

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: P234600

Luminaire Tested: **CTA-F-5050-20L840-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-5050-20L840-UNV-8  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
2000 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: 4444.3 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')  
CIE Type: General Diffuse

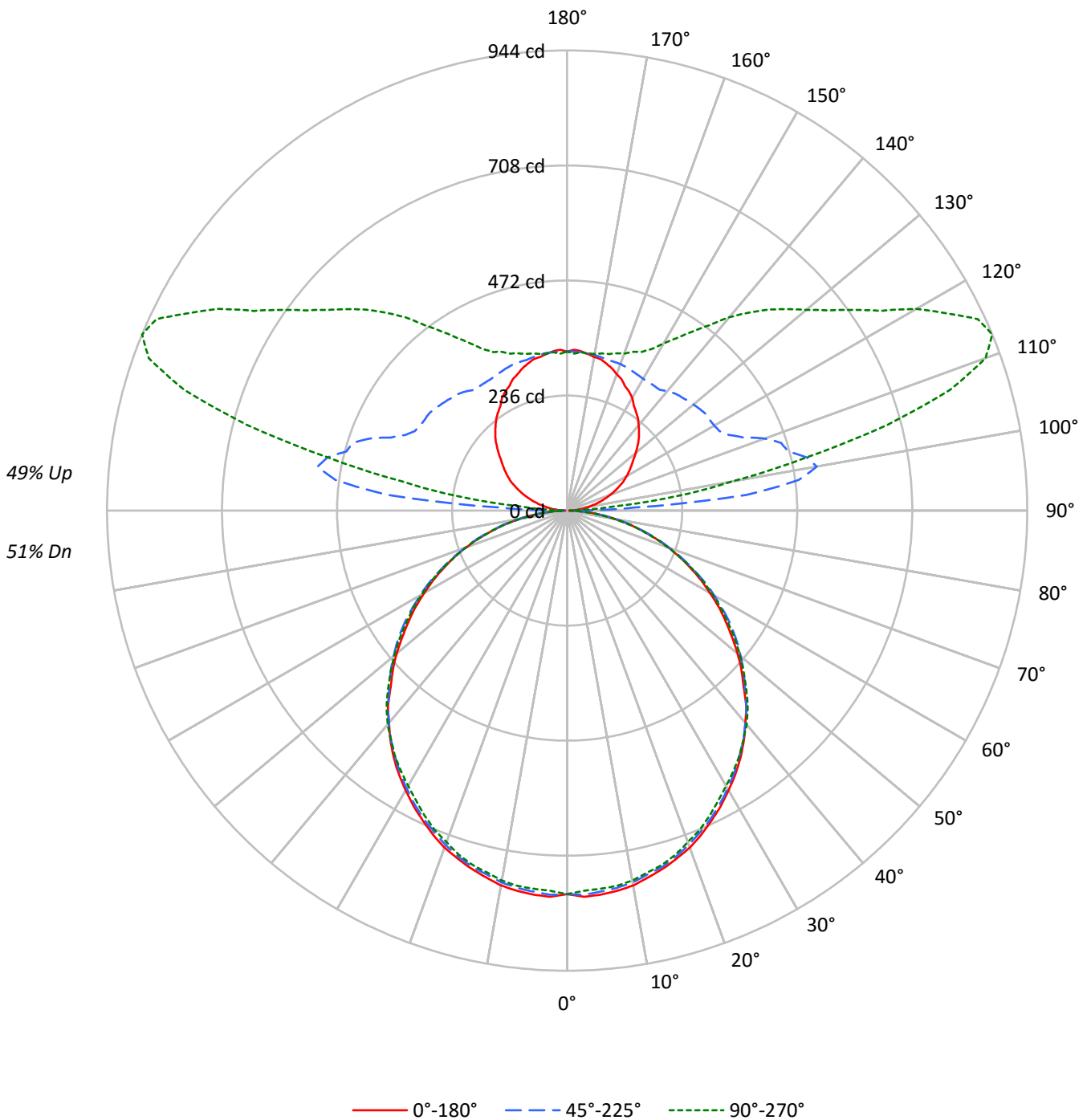
Input Watts (W): 35.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	50	49	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	25	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	21	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	16	14	12

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

	0°	45°	90°
0°	2541	2541	2541
5°	2564	2544	2524
10°	2560	2540	2526
15°	2542	2528	2514
20°	2529	2508	2487
25°	2498	2484	2462
30°	2470	2455	2432
35°	2443	2427	2427
40°	2397	2397	2414
45°	2337	2355	2374
50°	2294	2335	2324
55°	2238	2306	2272
60°	2185	2251	2225
65°	2134	2181	2164
70°	2079	2098	2079
75°	1984	2009	1984
80°	1858	1895	1819
85°	1660	1660	1512



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	1.7
10°-20°	212.9	4.8
20°-30°	320.5	7.2
30°-40°	384.8	8.7
40°-50°	398.5	9.0
50°-60°	361.1	8.1
60°-70°	280.4	6.3
70°-80°	169.9	3.8
80°-90°	50.7	1.1
90°-100°	173.5	3.9
100°-110°	447.5	10.1
110°-120°	455.0	10.2
120°-130°	356.6	8.0
130°-140°	280.9	6.3
140°-150°	208.3	4.7
150°-160°	147.4	3.3
160°-170°	91.0	2.0
170°-180°	31.0	0.7
0°-30°	607.9	13.7
0°-40°	992.6	22.3
0°-60°	1752.2	39.4
0°-90°	2253.1	50.7
90°-120°	1076.0	24.2
90°-150°	1921.8	43.2
90°-180°	2191.0	49.3
0°-180°	4444.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	787	787	787	787	787	
5°	791	783	785	783	779	75
15°	760	752	756	754	752	215
25°	701	695	697	693	691	323
35°	620	614	616	614	616	387
45°	512	510	516	520	520	396
55°	398	400	410	406	404	356
65°	279	283	285	283	283	277
75°	159	163	161	159	159	169
85°	45	45	45	43	41	48
90°	4	6	6	6	6	5
95°	22	67	369	163	100	23
105°	69	124	469	777	681	73
115°	118	155	367	797	930	117
125°	161	188	346	610	718	144
135°	208	224	330	499	583	160
145°	247	257	312	406	448	155
155°	281	290	316	344	359	130
165°	312	310	320	330	332	88
175°	328	324	326	324	326	31
180°	326	326	326	326	326	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	786.8	786.8	786.8	786.8	786.8
2.5°	793.0	786.8	788.9	786.8	780.7
5°	790.9	782.8	784.8	782.8	778.7
7.5°	786.8	778.7	780.7	778.7	776.7
10°	780.7	772.6	774.6	772.6	770.5
12.5°	770.5	762.4	764.4	762.4	760.3
15°	760.3	752.2	756.3	754.2	752.2
17.5°	748.1	742.0	744.0	742.0	740.0
20°	735.9	727.7	729.8	727.7	723.7
22.5°	719.6	713.5	713.5	711.4	709.4
25°	701.2	695.1	697.2	693.1	691.0
27.5°	682.9	676.8	678.8	674.7	670.7
30°	662.5	656.4	658.4	654.3	652.3
32.5°	642.1	636.0	638.0	634.0	634.0
35°	619.7	613.6	615.6	613.6	615.6
37.5°	595.2	589.1	593.2	593.2	593.2
40°	568.7	564.7	568.7	570.8	572.8
42.5°	544.3	540.2	544.3	548.3	548.3
45°	511.7	509.6	515.7	519.8	519.8
47.5°	485.2	483.1	491.3	493.3	491.3
50°	456.6	456.6	464.8	464.8	462.7
52.5°	426.0	428.1	438.3	436.2	434.2
55°	397.5	399.5	409.7	405.7	403.6
57.5°	369.0	371.0	379.2	375.1	375.1
60°	338.4	342.5	348.6	344.5	344.5
62.5°	309.8	311.9	318.0	313.9	313.9
65°	279.3	283.3	285.4	283.3	283.3
67.5°	250.7	254.8	254.8	250.7	250.7
70°	220.2	224.2	222.2	220.2	220.2
72.5°	189.6	193.7	193.7	189.6	189.6
75°	159.0	163.1	161.0	159.0	159.0
77.5°	130.5	132.5	132.5	128.4	128.4
80°	99.9	101.9	101.9	99.9	97.8
82.5°	71.3	73.4	73.4	69.3	69.3
85°	44.8	44.8	44.8	42.8	40.8
87.5°	18.3	20.4	18.3	16.3	14.3
90°	4.1	6.1	6.1	6.1	6.1
92.5°	12.2	42.8	138.6	40.8	24.5
95°	22.4	67.3	369.0	163.1	99.9
97.5°	34.7	83.6	479.0	305.8	228.3
100°	44.8	106.0	519.8	454.6	344.5
102.5°	57.1	118.2	503.5	627.8	501.5
105°	69.3	124.3	468.8	776.7	680.8
107.5°	81.5	128.4	460.7	854.1	823.5
110°	93.8	136.6	432.2	870.4	913.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	146.8	391.4	850.0	943.8
115°	118.2	154.9	366.9	797.0	929.5
117.5°	130.5	163.1	352.7	735.9	876.5
120°	140.7	173.3	348.6	684.9	827.6
122.5°	150.8	181.4	346.5	640.1	762.4
125°	161.0	187.5	346.5	609.5	717.5
127.5°	171.2	195.7	342.5	583.0	674.7
130°	183.5	205.9	338.4	554.5	640.1
132.5°	195.7	216.1	334.3	525.9	611.5
135°	207.9	224.2	330.2	499.4	583.0
137.5°	218.1	232.4	326.2	477.0	550.4
140°	228.3	242.6	320.0	450.5	517.8
142.5°	238.5	248.7	311.9	426.0	479.0
145°	246.7	256.8	311.9	405.7	448.5
147.5°	254.8	267.0	311.9	383.2	419.9
150°	267.0	273.2	311.9	360.8	395.5
152.5°	275.2	281.3	313.9	352.7	373.0
155°	281.3	289.5	316.0	344.5	358.8
157.5°	291.5	295.6	318.0	340.4	352.7
160°	297.6	301.7	320.0	336.3	342.5
162.5°	305.8	305.8	320.0	334.3	338.4
165°	311.9	309.8	320.0	330.2	332.3
167.5°	318.0	313.9	322.1	326.2	330.2
170°	320.0	318.0	324.1	328.2	326.2
172.5°	324.1	322.1	326.2	326.2	324.1
175°	328.2	324.1	326.2	324.1	326.2
177.5°	330.2	326.2	326.2	324.1	322.1
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)