

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: P234548

Luminaire Tested: **CTA-F-0100-40L830-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234548  
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-4  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
4000 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: 3861.5 lumens  
Efficiency: N/A  
Efficacy: 88.4 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

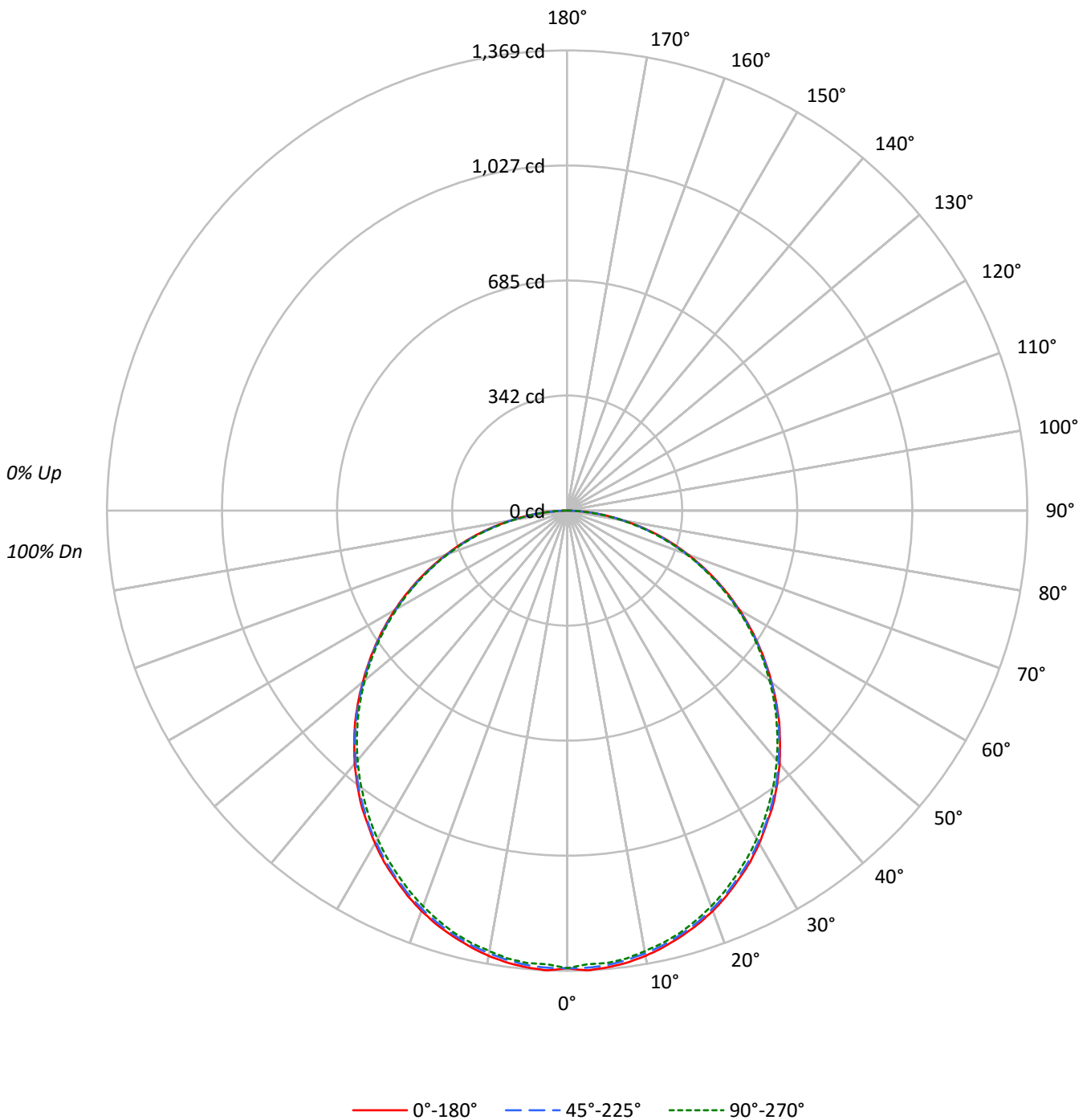
Input Watts (W): 43.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	8792	8792	8792
5°	8845	8801	8758
10°	8821	8771	8727
15°	8768	8730	8691
20°	8709	8669	8610
25°	8619	8585	8509
30°	8525	8490	8411
35°	8422	8376	8293
40°	8293	8251	8179
45°	8149	8114	8044
50°	7979	7960	7893
55°	7827	7795	7740
60°	7650	7612	7563
65°	7465	7391	7347
70°	7226	7135	7099
75°	6956	6814	6742
80°	6330	6292	6114
85°	5557	5342	4846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.7	3.3
10°-20°	367.7	9.5
20°-30°	553.3	14.3
30°-40°	662.0	17.1
40°-50°	682.7	17.7
50°-60°	617.2	16.0
60°-70°	478.8	12.4
70°-80°	288.4	7.5
80°-90°	82.6	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°	1049.7	27.2
0°-40°	1711.8	44.3
0°-60°	3011.7	78.0
0°-90°	3861.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1364	1352	1358	1354	1351	130
15°	1312	1299	1306	1303	1300	370
25°	1210	1199	1205	1197	1194	558
35°	1068	1057	1062	1054	1052	667
45°	892	886	888	880	881	688
55°	695	693	692	686	688	621
65°	488	485	484	481	481	483
75°	279	274	273	272	270	293
85°	75	77	72	68	65	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1361.5	1361.5	1361.5	1361.5	1361.5
2.5°	1369.2	1356.7	1361.5	1359.6	1351.0
5°	1364.4	1351.9	1357.7	1353.8	1351.0
7.5°	1356.7	1344.2	1349.0	1346.2	1344.2
10°	1345.2	1331.7	1337.5	1334.6	1330.8
12.5°	1329.8	1317.3	1324.0	1319.2	1317.3
15°	1311.5	1299.0	1305.8	1302.9	1300.0
17.5°	1291.3	1278.8	1285.6	1282.7	1277.9
20°	1267.3	1254.8	1261.5	1255.8	1252.9
22.5°	1240.4	1227.9	1234.6	1227.9	1225.0
25°	1209.6	1199.0	1204.8	1197.1	1194.2
27.5°	1178.8	1166.3	1173.1	1165.4	1162.5
30°	1143.3	1131.7	1138.5	1128.8	1127.9
32.5°	1104.8	1095.2	1101.9	1093.3	1091.3
35°	1068.3	1056.7	1062.5	1053.8	1051.9
37.5°	1026.0	1016.3	1023.1	1012.5	1012.5
40°	983.7	976.0	978.8	969.2	970.2
42.5°	937.5	931.7	934.6	926.0	926.0
45°	892.3	886.5	888.5	879.8	880.8
47.5°	843.3	839.4	840.4	832.7	833.7
50°	794.2	791.3	792.3	784.6	785.6
52.5°	744.2	742.3	741.3	734.6	736.5
55°	695.2	693.3	692.3	686.5	687.5
57.5°	644.2	642.3	640.4	635.6	636.5
60°	592.3	591.3	589.4	585.6	585.6
62.5°	540.4	538.5	535.6	533.7	533.7
65°	488.5	484.6	483.7	480.8	480.8
67.5°	435.6	433.7	430.8	429.8	428.8
70°	382.7	379.8	377.9	376.9	376.0
72.5°	331.7	328.8	326.0	324.0	323.1
75°	278.8	274.0	273.1	272.1	270.2
77.5°	224.0	222.1	220.2	218.3	215.4
80°	170.2	172.1	169.2	166.3	164.4
82.5°	122.1	124.0	119.2	116.3	114.4
85°	75.0	76.9	72.1	68.3	65.4
87.5°	32.7	33.7	26.9	24.0	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)