

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: P234552

Luminaire Tested: **CTA-F-0100-40L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234552
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-0100-40L840-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

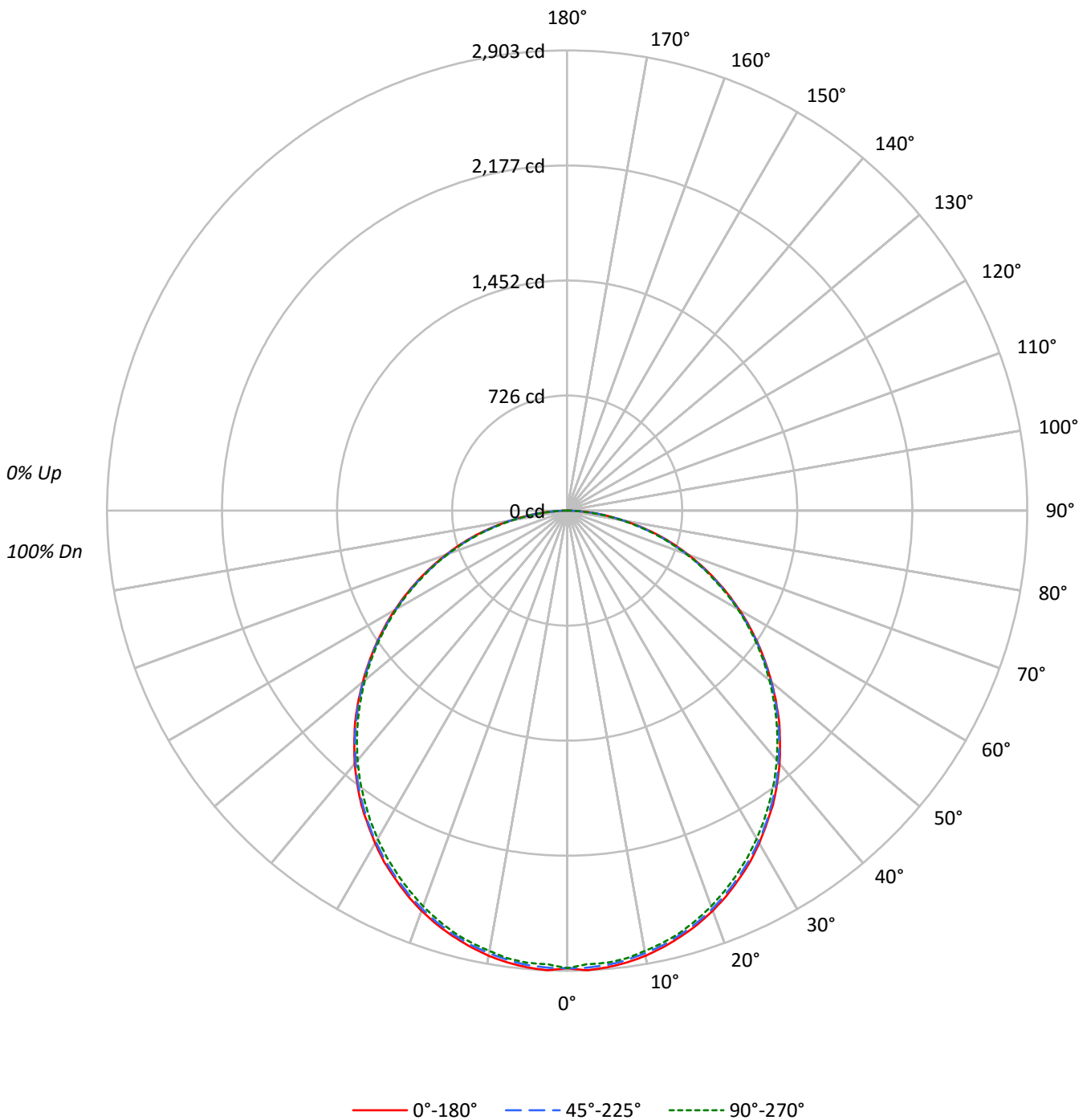
Lumens per Lamp: N/A
Luminaire Lumens: 8186.5 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9320	9320	9320
5°	9376	9329	9283
10°	9350	9297	9250
15°	9295	9254	9213
20°	9232	9190	9127
25°	9136	9100	9020
30°	9037	8999	8915
35°	8927	8879	8791
40°	8790	8747	8670
45°	8638	8601	8526
50°	8458	8438	8366
55°	8297	8262	8205
60°	8109	8070	8017
65°	7911	7834	7787
70°	7659	7563	7524
75°	7376	7222	7146
80°	6709	6672	6482
85°	5891	5665	5135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	3.3
10°-20°	779.5	9.5
20°-30°	1173.0	14.3
30°-40°	1403.5	17.1
40°-50°	1447.4	17.7
50°-60°	1308.4	16.0
60°-70°	1015.1	12.4
70°-80°	611.5	7.5
80°-90°	175.1	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°	2225.5	27.2
0°-40°	3628.9	44.3
0°-60°	6384.8	78.0
0°-90°	8186.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8186.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2886	2886	2886	2886	2886	
5°	2893	2866	2878	2870	2864	275
15°	2780	2754	2768	2762	2756	785
25°	2564	2542	2554	2538	2532	1182
35°	2265	2240	2252	2234	2230	1415
45°	1892	1880	1884	1865	1867	1458
55°	1474	1470	1468	1456	1458	1317
65°	1036	1027	1025	1019	1019	1024
75°	591	581	579	577	573	621
85°	159	163	153	145	139	182
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2886.5	2886.5	2886.5	2886.5	2886.5
2.5°	2902.8	2876.3	2886.5	2882.4	2864.0
5°	2892.6	2866.1	2878.3	2870.2	2864.0
7.5°	2876.3	2849.8	2860.0	2853.8	2849.8
10°	2851.8	2823.3	2835.5	2829.4	2821.2
12.5°	2819.2	2792.7	2807.0	2796.8	2792.7
15°	2780.5	2754.0	2768.2	2762.1	2756.0
17.5°	2737.7	2711.2	2725.4	2719.3	2709.1
20°	2686.7	2660.2	2674.5	2662.2	2656.1
22.5°	2629.6	2603.1	2617.4	2603.1	2597.0
25°	2564.4	2542.0	2554.2	2537.9	2531.8
27.5°	2499.2	2472.7	2486.9	2470.6	2464.5
30°	2423.7	2399.3	2413.5	2393.2	2391.1
32.5°	2342.2	2321.8	2336.1	2317.7	2313.7
35°	2264.7	2240.3	2252.5	2234.2	2230.1
37.5°	2175.0	2154.7	2168.9	2146.5	2146.5
40°	2085.3	2069.0	2075.2	2054.8	2056.8
42.5°	1987.5	1975.3	1981.4	1963.0	1963.0
45°	1891.7	1879.5	1883.5	1865.2	1867.2
47.5°	1787.7	1779.6	1781.6	1765.3	1767.3
50°	1683.8	1677.7	1679.7	1663.4	1665.4
52.5°	1577.8	1573.7	1571.7	1557.4	1561.5
55°	1473.8	1469.7	1467.7	1455.5	1457.5
57.5°	1365.8	1361.7	1357.6	1347.4	1349.5
60°	1255.7	1253.7	1249.6	1241.4	1241.4
62.5°	1145.6	1141.5	1135.4	1131.3	1131.3
65°	1035.5	1027.4	1025.3	1019.2	1019.2
67.5°	923.4	919.3	913.2	911.2	909.2
70°	811.3	805.2	801.1	799.1	797.0
72.5°	703.3	697.2	691.0	687.0	684.9
75°	591.2	581.0	578.9	576.9	572.8
77.5°	475.0	470.9	466.8	462.7	456.6
80°	360.8	364.9	358.8	352.7	348.6
82.5°	258.9	263.0	252.8	246.7	242.6
85°	159.0	163.1	152.9	144.7	138.6
87.5°	69.3	71.3	57.1	51.0	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)