

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: P234534

Luminaire Tested: **CTA-F-0100-20L830-UNV-8**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-0100-20L830-UNV-8  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
2000 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: 3957.0 lumens  
Efficiency: N/A  
Efficacy: 102.0 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

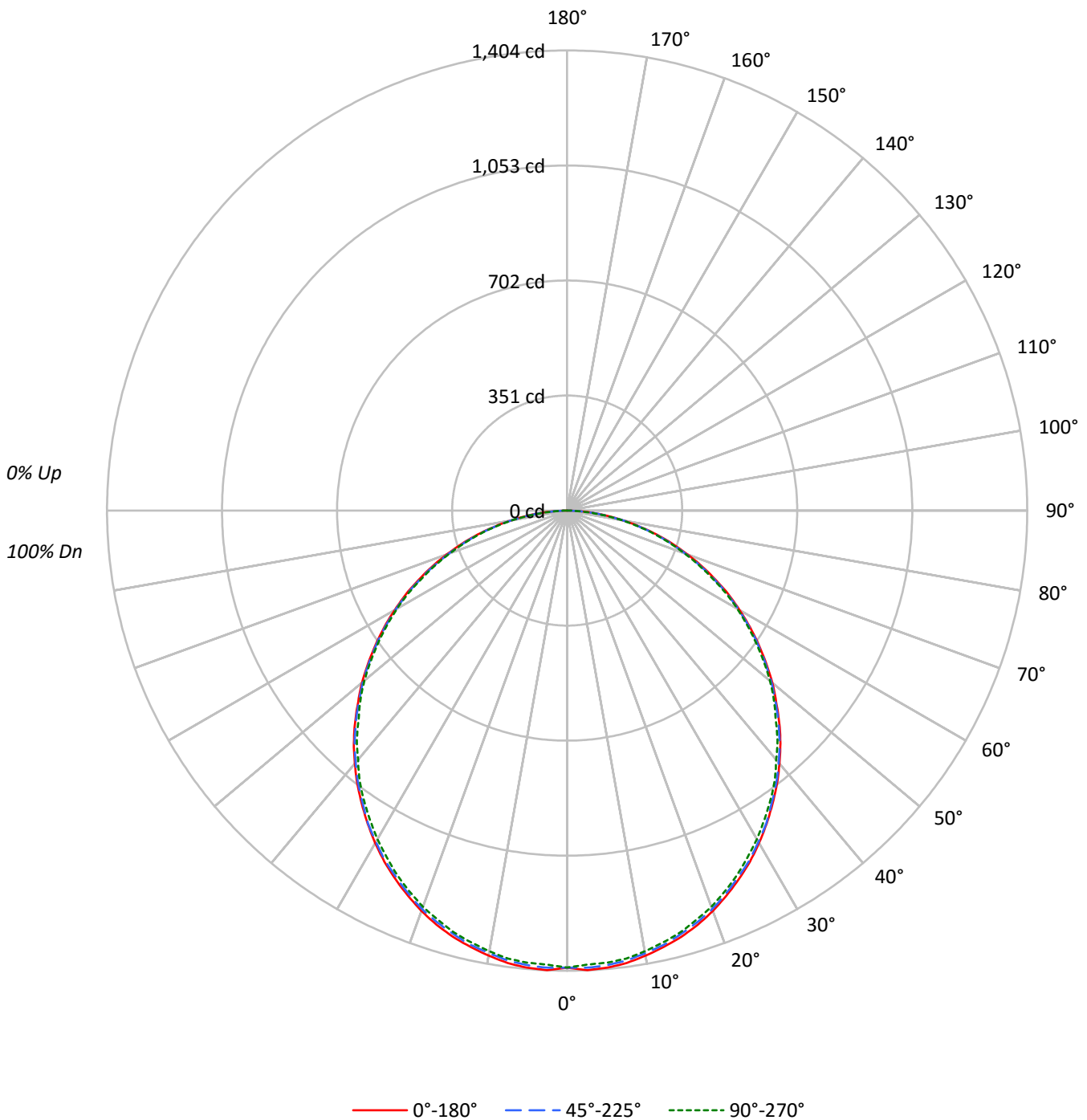
Input Watts (W): 38.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50
5	76	63	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	45	37	32	43	37	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°	4502	4502	4502
5°	4538	4513	4488
10°	4521	4496	4477
15°	4500	4474	4455
20°	4467	4447	4421
25°	4419	4399	4371
30°	4367	4352	4316
35°	4306	4291	4260
40°	4248	4231	4183
45°	4180	4162	4110
50°	4106	4086	4057
55°	4017	3995	3962
60°	3924	3899	3875
65°	3820	3776	3732
70°	3686	3631	3595
75°	3527	3454	3431
80°	3254	3219	3146
85°	2919	2708	2493



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.0	3.3
10°-20°	377.1	9.5
20°-30°	567.4	14.3
30°-40°	678.9	17.2
40°-50°	700.5	17.7
50°-60°	633.4	16.0
60°-70°	489.2	12.4
70°-80°	293.8	7.4
80°-90°	84.8	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°	1076.5	27.2
0°-40°	1755.3	44.4
0°-60°	3089.2	78.1
0°-90°	3957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3957.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1400	1386	1392	1388	1385	133
15°	1346	1333	1338	1336	1333	380
25°	1240	1229	1235	1227	1227	572
35°	1092	1085	1088	1079	1081	684
45°	915	908	912	902	900	706
55°	714	712	710	702	704	638
65°	500	496	494	490	488	495
75°	283	279	277	277	275	298
85°	79	79	73	69	67	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1394.2	1394.2	1394.2	1394.2	1394.2
2.5°	1403.8	1390.4	1396.2	1394.2	1386.5
5°	1400.0	1386.5	1392.3	1388.5	1384.6
7.5°	1392.3	1378.8	1384.6	1380.8	1378.8
10°	1378.8	1365.4	1371.2	1367.3	1365.4
12.5°	1363.5	1350.0	1357.7	1353.8	1350.0
15°	1346.2	1332.7	1338.5	1336.5	1332.7
17.5°	1325.0	1311.5	1317.3	1315.4	1309.6
20°	1300.0	1286.5	1294.2	1288.5	1286.5
22.5°	1271.2	1259.6	1265.4	1257.7	1257.7
25°	1240.4	1228.8	1234.6	1226.9	1226.9
27.5°	1207.7	1196.2	1203.8	1194.2	1192.3
30°	1171.2	1161.5	1167.3	1157.7	1157.7
32.5°	1132.7	1125.0	1130.8	1119.2	1119.2
35°	1092.3	1084.6	1088.5	1078.8	1080.8
37.5°	1051.9	1044.2	1048.1	1038.5	1040.4
40°	1007.7	1001.9	1003.8	994.2	992.3
42.5°	963.5	955.8	959.6	950.0	950.0
45°	915.4	907.7	911.5	901.9	900.0
47.5°	865.4	863.5	861.5	853.8	855.8
50°	817.3	815.4	813.5	805.8	807.7
52.5°	765.4	763.5	761.5	753.8	755.8
55°	713.5	711.5	709.6	701.9	703.8
57.5°	661.5	659.6	657.7	651.9	651.9
60°	607.7	605.8	603.8	600.0	600.0
62.5°	555.8	553.8	550.0	546.2	546.2
65°	500.0	496.2	494.2	490.4	488.5
67.5°	446.2	440.4	438.5	436.5	434.6
70°	390.4	386.5	384.6	382.7	380.8
72.5°	336.5	332.7	330.8	330.8	326.9
75°	282.7	278.8	276.9	276.9	275.0
77.5°	226.9	228.8	225.0	225.0	221.2
80°	175.0	175.0	173.1	171.2	169.2
82.5°	125.0	126.9	123.1	121.2	117.3
85°	78.8	78.8	73.1	69.2	67.3
87.5°	34.6	32.7	28.8	25.0	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)