

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: G2-1709-282-5

Luminaire Tested: **CTA-F-5050-20L835-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1709-282-5  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-5050-20L835-UNV-4  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
2000 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: 2180.2 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: General Diffuse

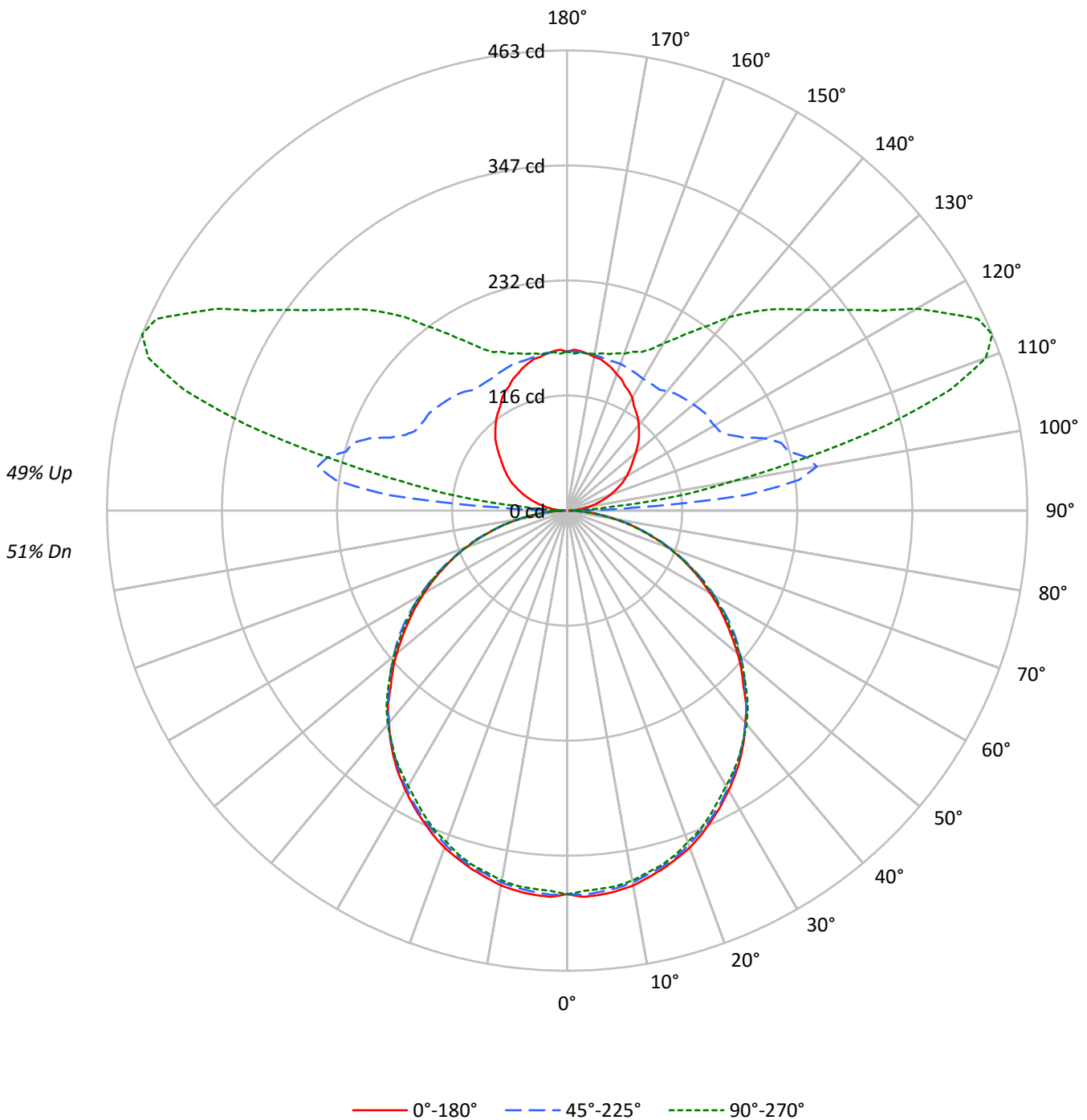
Input Watts (W): 18.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	70	68	61	59	57	50	49	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	25	22	19	17
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	25	21	26	21	18	21	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	16	14	12

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

	0°	45°	90°
0°	2493	2493	2493
5°	2515	2496	2476
10°	2512	2492	2479
15°	2494	2480	2467
20°	2481	2460	2440
25°	2451	2437	2416
30°	2423	2409	2386
35°	2397	2381	2381
40°	2352	2352	2369
45°	2292	2311	2329
50°	2250	2291	2281
55°	2195	2263	2229
60°	2144	2209	2183
65°	2093	2139	2124
70°	2039	2058	2039
75°	1946	1971	1946
80°	1822	1859	1785
85°	1630	1630	1482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.6	1.7
10°-20°	104.4	4.8
20°-30°	157.2	7.2
30°-40°	188.7	8.7
40°-50°	195.5	9.0
50°-60°	177.1	8.1
60°-70°	137.5	6.3
70°-80°	83.3	3.8
80°-90°	24.9	1.1
90°-100°	85.1	3.9
100°-110°	219.5	10.1
110°-120°	223.2	10.2
120°-130°	174.9	8.0
130°-140°	137.8	6.3
140°-150°	102.2	4.7
150°-160°	72.3	3.3
160°-170°	44.6	2.0
170°-180°	15.2	0.7
0°-30°	298.2	13.7
0°-40°	487.0	22.3
0°-60°	859.5	39.4
0°-90°	1105.3	50.7
90°-120°	527.9	24.2
90°-150°	942.8	43.2
90°-180°	1075.0	49.3
0°-180°	2180.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	388	384	385	384	382	37
15°	373	369	371	370	369	105
25°	344	341	342	340	339	159
35°	304	301	302	301	302	190
45°	251	250	253	255	255	194
55°	195	196	201	199	198	174
65°	137	139	140	139	139	136
75°	78	80	79	78	78	83
85°	22	22	22	21	20	23
90°	2	3	3	3	3	3
95°	11	33	181	80	49	11
105°	34	61	230	381	334	36
115°	58	76	180	391	456	57
125°	79	92	170	299	352	71
135°	102	110	162	245	286	78
145°	121	126	153	199	220	76
155°	138	142	155	169	176	64
165°	153	152	157	162	163	43
175°	161	159	160	159	160	15
180°	160	160	160	160	160	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	386	386	386	386	386
2.5°	389	386	387	386	383
5°	388	384	385	384	382
7.5°	386	382	383	382	381
10°	383	379	380	379	378
12.5°	378	374	375	374	373
15°	373	369	371	370	369
17.5°	367	364	365	364	363
20°	361	357	358	357	355
22.5°	353	350	350	349	348
25°	344	341	342	340	339
27.5°	335	332	333	331	329
30°	325	322	323	321	320
32.5°	315	312	313	311	311
35°	304	301	302	301	302
37.5°	292	289	291	291	291
40°	279	277	279	280	281
42.5°	267	265	267	269	269
45°	251	250	253	255	255
47.5°	238	237	241	242	241
50°	224	224	228	228	227
52.5°	209	210	215	214	213
55°	195	196	201	199	198
57.5°	181	182	186	184	184
60°	166	168	171	169	169
62.5°	152	153	156	154	154
65°	137	139	140	139	139
67.5°	123	125	125	123	123
70°	108	110	109	108	108
72.5°	93	95	95	93	93
75°	78	80	79	78	78
77.5°	64	65	65	63	63
80°	49	50	50	49	48
82.5°	35	36	36	34	34
85°	22	22	22	21	20
87.5°	9	10	9	8	7
90°	2	3	3	3	3
92.5°	6	21	68	20	12
95°	11	33	181	80	49
97.5°	17	41	235	150	112
100°	22	52	255	223	169
102.5°	28	58	247	308	246
105°	34	61	230	381	334
107.5°	40	63	226	419	404
110°	46	67	212	427	448



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	52	72	192	417	463
115°	58	76	180	391	456
117.5°	64	80	173	361	430
120°	69	85	171	336	406
122.5°	74	89	170	314	374
125°	79	92	170	299	352
127.5°	84	96	168	286	331
130°	90	101	166	272	314
132.5°	96	106	164	258	300
135°	102	110	162	245	286
137.5°	107	114	160	234	270
140°	112	119	157	221	254
142.5°	117	122	153	209	235
145°	121	126	153	199	220
147.5°	125	131	153	188	206
150°	131	134	153	177	194
152.5°	135	138	154	173	183
155°	138	142	155	169	176
157.5°	143	145	156	167	173
160°	146	148	157	165	168
162.5°	150	150	157	164	166
165°	153	152	157	162	163
167.5°	156	154	158	160	162
170°	157	156	159	161	160
172.5°	159	158	160	160	159
175°	161	159	160	159	160
177.5°	162	160	160	159	158
180°	160	160	160	160	160

(END OF REPORT)