

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: P234560

Luminaire Tested: **CTA-F-0100-50L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234560  
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-0100-50L840-UNV-8  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT  
Light Source: (672) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10922.8 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36  
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')  
CIE Type: Direct

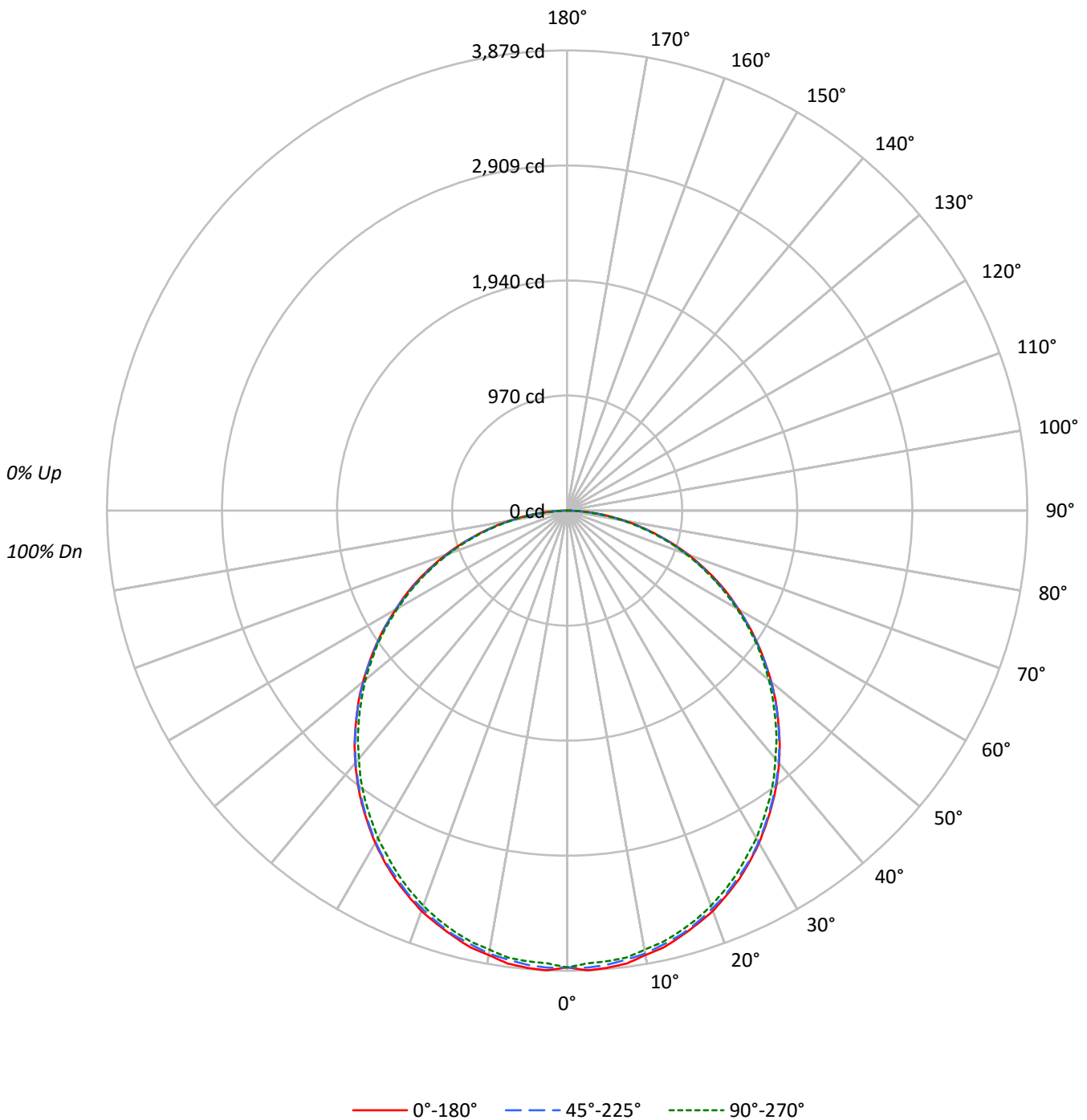
Input Watts (W): 111.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P234560

CATALOG NUMBER: CTA-F-0100-50L840-UNV-8

### Luminous Intensity Polar Plot





TEST NUMBER: P234560

CATALOG NUMBER: CTA-F-0100-50L840-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	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°	12434	12434	12434
5°	12540	12461	12362
10°	12472	12431	12324
15°	12416	12374	12279
20°	12342	12272	12181
25°	12215	12157	12041
30°	12061	12031	11887
35°	11892	11860	11715
40°	11711	11694	11513
45°	11496	11487	11337
50°	11284	11254	11151
55°	11051	11016	10948
60°	10794	10768	10663
65°	10606	10450	10372
70°	10276	10103	10007
75°	9791	9690	9511
80°	9136	8946	8680
85°	8006	7476	7098



TEST NUMBER: P234560

CATALOG NUMBER: CTA-F-0100-50L840-UNV-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.0	3.3
10°-20°	1039.7	9.5
20°-30°	1565.3	14.3
30°-40°	1871.8	17.1
40°-50°	1930.3	17.7
50°-60°	1745.5	16.0
60°-70°	1355.0	12.4
70°-80°	817.0	7.5
80°-90°	234.1	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°	2969.0	27.2
0°-40°	4840.8	44.3
0°-60°	8516.6	78.0
0°-90°	10922.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10922.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3851	3851	3851	3851	3851	
5°	3869	3816	3844	3826	3814	367
15°	3714	3665	3702	3688	3673	1048
25°	3429	3384	3412	3384	3380	1579
35°	3017	2984	3009	2978	2972	1887
45°	2518	2507	2516	2489	2483	1944
55°	1963	1963	1957	1943	1945	1754
65°	1388	1376	1368	1364	1358	1370
75°	785	781	777	768	762	830
85°	216	216	202	192	192	247
90°	0	0	0	0	0	



TEST NUMBER: P234560

CATALOG NUMBER: CTA-F-0100-50L840-UNV-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3850.7	3850.7	3850.7	3850.7	3850.7
2.5°	3879.2	3826.2	3856.8	3844.5	3820.1
5°	3869.0	3816.0	3844.5	3826.2	3814.0
7.5°	3850.7	3789.5	3818.0	3807.8	3801.7
10°	3803.8	3758.9	3791.5	3771.2	3758.9
12.5°	3771.2	3712.0	3746.7	3732.4	3724.3
15°	3714.1	3665.2	3701.8	3687.6	3673.3
17.5°	3652.9	3606.0	3640.7	3626.4	3614.2
20°	3591.8	3540.8	3571.4	3555.1	3544.9
22.5°	3510.2	3465.4	3500.0	3471.5	3465.4
25°	3428.7	3383.8	3412.4	3383.8	3379.8
27.5°	3334.9	3296.2	3326.8	3298.2	3281.9
30°	3235.0	3198.3	3226.9	3192.2	3188.2
32.5°	3127.0	3096.4	3118.8	3094.4	3080.1
35°	3016.9	2984.3	3008.8	2978.2	2972.1
37.5°	2900.7	2872.2	2892.6	2864.0	2857.9
40°	2778.4	2754.0	2774.3	2741.7	2731.5
42.5°	2652.0	2633.7	2645.9	2615.3	2611.3
45°	2517.5	2507.3	2515.5	2489.0	2482.8
47.5°	2387.0	2372.8	2383.0	2352.4	2350.3
50°	2246.4	2240.3	2240.3	2219.9	2219.9
52.5°	2103.7	2099.6	2101.7	2079.2	2079.2
55°	1963.0	1963.0	1956.9	1942.7	1944.7
57.5°	1818.3	1814.2	1814.2	1797.9	1797.9
60°	1671.5	1671.5	1667.5	1653.2	1651.2
62.5°	1532.9	1526.8	1518.7	1508.5	1506.4
65°	1388.2	1376.0	1367.8	1363.7	1357.6
67.5°	1235.3	1227.2	1217.0	1212.9	1210.8
70°	1088.5	1076.3	1070.2	1062.0	1060.0
72.5°	935.7	927.5	921.4	915.3	913.2
75°	784.8	780.7	776.7	768.5	762.4
77.5°	636.0	631.9	623.8	619.7	613.6
80°	491.3	487.2	481.1	475.0	466.8
82.5°	350.6	348.6	338.4	330.2	322.1
85°	216.1	216.1	201.8	191.6	191.6
87.5°	95.8	89.7	77.5	67.3	65.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)