

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: P234649

Luminaire Tested: **CTA-F-7525-40L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-2)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-7525-40L830-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (1008) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11519.1 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: Semi-Indirect

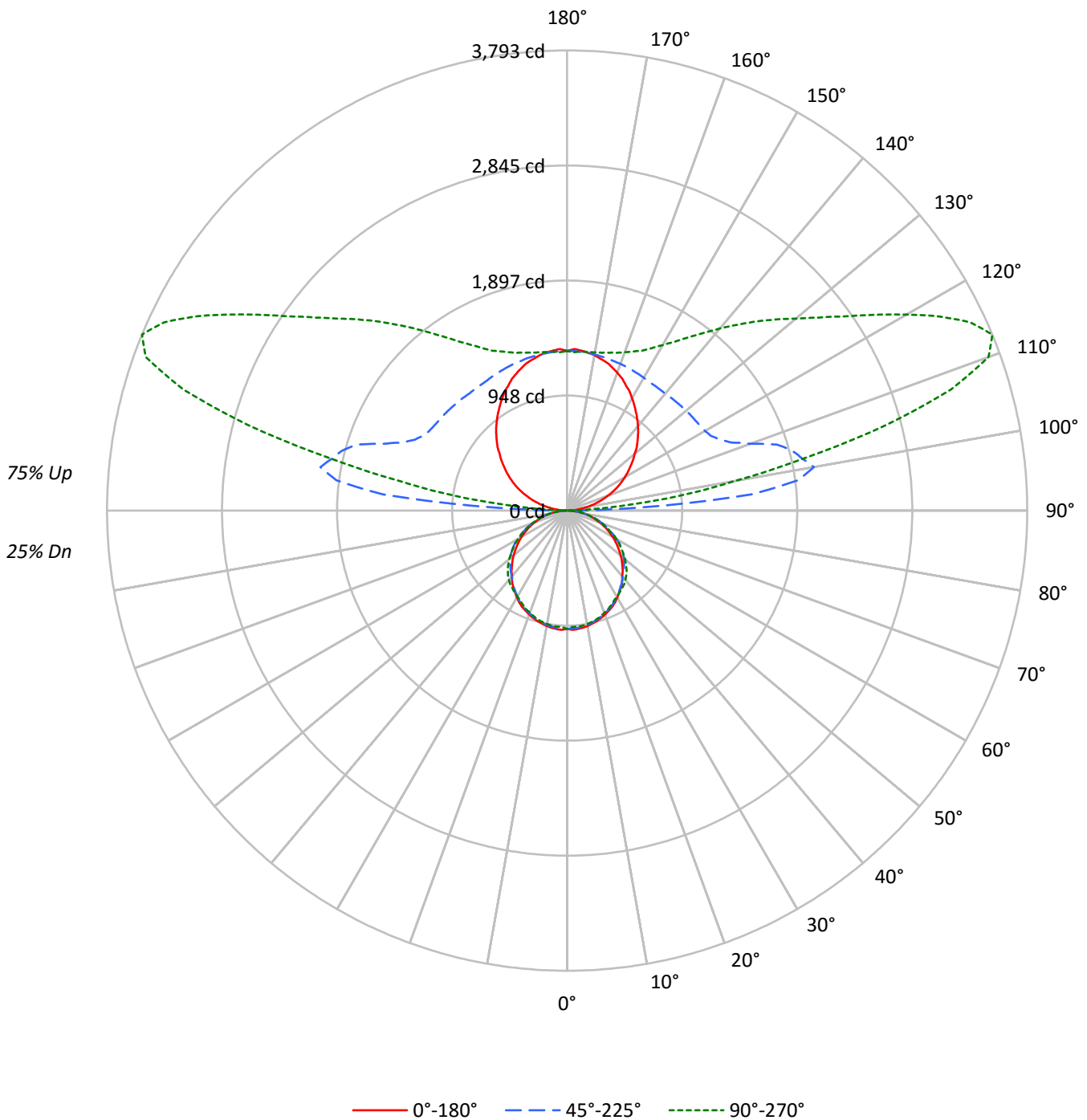
Input Watts (W): 83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	39	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	39	34	31	29	22	21	19	14
4	69	59	51	45	62	53	46	41	41	36	33	30	27	25	20	18	17	12
5	64	52	44	39	56	47	40	35	36	32	28	27	24	21	18	16	14	10
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	38	31	26	29	25	21	22	18	16	15	13	11	8
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2099	2099	2099
5°	2119	2101	2076
10°	2112	2093	2074
15°	2102	2083	2070
20°	2088	2068	2055
25°	2083	2055	2042
30°	2058	2036	2036
35°	2032	2016	2062
40°	1986	1994	2099
45°	1958	2011	2108
50°	1932	2048	2087
55°	1894	2057	2046
60°	1863	2024	2012
65°	1837	1983	1954
70°	1798	1925	1906
75°	1752	1871	1847
80°	1717	1824	1788
85°	1568	1781	1638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	0.8
10°-20°	263.4	2.3
20°-30°	398.6	3.5
30°-40°	483.5	4.2
40°-50°	512.3	4.4
50°-60°	474.8	4.1
60°-70°	375.9	3.3
70°-80°	234.9	2.0
80°-90°	79.7	0.7
90°-100°	698.7	6.1
100°-110°	1772.5	15.4
110°-120°	1769.7	15.4
120°-130°	1369.7	11.9
130°-140°	1081.8	9.4
140°-150°	824.4	7.2
150°-160°	594.4	5.2
160°-170°	367.5	3.2
170°-180°	125.2	1.1
0°-30°	754.1	6.5
0°-40°	1237.6	10.7
0°-60°	2224.7	19.3
0°-90°	2915.2	25.3
90°-120°	4240.9	36.8
90°-150°	7516.9	65.3
90°-180°	8604.0	74.7
0°-180°	11519.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	981	969	972	966	961	93
15°	943	932	935	932	929	266
25°	877	865	865	862	860	403
35°	773	767	767	779	785	483
45°	643	640	661	686	692	497
55°	505	505	548	545	545	452
65°	361	375	389	384	384	357
75°	211	225	225	222	222	223
85°	64	72	72	72	66	69
90°	6	9	9	9	6	11
95°	72	262	1523	695	447	78
105°	260	415	1918	3121	2723	274
115°	456	568	1385	3130	3669	450
125°	638	738	1292	2322	2789	571
135°	822	897	1269	1901	2204	634
145°	989	1038	1258	1572	1742	620
155°	1142	1162	1275	1388	1454	527
165°	1264	1258	1298	1333	1347	356
175°	1324	1310	1312	1312	1315	126
180°	1315	1315	1315	1315	1315	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.0	975.0	975.0	975.0	975.0
2.5°	983.7	972.1	972.1	969.2	960.6
5°	980.8	969.2	972.1	966.3	960.6
7.5°	975.0	963.5	963.5	960.6	957.7
10°	966.3	957.7	957.7	954.8	949.0
12.5°	954.8	946.2	946.2	943.3	940.4
15°	943.3	931.7	934.6	931.7	928.8
17.5°	928.8	917.3	920.2	917.3	914.4
20°	911.5	902.9	902.9	900.0	897.1
22.5°	894.2	885.6	885.6	882.7	879.8
25°	876.9	865.4	865.4	862.5	859.6
27.5°	853.8	842.3	845.2	839.4	836.5
30°	827.9	819.2	819.2	813.5	819.2
32.5°	799.0	793.3	793.3	796.2	801.9
35°	773.1	767.3	767.3	778.8	784.6
37.5°	744.2	735.6	741.3	758.7	770.2
40°	706.7	701.0	709.6	738.5	747.1
42.5°	677.9	672.1	686.5	715.4	721.2
45°	643.3	640.4	660.6	686.5	692.3
47.5°	611.5	608.7	637.5	657.7	657.7
50°	576.9	574.0	611.5	623.1	623.1
52.5°	539.4	539.4	582.7	585.6	582.7
55°	504.8	504.8	548.1	545.2	545.2
57.5°	470.2	473.1	513.5	504.8	507.7
60°	432.7	441.3	470.2	464.4	467.3
62.5°	398.1	409.6	429.8	424.0	424.0
65°	360.6	375.0	389.4	383.7	383.7
67.5°	323.1	340.4	346.2	343.3	343.3
70°	285.6	305.8	305.8	302.9	302.9
72.5°	248.1	265.4	265.4	262.5	262.5
75°	210.6	225.0	225.0	222.1	222.1
77.5°	176.0	184.6	184.6	184.6	181.7
80°	138.5	144.2	147.1	144.2	144.2
82.5°	103.8	106.7	109.6	109.6	103.8
85°	63.5	72.1	72.1	72.1	66.3
87.5°	34.6	40.4	40.4	40.4	34.6
90°	5.8	8.7	8.7	8.7	5.8
92.5°	34.6	170.2	602.9	161.5	98.1
95°	72.1	262.5	1523.1	695.2	447.1
97.5°	115.4	311.5	1918.3	1226.0	937.5
100°	161.5	395.2	2065.4	1823.1	1401.9
102.5°	210.6	412.5	1984.6	2521.2	2016.3
105°	259.6	415.4	1918.3	3121.2	2723.1
107.5°	308.7	429.8	1811.5	3458.7	3317.3
110°	357.7	473.1	1609.6	3536.5	3695.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	406.7	522.1	1465.4	3380.8	3793.3
115°	455.8	568.3	1384.6	3129.8	3669.2
117.5°	501.9	611.5	1335.6	2873.1	3464.4
120°	548.1	654.8	1312.5	2653.8	3230.8
122.5°	594.2	695.2	1301.0	2472.1	3002.9
125°	637.5	738.5	1292.3	2322.1	2789.4
127.5°	683.7	778.8	1286.5	2203.8	2613.5
130°	726.9	819.2	1280.8	2094.2	2460.6
132.5°	778.8	859.6	1275.0	1996.2	2330.8
135°	822.1	897.1	1269.2	1901.0	2203.8
137.5°	865.4	934.6	1263.5	1808.7	2076.9
140°	908.7	969.2	1257.7	1719.2	1958.7
142.5°	949.0	1003.8	1257.7	1641.3	1843.3
145°	989.4	1038.5	1257.7	1572.1	1742.3
147.5°	1029.8	1073.1	1257.7	1511.5	1650.0
150°	1070.2	1101.9	1263.5	1462.5	1575.0
152.5°	1110.6	1133.7	1269.2	1419.2	1508.7
155°	1142.3	1162.5	1275.0	1387.5	1453.8
157.5°	1179.8	1191.3	1280.8	1367.3	1419.2
160°	1208.7	1217.3	1286.5	1352.9	1387.5
162.5°	1237.5	1237.5	1289.4	1341.3	1364.4
165°	1263.5	1257.7	1298.1	1332.7	1347.1
167.5°	1280.8	1275.0	1301.0	1321.2	1332.7
170°	1301.0	1292.3	1306.7	1318.3	1324.0
172.5°	1312.5	1301.0	1309.6	1315.4	1318.3
175°	1324.0	1309.6	1312.5	1312.5	1315.4
177.5°	1332.7	1315.4	1315.4	1315.4	1306.7
180°	1315.4	1315.4	1315.4	1315.4	1315.4

(END OF REPORT)