

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: P234635

Luminaire Tested: **CTA-F-5050-60L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234635
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-5050-60L840-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
6000 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: 18621.6 lumens
Efficiency: N/A
Efficacy: 126.4 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

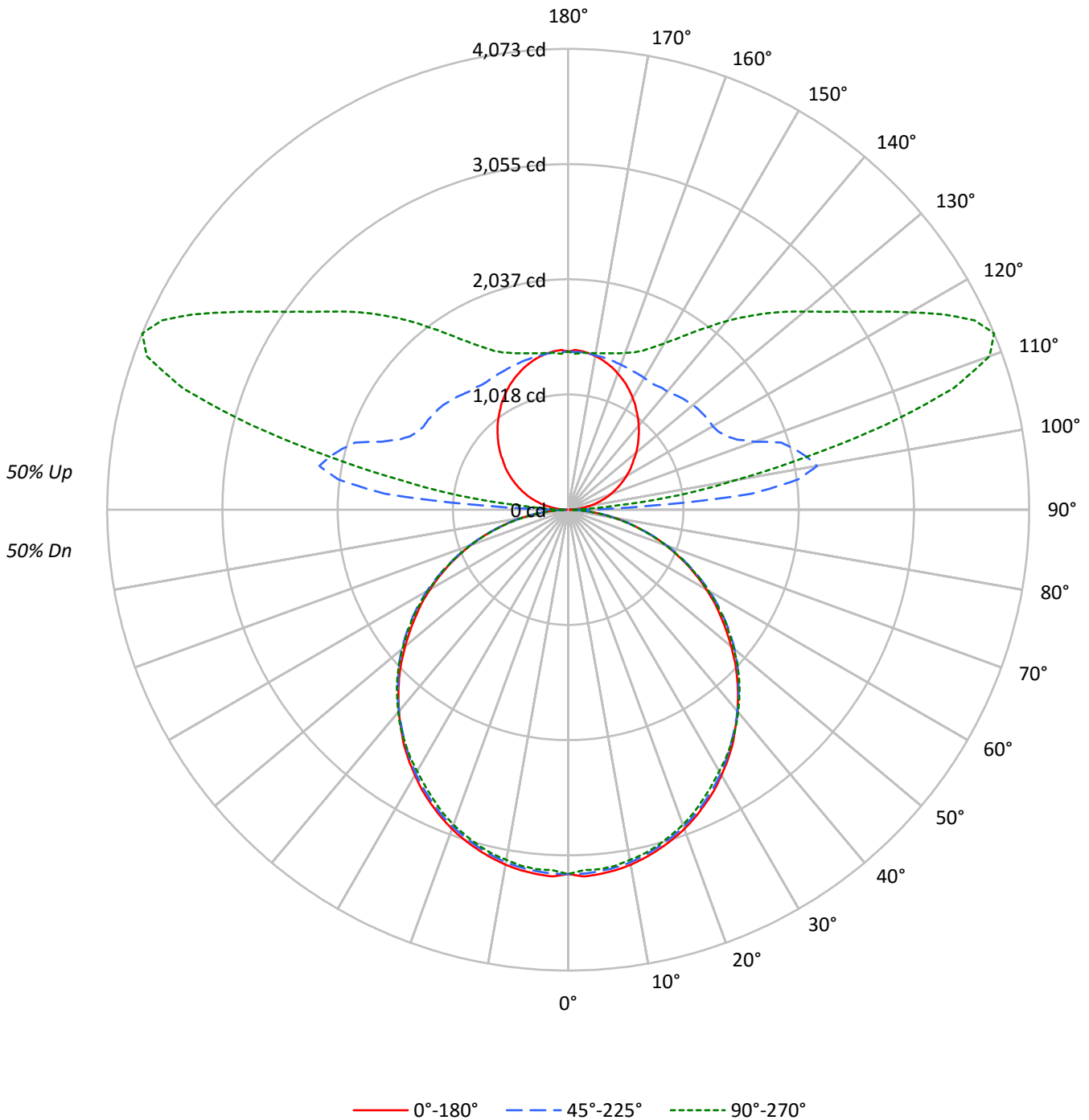
Input Watts (W): 147.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6931	6931	6931
5°	6984	6931	6891
10°	6964	6917	6871
15°	6923	6876	6841
20°	6878	6829	6787
25°	6812	6769	6703
30°	6734	6696	6635
35°	6653	6605	6605
40°	6539	6539	6565
45°	6432	6469	6506
50°	6298	6430	6400
55°	6174	6334	6300
60°	6069	6213	6147
65°	5934	6027	5981
70°	5773	5850	5773
75°	5493	5518	5442
80°	5193	5231	5003
85°	4606	4606	4154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	1.6
10°-20°	869.7	4.7
20°-30°	1310.0	7.0
30°-40°	1573.8	8.5
40°-50°	1639.2	8.8
50°-60°	1492.8	8.0
60°-70°	1163.6	6.2
70°-80°	703.7	3.8
80°-90°	212.7	1.1
90°-100°	756.8	4.1
100°-110°	1920.5	10.3
110°-120°	1929.2	10.4
120°-130°	1508.7	8.1
130°-140°	1190.3	6.4
140°-150°	890.9	4.8
150°-160°	632.3	3.4
160°-170°	390.2	2.1
170°-180°	132.9	0.7
0°-30°	2484.1	13.3
0°-40°	4057.9	21.8
0°-60°	7189.9	38.6
0°-90°	9269.9	49.8
90°-120°	4606.5	24.7
90°-150°	8196.3	44.0
90°-180°	9352.0	50.2
0°-180°	18621.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3220	3220	3220	3220	3220	
5°	3232	3201	3208	3198	3189	307
15°	3107	3076	3085	3082	3070	877
25°	2868	2841	2850	2834	2822	1322
35°	2532	2510	2513	2513	2513	1582
45°	2113	2107	2125	2143	2137	1629
55°	1645	1651	1688	1679	1679	1473
65°	1165	1177	1183	1174	1174	1152
75°	660	673	664	657	654	701
85°	186	193	186	180	168	200
90°	12	24	24	24	21	22
95°	89	297	1624	749	459	96
105°	294	486	2070	3364	2908	312
115°	495	648	1538	3379	3960	490
125°	688	807	1462	2556	3048	615
135°	878	960	1404	2113	2449	678
145°	1055	1107	1342	1712	1911	662
155°	1217	1235	1352	1477	1547	560
165°	1336	1336	1376	1416	1431	377
175°	1406	1391	1397	1394	1391	133
180°	1397	1397	1397	1397	1397	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3219.7	3219.7	3219.7	3219.7	3219.7
2.5°	3244.2	3213.6	3219.7	3210.6	3189.2
5°	3232.0	3201.4	3207.5	3198.3	3189.2
7.5°	3213.6	3183.1	3189.2	3183.1	3173.9
10°	3186.1	3152.5	3164.7	3155.5	3143.3
12.5°	3149.4	3118.8	3128.0	3121.9	3112.7
15°	3106.6	3076.0	3085.2	3082.2	3069.9
17.5°	3057.7	3027.1	3036.3	3033.2	3017.9
20°	3002.7	2972.1	2981.2	2969.0	2962.9
22.5°	2938.4	2910.9	2920.1	2901.7	2898.7
25°	2868.1	2840.6	2849.8	2834.5	2822.2
27.5°	2794.7	2767.2	2773.3	2761.1	2745.8
30°	2709.1	2684.7	2693.8	2675.5	2669.4
32.5°	2623.5	2599.0	2605.2	2599.0	2596.0
35°	2531.8	2510.4	2513.4	2513.4	2513.4
37.5°	2427.8	2415.6	2418.6	2430.9	2430.9
40°	2326.9	2314.7	2326.9	2339.1	2336.1
42.5°	2219.9	2213.8	2229.1	2244.3	2238.2
45°	2112.9	2106.7	2125.1	2143.4	2137.3
47.5°	1999.7	1996.7	2027.2	2036.4	2027.2
50°	1880.5	1883.5	1920.2	1923.3	1911.1
52.5°	1761.2	1770.4	1804.0	1804.0	1791.8
55°	1645.0	1651.2	1687.8	1678.7	1678.7
57.5°	1531.9	1535.0	1568.6	1553.3	1553.3
60°	1409.6	1412.7	1443.2	1427.9	1427.9
62.5°	1287.3	1296.5	1314.8	1302.6	1302.6
65°	1165.0	1177.2	1183.3	1174.2	1174.2
67.5°	1039.6	1054.9	1054.9	1042.7	1045.7
70°	917.3	932.6	929.5	917.3	917.3
72.5°	791.9	804.2	798.1	791.9	788.9
75°	660.5	672.7	663.5	657.4	654.3
77.5°	538.2	547.3	541.2	532.0	529.0
80°	418.9	425.0	422.0	409.7	403.6
82.5°	296.6	305.8	302.7	293.5	284.4
85°	186.5	192.6	186.5	180.4	168.2
87.5°	85.6	85.6	82.6	73.4	67.3
90°	12.2	24.5	24.5	24.5	21.4
92.5°	52.0	195.7	657.4	171.2	116.2
95°	88.7	296.6	1623.6	749.1	458.7
97.5°	140.7	354.7	2048.7	1320.9	993.7
100°	192.6	452.5	2232.1	1944.7	1501.3
102.5°	244.6	477.0	2158.7	2699.9	2152.6
105°	293.5	486.2	2070.1	3363.5	2907.9
107.5°	348.6	507.6	1972.2	3715.1	3565.3
110°	397.5	556.5	1758.2	3794.6	3959.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.4	605.4	1617.5	3641.7	4072.8
115°	495.3	648.2	1538.0	3378.7	3959.7
117.5°	544.3	688.0	1495.2	3115.8	3736.5
120°	593.2	727.7	1473.8	2886.5	3488.8
122.5°	642.1	764.4	1470.7	2706.1	3256.4
125°	688.0	807.2	1461.6	2556.2	3048.5
127.5°	730.8	840.9	1452.4	2433.9	2871.2
130°	785.8	877.6	1440.2	2330.0	2724.4
132.5°	831.7	920.4	1421.8	2222.9	2589.9
135°	877.6	960.1	1403.5	2112.9	2449.2
137.5°	923.4	999.9	1382.1	2008.9	2311.6
140°	969.3	1036.6	1363.7	1901.9	2177.1
142.5°	1015.2	1073.2	1357.6	1807.1	2036.4
145°	1054.9	1106.9	1342.3	1712.3	1911.1
147.5°	1100.8	1140.5	1339.3	1632.8	1791.8
150°	1140.5	1174.2	1345.4	1571.7	1697.0
152.5°	1180.3	1204.7	1348.4	1513.6	1617.5
155°	1217.0	1235.3	1351.5	1476.9	1547.2
157.5°	1250.6	1262.8	1357.6	1455.5	1504.4
160°	1281.2	1290.3	1363.7	1437.1	1473.8
162.5°	1311.7	1314.8	1369.8	1424.9	1449.3
165°	1336.2	1336.2	1376.0	1415.7	1431.0
167.5°	1360.7	1354.6	1382.1	1403.5	1415.7
170°	1379.0	1369.8	1385.1	1400.4	1403.5
172.5°	1394.3	1382.1	1391.2	1397.4	1397.4
175°	1406.5	1391.2	1397.4	1394.3	1391.2
177.5°	1412.7	1394.3	1394.3	1394.3	1379.0
180°	1397.4	1397.4	1397.4	1397.4	1397.4

(END OF REPORT)