

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: P234630

Luminaire Tested: **CTA-F-5050-60L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234630
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-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
6000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (672) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

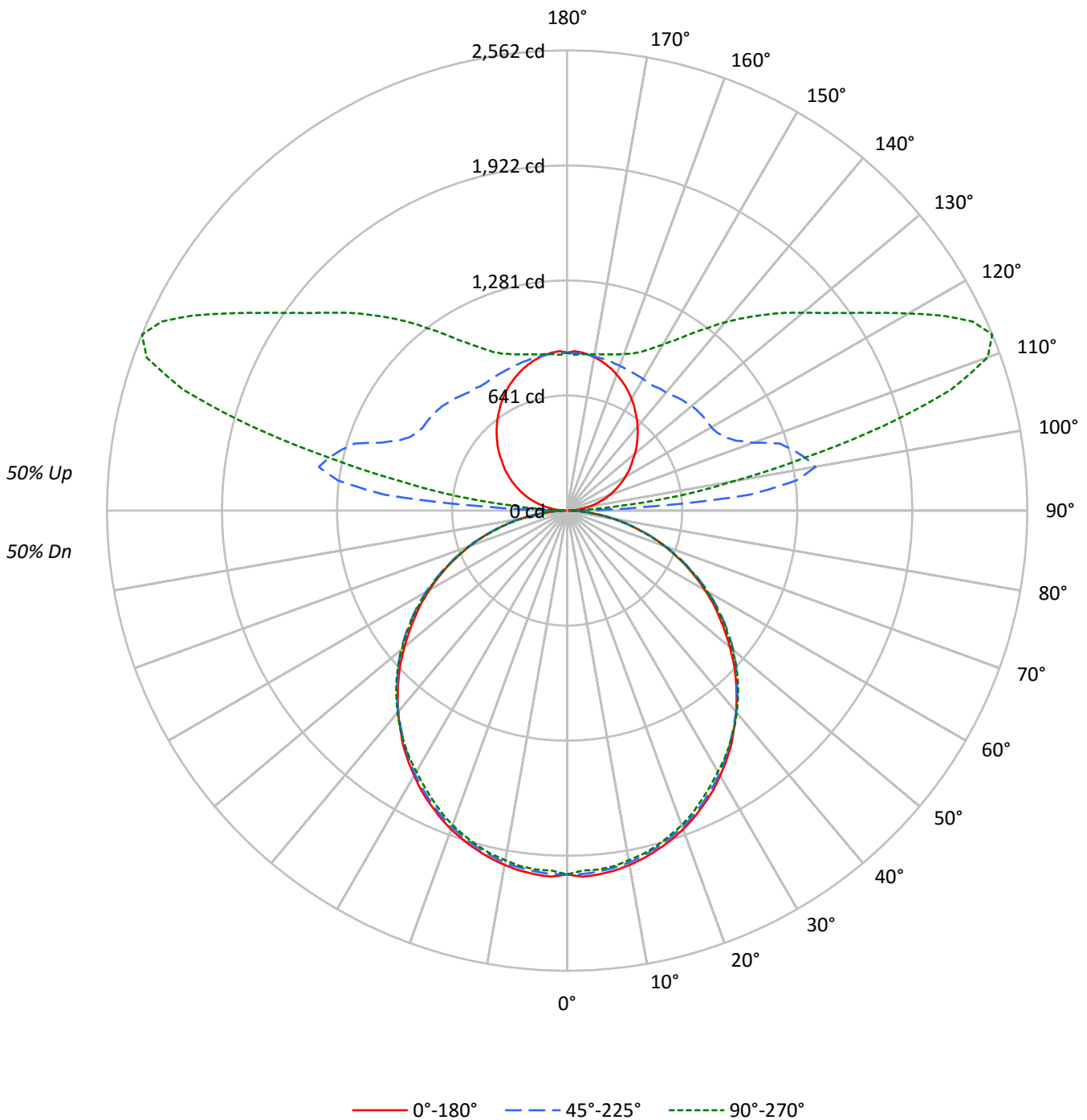
Lumens per Lamp: N/A
Luminaire Lumens: 11711.7 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 98.6
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°	6426	6385	6324
30°	6353	6317	6259
35°	6276	6231	6231
40°	6169	6169	6193
45°	6068	6103	6138
50°	5941	6067	6038
55°	5824	5976	5944
60°	5725	5862	5800
65°	5598	5686	5642
70°	5446	5519	5446
75°	5182	5206	5134
80°	4900	4935	4719
85°	4346	4346	3920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	1.6
10°-20°	547.0	4.7
20°-30°	823.9	7.0
30°-40°	989.8	8.5
40°-50°	1030.9	8.8
50°-60°	938.9	8.0
60°-70°	731.8	6.2
70°-80°	442.6	3.8
80°-90°	133.7	1.1
90°-100°	476.0	4.1
100°-110°	1207.8	10.3
110°-120°	1213.3	10.4
120°-130°	948.8	8.1
130°-140°	748.6	6.4
140°-150°	560.3	4.8
150°-160°	397.7	3.4
160°-170°	245.4	2.1
170°-180°	83.6	0.7
0°-30°	1562.3	13.3
0°-40°	2552.1	21.8
0°-60°	4522.0	38.6
0°-90°	5830.1	49.8
90°-120°	2897.2	24.7
90°-150°	5154.9	44.0
90°-180°	5882.0	50.2
0°-180°	11711.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2025	2025	2025	2025	2025	
5°	2033	2014	2017	2012	2006	193
15°	1954	1935	1940	1938	1931	551
25°	1804	1786	1792	1783	1775	831
35°	1592	1579	1581	1581	1581	995
45°	1329	1325	1336	1348	1344	1024
55°	1035	1038	1062	1056	1056	926
65°	733	740	744	738	738	725
75°	415	423	417	414	412	441
85°	117	121	117	114	106	126
90°	8	15	15	15	14	14
95°	56	186	1021	471	288	60
105°	185	306	1302	2115	1829	196
115°	312	408	967	2125	2490	308
125°	433	508	919	1608	1917	387
135°	552	604	883	1329	1540	426
145°	664	696	844	1077	1202	416
155°	765	777	850	929	973	352
165°	840	840	865	890	900	237
175°	885	875	879	877	875	84
180°	879	879	879	879	879	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2025.0	2025.0	2025.0	2025.0	2025.0
2.5°	2040.4	2021.2	2025.0	2019.2	2005.8
5°	2032.7	2013.5	2017.3	2011.5	2005.8
7.5°	2021.2	2001.9	2005.8	2001.9	1996.2
10°	2003.8	1982.7	1990.4	1984.6	1976.9
12.5°	1980.8	1961.5	1967.3	1963.5	1957.7
15°	1953.8	1934.6	1940.4	1938.5	1930.8
17.5°	1923.1	1903.8	1909.6	1907.7	1898.1
20°	1888.5	1869.2	1875.0	1867.3	1863.5
22.5°	1848.1	1830.8	1836.5	1825.0	1823.1
25°	1803.8	1786.5	1792.3	1782.7	1775.0
27.5°	1757.7	1740.4	1744.2	1736.5	1726.9
30°	1703.8	1688.5	1694.2	1682.7	1678.8
32.5°	1650.0	1634.6	1638.5	1634.6	1632.7
35°	1592.3	1578.8	1580.8	1580.8	1580.8
37.5°	1526.9	1519.2	1521.2	1528.8	1528.8
40°	1463.5	1455.8	1463.5	1471.2	1469.2
42.5°	1396.2	1392.3	1401.9	1411.5	1407.7
45°	1328.8	1325.0	1336.5	1348.1	1344.2
47.5°	1257.7	1255.8	1275.0	1280.8	1275.0
50°	1182.7	1184.6	1207.7	1209.6	1201.9
52.5°	1107.7	1113.5	1134.6	1134.6	1126.9
55°	1034.6	1038.5	1061.5	1055.8	1055.8
57.5°	963.5	965.4	986.5	976.9	976.9
60°	886.5	888.5	907.7	898.1	898.1
62.5°	809.6	815.4	826.9	819.2	819.2
65°	732.7	740.4	744.2	738.5	738.5
67.5°	653.8	663.5	663.5	655.8	657.7
70°	576.9	586.5	584.6	576.9	576.9
72.5°	498.1	505.8	501.9	498.1	496.2
75°	415.4	423.1	417.3	413.5	411.5
77.5°	338.5	344.2	340.4	334.6	332.7
80°	263.5	267.3	265.4	257.7	253.8
82.5°	186.5	192.3	190.4	184.6	178.8
85°	117.3	121.2	117.3	113.5	105.8
87.5°	53.8	53.8	51.9	46.2	42.3
90°	7.7	15.4	15.4	15.4	13.5
92.5°	32.7	123.1	413.5	107.7	73.1
95°	55.8	186.5	1021.2	471.2	288.5
97.5°	88.5	223.1	1288.5	830.8	625.0
100°	121.2	284.6	1403.8	1223.1	944.2
102.5°	153.8	300.0	1357.7	1698.1	1353.8
105°	184.6	305.8	1301.9	2115.4	1828.8
107.5°	219.2	319.2	1240.4	2336.5	2242.3
110°	250.0	350.0	1105.8	2386.5	2490.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	280.8	380.8	1017.3	2290.4	2561.5
115°	311.5	407.7	967.3	2125.0	2490.4
117.5°	342.3	432.7	940.4	1959.6	2350.0
120°	373.1	457.7	926.9	1815.4	2194.2
122.5°	403.8	480.8	925.0	1701.9	2048.1
125°	432.7	507.7	919.2	1607.7	1917.3
127.5°	459.6	528.8	913.5	1530.8	1805.8
130°	494.2	551.9	905.8	1465.4	1713.5
132.5°	523.1	578.8	894.2	1398.1	1628.8
135°	551.9	603.8	882.7	1328.8	1540.4
137.5°	580.8	628.8	869.2	1263.5	1453.8
140°	609.6	651.9	857.7	1196.2	1369.2
142.5°	638.5	675.0	853.8	1136.5	1280.8
145°	663.5	696.2	844.2	1076.9	1201.9
147.5°	692.3	717.3	842.3	1026.9	1126.9
150°	717.3	738.5	846.2	988.5	1067.3
152.5°	742.3	757.7	848.1	951.9	1017.3
155°	765.4	776.9	850.0	928.8	973.1
157.5°	786.5	794.2	853.8	915.4	946.2
160°	805.8	811.5	857.7	903.8	926.9
162.5°	825.0	826.9	861.5	896.2	911.5
165°	840.4	840.4	865.4	890.4	900.0
167.5°	855.8	851.9	869.2	882.7	890.4
170°	867.3	861.5	871.2	880.8	882.7
172.5°	876.9	869.2	875.0	878.8	878.8
175°	884.6	875.0	878.8	876.9	875.0
177.5°	888.5	876.9	876.9	876.9	867.3
180°	878.8	878.8	878.8	878.8	878.8

(END OF REPORT)