

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: G2-1709-282-6

Luminaire Tested: **CTA-F-5050-30L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G2-1709-282-6
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-30L835-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

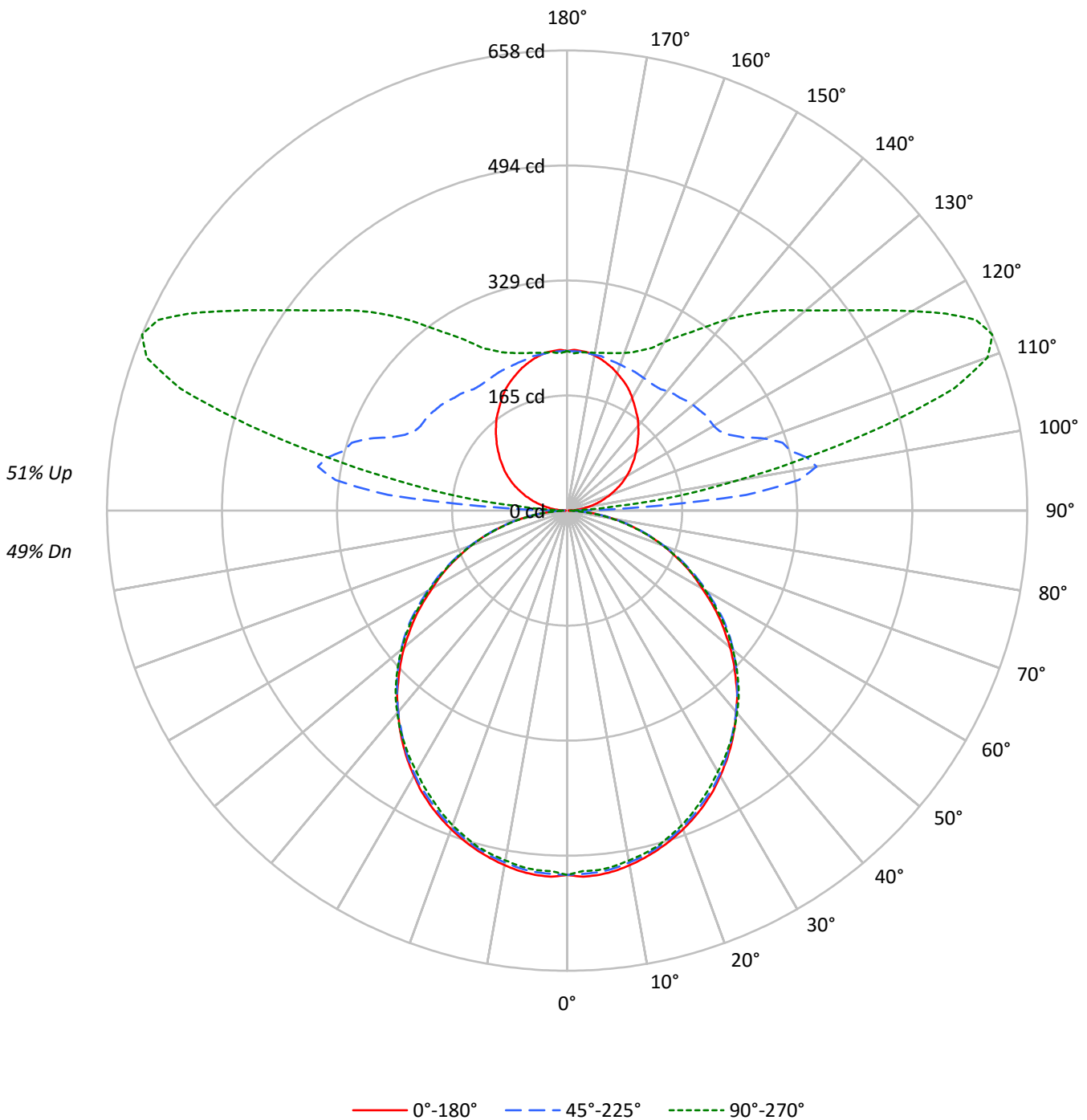
Lumens per Lamp: N/A
Luminaire Lumens: 3019.4 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 24.9
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	97	93	89	85	90	86	82	79	72	70	68	60	58	57	49	48	46	41
2	88	81	75	69	81	75	69	65	63	59	56	52	50	47	43	41	39	34
3	81	71	63	57	74	66	59	54	56	51	46	46	43	39	38	35	33	29
4	74	63	55	48	67	58	51	45	49	44	39	41	37	34	33	30	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	39	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	27	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°	3365	3365	3365
5°	3390	3364	3345
10°	3377	3351	3331
15°	3356	3336	3323
20°	3333	3312	3292
25°	3306	3278	3249
30°	3266	3251	3214
35°	3224	3209	3201
40°	3170	3170	3187
45°	3114	3142	3160
50°	3054	3114	3104
55°	2984	3074	3040
60°	2880	2984	2945
65°	2827	2888	2857
70°	2757	2794	2757
75°	2620	2670	2620
80°	2454	2529	2380
85°	2149	2223	1926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	1.6
10°-20°	140.7	4.7
20°-30°	211.8	7.0
30°-40°	254.3	8.4
40°-50°	264.7	8.8
50°-60°	240.0	7.9
60°-70°	185.6	6.1
70°-80°	112.4	3.7
80°-90°	33.7	1.1
90°-100°	120.5	4.0
100°-110°	313.1	10.4
110°-120°	316.8	10.5
120°-130°	247.5	8.2
130°-140°	195.0	6.5
140°-150°	145.7	4.8
150°-160°	103.2	3.4
160°-170°	63.7	2.1
170°-180°	21.7	0.7
0°-30°	401.7	13.3
0°-40°	656.0	21.7
0°-60°	1160.6	38.4
0°-90°	1492.2	49.4
90°-120°	750.4	24.9
90°-150°	1338.6	44.3
90°-180°	1527.0	50.6
0°-180°	3019.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	521	521	521	521	521	
5°	523	518	519	517	516	50
15°	502	498	499	499	497	142
25°	464	459	460	458	456	214
35°	409	405	407	406	406	256
45°	341	339	344	346	346	263
55°	265	265	273	271	270	236
65°	185	187	189	188	187	183
75°	105	107	107	106	105	112
85°	29	30	30	28	26	32
90°	2	4	4	4	4	3
95°	15	47	257	113	70	16
105°	48	85	330	545	471	50
115°	82	107	256	555	645	81
125°	113	131	240	420	499	101
135°	143	157	228	349	402	111
145°	172	181	218	283	312	108
155°	199	202	221	241	253	92
165°	218	218	224	231	233	61
175°	229	227	228	228	227	22
180°	228	228	228	228	228	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	521	521	521	521	521
2.5°	524	520	520	519	516
5°	523	518	519	517	516
7.5°	520	515	516	514	513
10°	515	510	511	510	508
12.5°	509	505	506	505	503
15°	502	498	499	499	497
17.5°	494	490	491	491	488
20°	485	481	482	481	479
22.5°	475	471	472	470	468
25°	464	459	460	458	456
27.5°	452	447	449	446	444
30°	438	434	436	432	431
32.5°	424	420	422	419	419
35°	409	405	407	406	406
37.5°	393	390	391	392	393
40°	376	374	376	377	378
42.5°	360	357	360	362	363
45°	341	339	344	346	346
47.5°	323	322	327	328	328
50°	304	304	310	310	309
52.5°	284	285	292	291	290
55°	265	265	273	271	270
57.5°	244	244	251	249	248
60°	223	226	231	228	228
62.5°	205	206	210	208	207
65°	185	187	189	188	187
67.5°	165	168	169	167	166
70°	146	148	148	147	146
72.5°	126	128	127	126	125
75°	105	107	107	106	105
77.5°	86	87	87	86	84
80°	66	68	68	66	64
82.5°	48	49	48	47	45
85°	29	30	30	28	26
87.5°	13	14	12	11	10
90°	2	4	4	4	4
92.5°	8	30	95	27	17
95°	15	47	257	113	70
97.5°	23	58	334	211	160
100°	31	74	362	318	244
102.5°	39	82	351	440	351
105°	48	85	330	545	471
107.5°	56	87	323	601	580
110°	65	93	301	613	640



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73	100	273	594	658
115°	82	107	256	555	645
117.5°	90	113	246	513	610
120°	98	120	242	476	570
122.5°	106	126	241	446	533
125°	113	131	240	420	499
127.5°	121	137	237	400	470
130°	128	143	235	383	445
132.5°	136	150	232	366	424
135°	143	157	228	349	402
137.5°	151	163	226	331	379
140°	158	169	223	314	357
142.5°	166	175	219	296	333
145°	172	181	218	283	312
147.5°	179	187	218	270	295
150°	186	192	219	255	278
152.5°	193	197	220	247	262
155°	199	202	221	241	253
157.5°	204	206	221	237	245
160°	209	211	222	235	240
162.5°	214	215	223	233	236
165°	218	218	224	231	233
167.5°	222	221	226	229	231
170°	225	224	226	229	229
172.5°	228	226	227	228	228
175°	229	227	228	228	227
177.5°	230	228	228	228	225
180°	228	228	228	228	228

(END OF REPORT)