

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: G2-1709-282-8D

Luminaire Tested: **CTA-F-5050-50L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G2-1709-282-8D
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-50L835-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

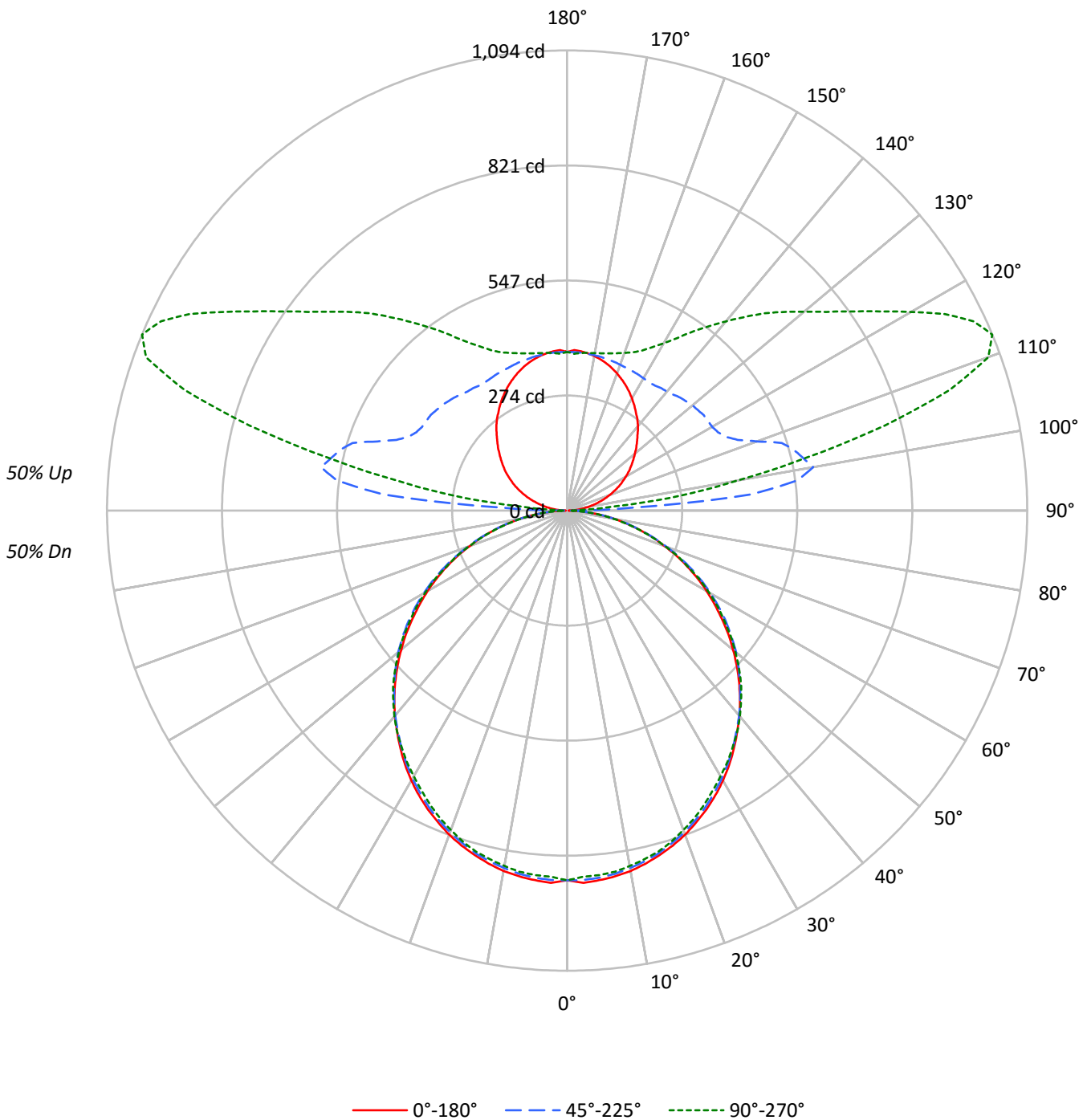
Lumens per Lamp: N/A
Luminaire Lumens: 5051.9 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 41.5
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	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	93	89	85	90	86	83	79	73	70	68	60	59	57	49	48	47	42				
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34				
3	81	71	63	58	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	40	41	37	34	34	31	28	25				
5	68	56	47	41	62	52	44	39	44	38	34	37	33	29	30	27	24	21				
6	62	50	42	36	57	46	39	34	40	34	30	33	29	25	27	24	21	19				
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	22	19	16				
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15				
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13				
10	46	34	27	22	43	32	25	21	28	22	18	23	19	16	20	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5676	5676	5676
5°	5718	5679	5640
10°	5705	5659	5626
15°	5669	5636	5609
20°	5635	5594	5553
25°	5586	5544	5494
30°	5526	5481	5436
35°	5448	5416	5408
40°	5370	5362	5387
45°	5279	5306	5343
50°	5174	5264	5244
55°	5055	5190	5134
60°	4947	5089	5024
65°	4829	4951	4859
70°	4645	4739	4683
75°	4491	4541	4441
80°	4240	4277	4165
85°	3779	3779	3557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	1.6
10°-20°	237.5	4.7
20°-30°	357.6	7.1
30°-40°	429.8	8.5
40°-50°	447.6	8.9
50°-60°	407.3	8.1
60°-70°	317.1	6.3
70°-80°	191.2	3.8
80°-90°	58.4	1.2
90°-100°	201.6	4.0
100°-110°	517.3	10.2
110°-120°	520.9	10.3
120°-130°	407.6	8.1
130°-140°	321.4	6.4
140°-150°	241.0	4.8
150°-160°	171.0	3.4
160°-170°	105.5	2.1
170°-180°	35.9	0.7
0°-30°	678.2	13.4
0°-40°	1108.0	21.9
0°-60°	1962.9	38.9
0°-90°	2529.7	50.1
90°-120°	1239.8	24.5
90°-150°	2209.8	43.7
90°-180°	2522.0	49.9
0°-180°	5051.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	882	874	876	873	870	84
15°	848	840	843	842	839	239
25°	784	776	778	774	771	361
35°	691	685	687	687	686	432
45°	578	575	581	584	585	446
55°	449	450	461	458	456	402
65°	316	321	324	321	318	312
75°	180	182	182	179	178	190
85°	51	53	51	49	48	55
90°	4	7	7	8	6	6
95°	24	80	439	186	116	26
105°	79	131	558	901	782	83
115°	135	176	415	912	1065	133
125°	186	216	396	691	825	166
135°	235	259	380	572	663	182
145°	285	299	363	463	519	179
155°	329	334	366	400	419	151
165°	362	361	372	382	387	102
175°	380	376	377	377	376	36
180°	377	377	377	377	377	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879	879	879	879	879
2.5°	886	877	879	877	871
5°	882	874	876	873	870
7.5°	877	868	871	868	866
10°	870	861	863	861	858
12.5°	860	851	854	852	849
15°	848	840	843	842	839
17.5°	835	827	829	828	825
20°	820	811	814	811	808
22.5°	802	794	797	793	791
25°	784	776	778	774	771
27.5°	763	755	757	753	750
30°	741	733	735	730	729
32.5°	717	710	712	710	709
35°	691	685	687	687	686
37.5°	664	659	661	663	664
40°	637	632	636	639	639
42.5°	608	604	609	612	612
45°	578	575	581	584	585
47.5°	547	545	553	555	554
50°	515	514	524	524	522
52.5°	483	482	493	492	490
55°	449	450	461	458	456
57.5°	416	418	428	424	424
60°	383	386	394	390	389
62.5°	350	353	359	355	355
65°	316	321	324	321	318
67.5°	282	288	288	286	285
70°	246	253	251	249	248
72.5°	214	217	216	214	213
75°	180	182	182	179	178
77.5°	147	149	148	146	144
80°	114	116	115	113	112
82.5°	83	83	82	80	79
85°	51	53	51	49	48
87.5°	24	24	22	21	19
90°	4	7	7	8	6
92.5°	14	50	152	40	26
95°	24	80	439	186	116
97.5°	38	95	553	367	274
100°	52	120	594	540	411
102.5°	65	129	575	735	586
105°	79	131	558	901	782
107.5°	93	137	535	995	954
110°	107	151	480	1017	1065



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	121	164	439	978	1094
115°	135	176	415	912	1065
117.5°	148	187	404	844	1012
120°	161	197	398	782	944
122.5°	174	206	397	732	881
125°	186	216	396	691	825
127.5°	198	225	392	658	776
130°	210	235	389	630	735
132.5°	223	246	384	601	699
135°	235	259	380	572	663
137.5°	248	270	374	544	624
140°	262	280	369	515	587
142.5°	274	290	367	489	552
145°	285	299	363	463	519
147.5°	297	309	362	442	486
150°	308	317	363	425	459
152.5°	319	326	365	409	438
155°	329	334	366	400	419
157.5°	338	342	367	393	407
160°	347	349	369	389	399
162.5°	355	356	371	385	392
165°	362	361	372	382	387
167.5°	368	366	374	380	383
170°	373	370	375	378	380
172.5°	377	374	376	378	378
175°	380	376	377	377	376
177.5°	382	377	377	377	373
180°	377	377	377	377	377

(END OF REPORT)