

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: P234585

Luminaire Tested: **CTA-F-2575-50L830-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234585  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-13)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-2575-50L830-UNV-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT  
Light Source: (1008) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

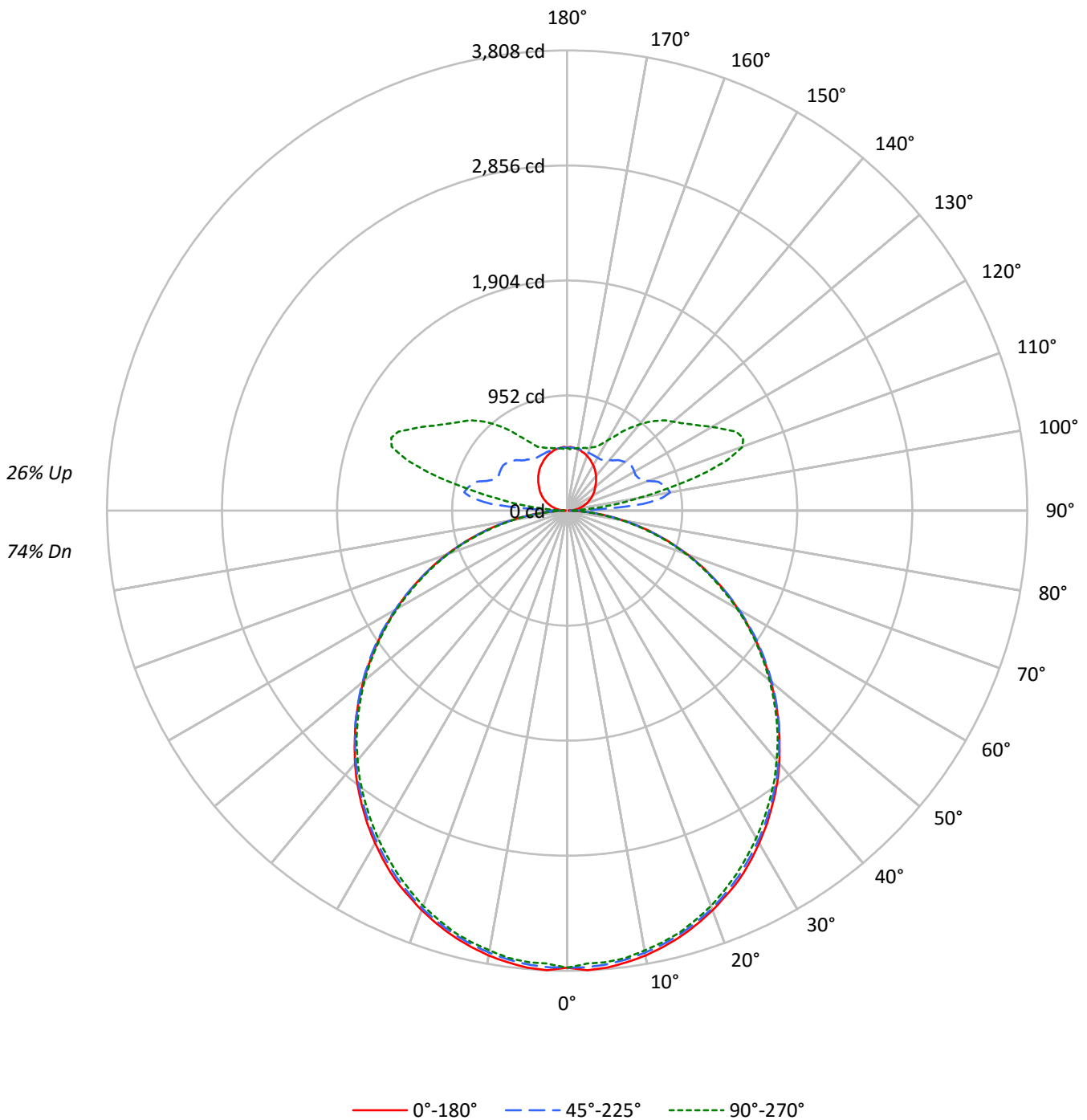
Lumens per Lamp: N/A  
Luminaire Lumens: 14509.4 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36  
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 140.5  
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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CATALOG NUMBER: CTA-F-2575-50L830-UNV-12

### 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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	98	94	90	97	93	90	86	84	82	79	76	74	72	69	67	65	62
2	93	85	79	73	88	81	75	70	74	69	65	67	63	60	60	57	55	51
3	85	75	67	61	80	71	64	59	65	59	54	59	54	50	53	49	46	43
4	78	66	58	51	73	63	56	50	57	51	46	52	47	43	47	43	40	37
5	71	59	50	44	67	56	48	43	51	45	40	47	41	37	42	38	34	32
6	66	53	44	38	62	51	43	37	46	40	35	42	37	32	38	34	30	28
7	61	48	39	34	58	46	38	33	42	35	31	38	33	29	35	30	27	24
8	57	44	35	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	30	25	22	20
10	49	37	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

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

	0°	45°	90°
0°	8141	8141	8141
5°	8203	8147	8103
10°	8172	8121	8077
15°	8126	8081	8048
20°	8062	8029	7976
25°	8002	7948	7879
30°	7901	7851	7779
35°	7793	7747	7679
40°	7676	7644	7579
45°	7535	7535	7464
50°	7371	7409	7322
55°	7210	7264	7167
60°	7042	7079	6992
65°	6861	6861	6773
70°	6663	6609	6554
75°	6358	6310	6165
80°	5865	5865	5650
85°	5201	4987	4559



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.7	2.5
10°-20°	1021.5	7.0
20°-30°	1536.7	10.6
30°-40°	1839.6	12.7
40°-50°	1900.3	13.1
50°-60°	1718.1	11.8
60°-70°	1330.3	9.2
70°-80°	799.6	5.5
80°-90°	233.8	1.6
90°-100°	313.8	2.2
100°-110°	766.6	5.3
110°-120°	779.5	5.4
120°-130°	628.4	4.3
130°-140°	495.8	3.4
140°-150°	353.1	2.4
150°-160°	238.7	1.6
160°-170°	146.2	1.0
170°-180°	49.6	0.3
0°-30°	2916.0	20.1
0°-40°	4755.6	32.8
0°-60°	8374.1	57.7
0°-90°	10737.7	74.0
90°-120°	1859.9	12.8
90°-150°	3337.2	23.0
90°-180°	3772.0	26.0
0°-180°	14509.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3782	3782	3782	3782	3782	
5°	3796	3759	3770	3762	3750	360
15°	3646	3612	3626	3623	3612	1028
25°	3369	3332	3346	3326	3317	1551
35°	2965	2936	2948	2934	2922	1855
45°	2475	2461	2475	2461	2452	1908
55°	1921	1918	1936	1918	1910	1718
65°	1347	1353	1347	1336	1330	1334
75°	764	764	759	753	741	808
85°	211	214	202	190	185	226
90°	12	29	29	29	26	20
95°	49	138	632	314	214	51
105°	133	234	822	1304	1148	139
115°	205	300	646	1330	1543	204
125°	274	326	649	1064	1246	244
135°	338	369	591	912	1050	261
145°	404	421	511	698	799	252
155°	459	464	508	560	583	211
165°	499	499	514	534	536	141
175°	525	519	522	522	516	50
180°	519	519	519	519	519	



TEST NUMBER: P234585

CATALOG NUMBER: CTA-F-2575-50L830-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3781.7	3781.7	3781.7	3781.7	3781.7
2.5°	3807.7	3770.2	3781.7	3776.0	3752.9
5°	3796.2	3758.7	3770.2	3761.5	3750.0
7.5°	3770.2	3735.6	3747.1	3741.3	3732.7
10°	3738.5	3703.8	3715.4	3706.7	3695.2
12.5°	3695.2	3660.6	3675.0	3666.3	3657.7
15°	3646.2	3611.5	3626.0	3623.1	3611.5
17.5°	3585.6	3553.8	3568.3	3562.5	3548.1
20°	3519.2	3487.5	3504.8	3490.4	3481.7
22.5°	3444.2	3409.6	3426.9	3409.6	3401.0
25°	3369.2	3331.7	3346.2	3326.0	3317.3
27.5°	3276.9	3239.4	3253.8	3233.7	3225.0
30°	3178.8	3144.2	3158.7	3138.5	3129.8
32.5°	3075.0	3043.3	3057.7	3037.5	3028.8
35°	2965.4	2936.5	2948.1	2933.7	2922.1
37.5°	2852.9	2824.0	2838.5	2821.2	2815.4
40°	2731.7	2708.7	2720.2	2702.9	2697.1
42.5°	2601.9	2584.6	2599.0	2584.6	2578.8
45°	2475.0	2460.6	2475.0	2460.6	2451.9
47.5°	2339.4	2327.9	2345.2	2327.9	2319.2
50°	2201.0	2198.1	2212.5	2198.1	2186.5
52.5°	2062.5	2059.6	2074.0	2059.6	2048.1
55°	1921.2	1918.3	1935.6	1918.3	1909.6
57.5°	1779.8	1779.8	1791.3	1774.0	1768.3
60°	1635.6	1638.5	1644.2	1629.8	1624.0
62.5°	1494.2	1494.2	1497.1	1488.5	1474.0
65°	1347.1	1352.9	1347.1	1335.6	1329.8
67.5°	1202.9	1205.8	1197.1	1191.3	1188.5
70°	1058.7	1058.7	1050.0	1047.1	1041.3
72.5°	911.5	914.4	902.9	897.1	894.2
75°	764.4	764.4	758.7	752.9	741.3
77.5°	620.2	617.3	614.4	600.0	597.1
80°	473.1	478.8	473.1	458.7	455.8
82.5°	340.4	343.3	334.6	320.2	317.3
85°	210.6	213.5	201.9	190.4	184.6
87.5°	89.4	92.3	77.9	69.2	66.3
90°	11.5	28.8	28.8	28.8	26.0
92.5°	34.6	95.2	279.8	92.3	69.2
95°	49.0	138.5	631.7	314.4	213.5
97.5°	75.0	164.4	790.4	530.8	409.6
100°	95.2	207.7	865.4	770.2	605.8
102.5°	112.5	222.1	848.1	1055.8	856.7
105°	132.7	233.7	822.1	1303.8	1148.1
107.5°	150.0	248.1	790.4	1439.4	1387.5
110°	170.2	271.2	715.4	1468.3	1546.2



TEST NUMBER: P234585

CATALOG NUMBER: CTA-F-2575-50L830-UNV-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	187.5	288.5	666.3	1419.2	1575.0
115°	204.8	300.0	646.2	1329.8	1543.3
117.5°	225.0	308.7	637.5	1240.4	1459.6
120°	239.4	311.5	643.3	1159.6	1384.6
122.5°	256.7	317.3	646.2	1107.7	1306.7
125°	274.0	326.0	649.0	1064.4	1246.2
127.5°	288.5	328.8	640.4	1029.8	1188.5
130°	302.9	340.4	626.0	1001.0	1145.2
132.5°	320.2	351.9	608.7	957.7	1104.8
135°	337.5	369.2	591.3	911.5	1050.0
137.5°	354.8	383.7	562.5	862.5	995.2
140°	372.1	395.2	545.2	810.6	928.8
142.5°	386.5	409.6	533.7	758.7	865.4
145°	403.8	421.2	510.6	698.1	799.0
147.5°	418.3	432.7	504.8	643.3	726.9
150°	432.7	444.2	504.8	611.5	672.1
152.5°	444.2	452.9	504.8	571.2	623.1
155°	458.7	464.4	507.7	559.6	582.7
157.5°	470.2	473.1	507.7	548.1	568.3
160°	481.7	484.6	510.6	542.3	553.8
162.5°	493.3	493.3	513.5	533.7	542.3
165°	499.0	499.0	513.5	533.7	536.5
167.5°	510.6	504.8	516.3	525.0	527.9
170°	516.3	510.6	519.2	525.0	525.0
172.5°	519.2	519.2	519.2	522.1	519.2
175°	525.0	519.2	522.1	522.1	516.3
177.5°	527.9	519.2	522.1	522.1	507.7
180°	519.2	519.2	519.2	519.2	519.2

(END OF REPORT)