822.1	833.7	839.4
170°	819.2	813.5	825.0	833.7	833.7
172.5°	827.9	822.1	827.9	830.8	830.8
175°	836.5	825.0	827.9	827.9	825.0
177.5°	839.4	827.9	827.9	827.9	819.2
180°	830.8	830.8	830.8	830.8	830.8

(END OF REPORT)