

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: G2-1709-282-7

Luminaire Tested: **CTA-F-5050-40L835-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1709-282-7  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-5050-40L835-UNV-4  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
4000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (336) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

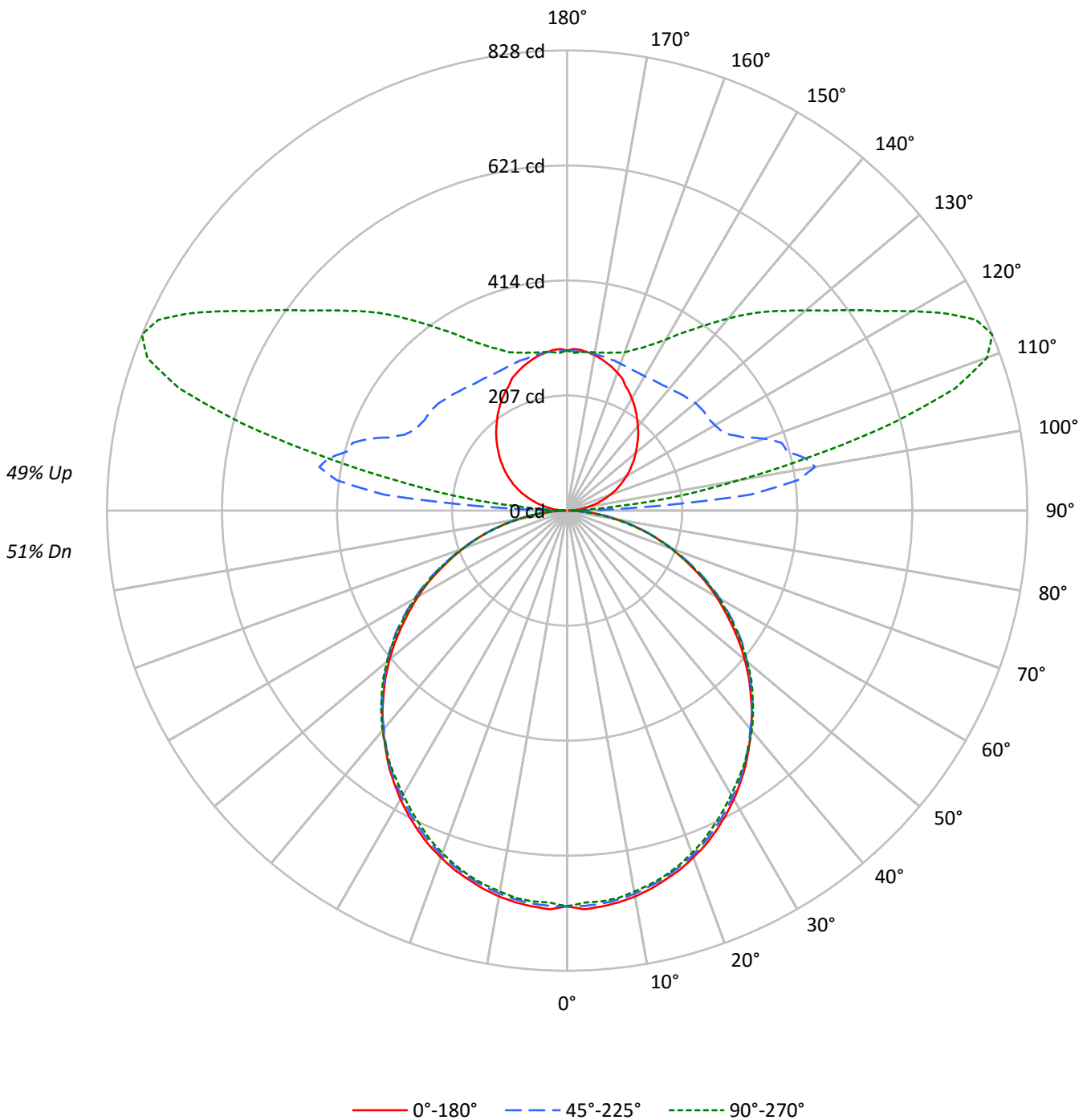
Lumens per Lamp: N/A  
Luminaire Lumens: 3974.0 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 32.7  
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	0
RCR																		
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	93	89	86	90	86	83	80	73	71	69	61	60	58	50	49	48	43
2	89	81	75	70	82	75	70	65	64	60	56	54	51	48	44	42	40	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	39	36	34	30
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	35	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	38	33	30	31	28	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	26	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12

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

	0°	45°	90°
0°	4598	4598	4598
5°	4635	4603	4577
10°	4623	4590	4564
15°	4593	4566	4546
20°	4563	4536	4508
25°	4525	4489	4453
30°	4474	4437	4400
35°	4415	4391	4383
40°	4342	4325	4358
45°	4265	4302	4311
50°	4189	4250	4250
55°	4087	4200	4166
60°	4004	4107	4068
65°	3881	3988	3942
70°	3757	3814	3757
75°	3618	3643	3593
80°	3347	3384	3273
85°	2964	2964	2667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	1.7
10°-20°	192.5	4.8
20°-30°	289.8	7.3
30°-40°	347.8	8.8
40°-50°	361.7	9.1
50°-60°	329.1	8.3
60°-70°	255.2	6.4
70°-80°	153.9	3.9
80°-90°	46.1	1.2
90°-100°	154.6	3.9
100°-110°	394.5	9.9
110°-120°	398.9	10.0
120°-130°	312.0	7.9
130°-140°	246.6	6.2
140°-150°	185.3	4.7
150°-160°	130.8	3.3
160°-170°	80.4	2.0
170°-180°	27.4	0.7
0°-30°	549.7	13.8
0°-40°	897.5	22.6
0°-60°	1588.3	40.0
0°-90°	2043.5	51.4
90°-120°	948.0	23.9
90°-150°	1692.0	42.6
90°-180°	1931.0	48.6
0°-180°	3974.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	715	708	710	708	706	68
15°	687	681	683	682	680	194
25°	635	628	630	627	625	293
35°	560	555	557	555	556	350
45°	467	465	471	472	472	361
55°	363	364	373	369	370	325
65°	254	257	261	258	258	252
75°	145	148	146	145	144	153
85°	40	42	40	39	36	43
90°	3	6	6	7	5	5
95°	19	59	330	148	94	20
105°	60	107	410	688	604	64
115°	103	137	323	697	812	102
125°	142	168	304	527	629	127
135°	180	197	294	439	506	139
145°	216	227	282	360	399	135
155°	248	253	279	308	324	115
165°	275	275	283	291	294	78
175°	290	286	287	287	286	27
180°	288	288	288	288	288	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	712	712	712	712	712
2.5°	718	711	712	711	706
5°	715	708	710	708	706
7.5°	711	704	706	704	703
10°	705	698	700	698	696
12.5°	697	690	692	690	689
15°	687	681	683	682	680
17.5°	677	670	672	672	669
20°	664	658	660	658	656
22.5°	651	644	646	643	642
25°	635	628	630	627	625
27.5°	618	611	613	610	608
30°	600	594	595	592	590
32.5°	580	575	577	573	573
35°	560	555	557	555	556
37.5°	537	533	535	537	536
40°	515	511	513	516	517
42.5°	492	488	492	494	495
45°	467	465	471	472	472
47.5°	443	440	446	448	449
50°	417	415	423	423	423
52.5°	391	390	399	397	397
55°	363	364	373	369	370
57.5°	336	337	345	343	342
60°	310	312	318	315	315
62.5°	283	285	289	287	286
65°	254	257	261	258	258
67.5°	226	230	230	229	228
70°	199	203	202	201	199
72.5°	172	176	173	173	172
75°	145	148	146	145	144
77.5°	117	120	119	117	115
80°	90	93	91	90	88
82.5°	65	67	66	64	62
85°	40	42	40	39	36
87.5°	17	19	17	15	13
90°	3	6	6	7	5
92.5°	11	40	128	37	24
95°	19	59	330	148	94
97.5°	30	72	418	274	205
100°	39	93	453	408	310
102.5°	50	104	438	561	450
105°	60	107	410	688	604
107.5°	71	110	405	752	732
110°	82	118	378	766	804



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	93	127	344	746	828
115°	103	137	323	697	812
117.5°	113	146	312	642	768
120°	123	153	307	597	717
122.5°	133	161	304	556	668
125°	142	168	304	527	629
127.5°	152	175	303	502	591
130°	161	182	301	481	560
132.5°	170	190	297	460	532
135°	180	197	294	439	506
137.5°	189	204	290	418	479
140°	198	212	287	398	451
142.5°	207	220	284	378	424
145°	216	227	282	360	399
147.5°	225	233	281	343	377
150°	233	240	279	329	355
152.5°	241	246	279	318	338
155°	248	253	279	308	324
157.5°	258	261	280	301	313
160°	264	266	281	296	303
162.5°	270	271	283	294	298
165°	275	275	283	291	294
167.5°	280	279	285	289	291
170°	284	282	286	289	289
172.5°	287	285	287	288	288
175°	290	286	287	287	286
177.5°	291	287	287	287	284
180°	288	288	288	288	288

(END OF REPORT)