

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: P234609

Luminaire Tested: **CTA-F-5050-30L830-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234609  
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-5050-30L830-UNV-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
3000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (1008) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8709.8 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.37  
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')  
CIE Type: General Diffuse

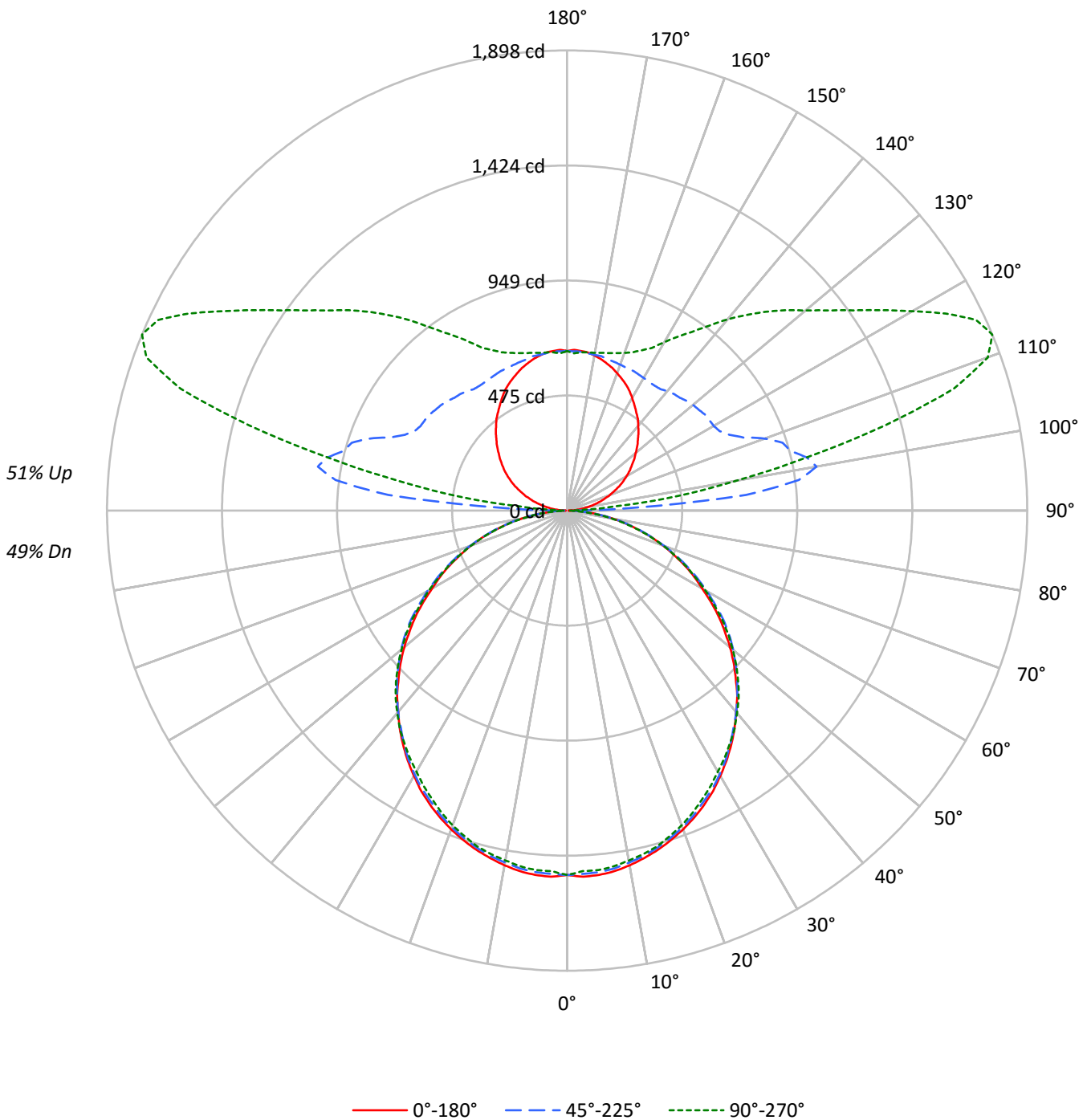
Input Watts (W): 77.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	57	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°	3235	3235	3235
5°	3260	3235	3216
10°	3247	3222	3203
15°	3227	3208	3195
20°	3205	3185	3165
25°	3179	3152	3124
30°	3141	3126	3090
35°	3100	3085	3078
40°	3048	3048	3064
45°	2995	3021	3038
50°	2937	2995	2985
55°	2869	2955	2923
60°	2770	2869	2832
65°	2718	2777	2747
70°	2651	2687	2651
75°	2519	2567	2519
80°	2360	2432	2288
85°	2067	2136	1852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.0	1.6
10°-20°	405.8	4.7
20°-30°	610.9	7.0
30°-40°	733.5	8.4
40°-50°	763.4	8.8
50°-60°	692.2	7.9
60°-70°	535.3	6.1
70°-80°	324.2	3.7
80°-90°	97.2	1.1
90°-100°	347.6	4.0
100°-110°	903.1	10.4
110°-120°	913.9	10.5
120°-130°	713.9	8.2
130°-140°	562.6	6.5
140°-150°	420.3	4.8
150°-160°	297.6	3.4
160°-170°	183.7	2.1
170°-180°	62.6	0.7
0°-30°	1158.8	13.3
0°-40°	1892.2	21.7
0°-60°	3347.9	38.4
0°-90°	4304.6	49.4
90°-120°	2164.6	24.9
90°-150°	3861.4	44.3
90°-180°	4405.0	50.6
0°-180°	8709.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1509	1494	1497	1491	1488	143
15°	1448	1436	1439	1439	1434	409
25°	1338	1324	1327	1321	1315	617
35°	1180	1168	1174	1171	1171	738
45°	984	978	992	998	998	760
55°	764	764	788	782	779	682
65°	534	539	545	542	539	528
75°	303	309	309	306	303	322
85°	84	86	86	81	75	91
90°	6	12	12	12	12	10
95°	43	136	741	326	202	45
105°	138	245	952	1572	1359	145
115°	236	309	738	1601	1861	233
125°	326	378	692	1212	1439	292
135°	412	453	658	1007	1160	319
145°	496	522	629	816	900	311
155°	574	583	638	695	730	264
165°	629	629	646	666	672	177
175°	661	655	658	658	655	63
180°	658	658	658	658	658	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1502.9	1502.9	1502.9	1502.9	1502.9
2.5°	1511.5	1500.0	1500.0	1497.1	1488.5
5°	1508.7	1494.2	1497.1	1491.3	1488.5
7.5°	1500.0	1485.6	1488.5	1482.7	1479.8
10°	1485.6	1471.2	1474.0	1471.2	1465.4
12.5°	1468.3	1456.7	1459.6	1456.7	1451.0
15°	1448.1	1436.5	1439.4	1439.4	1433.7
17.5°	1425.0	1413.5	1416.3	1416.3	1407.7
20°	1399.0	1387.5	1390.4	1387.5	1381.7
22.5°	1370.2	1358.7	1361.5	1355.8	1350.0
25°	1338.5	1324.0	1326.9	1321.2	1315.4
27.5°	1303.8	1289.4	1295.2	1286.5	1280.8
30°	1263.5	1251.9	1257.7	1246.2	1243.3
32.5°	1223.1	1211.5	1217.3	1208.7	1208.7
35°	1179.8	1168.3	1174.0	1171.2	1171.2
37.5°	1133.7	1125.0	1127.9	1130.8	1133.7
40°	1084.6	1078.8	1084.6	1087.5	1090.4
42.5°	1038.5	1029.8	1038.5	1044.2	1047.1
45°	983.7	977.9	992.3	998.1	998.1
47.5°	931.7	928.8	943.3	946.2	946.2
50°	876.9	876.9	894.2	894.2	891.3
52.5°	819.2	822.1	842.3	839.4	836.5
55°	764.4	764.4	787.5	781.7	778.8
57.5°	703.8	703.8	724.0	718.3	715.4
60°	643.3	651.9	666.3	657.7	657.7
62.5°	591.3	594.2	605.8	600.0	597.1
65°	533.7	539.4	545.2	542.3	539.4
67.5°	476.0	484.6	487.5	481.7	478.8
70°	421.2	426.9	426.9	424.0	421.2
72.5°	363.5	369.2	366.3	363.5	360.6
75°	302.9	308.7	308.7	305.8	302.9
77.5°	248.1	251.0	251.0	248.1	242.3
80°	190.4	196.2	196.2	190.4	184.6
82.5°	138.5	141.3	138.5	135.6	129.8
85°	83.7	86.5	86.5	80.8	75.0
87.5°	37.5	40.4	34.6	31.7	28.8
90°	5.8	11.5	11.5	11.5	11.5
92.5°	23.1	86.5	274.0	77.9	49.0
95°	43.3	135.6	741.3	326.0	201.9
97.5°	66.3	167.3	963.5	608.7	461.5
100°	89.4	213.5	1044.2	917.3	703.8
102.5°	112.5	236.5	1012.5	1269.2	1012.5
105°	138.5	245.2	951.9	1572.1	1358.7
107.5°	161.5	251.0	931.7	1733.7	1673.1
110°	187.5	268.3	868.3	1768.3	1846.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	210.6	288.5	787.5	1713.5	1898.1
115°	236.5	308.7	738.5	1601.0	1860.6
117.5°	259.6	326.0	709.6	1479.8	1759.6
120°	282.7	346.2	698.1	1373.1	1644.2
122.5°	305.8	363.5	695.2	1286.5	1537.5
125°	326.0	377.9	692.3	1211.5	1439.4
127.5°	349.0	395.2	683.7	1153.8	1355.8
130°	369.2	412.5	677.9	1104.8	1283.7
132.5°	392.3	432.7	669.2	1055.8	1223.1
135°	412.5	452.9	657.7	1006.7	1159.6
137.5°	435.6	470.2	651.9	954.8	1093.3
140°	455.8	487.5	643.3	905.8	1029.8
142.5°	478.8	504.8	631.7	853.8	960.6
145°	496.2	522.1	628.8	816.3	900.0
147.5°	516.3	539.4	628.8	778.8	851.0
150°	536.5	553.8	631.7	735.6	801.9
152.5°	556.7	568.3	634.6	712.5	755.8
155°	574.0	582.7	637.5	695.2	729.8
157.5°	588.5	594.2	637.5	683.7	706.7
160°	602.9	608.7	640.4	677.9	692.3
162.5°	617.3	620.2	643.3	672.1	680.8
165°	628.8	628.8	646.2	666.3	672.1
167.5°	640.4	637.5	651.9	660.6	666.3
170°	649.0	646.2	651.9	660.6	660.6
172.5°	657.7	651.9	654.8	657.7	657.7
175°	660.6	654.8	657.7	657.7	654.8
177.5°	663.5	657.7	657.7	657.7	649.0
180°	657.7	657.7	657.7	657.7	657.7

(END OF REPORT)