

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: P234614

Luminaire Tested: **CTA-F-5050-40L830-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-7)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-5050-40L830-UNV-8  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
4000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (672) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7642.3 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')  
CIE Type: General Diffuse

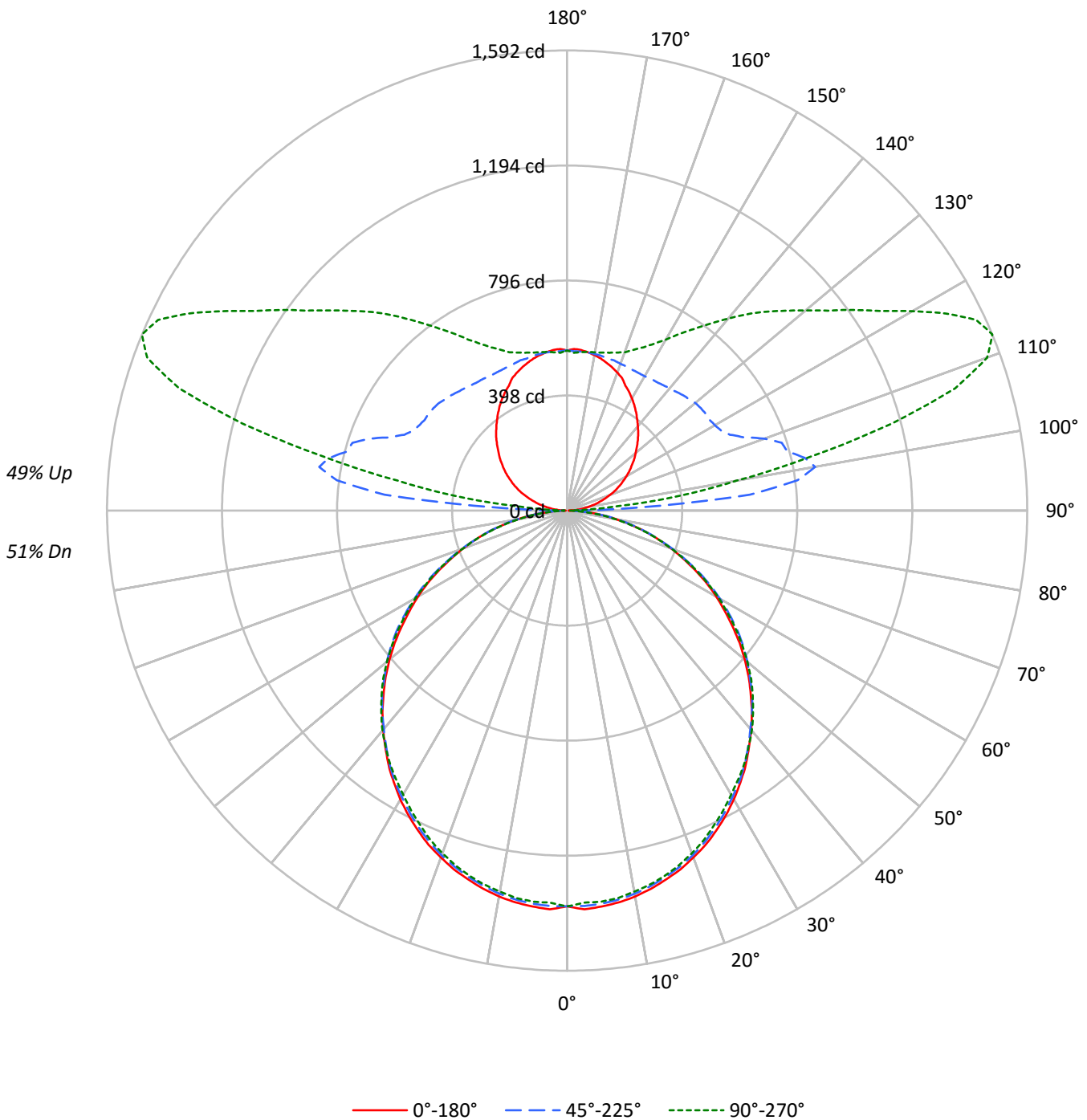
Input Watts (W): 64.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	84	84	84	70	70	70	57	57	57	51				51
1	98	93	89	86	90	86	83	80	73	71	69	61	60	58	50	49	48	43				43
2	89	81	75	70	82	75	70	65	64	60	56	54	51	48	44	42	40	35				35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	39	36	34	30				30
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	35	31	29	25				25
5	68	56	48	42	62	52	45	39	44	39	34	38	33	30	31	28	25	22				22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19				19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	26	22	19	17				17
8	53	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15				15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	13				13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12				12

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

	0°	45°	90°
0°	4421	4421	4421
5°	4457	4426	4401
10°	4445	4414	4389
15°	4417	4391	4371
20°	4388	4361	4335
25°	4351	4316	4282
30°	4302	4266	4230
35°	4245	4222	4215
40°	4175	4158	4191
45°	4101	4136	4145
50°	4028	4086	4086
55°	3930	4038	4005
60°	3850	3949	3912
65°	3732	3835	3791
70°	3613	3668	3613
75°	3478	3503	3454
80°	3219	3254	3146
85°	2849	2849	2564



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.6	1.7
10°-20°	370.2	4.8
20°-30°	557.3	7.3
30°-40°	668.9	8.8
40°-50°	695.6	9.1
50°-60°	632.9	8.3
60°-70°	490.7	6.4
70°-80°	295.9	3.9
80°-90°	88.7	1.2
90°-100°	297.4	3.9
100°-110°	758.7	9.9
110°-120°	767.1	10.0
120°-130°	600.0	7.9
130°-140°	474.3	6.2
140°-150°	356.4	4.7
150°-160°	251.6	3.3
160°-170°	154.5	2.0
170°-180°	52.6	0.7
0°-30°	1057.0	13.8
0°-40°	1725.9	22.6
0°-60°	3054.5	40.0
0°-90°	3929.8	51.4
90°-120°	1823.1	23.9
90°-150°	3253.8	42.6
90°-180°	3713.0	48.6
0°-180°	7642.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1375	1362	1365	1362	1358	131
15°	1321	1310	1314	1312	1308	373
25°	1221	1208	1212	1206	1202	563
35°	1077	1067	1071	1067	1069	673
45°	898	894	906	908	908	694
55°	698	700	717	710	712	625
65°	488	494	502	496	496	484
75°	279	285	281	279	277	293
85°	77	81	77	75	69	83
90°	6	12	12	14	10	9
95°	36	114	635	285	181	39
105°	115	206	788	1323	1162	123
115°	198	264	621	1340	1562	196
125°	273	323	585	1014	1210	245
135°	346	379	565	844	973	267
145°	415	436	542	692	767	260
155°	477	486	536	592	623	221
165°	529	529	544	560	565	149
175°	558	550	552	552	550	53
180°	554	554	554	554	554	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1380.8	1367.3	1369.2	1367.3	1357.7
5°	1375.0	1361.5	1365.4	1361.5	1357.7
7.5°	1367.3	1353.8	1357.7	1353.8	1351.9
10°	1355.8	1342.3	1346.2	1342.3	1338.5
12.5°	1340.4	1326.9	1330.8	1326.9	1325.0
15°	1321.2	1309.6	1313.5	1311.5	1307.7
17.5°	1301.9	1288.5	1292.3	1292.3	1286.5
20°	1276.9	1265.4	1269.2	1265.4	1261.5
22.5°	1251.9	1238.5	1242.3	1236.5	1234.6
25°	1221.2	1207.7	1211.5	1205.8	1201.9
27.5°	1188.5	1175.0	1178.8	1173.1	1169.2
30°	1153.8	1142.3	1144.2	1138.5	1134.6
32.5°	1115.4	1105.8	1109.6	1101.9	1101.9
35°	1076.9	1067.3	1071.2	1067.3	1069.2
37.5°	1032.7	1025.0	1028.8	1032.7	1030.8
40°	990.4	982.7	986.5	992.3	994.2
42.5°	946.2	938.5	946.2	950.0	951.9
45°	898.1	894.2	905.8	907.7	907.7
47.5°	851.9	846.2	857.7	861.5	863.5
50°	801.9	798.1	813.5	813.5	813.5
52.5°	751.9	750.0	767.3	763.5	763.5
55°	698.1	700.0	717.3	709.6	711.5
57.5°	646.2	648.1	663.5	659.6	657.7
60°	596.2	600.0	611.5	605.8	605.8
62.5°	544.2	548.1	555.8	551.9	550.0
65°	488.5	494.2	501.9	496.2	496.2
67.5°	434.6	442.3	442.3	440.4	438.5
70°	382.7	390.4	388.5	386.5	382.7
72.5°	330.8	338.5	332.7	332.7	330.8
75°	278.8	284.6	280.8	278.8	276.9
77.5°	225.0	230.8	228.8	225.0	221.2
80°	173.1	178.8	175.0	173.1	169.2
82.5°	125.0	128.8	126.9	123.1	119.2
85°	76.9	80.8	76.9	75.0	69.2
87.5°	32.7	36.5	32.7	28.8	25.0
90°	5.8	11.5	11.5	13.5	9.6
92.5°	21.2	76.9	246.2	71.2	46.2
95°	36.5	113.5	634.6	284.6	180.8
97.5°	57.7	138.5	803.8	526.9	394.2
100°	75.0	178.8	871.2	784.6	596.2
102.5°	96.2	200.0	842.3	1078.8	865.4
105°	115.4	205.8	788.5	1323.1	1161.5
107.5°	136.5	211.5	778.8	1446.2	1407.7
110°	157.7	226.9	726.9	1473.1	1546.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	178.8	244.2	661.5	1434.6	1592.3
115°	198.1	263.5	621.2	1340.4	1561.5
117.5°	217.3	280.8	600.0	1234.6	1476.9
120°	236.5	294.2	590.4	1148.1	1378.8
122.5°	255.8	309.6	584.6	1069.2	1284.6
125°	273.1	323.1	584.6	1013.5	1209.6
127.5°	292.3	336.5	582.7	965.4	1136.5
130°	309.6	350.0	578.8	925.0	1076.9
132.5°	326.9	365.4	571.2	884.6	1023.1
135°	346.2	378.8	565.4	844.2	973.1
137.5°	363.5	392.3	557.7	803.8	921.2
140°	380.8	407.7	551.9	765.4	867.3
142.5°	398.1	423.1	546.2	726.9	815.4
145°	415.4	436.5	542.3	692.3	767.3
147.5°	432.7	448.1	540.4	659.6	725.0
150°	448.1	461.5	536.5	632.7	682.7
152.5°	463.5	473.1	536.5	611.5	650.0
155°	476.9	486.5	536.5	592.3	623.1
157.5°	496.2	501.9	538.5	578.8	601.9
160°	507.7	511.5	540.4	569.2	582.7
162.5°	519.2	521.2	544.2	565.4	573.1
165°	528.8	528.8	544.2	559.6	565.4
167.5°	538.5	536.5	548.1	555.8	559.6
170°	546.2	542.3	550.0	555.8	555.8
172.5°	551.9	548.1	551.9	553.8	553.8
175°	557.7	550.0	551.9	551.9	550.0
177.5°	559.6	551.9	551.9	551.9	546.2
180°	553.8	553.8	553.8	553.8	553.8

(END OF REPORT)