

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: P234654

Luminaire Tested: **CTA-F-7525-50L830-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-3D)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-7525-50L830-UNV-8  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT  
Light Source: (672) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9731.9 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

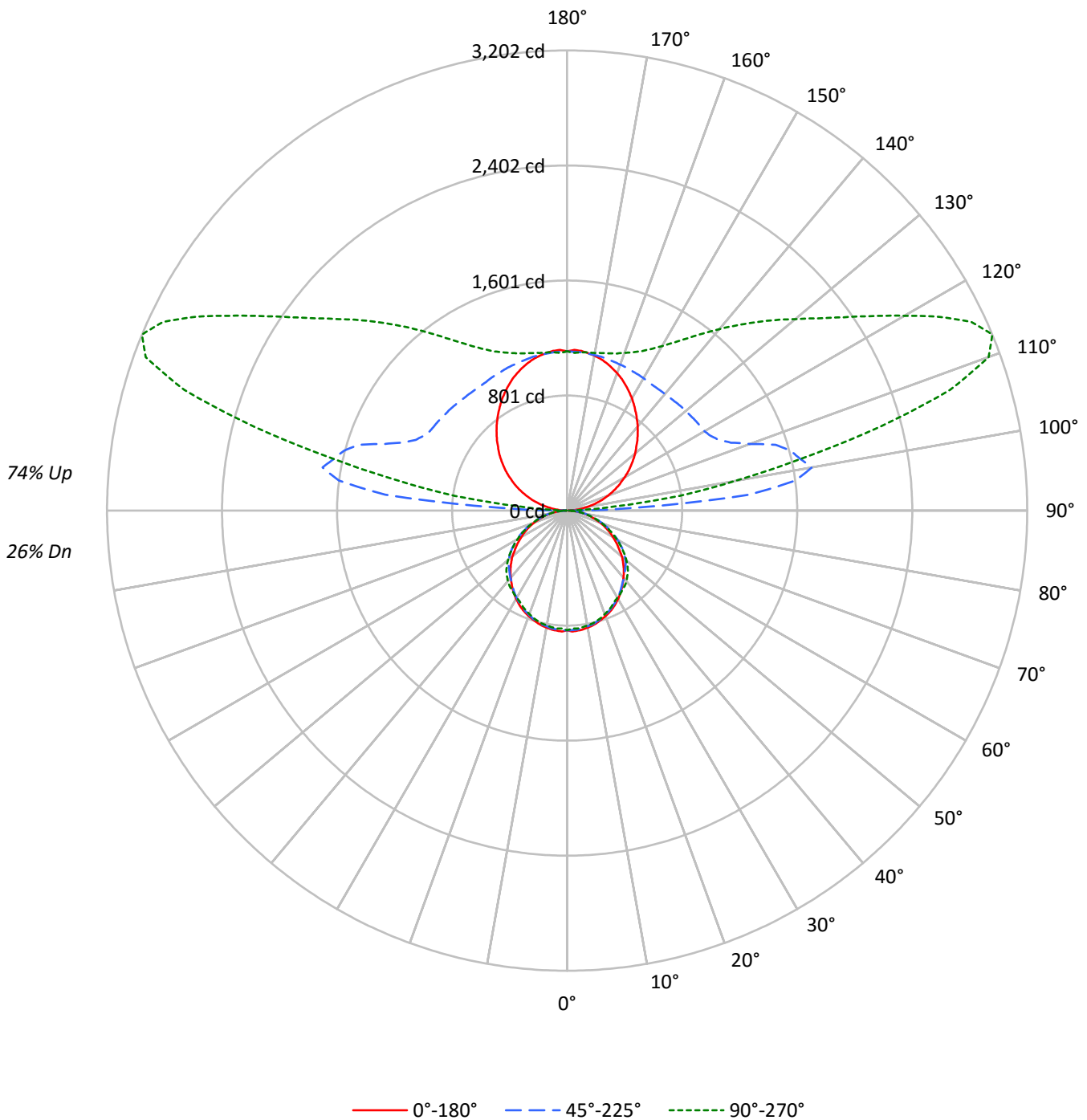
Input Watts (W): 72.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P234654

CATALOG NUMBER: CTA-F-7525-50L830-UNV-8

### Luminous Intensity Polar Plot





TEST NUMBER: P234654

CATALOG NUMBER: CTA-F-7525-50L830-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	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	78	75	72	61	59	57	44	43	42	29	29	28	21
2	84	76	70	65	74	68	63	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	54	68	60	54	49	46	42	39	34	31	29	23	21	20	15
4	70	59	51	46	62	53	46	41	41	37	33	30	27	25	20	18	17	12
5	64	52	45	39	56	47	40	35	37	32	28	27	24	21	18	16	14	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	7
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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

	0°	45°	90°
0°	2689	2689	2689
5°	2718	2693	2668
10°	2711	2680	2661
15°	2700	2674	2655
20°	2683	2656	2637
25°	2672	2638	2617
30°	2646	2617	2610
35°	2607	2593	2646
40°	2569	2586	2707
45°	2538	2608	2731
50°	2502	2656	2705
55°	2425	2653	2631
60°	2384	2608	2571
65°	2336	2542	2512
70°	2287	2469	2433
75°	2231	2399	2352
80°	2216	2324	2254
85°	2067	2278	2138



TEST NUMBER: P234654

CATALOG NUMBER: CTA-F-7525-50L830-UNV-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.8	0.8
10°-20°	225.6	2.3
20°-30°	340.9	3.5
30°-40°	414.2	4.3
40°-50°	442.1	4.5
50°-60°	407.7	4.2
60°-70°	321.8	3.3
70°-80°	200.8	2.1
80°-90°	67.8	0.7
90°-100°	581.7	6.0
100°-110°	1490.4	15.3
110°-120°	1489.7	15.3
120°-130°	1152.6	11.8
130°-140°	909.7	9.3
140°-150°	693.6	7.1
150°-160°	500.0	5.1
160°-170°	309.1	3.2
170°-180°	105.3	1.1
0°-30°	645.3	6.6
0°-40°	1059.5	10.9
0°-60°	1909.3	19.6
0°-90°	2499.8	25.7
90°-120°	3561.8	36.6
90°-150°	6317.7	64.9
90°-180°	7232.0	74.3
0°-180°	9731.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	838	831	831	827	823	80
15°	808	798	800	798	794	228
25°	750	740	740	736	735	345
35°	662	654	658	665	671	414
45°	556	554	571	590	598	429
55°	431	433	471	467	467	386
65°	306	321	333	329	329	303
75°	179	192	192	192	188	190
85°	56	62	62	64	58	60
90°	6	6	6	6	4	10
95°	62	215	1271	581	344	66
105°	219	350	1608	2636	2258	231
115°	383	481	1164	2627	3104	378
125°	540	623	1090	1952	2344	483
135°	690	754	1067	1596	1854	533
145°	833	873	1056	1321	1465	521
155°	964	979	1071	1169	1223	444
165°	1062	1060	1090	1119	1133	299
175°	1115	1102	1106	1106	1106	106
180°	1108	1108	1108	1108	1108	



TEST NUMBER: P234654

CATALOG NUMBER: CTA-F-7525-50L830-UNV-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	832.7	832.7	832.7	832.7	832.7
2.5°	842.3	832.7	832.7	830.8	821.2
5°	838.5	830.8	830.8	826.9	823.1
7.5°	834.6	826.9	826.9	823.1	819.2
10°	826.9	817.3	817.3	815.4	811.5
12.5°	819.2	809.6	811.5	807.7	805.8
15°	807.7	798.1	800.0	798.1	794.2
17.5°	794.2	786.5	788.5	786.5	782.7
20°	780.8	771.2	773.1	771.2	767.3
22.5°	767.3	757.7	757.7	753.8	751.9
25°	750.0	740.4	740.4	736.5	734.6
27.5°	730.8	721.2	721.2	717.3	713.5
30°	709.6	700.0	701.9	696.2	700.0
32.5°	686.5	678.8	680.8	682.7	688.5
35°	661.5	653.8	657.7	665.4	671.2
37.5°	636.5	630.8	632.7	650.0	659.6
40°	609.6	605.8	613.5	634.6	642.3
42.5°	584.6	580.8	592.3	615.4	619.2
45°	555.8	553.8	571.2	590.4	598.1
47.5°	526.9	525.0	551.9	567.3	569.2
50°	498.1	496.2	528.8	536.5	538.5
52.5°	461.5	463.5	501.9	505.8	505.8
55°	430.8	432.7	471.2	467.3	467.3
57.5°	400.0	405.8	438.5	432.7	434.6
60°	369.2	376.9	403.8	400.0	398.1
62.5°	338.5	350.0	369.2	363.5	363.5
65°	305.8	321.2	332.7	328.8	328.8
67.5°	275.0	292.3	298.1	294.2	292.3
70°	242.3	261.5	261.5	259.6	257.7
72.5°	211.5	226.9	226.9	225.0	223.1
75°	178.8	192.3	192.3	192.3	188.5
77.5°	148.1	157.7	159.6	157.7	153.8
80°	119.2	125.0	125.0	123.1	121.2
82.5°	90.4	92.3	92.3	92.3	88.5
85°	55.8	61.5	61.5	63.5	57.7
87.5°	30.8	32.7	34.6	32.7	28.8
90°	5.8	5.8	5.8	5.8	3.8
92.5°	30.8	140.4	494.2	113.5	76.9
95°	61.5	215.4	1271.2	580.8	344.2
97.5°	98.1	257.7	1601.9	1042.3	786.5
100°	136.5	330.8	1728.8	1532.7	1176.9
102.5°	176.9	348.1	1661.5	2136.5	1669.2
105°	219.2	350.0	1607.7	2636.5	2257.7
107.5°	261.5	363.5	1521.2	2915.4	2794.2
110°	300.0	400.0	1353.8	2975.0	3121.2



TEST NUMBER: P234654

CATALOG NUMBER: CTA-F-7525-50L830-UNV-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	342.3	440.4	1234.6	2838.5	3201.9
115°	382.7	480.8	1163.5	2626.9	3103.8
117.5°	421.2	519.2	1125.0	2415.4	2919.2
120°	461.5	555.8	1103.8	2228.8	2711.5
122.5°	501.9	590.4	1096.2	2075.0	2517.3
125°	540.4	623.1	1090.4	1951.9	2344.2
127.5°	578.8	655.8	1082.7	1851.9	2196.2
130°	617.3	688.5	1078.8	1765.4	2073.1
132.5°	651.9	721.2	1073.1	1678.8	1961.5
135°	690.4	753.8	1067.3	1596.2	1853.8
137.5°	726.9	784.6	1061.5	1519.2	1748.1
140°	763.5	815.4	1059.6	1448.1	1648.1
142.5°	798.1	846.2	1057.7	1382.7	1551.9
145°	832.7	873.1	1055.8	1321.2	1465.4
147.5°	867.3	901.9	1057.7	1271.2	1386.5
150°	901.9	928.8	1063.5	1230.8	1321.2
152.5°	932.7	953.8	1067.3	1194.2	1267.3
155°	963.5	978.8	1071.2	1169.2	1223.1
157.5°	992.3	1001.9	1076.9	1150.0	1192.3
160°	1017.3	1023.1	1080.8	1136.5	1167.3
162.5°	1040.4	1042.3	1084.6	1126.9	1146.2
165°	1061.5	1059.6	1090.4	1119.2	1132.7
167.5°	1080.8	1073.1	1096.2	1111.5	1123.1
170°	1094.2	1084.6	1098.1	1109.6	1113.5
172.5°	1105.8	1094.2	1101.9	1105.8	1109.6
175°	1115.4	1101.9	1105.8	1105.8	1105.8
177.5°	1119.2	1105.8	1105.8	1105.8	1098.1
180°	1107.7	1107.7	1107.7	1107.7	1107.7

(END OF REPORT)