

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: P234628

Luminaire Tested: **CTA-F-5050-60L830-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-9)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-5050-60L830-UNV-4  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
6000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (336) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5855.8 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: General Diffuse

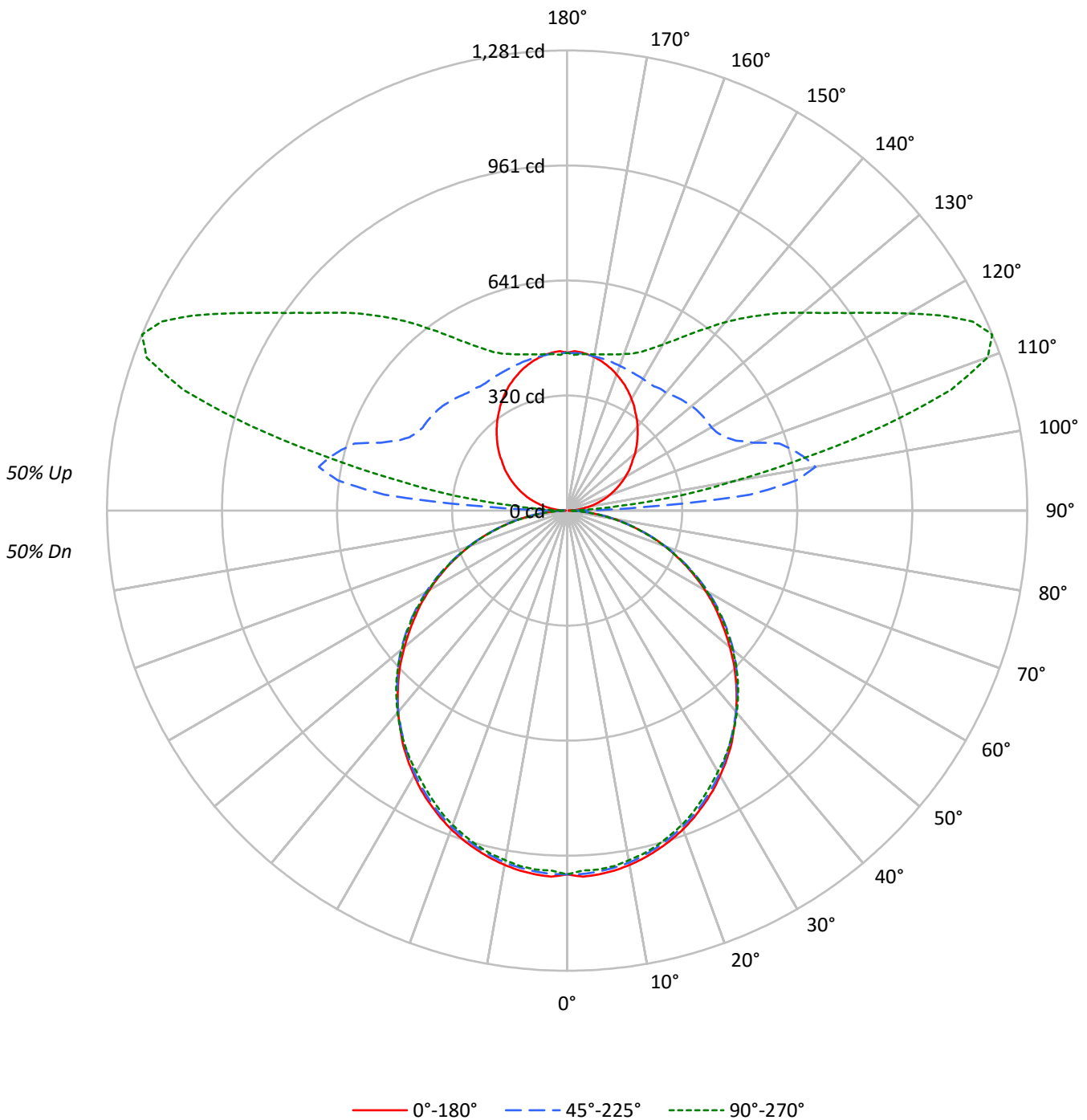
Input Watts (W): 50.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	93	89	85	90	86	82	79	73	70	68	60	58	57	49	48	47	41
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	63	57	74	66	59	54	56	51	47	46	43	40	38	35	33	29
4	74	63	55	48	68	58	51	45	49	44	39	41	37	34	34	31	28	24
5	67	56	47	41	62	52	44	39	44	38	34	37	32	29	30	27	24	21
6	62	50	42	36	57	46	39	34	40	34	29	33	29	25	27	24	21	18
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	21	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	19	17	14
9	50	37	30	24	46	35	28	23	30	24	20	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	19	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6539	6539	6539
5°	6588	6539	6501
10°	6570	6526	6482
15°	6531	6486	6454
20°	6489	6443	6403
25°	6426	6386	6324
30°	6353	6317	6259
35°	6277	6231	6231
40°	6168	6168	6193
45°	6068	6103	6138
50°	5941	6066	6038
55°	5824	5976	5944
60°	5726	5861	5799
65°	5597	5686	5642
70°	5447	5519	5447
75°	5182	5207	5135
80°	4898	4935	4719
85°	4349	4349	3920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.8	1.6
10°-20°	273.5	4.7
20°-30°	411.9	7.0
30°-40°	494.9	8.5
40°-50°	515.5	8.8
50°-60°	469.4	8.0
60°-70°	365.9	6.2
70°-80°	221.3	3.8
80°-90°	66.9	1.1
90°-100°	238.0	4.1
100°-110°	603.9	10.3
110°-120°	606.7	10.4
120°-130°	474.4	8.1
130°-140°	374.3	6.4
140°-150°	280.1	4.8
150°-160°	198.8	3.4
160°-170°	122.7	2.1
170°-180°	41.8	0.7
0°-30°	781.2	13.3
0°-40°	1276.1	21.8
0°-60°	2261.0	38.6
0°-90°	2915.1	49.8
90°-120°	1448.6	24.7
90°-150°	2577.4	44.0
90°-180°	2941.0	50.2
0°-180°	5855.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1016	1007	1009	1006	1003	97
15°	977	967	970	969	965	276
25°	902	893	896	891	888	416
35°	796	789	790	790	790	497
45°	664	662	668	674	672	512
55°	517	519	531	528	528	463
65°	366	370	372	369	369	362
75°	208	212	209	207	206	220
85°	59	61	59	57	53	63
90°	4	8	8	8	7	7
95°	28	93	511	236	144	30
105°	92	153	651	1058	914	98
115°	156	204	484	1062	1245	154
125°	216	254	460	804	959	193
135°	276	302	441	664	770	213
145°	332	348	422	538	601	208
155°	383	388	425	464	486	176
165°	420	420	433	445	450	119
175°	442	438	439	438	438	42
180°	439	439	439	439	439	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1012.5	1012.5	1012.5	1012.5	1012.5
2.5°	1020.2	1010.6	1012.5	1009.6	1002.9
5°	1016.3	1006.7	1008.7	1005.8	1002.9
7.5°	1010.6	1001.0	1002.9	1001.0	998.1
10°	1001.9	991.3	995.2	992.3	988.5
12.5°	990.4	980.8	983.7	981.7	978.8
15°	976.9	967.3	970.2	969.2	965.4
17.5°	961.5	951.9	954.8	953.8	949.0
20°	944.2	934.6	937.5	933.7	931.7
22.5°	924.0	915.4	918.3	912.5	911.5
25°	901.9	893.3	896.2	891.3	887.5
27.5°	878.8	870.2	872.1	868.3	863.5
30°	851.9	844.2	847.1	841.3	839.4
32.5°	825.0	817.3	819.2	817.3	816.3
35°	796.2	789.4	790.4	790.4	790.4
37.5°	763.5	759.6	760.6	764.4	764.4
40°	731.7	727.9	731.7	735.6	734.6
42.5°	698.1	696.2	701.0	705.8	703.8
45°	664.4	662.5	668.3	674.0	672.1
47.5°	628.8	627.9	637.5	640.4	637.5
50°	591.3	592.3	603.8	604.8	601.0
52.5°	553.8	556.7	567.3	567.3	563.5
55°	517.3	519.2	530.8	527.9	527.9
57.5°	481.7	482.7	493.3	488.5	488.5
60°	443.3	444.2	453.8	449.0	449.0
62.5°	404.8	407.7	413.5	409.6	409.6
65°	366.3	370.2	372.1	369.2	369.2
67.5°	326.9	331.7	331.7	327.9	328.8
70°	288.5	293.3	292.3	288.5	288.5
72.5°	249.0	252.9	251.0	249.0	248.1
75°	207.7	211.5	208.7	206.7	205.8
77.5°	169.2	172.1	170.2	167.3	166.3
80°	131.7	133.7	132.7	128.8	126.9
82.5°	93.3	96.2	95.2	92.3	89.4
85°	58.7	60.6	58.7	56.7	52.9
87.5°	26.9	26.9	26.0	23.1	21.2
90°	3.8	7.7	7.7	7.7	6.7
92.5°	16.3	61.5	206.7	53.8	36.5
95°	27.9	93.3	510.6	235.6	144.2
97.5°	44.2	111.5	644.2	415.4	312.5
100°	60.6	142.3	701.9	611.5	472.1
102.5°	76.9	150.0	678.8	849.0	676.9
105°	92.3	152.9	651.0	1057.7	914.4
107.5°	109.6	159.6	620.2	1168.3	1121.2
110°	125.0	175.0	552.9	1193.3	1245.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	140.4	190.4	508.7	1145.2	1280.8
115°	155.8	203.8	483.7	1062.5	1245.2
117.5°	171.2	216.3	470.2	979.8	1175.0
120°	186.5	228.8	463.5	907.7	1097.1
122.5°	201.9	240.4	462.5	851.0	1024.0
125°	216.3	253.8	459.6	803.8	958.7
127.5°	229.8	264.4	456.7	765.4	902.9
130°	247.1	276.0	452.9	732.7	856.7
132.5°	261.5	289.4	447.1	699.0	814.4
135°	276.0	301.9	441.3	664.4	770.2
137.5°	290.4	314.4	434.6	631.7	726.9
140°	304.8	326.0	428.8	598.1	684.6
142.5°	319.2	337.5	426.9	568.3	640.4
145°	331.7	348.1	422.1	538.5	601.0
147.5°	346.2	358.7	421.2	513.5	563.5
150°	358.7	369.2	423.1	494.2	533.7
152.5°	371.2	378.8	424.0	476.0	508.7
155°	382.7	388.5	425.0	464.4	486.5
157.5°	393.3	397.1	426.9	457.7	473.1
160°	402.9	405.8	428.8	451.9	463.5
162.5°	412.5	413.5	430.8	448.1	455.8
165°	420.2	420.2	432.7	445.2	450.0
167.5°	427.9	426.0	434.6	441.3	445.2
170°	433.7	430.8	435.6	440.4	441.3
172.5°	438.5	434.6	437.5	439.4	439.4
175°	442.3	437.5	439.4	438.5	437.5
177.5°	444.2	438.5	438.5	438.5	433.7
180°	439.4	439.4	439.4	439.4	439.4

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