

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: P234564

Luminaire Tested: **CTA-F-0100-60L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-19)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-60L830-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
6000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

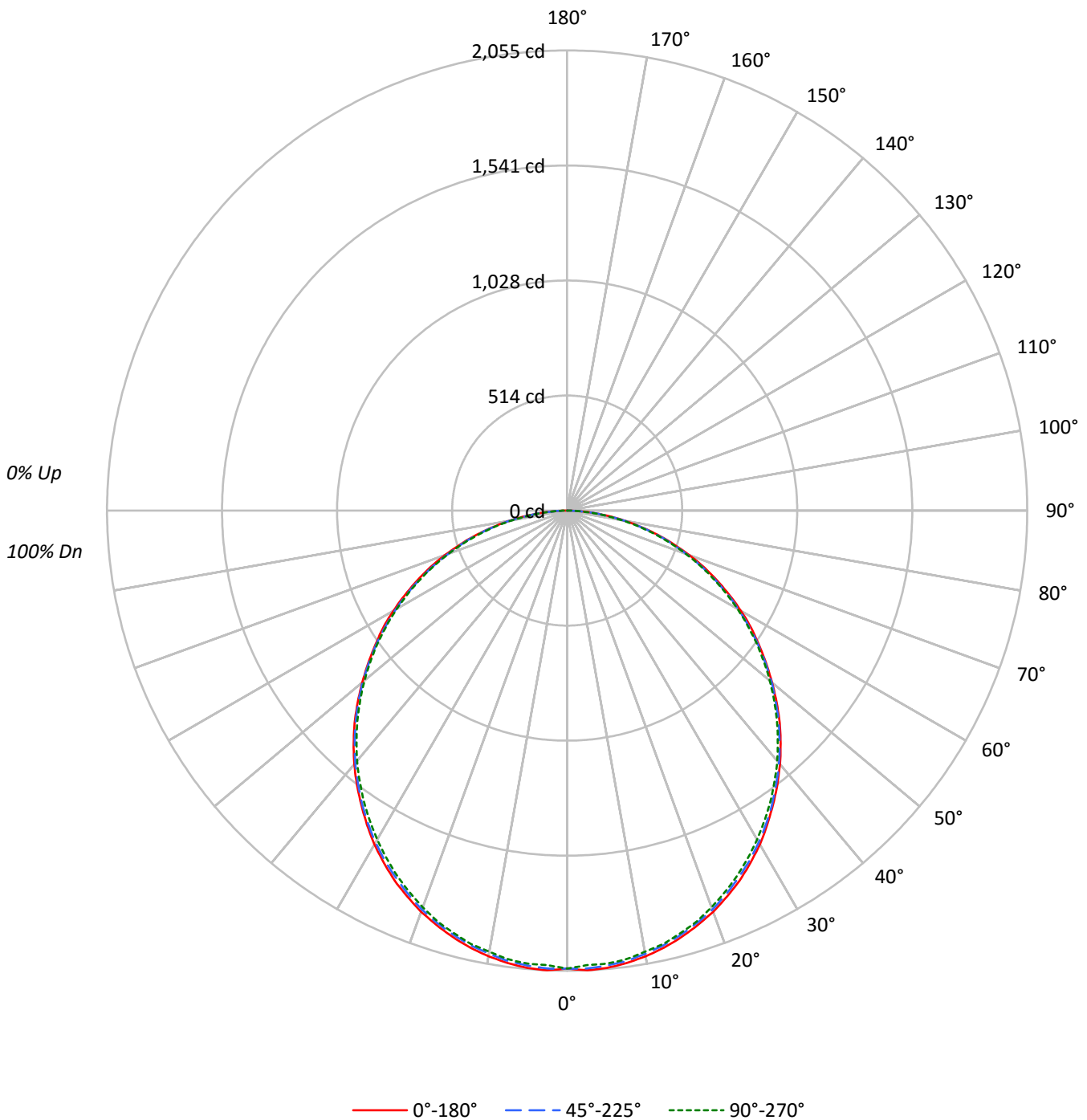
Lumens per Lamp: N/A
Luminaire Lumens: 5806.6 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.8
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



TEST NUMBER: P234564
CATALOG NUMBER: CTA-F-0100-60L830-UNV-4

Luminous Intensity Polar Plot





TEST NUMBER: P234564

CATALOG NUMBER: CTA-F-0100-60L830-UNV-4

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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13208	13208	13208
5°	13289	13220	13165
10°	13254	13178	13115
15°	13185	13114	13062
20°	13103	13031	12958
25°	12990	12894	12812
30°	12835	12762	12648
35°	12637	12591	12485
40°	12466	12410	12305
45°	12259	12198	12101
50°	11998	11969	11872
55°	11768	11702	11627
60°	11575	11414	11350
65°	11285	11094	11020
70°	10929	10693	10640
75°	10437	10292	10100
80°	9725	9584	9297
85°	8551	8054	7195



TEST NUMBER: P234564

CATALOG NUMBER: CTA-F-0100-60L830-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	3.3
10°-20°	552.7	9.5
20°-30°	831.9	14.3
30°-40°	995.4	17.1
40°-50°	1026.7	17.7
50°-60°	928.2	16.0
60°-70°	719.9	12.4
70°-80°	434.1	7.5
80°-90°	124.3	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1578.0	27.2
0°-40°	2573.5	44.3
0°-60°	4528.3	78.0
0°-90°	5806.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5806.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2045	2045	2045	2045	2045	
5°	2050	2030	2039	2038	2031	195
15°	1972	1950	1962	1962	1954	556
25°	1823	1799	1810	1803	1798	839
35°	1603	1588	1597	1586	1584	1004
45°	1342	1333	1336	1324	1325	1035
55°	1045	1042	1039	1032	1033	936
65°	738	732	726	722	721	732
75°	418	414	412	407	405	442
85°	115	114	109	103	97	131
90°	0	0	0	0	0	



TEST NUMBER: P234564

CATALOG NUMBER: CTA-F-0100-60L830-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2045.2	2045.2	2045.2	2045.2	2045.2
2.5°	2054.8	2036.5	2047.1	2044.2	2031.7
5°	2050.0	2029.8	2039.4	2037.5	2030.8
7.5°	2037.5	2018.3	2028.8	2026.0	2021.2
10°	2021.2	1999.0	2009.6	2006.7	2000.0
12.5°	1999.0	1977.9	1988.5	1985.6	1982.7
15°	1972.1	1950.0	1961.5	1961.5	1953.8
17.5°	1940.4	1920.2	1930.8	1929.8	1924.0
20°	1906.7	1882.7	1896.2	1891.3	1885.6
22.5°	1865.4	1844.2	1854.8	1846.2	1843.3
25°	1823.1	1799.0	1809.6	1802.9	1798.1
27.5°	1773.1	1751.9	1762.5	1752.9	1749.0
30°	1721.2	1699.0	1711.5	1701.0	1696.2
32.5°	1663.5	1647.1	1655.8	1645.2	1640.4
35°	1602.9	1587.5	1597.1	1586.5	1583.7
37.5°	1542.3	1527.9	1534.6	1525.0	1522.1
40°	1478.8	1465.4	1472.1	1459.6	1459.6
42.5°	1411.5	1400.0	1403.8	1393.3	1392.3
45°	1342.3	1332.7	1335.6	1324.0	1325.0
47.5°	1269.2	1261.5	1263.5	1253.8	1252.9
50°	1194.2	1190.4	1191.3	1179.8	1181.7
52.5°	1120.2	1117.3	1115.4	1107.7	1106.7
55°	1045.2	1042.3	1039.4	1031.7	1032.7
57.5°	975.0	966.3	961.5	956.7	955.8
60°	896.2	888.5	883.7	877.9	878.8
62.5°	817.3	811.5	806.7	801.9	800.0
65°	738.5	731.7	726.0	722.1	721.2
67.5°	662.5	651.0	646.2	643.3	642.3
70°	578.8	572.1	566.3	563.5	563.5
72.5°	499.0	492.3	489.4	485.6	483.7
75°	418.3	414.4	412.5	406.7	404.8
77.5°	338.5	336.5	334.6	327.9	326.0
80°	261.5	259.6	257.7	250.0	250.0
82.5°	185.6	184.6	180.8	174.0	170.2
85°	115.4	114.4	108.7	102.9	97.1
87.5°	50.0	47.1	40.4	35.6	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)