

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: P234608

Luminaire Tested: **CTA-F-5050-30L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234608  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-6)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-5050-30L840-UNV-8  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
3000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (672) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6154.9 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.37  
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')  
CIE Type: General Diffuse

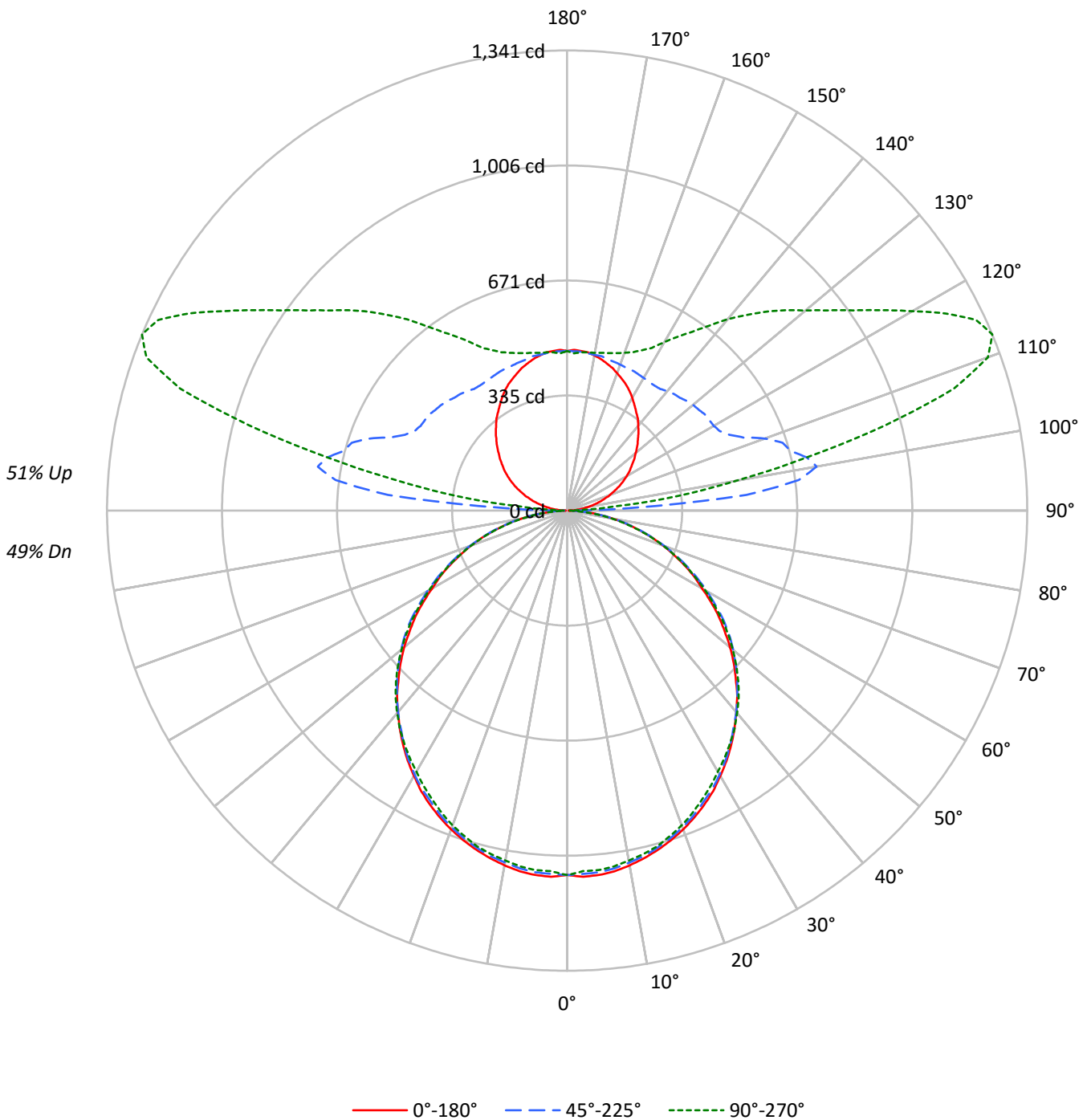
Input Watts (W): 53  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	97	93	89	85	90	86	82	79	72	70	68	60	58	57	49	48	46	41				
2	88	81	75	69	81	75	69	65	63	59	56	52	50	47	43	41	39	34				
3	81	71	63	58	74	66	59	54	56	51	46	46	43	39	38	35	33	29				
4	74	63	55	48	67	58	51	45	49	44	39	41	37	34	33	30	28	24				
5	67	56	47	41	62	52	44	39	44	38	34	37	32	29	30	27	24	21				
6	62	50	42	36	57	46	39	34	39	34	29	33	29	25	27	24	21	18				
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	21	19	16				
8	53	41	33	28	49	38	31	26	33	27	23	27	23	20	23	19	17	14				
9	50	37	30	24	46	35	28	23	30	24	20	25	21	18	21	18	15	13				
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	19	16	14	12				

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

	0°	45°	90°
0°	3429	3429	3429
5°	3455	3429	3409
10°	3442	3415	3395
15°	3421	3400	3387
20°	3397	3376	3355
25°	3370	3341	3312
30°	3329	3314	3276
35°	3286	3270	3262
40°	3231	3231	3248
45°	3174	3202	3221
50°	3113	3174	3164
55°	3041	3133	3098
60°	2936	3041	3002
65°	2881	2944	2912
70°	2810	2848	2810
75°	2670	2721	2670
80°	2501	2577	2427
85°	2190	2267	1964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	1.6
10°-20°	286.8	4.7
20°-30°	431.7	7.0
30°-40°	518.3	8.4
40°-50°	539.5	8.8
50°-60°	489.2	7.9
60°-70°	378.3	6.1
70°-80°	229.1	3.7
80°-90°	68.7	1.1
90°-100°	245.7	4.0
100°-110°	638.2	10.4
110°-120°	645.8	10.5
120°-130°	504.5	8.2
130°-140°	397.6	6.5
140°-150°	297.0	4.8
150°-160°	210.3	3.4
160°-170°	129.8	2.1
170°-180°	44.2	0.7
0°-30°	818.9	13.3
0°-40°	1337.2	21.7
0°-60°	2365.8	38.4
0°-90°	3041.9	49.4
90°-120°	1529.7	24.9
90°-150°	2728.7	44.3
90°-180°	3113.0	50.6
0°-180°	6154.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1066	1056	1058	1054	1052	101
15°	1023	1015	1017	1017	1013	289
25°	946	936	938	934	930	436
35°	834	826	830	828	828	521
45°	695	691	701	705	705	537
55°	540	540	556	552	550	482
65°	377	381	385	383	381	373
75°	214	218	218	216	214	227
85°	59	61	61	57	53	65
90°	4	8	8	8	8	7
95°	31	96	524	230	143	32
105°	98	173	673	1111	960	103
115°	167	218	522	1131	1315	165
125°	230	267	489	856	1017	207
135°	292	320	465	711	820	225
145°	351	369	444	577	636	220
155°	406	412	450	491	516	187
165°	444	444	457	471	475	125
175°	467	463	465	465	463	44
180°	465	465	465	465	465	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1062.0	1062.0	1062.0	1062.0	1062.0
2.5°	1068.2	1060.0	1060.0	1058.0	1051.8
5°	1066.1	1055.9	1058.0	1053.9	1051.8
7.5°	1060.0	1049.8	1051.8	1047.8	1045.7
10°	1049.8	1039.6	1041.7	1039.6	1035.5
12.5°	1037.6	1029.4	1031.5	1029.4	1025.3
15°	1023.3	1015.2	1017.2	1017.2	1013.1
17.5°	1007.0	998.8	1000.9	1000.9	994.8
20°	988.7	980.5	982.5	980.5	976.4
22.5°	968.3	960.1	962.2	958.1	954.0
25°	945.8	935.7	937.7	933.6	929.5
27.5°	921.4	911.2	915.3	909.2	905.1
30°	892.8	884.7	888.8	880.6	878.6
32.5°	864.3	856.2	860.2	854.1	854.1
35°	833.7	825.6	829.7	827.6	827.6
37.5°	801.1	795.0	797.0	799.1	801.1
40°	766.5	762.4	766.5	768.5	770.5
42.5°	733.8	727.7	733.8	737.9	740.0
45°	695.1	691.0	701.2	705.3	705.3
47.5°	658.4	656.4	666.6	668.6	668.6
50°	619.7	619.7	631.9	631.9	629.9
52.5°	578.9	581.0	595.2	593.2	591.2
55°	540.2	540.2	556.5	552.4	550.4
57.5°	497.4	497.4	511.7	507.6	505.5
60°	454.6	460.7	470.9	464.8	464.8
62.5°	417.9	419.9	428.1	424.0	422.0
65°	377.1	381.2	385.3	383.2	381.2
67.5°	336.3	342.5	344.5	340.4	338.4
70°	297.6	301.7	301.7	299.7	297.6
72.5°	256.8	260.9	258.9	256.8	254.8
75°	214.0	218.1	218.1	216.1	214.0
77.5°	175.3	177.3	177.3	175.3	171.2
80°	134.5	138.6	138.6	134.5	130.5
82.5°	97.8	99.9	97.8	95.8	91.7
85°	59.1	61.2	61.2	57.1	53.0
87.5°	26.5	28.5	24.5	22.4	20.4
90°	4.1	8.2	8.2	8.2	8.2
92.5°	16.3	61.2	193.7	55.0	34.7
95°	30.6	95.8	523.9	230.3	142.7
97.5°	46.9	118.2	680.8	430.1	326.2
100°	63.2	150.8	737.9	648.2	497.4
102.5°	79.5	167.2	715.5	896.9	715.5
105°	97.8	173.3	672.7	1111.0	960.1
107.5°	114.2	177.3	658.4	1225.1	1182.3
110°	132.5	189.6	613.6	1249.6	1304.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	148.8	203.8	556.5	1210.8	1341.3
115°	167.2	218.1	521.8	1131.3	1314.8
117.5°	183.5	230.3	501.5	1045.7	1243.5
120°	199.8	244.6	493.3	970.3	1161.9
122.5°	216.1	256.8	491.3	909.2	1086.5
125°	230.3	267.0	489.2	856.2	1017.2
127.5°	246.7	279.3	483.1	815.4	958.1
130°	260.9	291.5	479.0	780.7	907.1
132.5°	277.2	305.8	472.9	746.1	864.3
135°	291.5	320.0	464.8	711.4	819.5
137.5°	307.8	332.3	460.7	674.7	772.6
140°	322.1	344.5	454.6	640.1	727.7
142.5°	338.4	356.7	446.4	603.4	678.8
145°	350.6	369.0	444.4	576.9	636.0
147.5°	364.9	381.2	444.4	550.4	601.3
150°	379.2	391.4	446.4	519.8	566.7
152.5°	393.4	401.6	448.5	503.5	534.1
155°	405.7	411.8	450.5	491.3	515.7
157.5°	415.8	419.9	450.5	483.1	499.4
160°	426.0	430.1	452.5	479.0	489.2
162.5°	436.2	438.3	454.6	475.0	481.1
165°	444.4	444.4	456.6	470.9	475.0
167.5°	452.5	450.5	460.7	466.8	470.9
170°	458.7	456.6	460.7	466.8	466.8
172.5°	464.8	460.7	462.7	464.8	464.8
175°	466.8	462.7	464.8	464.8	462.7
177.5°	468.8	464.8	464.8	464.8	458.7
180°	464.8	464.8	464.8	464.8	464.8

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