

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: P234632

Luminaire Tested: **CTA-F-5050-60L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234632
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-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
6000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12414.4 lumens
Efficiency: N/A
Efficacy: 125.9 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

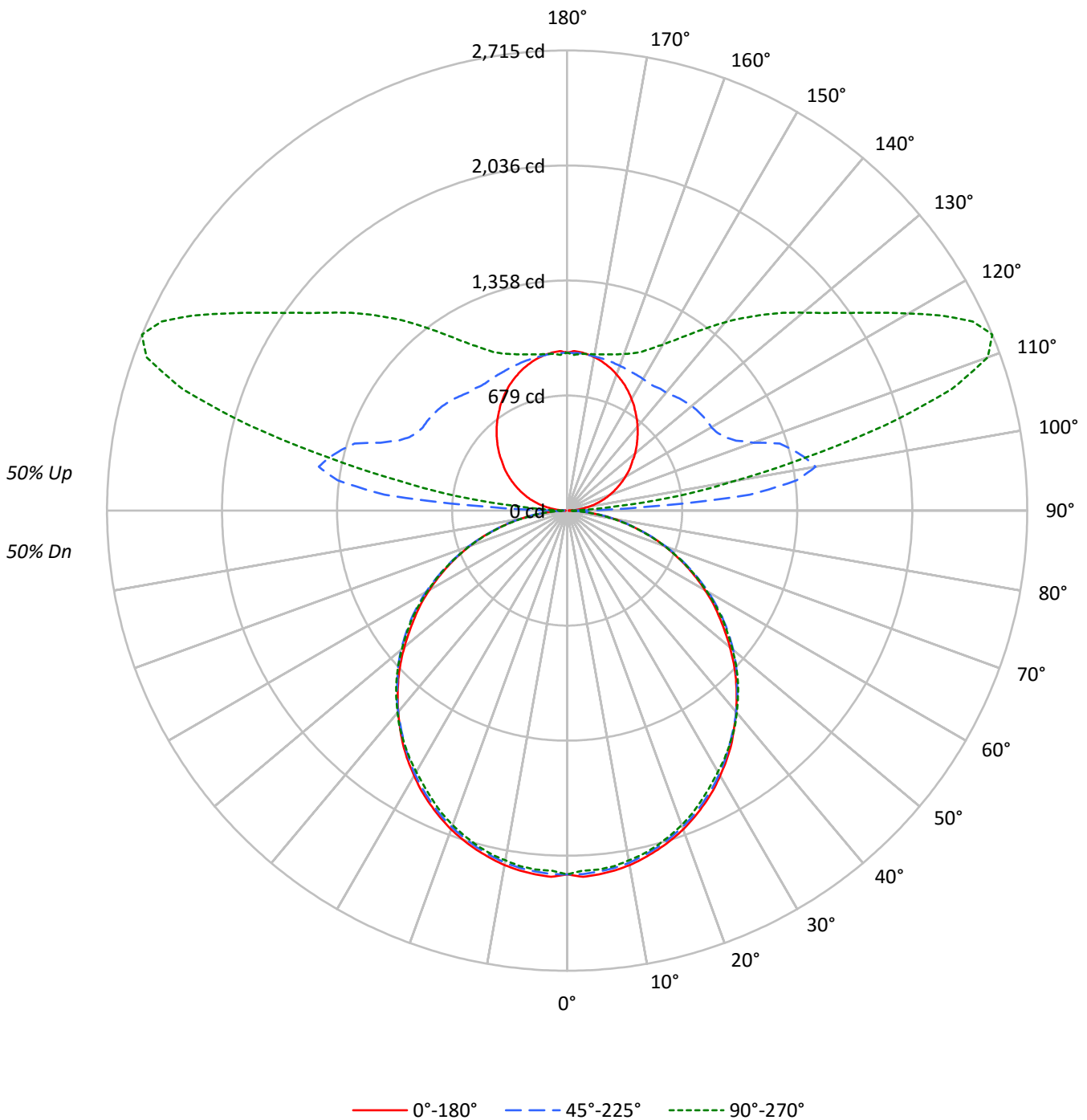
Input Watts (W): 98.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6931	6931	6931
5°	6984	6931	6891
10°	6964	6917	6871
15°	6923	6876	6841
20°	6878	6829	6787
25°	6812	6768	6703
30°	6734	6696	6635
35°	6653	6605	6605
40°	6539	6539	6565
45°	6432	6469	6507
50°	6298	6431	6400
55°	6174	6334	6300
60°	6068	6214	6148
65°	5934	6027	5981
70°	5773	5850	5773
75°	5493	5518	5442
80°	5193	5231	5004
85°	4605	4605	4153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	1.6
10°-20°	579.8	4.7
20°-30°	873.3	7.0
30°-40°	1049.2	8.5
40°-50°	1092.8	8.8
50°-60°	995.2	8.0
60°-70°	775.8	6.2
70°-80°	469.1	3.8
80°-90°	141.8	1.1
90°-100°	504.6	4.1
100°-110°	1280.3	10.3
110°-120°	1286.1	10.4
120°-130°	1005.8	8.1
130°-140°	793.6	6.4
140°-150°	593.9	4.8
150°-160°	421.6	3.4
160°-170°	260.1	2.1
170°-180°	88.6	0.7
0°-30°	1656.1	13.3
0°-40°	2705.3	21.8
0°-60°	4793.3	38.6
0°-90°	6179.9	49.8
90°-120°	3071.0	24.7
90°-150°	5464.2	44.0
90°-180°	6234.0	50.2
0°-180°	12414.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2155	2134	2138	2132	2126	205
15°	2071	2051	2057	2055	2047	584
25°	1912	1894	1900	1890	1882	881
35°	1688	1674	1676	1676	1676	1054
45°	1409	1404	1417	1429	1425	1086
55°	1097	1101	1125	1119	1119	982
65°	777	785	789	783	783	768
75°	440	448	442	438	436	467
85°	124	128	124	120	112	133
90°	8	16	16	16	14	15
95°	59	198	1082	499	306	64
105°	196	324	1380	2242	1939	208
115°	330	432	1025	2252	2640	327
125°	459	538	974	1704	2032	410
135°	585	640	936	1409	1633	452
145°	703	738	895	1142	1274	441
155°	811	824	901	985	1032	374
165°	891	891	917	944	954	251
175°	938	928	932	930	928	89
180°	932	932	932	932	932	



TEST NUMBER: P234632

CATALOG NUMBER: CTA-F-5050-60L840-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2146.5	2146.5	2146.5	2146.5	2146.5
2.5°	2162.8	2142.4	2146.5	2140.4	2126.1
5°	2154.7	2134.3	2138.3	2132.2	2126.1
7.5°	2142.4	2122.0	2126.1	2122.0	2115.9
10°	2124.1	2101.7	2109.8	2103.7	2095.5
12.5°	2099.6	2079.2	2085.3	2081.3	2075.2
15°	2071.1	2050.7	2056.8	2054.8	2046.6
17.5°	2038.5	2018.1	2024.2	2022.2	2012.0
20°	2001.8	1981.4	1987.5	1979.3	1975.3
22.5°	1959.0	1940.6	1946.7	1934.5	1932.5
25°	1912.1	1893.7	1899.8	1889.7	1881.5
27.5°	1863.2	1844.8	1848.9	1840.7	1830.5
30°	1806.1	1789.8	1795.9	1783.7	1779.6
32.5°	1749.0	1732.7	1736.8	1732.7	1730.7
35°	1687.8	1673.6	1675.6	1675.6	1675.6
37.5°	1618.5	1610.4	1612.4	1620.6	1620.6
40°	1551.3	1543.1	1551.3	1559.4	1557.4
42.5°	1479.9	1475.8	1486.0	1496.2	1492.2
45°	1408.6	1404.5	1416.7	1429.0	1424.9
47.5°	1333.2	1331.1	1351.5	1357.6	1351.5
50°	1253.7	1255.7	1280.2	1282.2	1274.0
52.5°	1174.2	1180.3	1202.7	1202.7	1194.5
55°	1096.7	1100.8	1125.2	1119.1	1119.1
57.5°	1021.3	1023.3	1045.7	1035.5	1035.5
60°	939.7	941.8	962.2	952.0	952.0
62.5°	858.2	864.3	876.5	868.4	868.4
65°	776.7	784.8	788.9	782.8	782.8
67.5°	693.1	703.3	703.3	695.1	697.2
70°	611.5	621.7	619.7	611.5	611.5
72.5°	528.0	536.1	532.0	528.0	525.9
75°	440.3	448.5	442.3	438.3	436.2
77.5°	358.8	364.9	360.8	354.7	352.7
80°	279.3	283.3	281.3	273.2	269.1
82.5°	197.7	203.8	201.8	195.7	189.6
85°	124.3	128.4	124.3	120.3	112.1
87.5°	57.1	57.1	55.0	48.9	44.8
90°	8.2	16.3	16.3	16.3	14.3
92.5°	34.7	130.5	438.3	114.2	77.5
95°	59.1	197.7	1082.4	499.4	305.8
97.5°	93.8	236.5	1365.8	880.6	662.5
100°	128.4	301.7	1488.1	1296.5	1000.9
102.5°	163.1	318.0	1439.2	1800.0	1435.1
105°	195.7	324.1	1380.0	2242.3	1938.6
107.5°	232.4	338.4	1314.8	2476.7	2376.8
110°	265.0	371.0	1172.1	2529.7	2639.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	297.6	403.6	1078.3	2427.8	2715.2
115°	330.2	432.2	1025.3	2252.5	2639.8
117.5°	362.8	458.7	996.8	2077.2	2491.0
120°	395.5	485.2	982.5	1924.3	2325.9
122.5°	428.1	509.6	980.5	1804.0	2171.0
125°	458.7	538.2	974.4	1704.2	2032.3
127.5°	487.2	560.6	968.3	1622.6	1914.1
130°	523.9	585.0	960.1	1553.3	1816.3
132.5°	554.5	613.6	947.9	1482.0	1726.6
135°	585.0	640.1	935.7	1408.6	1632.8
137.5°	615.6	666.6	921.4	1339.3	1541.1
140°	646.2	691.0	909.2	1267.9	1451.4
142.5°	676.8	715.5	905.1	1204.7	1357.6
145°	703.3	737.9	894.9	1141.5	1274.0
147.5°	733.8	760.3	892.8	1088.5	1194.5
150°	760.3	782.8	896.9	1047.8	1131.3
152.5°	786.8	803.2	899.0	1009.0	1078.3
155°	811.3	823.5	901.0	984.6	1031.5
157.5°	833.7	841.9	905.1	970.3	1002.9
160°	854.1	860.2	909.2	958.1	982.5
162.5°	874.5	876.5	913.2	949.9	966.2
165°	890.8	890.8	917.3	943.8	954.0
167.5°	907.1	903.0	921.4	935.7	943.8
170°	919.3	913.2	923.4	933.6	935.7
172.5°	929.5	921.4	927.5	931.6	931.6
175°	937.7	927.5	931.6	929.5	927.5
177.5°	941.8	929.5	929.5	929.5	919.3
180°	931.6	931.6	931.6	931.6	931.6

(END OF REPORT)