

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: P234562

Luminaire Tested: **CTA-F-0100-50L835-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-18)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-0100-50L835-UNV-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT  
Light Source: (1008) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16075.1 lumens  
Efficiency: N/A  
Efficacy: 95.7 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: Direct

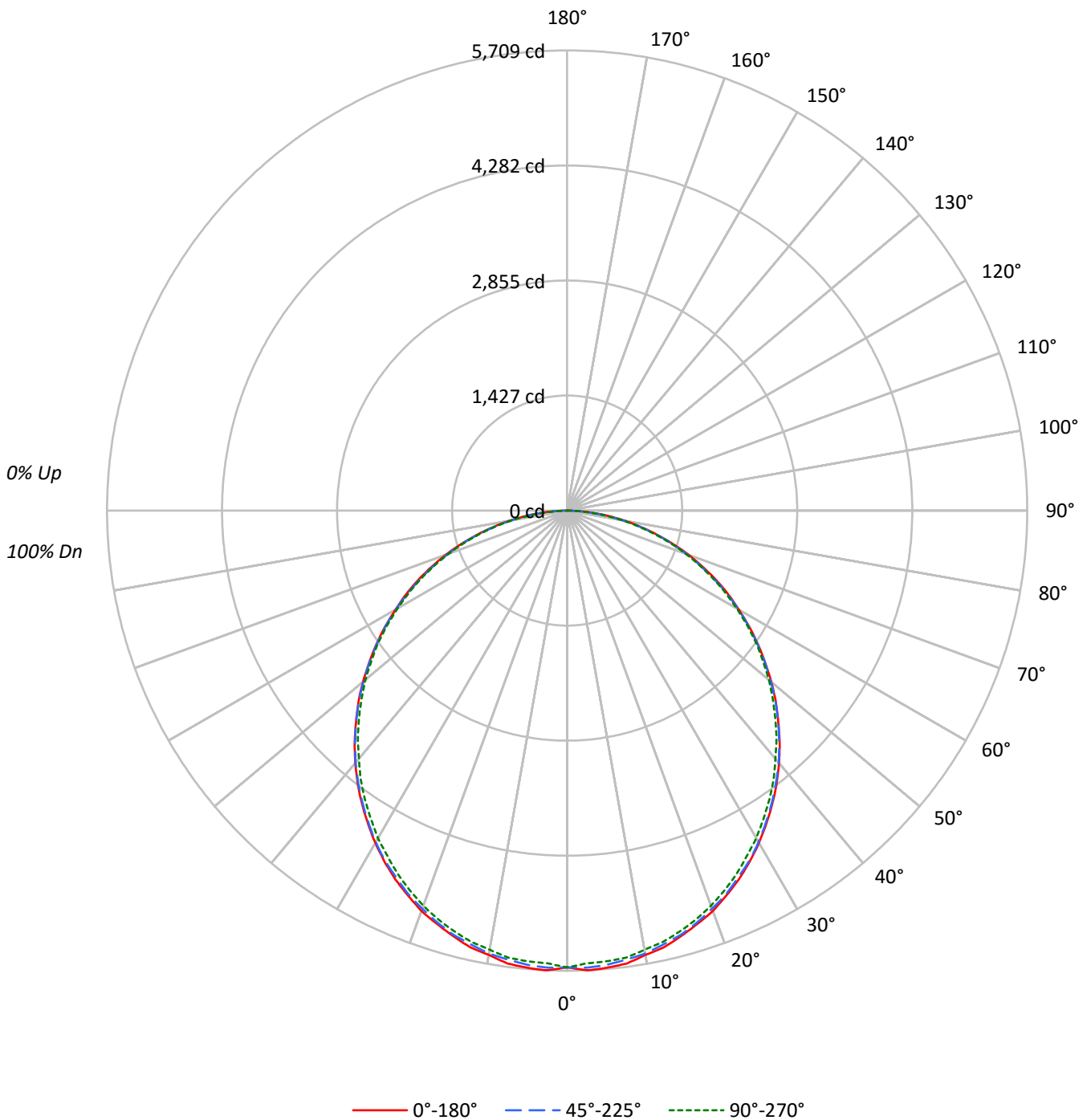
Input Watts (W): 167.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P234562

CATALOG NUMBER: CTA-F-0100-50L835-UNV-12

### Luminous Intensity Polar Plot





TEST NUMBER: P234562

CATALOG NUMBER: CTA-F-0100-50L835-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	12199	12199	12199
5°	12304	12226	12129
10°	12236	12197	12092
15°	12181	12141	12048
20°	12109	12040	11951
25°	11985	11928	11814
30°	11834	11804	11663
35°	11668	11636	11494
40°	11490	11473	11296
45°	11279	11270	11124
50°	11071	11041	10941
55°	10842	10809	10741
60°	10591	10565	10462
65°	10406	10253	10177
70°	10083	9913	9818
75°	9606	9506	9332
80°	8963	8777	8516
85°	7854	7335	6965



TEST NUMBER: P234562

CATALOG NUMBER: CTA-F-0100-50L835-UNV-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.8	3.3
10°-20°	1530.2	9.5
20°-30°	2303.6	14.3
30°-40°	2754.7	17.1
40°-50°	2840.9	17.7
50°-60°	2568.9	16.0
60°-70°	1994.2	12.4
70°-80°	1202.4	7.5
80°-90°	344.6	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4369.5	27.2
0°-40°	7124.2	44.3
0°-60°	12533.9	78.0
0°-90°	16075.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16075.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5667	5667	5667	5667	5667	
5°	5694	5616	5658	5631	5613	541
15°	5466	5394	5448	5427	5406	1543
25°	5046	4980	5022	4980	4974	2324
35°	4440	4392	4428	4383	4374	2777
45°	3705	3690	3702	3663	3654	2861
55°	2889	2889	2880	2859	2862	2582
65°	2043	2025	2013	2007	1998	2016
75°	1155	1149	1143	1131	1122	1221
85°	318	318	297	282	282	364
90°	0	0	0	0	0	



TEST NUMBER: P234562

CATALOG NUMBER: CTA-F-0100-50L835-UNV-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5667	5667	5667	5667	5667
2.5°	5709	5631	5676	5658	5622
5°	5694	5616	5658	5631	5613
7.5°	5667	5577	5619	5604	5595
10°	5598	5532	5580	5550	5532
12.5°	5550	5463	5514	5493	5481
15°	5466	5394	5448	5427	5406
17.5°	5376	5307	5358	5337	5319
20°	5286	5211	5256	5232	5217
22.5°	5166	5100	5151	5109	5100
25°	5046	4980	5022	4980	4974
27.5°	4908	4851	4896	4854	4830
30°	4761	4707	4749	4698	4692
32.5°	4602	4557	4590	4554	4533
35°	4440	4392	4428	4383	4374
37.5°	4269	4227	4257	4215	4206
40°	4089	4053	4083	4035	4020
42.5°	3903	3876	3894	3849	3843
45°	3705	3690	3702	3663	3654
47.5°	3513	3492	3507	3462	3459
50°	3306	3297	3297	3267	3267
52.5°	3096	3090	3093	3060	3060
55°	2889	2889	2880	2859	2862
57.5°	2676	2670	2670	2646	2646
60°	2460	2460	2454	2433	2430
62.5°	2256	2247	2235	2220	2217
65°	2043	2025	2013	2007	1998
67.5°	1818	1806	1791	1785	1782
70°	1602	1584	1575	1563	1560
72.5°	1377	1365	1356	1347	1344
75°	1155	1149	1143	1131	1122
77.5°	936	930	918	912	903
80°	723	717	708	699	687
82.5°	516	513	498	486	474
85°	318	318	297	282	282
87.5°	141	132	114	99	96
90°	0	0	0	0	0

(END OF REPORT)