

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: P234563

Luminaire Tested: **CTA-F-0100-50L840-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234563  
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-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT  
Light Source: (1008) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16384.2 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: 12' x H: 0')  
CIE Type: Direct

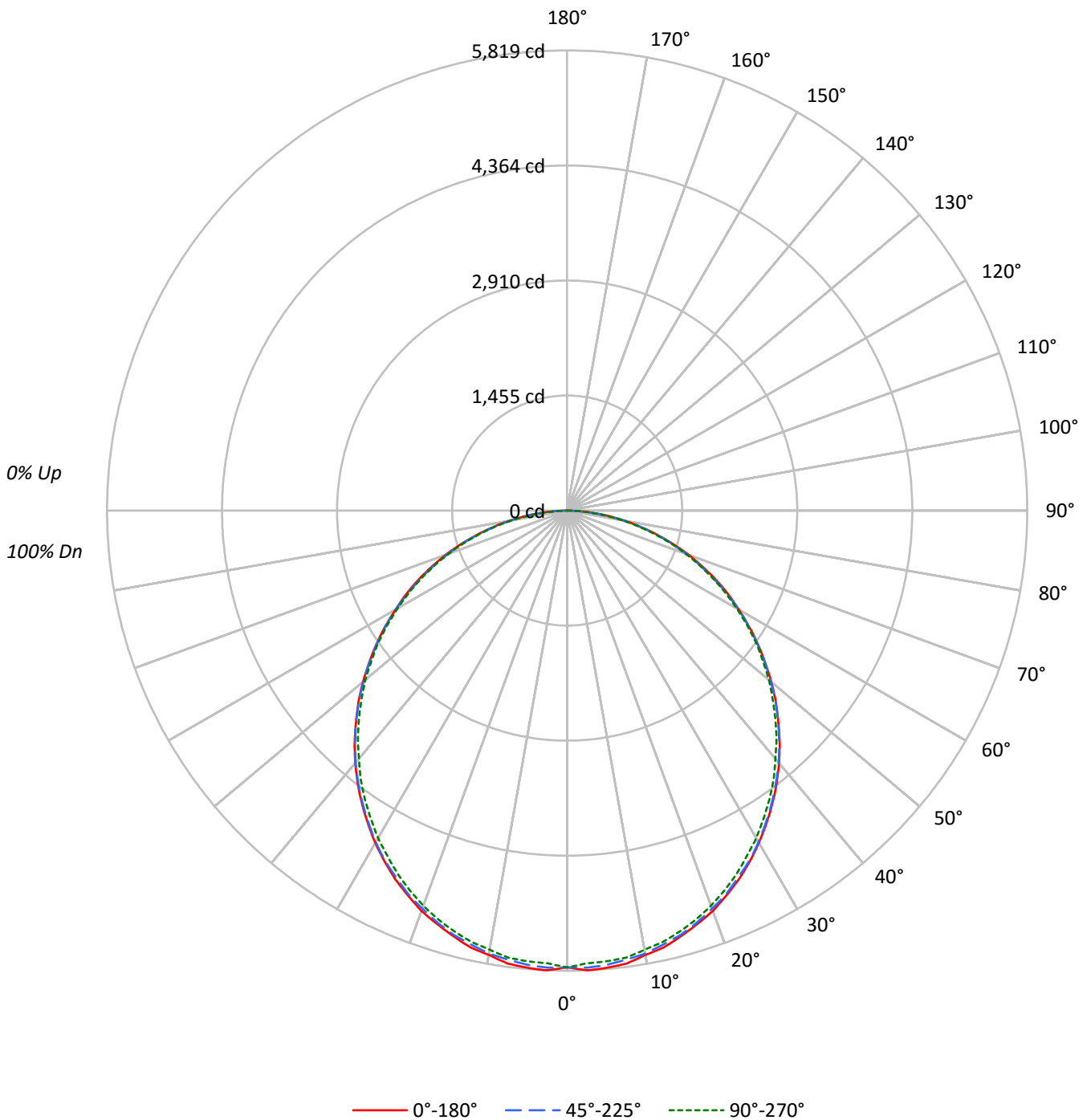
Input Watts (W): 167.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	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°	12433	12433	12433
5°	12540	12461	12362
10°	12472	12431	12325
15°	12415	12375	12279
20°	12342	12272	12181
25°	12215	12157	12041
30°	12062	12031	11887
35°	11892	11860	11715
40°	11711	11694	11514
45°	11496	11487	11338
50°	11284	11254	11151
55°	11051	11016	10947
60°	10794	10768	10663
65°	10606	10450	10372
70°	10277	10103	10007
75°	9791	9689	9511
80°	9135	8945	8680
85°	8005	7476	7098



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.1	3.3
10°-20°	1559.6	9.5
20°-30°	2347.9	14.3
30°-40°	2807.7	17.1
40°-50°	2895.5	17.7
50°-60°	2618.3	16.0
60°-70°	2032.5	12.4
70°-80°	1225.5	7.5
80°-90°	351.2	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°	4453.6	27.2
0°-40°	7261.2	44.3
0°-60°	12775.0	78.0
0°-90°	16384.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16384.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5776	5776	5776	5776	5776	
5°	5804	5724	5767	5739	5721	551
15°	5571	5498	5553	5531	5510	1572
25°	5143	5076	5119	5076	5070	2369
35°	4525	4476	4513	4467	4458	2831
45°	3776	3761	3773	3733	3724	2916
55°	2945	2945	2935	2914	2917	2632
65°	2082	2064	2052	2046	2036	2055
75°	1177	1171	1165	1153	1144	1245
85°	324	324	303	287	287	371
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5776.0	5776.0	5776.0	5776.0	5776.0
2.5°	5818.8	5739.3	5785.2	5766.8	5730.1
5°	5803.5	5724.0	5766.8	5739.3	5720.9
7.5°	5776.0	5684.2	5727.1	5711.8	5702.6
10°	5705.7	5638.4	5687.3	5656.7	5638.4
12.5°	5656.7	5568.1	5620.0	5598.6	5586.4
15°	5571.1	5497.7	5552.8	5531.4	5510.0
17.5°	5479.4	5409.1	5461.0	5439.6	5421.3
20°	5387.7	5311.2	5357.1	5332.6	5317.3
22.5°	5265.3	5198.1	5250.1	5207.2	5198.1
25°	5143.0	5075.8	5118.6	5075.8	5069.7
27.5°	5002.4	4944.3	4990.2	4947.3	4922.9
30°	4852.6	4797.5	4840.3	4788.3	4782.2
32.5°	4690.5	4644.6	4678.3	4641.6	4620.2
35°	4525.4	4476.5	4513.2	4467.3	4458.1
37.5°	4351.1	4308.3	4338.9	4296.1	4286.9
40°	4167.6	4130.9	4161.5	4112.6	4097.3
42.5°	3978.1	3950.5	3968.9	3923.0	3916.9
45°	3776.2	3761.0	3773.2	3733.4	3724.3
47.5°	3580.6	3559.2	3574.4	3528.6	3525.5
50°	3369.6	3360.4	3360.4	3329.8	3329.8
52.5°	3155.5	3149.4	3152.5	3118.8	3118.8
55°	2944.6	2944.6	2935.4	2914.0	2917.0
57.5°	2727.5	2721.3	2721.3	2696.9	2696.9
60°	2507.3	2507.3	2501.2	2479.8	2476.7
62.5°	2299.4	2290.2	2278.0	2262.7	2259.6
65°	2082.3	2063.9	2051.7	2045.6	2036.4
67.5°	1853.0	1840.7	1825.4	1819.3	1816.3
70°	1632.8	1614.5	1605.3	1593.1	1590.0
72.5°	1403.5	1391.2	1382.1	1372.9	1369.8
75°	1177.2	1171.1	1165.0	1152.7	1143.6
77.5°	954.0	947.9	935.7	929.5	920.4
80°	736.9	730.8	721.6	712.4	700.2
82.5°	525.9	522.9	507.6	495.3	483.1
85°	324.1	324.1	302.7	287.4	287.4
87.5°	143.7	134.5	116.2	100.9	97.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)