

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: P234580

Luminaire Tested: **CTA-F-2575-50L830-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-13)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-2575-50L830-UNV-4  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT  
Light Source: (336) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4836.5 lumens  
Efficiency: N/A  
Efficacy: 101.0 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: Semi-Direct

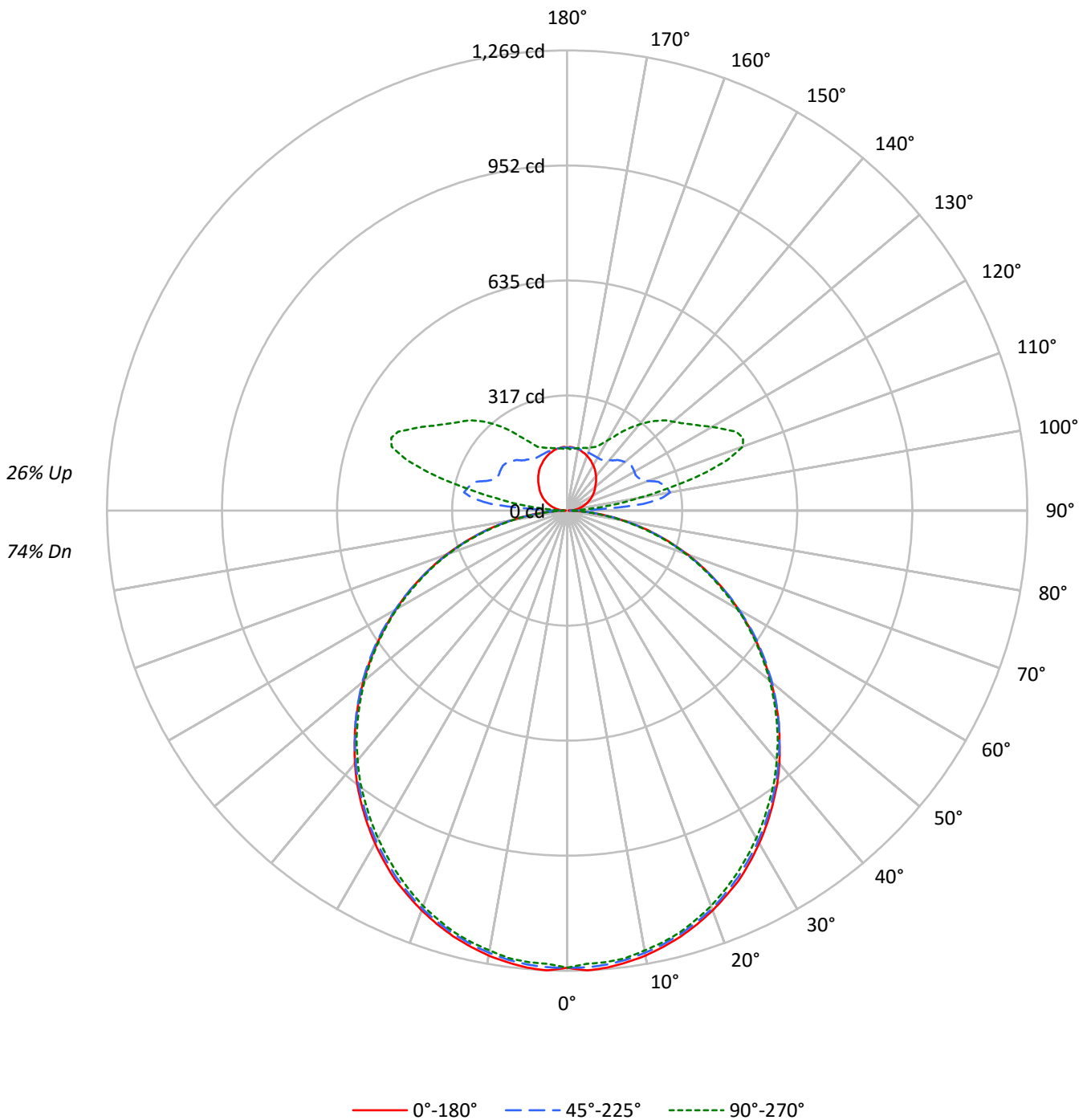
Input Watts (W): 47.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	98	94	90	97	93	90	86	84	82	79	76	74	72	69	67	65	62
2	93	85	79	73	88	81	75	70	74	69	65	67	63	60	60	57	55	51
3	85	75	67	61	80	71	64	59	65	59	54	59	54	50	53	49	46	43
4	78	66	58	51	73	63	56	50	57	51	46	52	47	43	47	43	40	37
5	71	59	50	44	67	56	48	43	51	45	40	47	41	37	42	38	34	32
6	66	53	44	38	62	51	43	37	46	40	35	42	37	32	38	34	30	28
7	61	48	39	34	58	46	38	33	42	35	31	38	33	29	35	30	27	24
8	57	44	35	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	30	25	22	20
10	49	37	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

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

	0°	45°	90°
0°	8141	8141	8141
5°	8203	8147	8103
10°	8172	8121	8077
15°	8126	8081	8048
20°	8062	8029	7976
25°	8003	7948	7879
30°	7901	7851	7780
35°	7793	7747	7679
40°	7676	7644	7579
45°	7535	7535	7464
50°	7371	7409	7322
55°	7210	7264	7166
60°	7042	7079	6991
65°	6861	6861	6774
70°	6663	6609	6554
75°	6358	6310	6165
80°	5865	5865	5649
85°	5201	4987	4557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	2.5
10°-20°	340.5	7.0
20°-30°	512.3	10.6
30°-40°	613.2	12.7
40°-50°	633.4	13.1
50°-60°	572.7	11.8
60°-70°	443.4	9.2
70°-80°	266.5	5.5
80°-90°	77.9	1.6
90°-100°	104.6	2.2
100°-110°	255.5	5.3
110°-120°	259.8	5.4
120°-130°	209.5	4.3
130°-140°	165.3	3.4
140°-150°	117.7	2.4
150°-160°	79.6	1.6
160°-170°	48.7	1.0
170°-180°	16.5	0.3
0°-30°	972.0	20.1
0°-40°	1585.2	32.8
0°-60°	2791.4	57.7
0°-90°	3579.2	74.0
90°-120°	620.0	12.8
90°-150°	1112.4	23.0
90°-180°	1257.0	26.0
0°-180°	4836.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1265	1253	1257	1254	1250	120
15°	1215	1204	1209	1208	1204	343
25°	1123	1111	1115	1109	1106	517
35°	988	979	983	978	974	618
45°	825	820	825	820	817	636
55°	640	639	645	639	636	573
65°	449	451	449	445	443	445
75°	255	255	253	251	247	269
85°	70	71	67	64	62	75
90°	4	10	10	10	9	7
95°	16	46	211	105	71	17
105°	44	78	274	435	383	46
115°	68	100	215	443	514	68
125°	91	109	216	355	415	81
135°	112	123	197	304	350	87
145°	135	140	170	233	266	84
155°	153	155	169	186	194	70
165°	166	166	171	178	179	47
175°	175	173	174	174	172	17
180°	173	173	173	173	173	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1260.6	1260.6	1260.6	1260.6	1260.6
2.5°	1269.2	1256.7	1260.6	1258.7	1251.0
5°	1265.4	1252.9	1256.7	1253.8	1250.0
7.5°	1256.7	1245.2	1249.0	1247.1	1244.2
10°	1246.2	1234.6	1238.5	1235.6	1231.7
12.5°	1231.7	1220.2	1225.0	1222.1	1219.2
15°	1215.4	1203.8	1208.7	1207.7	1203.8
17.5°	1195.2	1184.6	1189.4	1187.5	1182.7
20°	1173.1	1162.5	1168.3	1163.5	1160.6
22.5°	1148.1	1136.5	1142.3	1136.5	1133.7
25°	1123.1	1110.6	1115.4	1108.7	1105.8
27.5°	1092.3	1079.8	1084.6	1077.9	1075.0
30°	1059.6	1048.1	1052.9	1046.2	1043.3
32.5°	1025.0	1014.4	1019.2	1012.5	1009.6
35°	988.5	978.8	982.7	977.9	974.0
37.5°	951.0	941.3	946.2	940.4	938.5
40°	910.6	902.9	906.7	901.0	899.0
42.5°	867.3	861.5	866.3	861.5	859.6
45°	825.0	820.2	825.0	820.2	817.3
47.5°	779.8	776.0	781.7	776.0	773.1
50°	733.7	732.7	737.5	732.7	728.8
52.5°	687.5	686.5	691.3	686.5	682.7
55°	640.4	639.4	645.2	639.4	636.5
57.5°	593.3	593.3	597.1	591.3	589.4
60°	545.2	546.2	548.1	543.3	541.3
62.5°	498.1	498.1	499.0	496.2	491.3
65°	449.0	451.0	449.0	445.2	443.3
67.5°	401.0	401.9	399.0	397.1	396.2
70°	352.9	352.9	350.0	349.0	347.1
72.5°	303.8	304.8	301.0	299.0	298.1
75°	254.8	254.8	252.9	251.0	247.1
77.5°	206.7	205.8	204.8	200.0	199.0
80°	157.7	159.6	157.7	152.9	151.9
82.5°	113.5	114.4	111.5	106.7	105.8
85°	70.2	71.2	67.3	63.5	61.5
87.5°	29.8	30.8	26.0	23.1	22.1
90°	3.8	9.6	9.6	9.6	8.7
92.5°	11.5	31.7	93.3	30.8	23.1
95°	16.3	46.2	210.6	104.8	71.2
97.5°	25.0	54.8	263.5	176.9	136.5
100°	31.7	69.2	288.5	256.7	201.9
102.5°	37.5	74.0	282.7	351.9	285.6
105°	44.2	77.9	274.0	434.6	382.7
107.5°	50.0	82.7	263.5	479.8	462.5
110°	56.7	90.4	238.5	489.4	515.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	62.5	96.2	222.1	473.1	525.0
115°	68.3	100.0	215.4	443.3	514.4
117.5°	75.0	102.9	212.5	413.5	486.5
120°	79.8	103.8	214.4	386.5	461.5
122.5°	85.6	105.8	215.4	369.2	435.6
125°	91.3	108.7	216.3	354.8	415.4
127.5°	96.2	109.6	213.5	343.3	396.2
130°	101.0	113.5	208.7	333.7	381.7
132.5°	106.7	117.3	202.9	319.2	368.3
135°	112.5	123.1	197.1	303.8	350.0
137.5°	118.3	127.9	187.5	287.5	331.7
140°	124.0	131.7	181.7	270.2	309.6
142.5°	128.8	136.5	177.9	252.9	288.5
145°	134.6	140.4	170.2	232.7	266.3
147.5°	139.4	144.2	168.3	214.4	242.3
150°	144.2	148.1	168.3	203.8	224.0
152.5°	148.1	151.0	168.3	190.4	207.7
155°	152.9	154.8	169.2	186.5	194.2
157.5°	156.7	157.7	169.2	182.7	189.4
160°	160.6	161.5	170.2	180.8	184.6
162.5°	164.4	164.4	171.2	177.9	180.8
165°	166.3	166.3	171.2	177.9	178.8
167.5°	170.2	168.3	172.1	175.0	176.0
170°	172.1	170.2	173.1	175.0	175.0
172.5°	173.1	173.1	173.1	174.0	173.1
175°	175.0	173.1	174.0	174.0	172.1
177.5°	176.0	173.1	174.0	174.0	169.2
180°	173.1	173.1	173.1	173.1	173.1

(END OF REPORT)