

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: P234550

Luminaire Tested: **CTA-F-0100-40L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-17)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-40L830-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (672) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

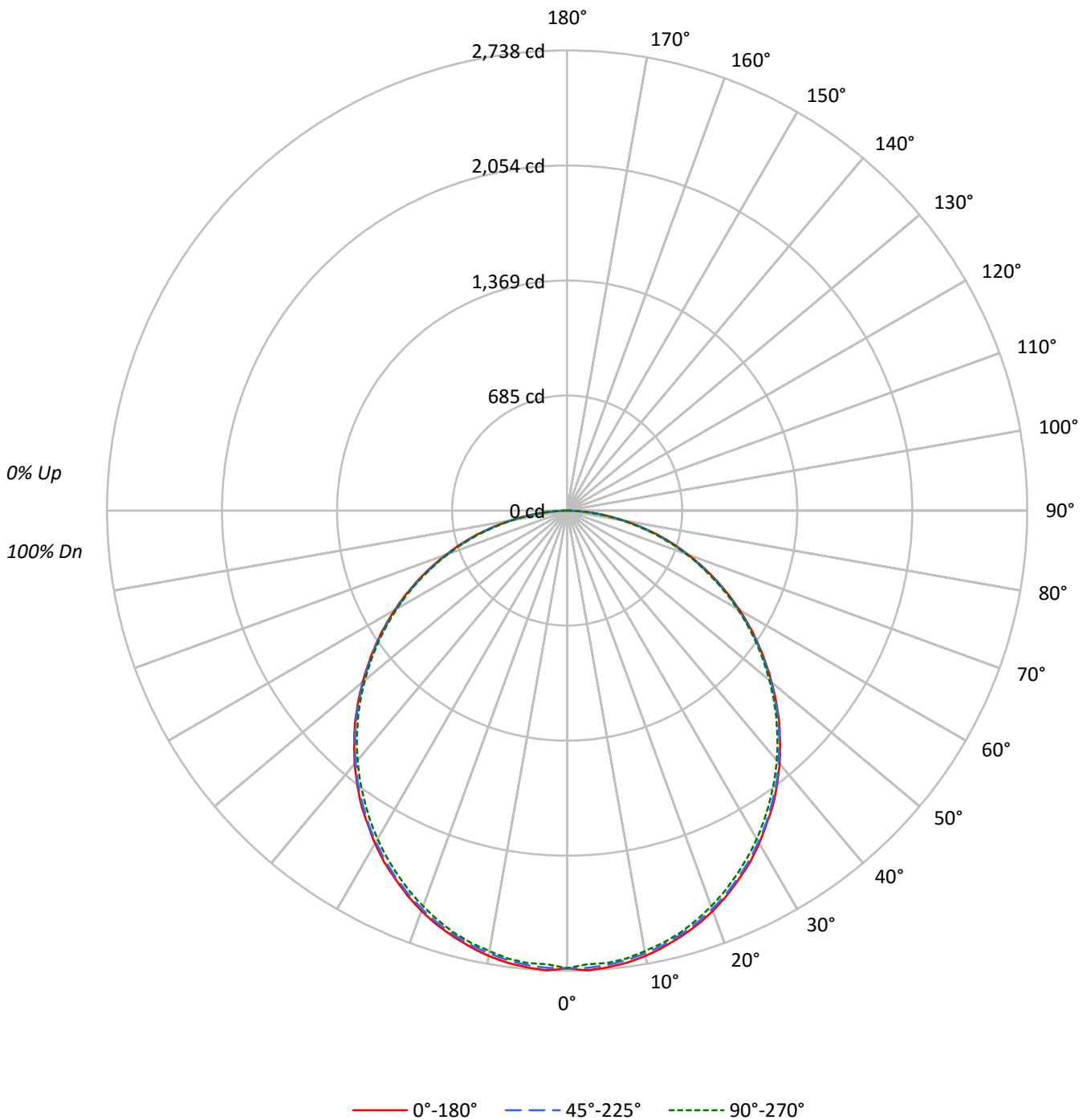
Lumens per Lamp: N/A
Luminaire Lumens: 7723.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 85.9
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	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°	8793	8793	8793
5°	8845	8801	8758
10°	8821	8771	8726
15°	8769	8730	8691
20°	8709	8670	8610
25°	8619	8585	8510
30°	8525	8489	8411
35°	8422	8376	8293
40°	8292	8252	8179
45°	8149	8114	8044
50°	7980	7960	7893
55°	7827	7795	7740
60°	7650	7612	7563
65°	7464	7390	7346
70°	7226	7135	7098
75°	6958	6814	6742
80°	6330	6294	6114
85°	5557	5342	4846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	3.3
10°-20°	735.4	9.5
20°-30°	1106.6	14.3
30°-40°	1324.0	17.1
40°-50°	1365.5	17.7
50°-60°	1234.4	16.0
60°-70°	957.6	12.4
70°-80°	576.9	7.5
80°-90°	165.2	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°	2099.5	27.2
0°-40°	3423.5	44.3
0°-60°	6023.4	78.0
0°-90°	7723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2723	2723	2723	2723	2723	
5°	2729	2704	2715	2708	2702	259
15°	2623	2598	2612	2606	2600	740
25°	2419	2398	2410	2394	2388	1115
35°	2136	2114	2125	2108	2104	1335
45°	1785	1773	1777	1760	1762	1375
55°	1390	1386	1385	1373	1375	1242
65°	977	969	967	962	962	966
75°	558	548	546	544	540	586
85°	150	154	144	136	131	171
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2723.1	2723.1	2723.1	2723.1	2723.1
2.5°	2738.5	2713.5	2723.1	2719.2	2701.9
5°	2728.8	2703.8	2715.4	2707.7	2701.9
7.5°	2713.5	2688.5	2698.1	2692.3	2688.5
10°	2690.4	2663.5	2675.0	2669.2	2661.5
12.5°	2659.6	2634.6	2648.1	2638.5	2634.6
15°	2623.1	2598.1	2611.5	2605.8	2600.0
17.5°	2582.7	2557.7	2571.2	2565.4	2555.8
20°	2534.6	2509.6	2523.1	2511.5	2505.8
22.5°	2480.8	2455.8	2469.2	2455.8	2450.0
25°	2419.2	2398.1	2409.6	2394.2	2388.5
27.5°	2357.7	2332.7	2346.2	2330.8	2325.0
30°	2286.5	2263.5	2276.9	2257.7	2255.8
32.5°	2209.6	2190.4	2203.8	2186.5	2182.7
35°	2136.5	2113.5	2125.0	2107.7	2103.8
37.5°	2051.9	2032.7	2046.2	2025.0	2025.0
40°	1967.3	1951.9	1957.7	1938.5	1940.4
42.5°	1875.0	1863.5	1869.2	1851.9	1851.9
45°	1784.6	1773.1	1776.9	1759.6	1761.5
47.5°	1686.5	1678.8	1680.8	1665.4	1667.3
50°	1588.5	1582.7	1584.6	1569.2	1571.2
52.5°	1488.5	1484.6	1482.7	1469.2	1473.1
55°	1390.4	1386.5	1384.6	1373.1	1375.0
57.5°	1288.5	1284.6	1280.8	1271.2	1273.1
60°	1184.6	1182.7	1178.8	1171.2	1171.2
62.5°	1080.8	1076.9	1071.2	1067.3	1067.3
65°	976.9	969.2	967.3	961.5	961.5
67.5°	871.2	867.3	861.5	859.6	857.7
70°	765.4	759.6	755.8	753.8	751.9
72.5°	663.5	657.7	651.9	648.1	646.2
75°	557.7	548.1	546.2	544.2	540.4
77.5°	448.1	444.2	440.4	436.5	430.8
80°	340.4	344.2	338.5	332.7	328.8
82.5°	244.2	248.1	238.5	232.7	228.8
85°	150.0	153.8	144.2	136.5	130.8
87.5°	65.4	67.3	53.8	48.1	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)