

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: P234633

Luminaire Tested: **CTA-F-5050-60L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-60L830-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
6000 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: 17567.6 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: General Diffuse

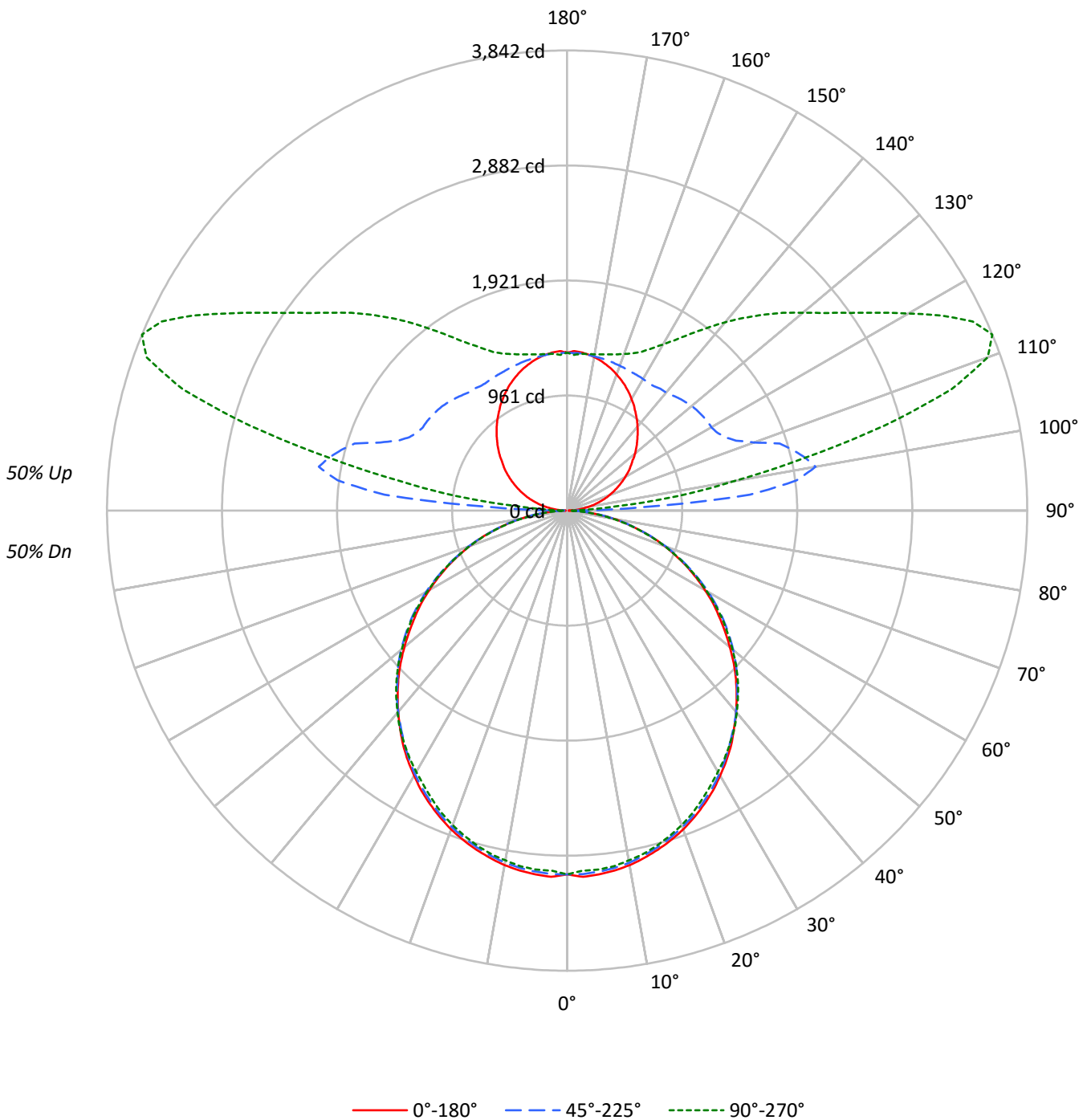
Input Watts (W): 147.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	97	93	89	85	90	86	82	79	73	70	68		60	58	57		49	48	47	41
2	89	81	75	69	81	75	69	65	63	59	56		53	50	47		43	41	39	34
3	81	71	63	57	74	66	59	54	56	51	47		46	43	40		38	35	33	29
4	74	63	55	48	68	58	51	45	49	44	39		41	37	34		34	31	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	40	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		28	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°	6539	6539	6539
5°	6588	6539	6501
10°	6570	6526	6482
15°	6531	6486	6454
20°	6489	6443	6403
25°	6427	6386	6324
30°	6353	6317	6260
35°	6277	6231	6231
40°	6169	6169	6193
45°	6068	6103	6138
50°	5941	6066	6038
55°	5824	5976	5944
60°	5725	5862	5800
65°	5598	5686	5642
70°	5447	5519	5447
75°	5182	5206	5134
80°	4899	4935	4721
85°	4347	4347	3920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.3	1.6
10°-20°	820.5	4.7
20°-30°	1235.8	7.0
30°-40°	1484.7	8.5
40°-50°	1546.4	8.8
50°-60°	1408.3	8.0
60°-70°	1097.8	6.2
70°-80°	663.8	3.8
80°-90°	200.6	1.1
90°-100°	714.0	4.1
100°-110°	1811.8	10.3
110°-120°	1820.0	10.4
120°-130°	1423.3	8.1
130°-140°	1123.0	6.4
140°-150°	840.4	4.8
150°-160°	596.5	3.4
160°-170°	368.1	2.1
170°-180°	125.4	0.7
0°-30°	2343.5	13.3
0°-40°	3828.2	21.8
0°-60°	6783.0	38.6
0°-90°	8745.2	49.8
90°-120°	4345.8	24.7
90°-150°	7732.4	44.0
90°-180°	8822.0	50.2
0°-180°	17567.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3038	3038	3038	3038	3038	
5°	3049	3020	3026	3017	3009	290
15°	2931	2902	2911	2908	2896	827
25°	2706	2680	2688	2674	2662	1247
35°	2388	2368	2371	2371	2371	1492
45°	1993	1988	2005	2022	2016	1536
55°	1552	1558	1592	1584	1584	1389
65°	1099	1111	1116	1108	1108	1087
75°	623	635	626	620	617	662
85°	176	182	176	170	159	189
90°	12	23	23	23	20	21
95°	84	280	1532	707	433	90
105°	277	459	1953	3173	2743	294
115°	467	612	1451	3188	3736	463
125°	649	762	1379	2412	2876	580
135°	828	906	1324	1993	2311	639
145°	995	1044	1266	1615	1803	624
155°	1148	1165	1275	1393	1460	529
165°	1261	1261	1298	1336	1350	356
175°	1327	1312	1318	1315	1312	126
180°	1318	1318	1318	1318	1318	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3037.5	3037.5	3037.5	3037.5	3037.5
2.5°	3060.6	3031.7	3037.5	3028.8	3008.7
5°	3049.0	3020.2	3026.0	3017.3	3008.7
7.5°	3031.7	3002.9	3008.7	3002.9	2994.2
10°	3005.8	2974.0	2985.6	2976.9	2965.4
12.5°	2971.2	2942.3	2951.0	2945.2	2936.5
15°	2930.8	2901.9	2910.6	2907.7	2896.2
17.5°	2884.6	2855.8	2864.4	2861.5	2847.1
20°	2832.7	2803.8	2812.5	2801.0	2795.2
22.5°	2772.1	2746.2	2754.8	2737.5	2734.6
25°	2705.8	2679.8	2688.5	2674.0	2662.5
27.5°	2636.5	2610.6	2616.3	2604.8	2590.4
30°	2555.8	2532.7	2541.3	2524.0	2518.3
32.5°	2475.0	2451.9	2457.7	2451.9	2449.0
35°	2388.5	2368.3	2371.2	2371.2	2371.2
37.5°	2290.4	2278.8	2281.7	2293.3	2293.3
40°	2195.2	2183.7	2195.2	2206.7	2203.8
42.5°	2094.2	2088.5	2102.9	2117.3	2111.5
45°	1993.3	1987.5	2004.8	2022.1	2016.3
47.5°	1886.5	1883.7	1912.5	1921.2	1912.5
50°	1774.0	1776.9	1811.5	1814.4	1802.9
52.5°	1661.5	1670.2	1701.9	1701.9	1690.4
55°	1551.9	1557.7	1592.3	1583.7	1583.7
57.5°	1445.2	1448.1	1479.8	1465.4	1465.4
60°	1329.8	1332.7	1361.5	1347.1	1347.1
62.5°	1214.4	1223.1	1240.4	1228.8	1228.8
65°	1099.0	1110.6	1116.3	1107.7	1107.7
67.5°	980.8	995.2	995.2	983.7	986.5
70°	865.4	879.8	876.9	865.4	865.4
72.5°	747.1	758.7	752.9	747.1	744.2
75°	623.1	634.6	626.0	620.2	617.3
77.5°	507.7	516.3	510.6	501.9	499.0
80°	395.2	401.0	398.1	386.5	380.8
82.5°	279.8	288.5	285.6	276.9	268.3
85°	176.0	181.7	176.0	170.2	158.7
87.5°	80.8	80.8	77.9	69.2	63.5
90°	11.5	23.1	23.1	23.1	20.2
92.5°	49.0	184.6	620.2	161.5	109.6
95°	83.7	279.8	1531.7	706.7	432.7
97.5°	132.7	334.6	1932.7	1246.2	937.5
100°	181.7	426.9	2105.8	1834.6	1416.3
102.5°	230.8	450.0	2036.5	2547.1	2030.8
105°	276.9	458.7	1952.9	3173.1	2743.3
107.5°	328.8	478.8	1860.6	3504.8	3363.5
110°	375.0	525.0	1658.7	3579.8	3735.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	421.2	571.2	1526.0	3435.6	3842.3
115°	467.3	611.5	1451.0	3187.5	3735.6
117.5°	513.5	649.0	1410.6	2939.4	3525.0
120°	559.6	686.5	1390.4	2723.1	3291.3
122.5°	605.8	721.2	1387.5	2552.9	3072.1
125°	649.0	761.5	1378.8	2411.5	2876.0
127.5°	689.4	793.3	1370.2	2296.2	2708.7
130°	741.3	827.9	1358.7	2198.1	2570.2
132.5°	784.6	868.3	1341.3	2097.1	2443.3
135°	827.9	905.8	1324.0	1993.3	2310.6
137.5°	871.2	943.3	1303.8	1895.2	2180.8
140°	914.4	977.9	1286.5	1794.2	2053.8
142.5°	957.7	1012.5	1280.8	1704.8	1921.2
145°	995.2	1044.2	1266.3	1615.4	1802.9
147.5°	1038.5	1076.0	1263.5	1540.4	1690.4
150°	1076.0	1107.7	1269.2	1482.7	1601.0
152.5°	1113.5	1136.5	1272.1	1427.9	1526.0
155°	1148.1	1165.4	1275.0	1393.3	1459.6
157.5°	1179.8	1191.3	1280.8	1373.1	1419.2
160°	1208.7	1217.3	1286.5	1355.8	1390.4
162.5°	1237.5	1240.4	1292.3	1344.2	1367.3
165°	1260.6	1260.6	1298.1	1335.6	1350.0
167.5°	1283.7	1277.9	1303.8	1324.0	1335.6
170°	1301.0	1292.3	1306.7	1321.2	1324.0
172.5°	1315.4	1303.8	1312.5	1318.3	1318.3
175°	1326.9	1312.5	1318.3	1315.4	1312.5
177.5°	1332.7	1315.4	1315.4	1315.4	1301.0
180°	1318.3	1318.3	1318.3	1318.3	1318.3

(END OF REPORT)