

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: P234625

Luminaire Tested: **CTA-F-5050-50L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234625
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-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (1008) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

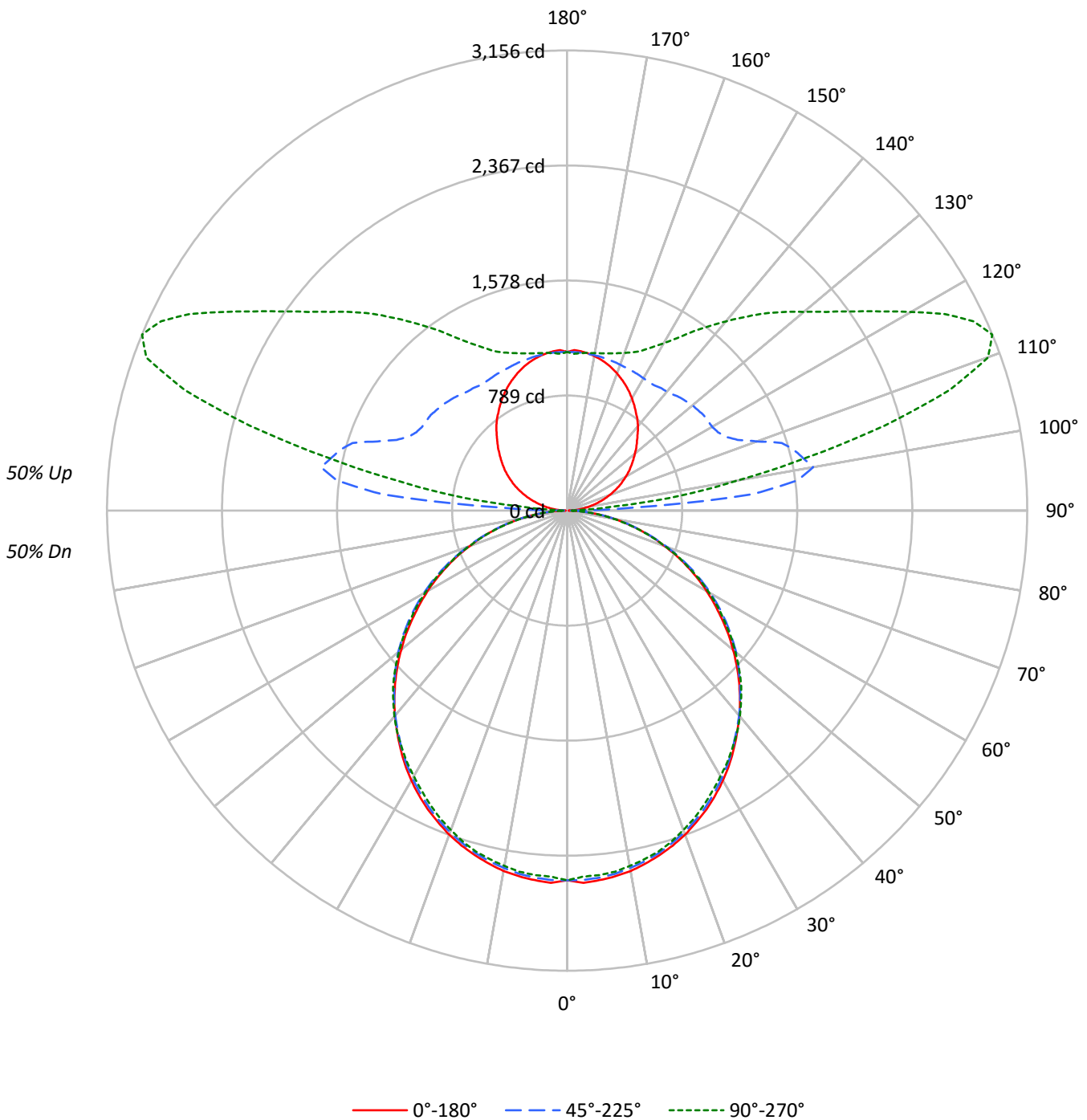
Lumens per Lamp: N/A
Luminaire Lumens: 14572.9 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P234625
CATALOG NUMBER: CTA-F-5050-50L830-UNV-12

Luminous Intensity Polar Plot





TEST NUMBER: P234625

CATALOG NUMBER: CTA-F-5050-50L830-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	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°	5419	5379	5339
25°	5371	5330	5282
30°	5313	5270	5227
35°	5238	5208	5200
40°	5163	5155	5180
45°	5076	5102	5137
50°	4975	5062	5043
55°	4861	4991	4937
60°	4756	4893	4831
65°	4643	4760	4672
70°	4466	4557	4503
75°	4318	4366	4271
80°	4076	4112	4005
85°	3633	3633	3421



TEST NUMBER: P234625

CATALOG NUMBER: CTA-F-5050-50L830-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.7	1.6
10°-20°	685.0	4.7
20°-30°	1031.6	7.1
30°-40°	1239.9	8.5
40°-50°	1291.2	8.9
50°-60°	1174.8	8.1
60°-70°	914.8	6.3
70°-80°	551.5	3.8
80°-90°	168.5	1.2
90°-100°	581.6	4.0
100°-110°	1492.2	10.2
110°-120°	1502.6	10.3
120°-130°	1175.7	8.1
130°-140°	927.2	6.4
140°-150°	695.1	4.8
150°-160°	493.4	3.4
160°-170°	304.4	2.1
170°-180°	103.6	0.7
0°-30°	1956.3	13.4
0°-40°	3196.2	21.9
0°-60°	5662.2	38.9
0°-90°	7297.1	50.1
90°-120°	3576.4	24.5
90°-150°	6374.4	43.7
90°-180°	7276.0	49.9
0°-180°	14572.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2536	2536	2536	2536	2536	
5°	2544	2521	2527	2518	2510	242
15°	2446	2423	2432	2429	2420	691
25°	2262	2238	2244	2233	2224	1042
35°	1993	1976	1982	1982	1979	1247
45°	1667	1659	1676	1685	1688	1286
55°	1295	1298	1330	1321	1315	1159
65°	912	926	935	926	917	901
75°	519	525	525	516	514	549
85°	147	153	147	141	138	159
90°	12	20	20	23	17	18
95°	69	231	1266	536	335	75
105°	228	378	1610	2599	2256	241
115°	389	508	1197	2631	3072	384
125°	536	623	1142	1993	2380	480
135°	678	747	1096	1650	1912	525
145°	822	862	1047	1336	1497	515
155°	949	964	1056	1154	1209	437
165°	1044	1041	1073	1102	1116	294
175°	1096	1085	1088	1088	1085	104
180°	1088	1088	1088	1088	1088	



TEST NUMBER: P234625

CATALOG NUMBER: CTA-F-5050-50L830-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2535.6	2535.6	2535.6	2535.6	2535.6
2.5°	2555.8	2529.8	2535.6	2529.8	2512.5
5°	2544.2	2521.2	2526.9	2518.3	2509.6
7.5°	2529.8	2503.8	2512.5	2503.8	2498.1
10°	2509.6	2483.7	2489.4	2483.7	2475.0
12.5°	2480.8	2454.8	2463.5	2457.7	2449.0
15°	2446.2	2423.1	2431.7	2428.8	2420.2
17.5°	2408.7	2385.6	2391.3	2388.5	2379.8
20°	2365.4	2339.4	2348.1	2339.4	2330.8
22.5°	2313.5	2290.4	2299.0	2287.5	2281.7
25°	2261.5	2238.5	2244.2	2232.7	2224.0
27.5°	2201.0	2177.9	2183.7	2172.1	2163.5
30°	2137.5	2114.4	2120.2	2105.8	2102.9
32.5°	2068.3	2048.1	2053.8	2048.1	2045.2
35°	1993.3	1976.0	1981.7	1981.7	1978.8
37.5°	1915.4	1901.0	1906.7	1912.5	1915.4
40°	1837.5	1823.1	1834.6	1843.3	1843.3
42.5°	1753.8	1742.3	1756.7	1765.4	1765.4
45°	1667.3	1658.7	1676.0	1684.6	1687.5
47.5°	1577.9	1572.1	1595.2	1601.0	1598.1
50°	1485.6	1482.7	1511.5	1511.5	1505.8
52.5°	1393.3	1390.4	1422.1	1419.2	1413.5
55°	1295.2	1298.1	1329.8	1321.2	1315.4
57.5°	1200.0	1205.8	1234.6	1223.1	1223.1
60°	1104.8	1113.5	1136.5	1125.0	1122.1
62.5°	1009.6	1018.3	1035.6	1024.0	1024.0
65°	911.5	926.0	934.6	926.0	917.3
67.5°	813.5	830.8	830.8	825.0	822.1
70°	709.6	729.8	724.0	718.3	715.4
72.5°	617.3	626.0	623.1	617.3	614.4
75°	519.2	525.0	525.0	516.3	513.5
77.5°	424.0	429.8	426.9	421.2	415.4
80°	328.8	334.6	331.7	326.0	323.1
82.5°	239.4	239.4	236.5	230.8	227.9
85°	147.1	152.9	147.1	141.3	138.5
87.5°	69.2	69.2	63.5	60.6	54.8
90°	11.5	20.2	20.2	23.1	17.3
92.5°	40.4	144.2	438.5	115.4	75.0
95°	69.2	230.8	1266.3	536.5	334.6
97.5°	109.6	274.0	1595.2	1058.7	790.4
100°	150.0	346.2	1713.5	1557.7	1185.6
102.5°	187.5	372.1	1658.7	2120.2	1690.4
105°	227.9	377.9	1609.6	2599.0	2255.8
107.5°	268.3	395.2	1543.3	2870.2	2751.9
110°	308.7	435.6	1384.6	2933.7	3072.1



TEST NUMBER: P234625

CATALOG NUMBER: CTA-F-5050-50L830-UNV-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	349.0	473.1	1266.3	2821.2	3155.8
115°	389.4	507.7	1197.1	2630.8	3072.1
117.5°	426.9	539.4	1165.4	2434.6	2919.2
120°	464.4	568.3	1148.1	2255.8	2723.1
122.5°	501.9	594.2	1145.2	2111.5	2541.3
125°	536.5	623.1	1142.3	1993.3	2379.8
127.5°	571.2	649.0	1130.8	1898.1	2238.5
130°	605.8	677.9	1122.1	1817.3	2120.2
132.5°	643.3	709.6	1107.7	1733.7	2016.3
135°	677.9	747.1	1096.2	1650.0	1912.5
137.5°	715.4	778.8	1078.8	1569.2	1800.0
140°	755.8	807.7	1064.4	1485.6	1693.3
142.5°	790.4	836.5	1058.7	1410.6	1592.3
145°	822.1	862.5	1047.1	1335.6	1497.1
147.5°	856.7	891.3	1044.2	1275.0	1401.9
150°	888.5	914.4	1047.1	1226.0	1324.0
152.5°	920.2	940.4	1052.9	1179.8	1263.5
155°	949.0	963.5	1055.8	1153.8	1208.7
157.5°	975.0	986.5	1058.7	1133.7	1174.0
160°	1001.0	1006.7	1064.4	1122.1	1151.0
162.5°	1024.0	1026.9	1070.2	1110.6	1130.8
165°	1044.2	1041.3	1073.1	1101.9	1116.3
167.5°	1061.5	1055.8	1078.8	1096.2	1104.8
170°	1076.0	1067.3	1081.7	1090.4	1096.2
172.5°	1087.5	1078.8	1084.6	1090.4	1090.4
175°	1096.2	1084.6	1087.5	1087.5	1084.6
177.5°	1101.9	1087.5	1087.5	1087.5	1076.0
180°	1087.5	1087.5	1087.5	1087.5	1087.5

(END OF REPORT)