

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: P234659

Luminaire Tested: **CTA-F-7525-50L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-3D)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-7525-50L840-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (1008) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15473.6 lumens
Efficiency: N/A
Efficacy: 148.2 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

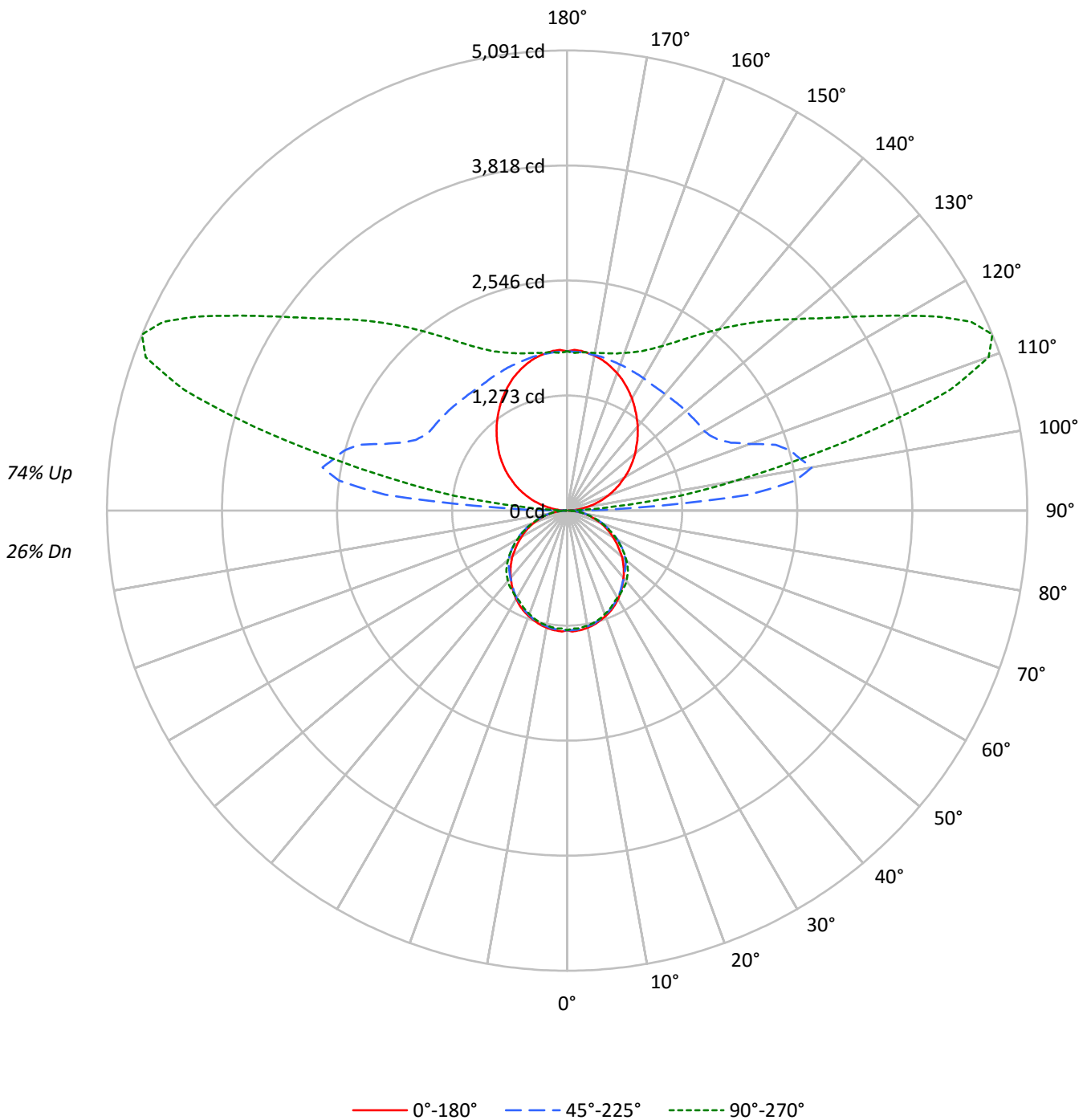
Input Watts (W): 104.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	34	34	34	26
1	92	88	84	81	82	78	75	72	61	59	57	44	43	42	29	29	28	21
2	84	76	70	65	74	68	63	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	54	68	60	54	49	46	42	39	34	31	29	23	21	20	15
4	70	59	51	46	62	53	46	41	41	37	33	30	27	25	20	18	17	12
5	64	52	45	39	56	47	40	35	37	32	28	27	24	21	18	16	14	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	7
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°	2850	2850	2850
5°	2881	2854	2828
10°	2874	2840	2820
15°	2862	2835	2814
20°	2844	2816	2795
25°	2832	2796	2774
30°	2805	2774	2766
35°	2764	2748	2804
40°	2724	2741	2870
45°	2690	2764	2895
50°	2652	2816	2867
55°	2570	2811	2788
60°	2528	2764	2725
65°	2476	2694	2663
70°	2425	2617	2579
75°	2365	2543	2493
80°	2350	2463	2388
85°	2191	2416	2265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	0.8
10°-20°	358.6	2.3
20°-30°	542.0	3.5
30°-40°	658.6	4.3
40°-50°	702.9	4.5
50°-60°	648.3	4.2
60°-70°	511.6	3.3
70°-80°	319.4	2.1
80°-90°	107.9	0.7
90°-100°	924.9	6.0
100°-110°	2369.7	15.3
110°-120°	2368.7	15.3
120°-130°	1832.7	11.8
130°-140°	1446.4	9.3
140°-150°	1102.8	7.1
150°-160°	794.9	5.1
160°-170°	491.5	3.2
170°-180°	167.4	1.1
0°-30°	1025.9	6.6
0°-40°	1684.6	10.9
0°-60°	3035.8	19.6
0°-90°	3974.6	25.7
90°-120°	5663.2	36.6
90°-150°	10045.2	64.9
90°-180°	11499.0	74.3
0°-180°	15473.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1333	1321	1321	1315	1309	127
15°	1284	1269	1272	1269	1263	362
25°	1192	1177	1177	1171	1168	549
35°	1052	1040	1046	1058	1067	658
45°	884	881	908	939	951	682
55°	685	688	749	743	743	614
65°	486	511	529	523	523	482
75°	284	306	306	306	300	302
85°	89	98	98	101	92	96
90°	9	9	9	9	6	16
95°	98	342	2021	923	547	105
105°	349	556	2556	4192	3590	367
115°	608	764	1850	4177	4935	601
125°	859	991	1734	3104	3727	768
135°	1098	1199	1697	2538	2948	847
145°	1324	1388	1679	2101	2330	829
155°	1532	1556	1703	1859	1945	705
165°	1688	1685	1734	1780	1801	476
175°	1774	1752	1758	1758	1758	168
180°	1761	1761	1761	1761	1761	



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CATALOG NUMBER: CTA-F-7525-50L840-UNV-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.0	1324.0	1324.0	1324.0	1324.0
2.5°	1339.3	1324.0	1324.0	1320.9	1305.6
5°	1333.2	1320.9	1320.9	1314.8	1308.7
7.5°	1327.0	1314.8	1314.8	1308.7	1302.6
10°	1314.8	1299.5	1299.5	1296.5	1290.3
12.5°	1302.6	1287.3	1290.3	1284.2	1281.2
15°	1284.2	1268.9	1272.0	1268.9	1262.8
17.5°	1262.8	1250.6	1253.7	1250.6	1244.5
20°	1241.4	1226.1	1229.2	1226.1	1220.0
22.5°	1220.0	1204.7	1204.7	1198.6	1195.6
25°	1192.5	1177.2	1177.2	1171.1	1168.0
27.5°	1161.9	1146.6	1146.6	1140.5	1134.4
30°	1128.3	1113.0	1116.1	1106.9	1113.0
32.5°	1091.6	1079.4	1082.4	1085.5	1094.7
35°	1051.8	1039.6	1045.7	1058.0	1067.1
37.5°	1012.1	1002.9	1006.0	1033.5	1048.8
40°	969.3	963.2	975.4	1009.0	1021.3
42.5°	929.5	923.4	941.8	978.5	984.6
45°	883.7	880.6	908.1	938.7	950.9
47.5°	837.8	834.7	877.6	902.0	905.1
50°	791.9	788.9	840.9	853.1	856.2
52.5°	733.8	736.9	798.1	804.2	804.2
55°	684.9	688.0	749.1	743.0	743.0
57.5°	636.0	645.2	697.2	688.0	691.0
60°	587.1	599.3	642.1	636.0	632.9
62.5°	538.2	556.5	587.1	577.9	577.9
65°	486.2	510.6	529.0	522.9	522.9
67.5°	437.2	464.8	473.9	467.8	464.8
70°	385.3	415.8	415.8	412.8	409.7
72.5°	336.3	360.8	360.8	357.7	354.7
75°	284.4	305.8	305.8	305.8	299.7
77.5°	235.4	250.7	253.8	250.7	244.6
80°	189.6	198.7	198.7	195.7	192.6
82.5°	143.7	146.8	146.8	146.8	140.7
85°	88.7	97.8	97.8	100.9	91.7
87.5°	48.9	52.0	55.0	52.0	45.9
90°	9.2	9.2	9.2	9.2	6.1
92.5°	48.9	223.2	785.8	180.4	122.3
95°	97.8	342.5	2021.1	923.4	547.3
97.5°	155.9	409.7	2547.1	1657.3	1250.6
100°	217.1	525.9	2748.9	2437.0	1871.3
102.5°	281.3	553.4	2641.8	3397.1	2654.1
105°	348.6	556.5	2556.2	4192.1	3589.7
107.5°	415.8	577.9	2418.6	4635.5	4442.8
110°	477.0	636.0	2152.6	4730.2	4962.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	544.3	700.2	1963.0	4513.2	5091.1
115°	608.5	764.4	1849.9	4176.8	4935.1
117.5°	669.6	825.6	1788.7	3840.5	4641.6
120°	733.8	883.7	1755.1	3543.9	4311.3
122.5°	798.1	938.7	1742.9	3299.2	4002.5
125°	859.2	990.7	1733.7	3103.6	3727.3
127.5°	920.4	1042.7	1721.5	2944.6	3491.9
130°	981.5	1094.7	1715.4	2807.0	3296.2
132.5°	1036.6	1146.6	1706.2	2669.4	3118.8
135°	1097.7	1198.6	1697.0	2537.9	2947.6
137.5°	1155.8	1247.5	1687.8	2415.6	2779.4
140°	1213.9	1296.5	1684.8	2302.4	2620.4
142.5°	1268.9	1345.4	1681.7	2198.5	2467.6
145°	1324.0	1388.2	1678.7	2100.6	2330.0
147.5°	1379.0	1434.1	1681.7	2021.1	2204.6
150°	1434.1	1476.9	1690.9	1956.9	2100.6
152.5°	1483.0	1516.6	1697.0	1898.8	2015.0
155°	1531.9	1556.4	1703.1	1859.1	1944.7
157.5°	1577.8	1593.1	1712.3	1828.5	1895.8
160°	1617.5	1626.7	1718.4	1807.1	1856.0
162.5°	1654.2	1657.3	1724.5	1791.8	1822.4
165°	1687.8	1684.8	1733.7	1779.6	1801.0
167.5°	1718.4	1706.2	1742.9	1767.3	1785.7
170°	1739.8	1724.5	1745.9	1764.3	1770.4
172.5°	1758.2	1739.8	1752.1	1758.2	1764.3
175°	1773.5	1752.1	1758.2	1758.2	1758.2
177.5°	1779.6	1758.2	1758.2	1758.2	1745.9
180°	1761.2	1761.2	1761.2	1761.2	1761.2

(END OF REPORT)