

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: P234596

Luminaire Tested: **CTA-F-5050-20L830-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234596  
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-5050-20L830-UNV-4  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
2000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (336) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2096.4 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: General Diffuse

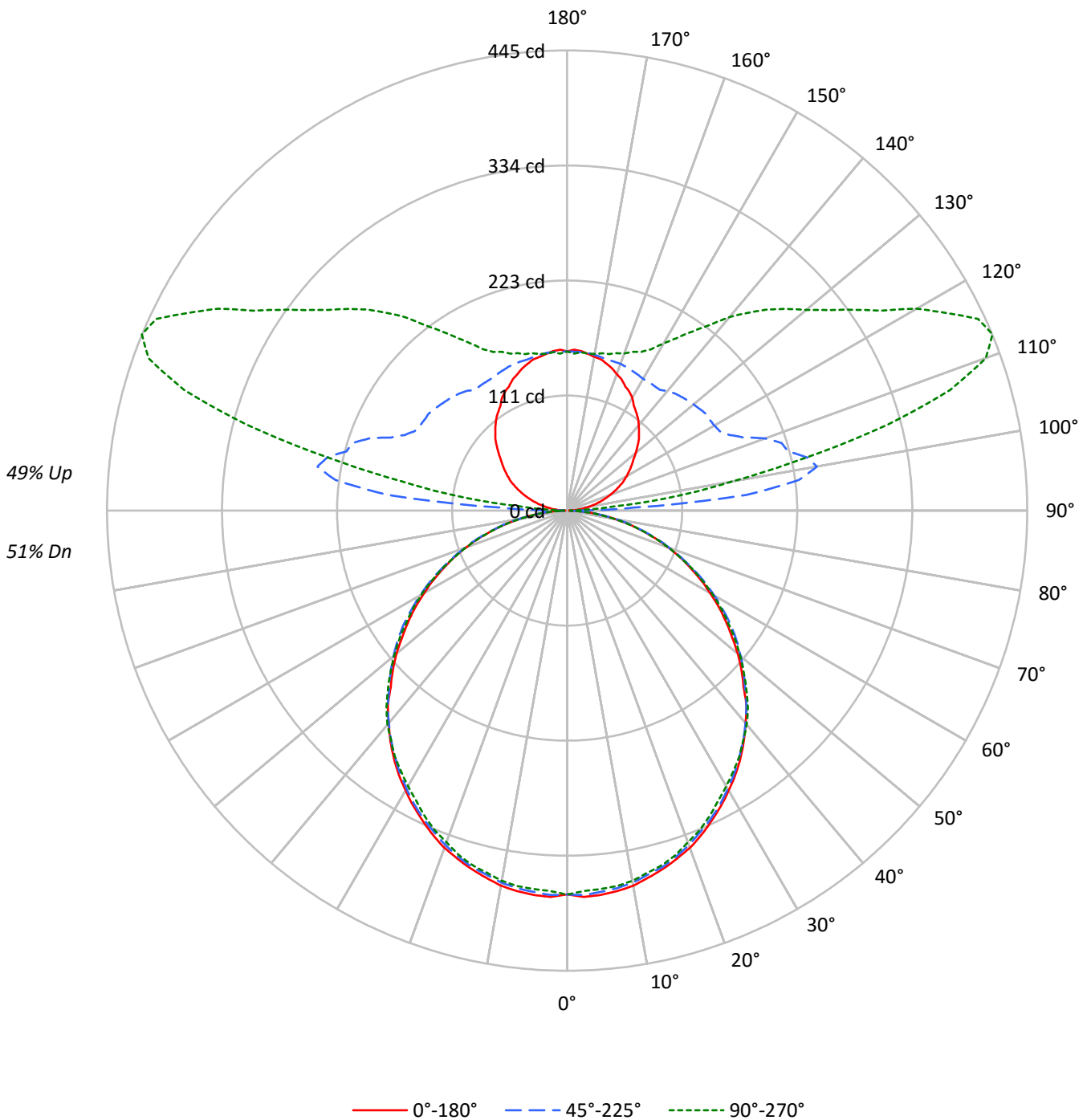
Input Watts (W): 18.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2397	2397	2397
5°	2419	2400	2381
10°	2415	2396	2384
15°	2398	2385	2372
20°	2385	2365	2346
25°	2357	2343	2323
30°	2330	2316	2294
35°	2304	2289	2289
40°	2262	2262	2278
45°	2204	2222	2239
50°	2164	2202	2193
55°	2111	2176	2144
60°	2061	2123	2099
65°	2012	2057	2043
70°	1960	1979	1960
75°	1871	1896	1871
80°	1752	1789	1718
85°	1571	1571	1423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.2	1.7
10°-20°	100.4	4.8
20°-30°	151.2	7.2
30°-40°	181.5	8.7
40°-50°	188.0	9.0
50°-60°	170.3	8.1
60°-70°	132.3	6.3
70°-80°	80.1	3.8
80°-90°	23.9	1.1
90°-100°	81.8	3.9
100°-110°	211.1	10.1
110°-120°	214.6	10.2
120°-130°	168.2	8.0
130°-140°	132.5	6.3
140°-150°	98.3	4.7
150°-160°	69.5	3.3
160°-170°	42.9	2.0
170°-180°	14.6	0.7
0°-30°	286.7	13.7
0°-40°	468.2	22.3
0°-60°	826.5	39.4
0°-90°	1062.8	50.7
90°-120°	507.6	24.2
90°-150°	906.5	43.2
90°-180°	1034.0	49.3
0°-180°	2096.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	371	371	371	371	371	
5°	373	369	370	369	367	35
15°	359	355	357	356	355	101
25°	331	328	329	327	326	153
35°	292	289	290	289	290	183
45°	241	240	243	245	245	187
55°	188	188	193	191	190	168
65°	132	134	135	134	134	131
75°	75	77	76	75	75	79
85°	21	21	21	20	19	23
90°	2	3	3	3	3	3
95°	11	32	174	77	47	11
105°	33	59	221	366	321	35
115°	56	73	173	376	438	55
125°	76	88	164	288	338	68
135°	98	106	156	236	275	75
145°	116	121	147	191	212	73
155°	133	136	149	162	169	61
165°	147	146	151	156	157	41
175°	155	153	154	153	154	15
180°	154	154	154	154	154	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	371.2	371.2	371.2	371.2	371.2
2.5°	374.0	371.2	372.1	371.2	368.3
5°	373.1	369.2	370.2	369.2	367.3
7.5°	371.2	367.3	368.3	367.3	366.3
10°	368.3	364.4	365.4	364.4	363.5
12.5°	363.5	359.6	360.6	359.6	358.7
15°	358.7	354.8	356.7	355.8	354.8
17.5°	352.9	350.0	351.0	350.0	349.0
20°	347.1	343.3	344.2	343.3	341.3
22.5°	339.4	336.5	336.5	335.6	334.6
25°	330.8	327.9	328.8	326.9	326.0
27.5°	322.1	319.2	320.2	318.3	316.3
30°	312.5	309.6	310.6	308.7	307.7
32.5°	302.9	300.0	301.0	299.0	299.0
35°	292.3	289.4	290.4	289.4	290.4
37.5°	280.8	277.9	279.8	279.8	279.8
40°	268.3	266.3	268.3	269.2	270.2
42.5°	256.7	254.8	256.7	258.7	258.7
45°	241.3	240.4	243.3	245.2	245.2
47.5°	228.8	227.9	231.7	232.7	231.7
50°	215.4	215.4	219.2	219.2	218.3
52.5°	201.0	201.9	206.7	205.8	204.8
55°	187.5	188.5	193.3	191.3	190.4
57.5°	174.0	175.0	178.8	176.9	176.9
60°	159.6	161.5	164.4	162.5	162.5
62.5°	146.2	147.1	150.0	148.1	148.1
65°	131.7	133.7	134.6	133.7	133.7
67.5°	118.3	120.2	120.2	118.3	118.3
70°	103.8	105.8	104.8	103.8	103.8
72.5°	89.4	91.3	91.3	89.4	89.4
75°	75.0	76.9	76.0	75.0	75.0
77.5°	61.5	62.5	62.5	60.6	60.6
80°	47.1	48.1	48.1	47.1	46.2
82.5°	33.7	34.6	34.6	32.7	32.7
85°	21.2	21.2	21.2	20.2	19.2
87.5°	8.7	9.6	8.7	7.7	6.7
90°	1.9	2.9	2.9	2.9	2.9
92.5°	5.8	20.2	65.4	19.2	11.5
95°	10.6	31.7	174.0	76.9	47.1
97.5°	16.3	39.4	226.0	144.2	107.7
100°	21.2	50.0	245.2	214.4	162.5
102.5°	26.9	55.8	237.5	296.2	236.5
105°	32.7	58.7	221.2	366.3	321.2
107.5°	38.5	60.6	217.3	402.9	388.5
110°	44.2	64.4	203.8	410.6	430.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	50.0	69.2	184.6	401.0	445.2
115°	55.8	73.1	173.1	376.0	438.5
117.5°	61.5	76.9	166.3	347.1	413.5
120°	66.3	81.7	164.4	323.1	390.4
122.5°	71.2	85.6	163.5	301.9	359.6
125°	76.0	88.5	163.5	287.5	338.5
127.5°	80.8	92.3	161.5	275.0	318.3
130°	86.5	97.1	159.6	261.5	301.9
132.5°	92.3	101.9	157.7	248.1	288.5
135°	98.1	105.8	155.8	235.6	275.0
137.5°	102.9	109.6	153.8	225.0	259.6
140°	107.7	114.4	151.0	212.5	244.2
142.5°	112.5	117.3	147.1	201.0	226.0
145°	116.3	121.2	147.1	191.3	211.5
147.5°	120.2	126.0	147.1	180.8	198.1
150°	126.0	128.8	147.1	170.2	186.5
152.5°	129.8	132.7	148.1	166.3	176.0
155°	132.7	136.5	149.0	162.5	169.2
157.5°	137.5	139.4	150.0	160.6	166.3
160°	140.4	142.3	151.0	158.7	161.5
162.5°	144.2	144.2	151.0	157.7	159.6
165°	147.1	146.2	151.0	155.8	156.7
167.5°	150.0	148.1	151.9	153.8	155.8
170°	151.0	150.0	152.9	154.8	153.8
172.5°	152.9	151.9	153.8	153.8	152.9
175°	154.8	152.9	153.8	152.9	153.8
177.5°	155.8	153.8	153.8	152.9	151.9
180°	153.8	153.8	153.8	153.8	153.8

(END OF REPORT)