

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: P234619

Luminaire Tested: **CTA-F-5050-40L840-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234619  
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-5050-40L840-UNV-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
4000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (1008) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

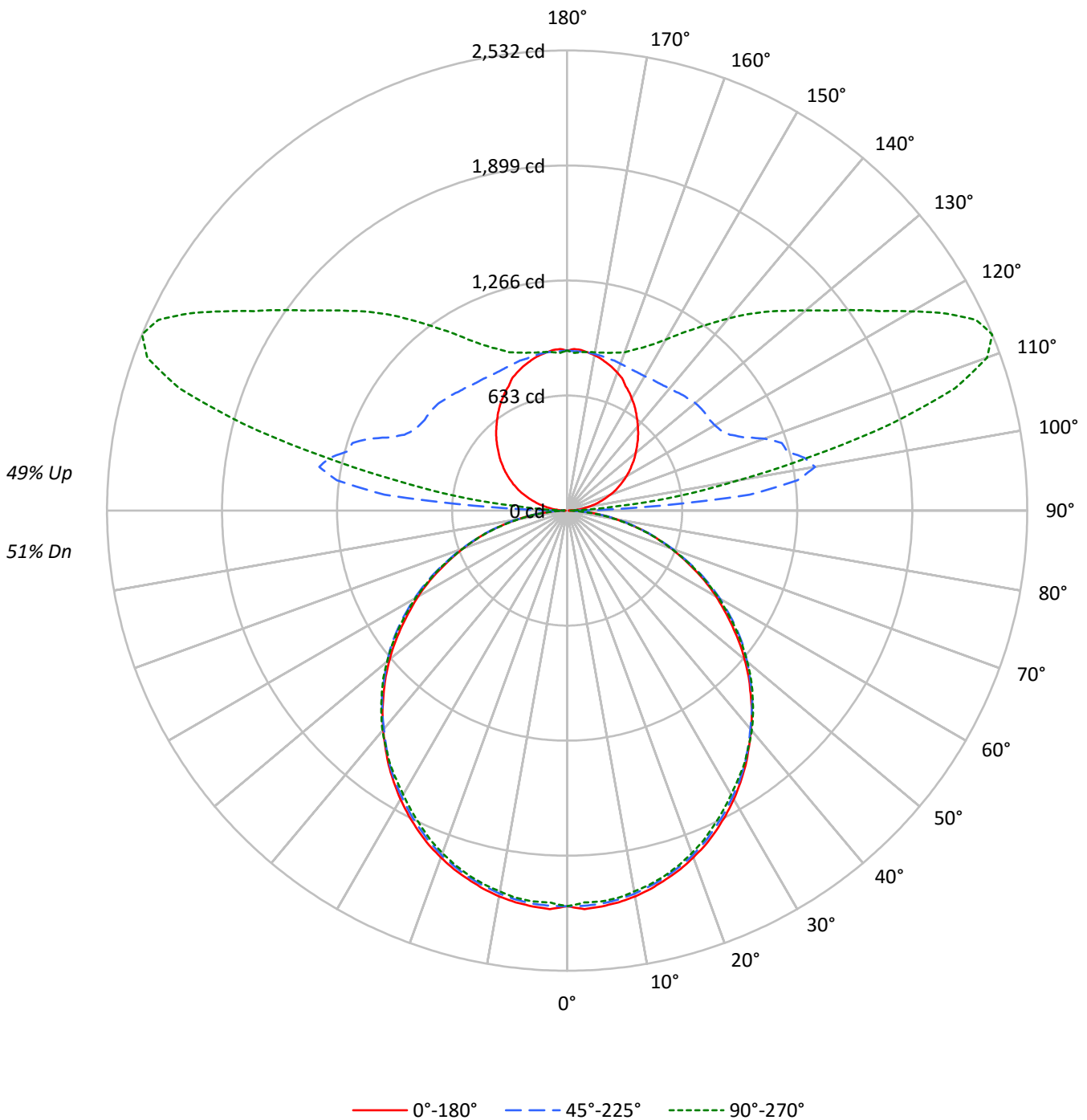
Lumens per Lamp: N/A  
Luminaire Lumens: 12151.3 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 92.8  
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	84	84	84		70	70	70		57	57	57	51
1	98	93	89	86	90	86	83	80	73	71	69		61	60	58		50	49	48	43
2	89	81	75	70	82	75	70	65	64	60	56		54	51	48		44	42	40	35
3	81	71	64	58	74	66	59	54	56	51	47		47	43	40		39	36	34	30
4	74	63	55	49	68	58	51	46	50	44	40		42	38	34		35	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34		38	33	30		31	28	25	22
6	62	50	42	36	57	47	39	34	40	34	30		34	29	26		28	25	22	19
7	58	45	37	31	53	42	35	30	36	30	26		31	26	23		26	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23		28	24	20		23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21		26	21	18		22	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19		24	19	16		20	17	14	12

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

	0°	45°	90°
0°	4686	4686	4686
5°	4724	4691	4665
10°	4712	4679	4652
15°	4681	4654	4634
20°	4651	4623	4595
25°	4612	4575	4539
30°	4560	4522	4484
35°	4500	4475	4468
40°	4425	4408	4442
45°	4347	4384	4393
50°	4270	4331	4331
55°	4165	4280	4246
60°	4081	4186	4147
65°	3956	4065	4018
70°	3830	3888	3830
75°	3688	3713	3662
80°	3411	3449	3336
85°	3021	3021	2719



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.0	1.7
10°-20°	588.6	4.8
20°-30°	886.1	7.3
30°-40°	1063.6	8.8
40°-50°	1106.0	9.1
50°-60°	1006.3	8.3
60°-70°	780.3	6.4
70°-80°	470.5	3.9
80°-90°	141.1	1.2
90°-100°	472.8	3.9
100°-110°	1206.3	9.9
110°-120°	1219.7	10.0
120°-130°	953.9	7.9
130°-140°	754.2	6.2
140°-150°	566.6	4.7
150°-160°	400.0	3.3
160°-170°	245.7	2.0
170°-180°	83.7	0.7
0°-30°	1680.7	13.8
0°-40°	2744.2	22.6
0°-60°	4856.6	40.0
0°-90°	6248.4	51.4
90°-120°	2898.8	23.9
90°-150°	5173.5	42.6
90°-180°	5903.0	48.6
0°-180°	12151.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2177	2177	2177	2177	2177	
5°	2186	2165	2171	2165	2159	208
15°	2101	2082	2088	2085	2079	593
25°	1942	1920	1926	1917	1911	895
35°	1712	1697	1703	1697	1700	1070
45°	1428	1422	1440	1443	1443	1103
55°	1110	1113	1140	1128	1131	994
65°	777	786	798	789	789	770
75°	443	452	446	443	440	467
85°	122	128	122	119	110	132
90°	9	18	18	21	15	14
95°	58	180	1009	452	287	62
105°	184	327	1254	2104	1847	195
115°	315	419	988	2131	2483	311
125°	434	514	930	1611	1923	389
135°	550	602	899	1342	1547	424
145°	660	694	862	1101	1220	413
155°	758	774	853	942	991	351
165°	841	841	865	890	899	237
175°	887	874	878	878	874	84
180°	881	881	881	881	881	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2177.1	2177.1	2177.1	2177.1	2177.1
2.5°	2195.4	2174.0	2177.1	2174.0	2158.7
5°	2186.2	2164.8	2171.0	2164.8	2158.7
7.5°	2174.0	2152.6	2158.7	2152.6	2149.6
10°	2155.7	2134.3	2140.4	2134.3	2128.2
12.5°	2131.2	2109.8	2115.9	2109.8	2106.7
15°	2100.6	2082.3	2088.4	2085.3	2079.2
17.5°	2070.1	2048.7	2054.8	2054.8	2045.6
20°	2030.3	2012.0	2018.1	2012.0	2005.8
22.5°	1990.6	1969.2	1975.3	1966.1	1963.0
25°	1941.6	1920.2	1926.3	1917.2	1911.1
27.5°	1889.7	1868.2	1874.4	1865.2	1859.1
30°	1834.6	1816.3	1819.3	1810.2	1804.0
32.5°	1773.5	1758.2	1764.3	1752.1	1752.1
35°	1712.3	1697.0	1703.1	1697.0	1700.1
37.5°	1642.0	1629.7	1635.9	1642.0	1638.9
40°	1574.7	1562.5	1568.6	1577.8	1580.8
42.5°	1504.4	1492.2	1504.4	1510.5	1513.6
45°	1427.9	1421.8	1440.2	1443.2	1443.2
47.5°	1354.6	1345.4	1363.7	1369.8	1372.9
50°	1275.1	1268.9	1293.4	1293.4	1293.4
52.5°	1195.6	1192.5	1220.0	1213.9	1213.9
55°	1109.9	1113.0	1140.5	1128.3	1131.3
57.5°	1027.4	1030.4	1054.9	1048.8	1045.7
60°	947.9	954.0	972.3	963.2	963.2
62.5°	865.3	871.4	883.7	877.6	874.5
65°	776.7	785.8	798.1	788.9	788.9
67.5°	691.0	703.3	703.3	700.2	697.2
70°	608.5	620.7	617.7	614.6	608.5
72.5°	525.9	538.2	529.0	529.0	525.9
75°	443.4	452.5	446.4	443.4	440.3
77.5°	357.7	366.9	363.9	357.7	351.6
80°	275.2	284.4	278.2	275.2	269.1
82.5°	198.7	204.9	201.8	195.7	189.6
85°	122.3	128.4	122.3	119.2	110.1
87.5°	52.0	58.1	52.0	45.9	39.7
90°	9.2	18.3	18.3	21.4	15.3
92.5°	33.6	122.3	391.4	113.1	73.4
95°	58.1	180.4	1009.0	452.5	287.4
97.5°	91.7	220.2	1278.1	837.8	626.8
100°	119.2	284.4	1385.1	1247.5	947.9
102.5°	152.9	318.0	1339.3	1715.4	1376.0
105°	183.5	327.2	1253.7	2103.7	1846.8
107.5°	217.1	336.3	1238.4	2299.4	2238.2
110°	250.7	360.8	1155.8	2342.2	2458.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	284.4	388.3	1051.8	2281.0	2531.8
115°	314.9	418.9	987.6	2131.2	2482.8
117.5°	345.5	446.4	954.0	1963.0	2348.3
120°	376.1	467.8	938.7	1825.4	2192.4
122.5°	406.7	492.3	929.5	1700.1	2042.5
125°	434.2	513.7	929.5	1611.4	1923.3
127.5°	464.8	535.1	926.5	1535.0	1807.1
130°	492.3	556.5	920.4	1470.7	1712.3
132.5°	519.8	581.0	908.1	1406.5	1626.7
135°	550.4	602.4	899.0	1342.3	1547.2
137.5°	577.9	623.8	886.7	1278.1	1464.6
140°	605.4	648.2	877.6	1217.0	1379.0
142.5°	632.9	672.7	868.4	1155.8	1296.5
145°	660.5	694.1	862.3	1100.8	1220.0
147.5°	688.0	712.4	859.2	1048.8	1152.7
150°	712.4	733.8	853.1	1006.0	1085.5
152.5°	736.9	752.2	853.1	972.3	1033.5
155°	758.3	773.6	853.1	941.8	990.7
157.5°	788.9	798.1	856.2	920.4	957.1
160°	807.2	813.3	859.2	905.1	926.5
162.5°	825.6	828.6	865.3	899.0	911.2
165°	840.9	840.9	865.3	889.8	899.0
167.5°	856.2	853.1	871.4	883.7	889.8
170°	868.4	862.3	874.5	883.7	883.7
172.5°	877.6	871.4	877.6	880.6	880.6
175°	886.7	874.5	877.6	877.6	874.5
177.5°	889.8	877.6	877.6	877.6	868.4
180°	880.6	880.6	880.6	880.6	880.6

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