

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: P234602

Luminaire Tested: **CTA-F-5050-20L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (1008) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

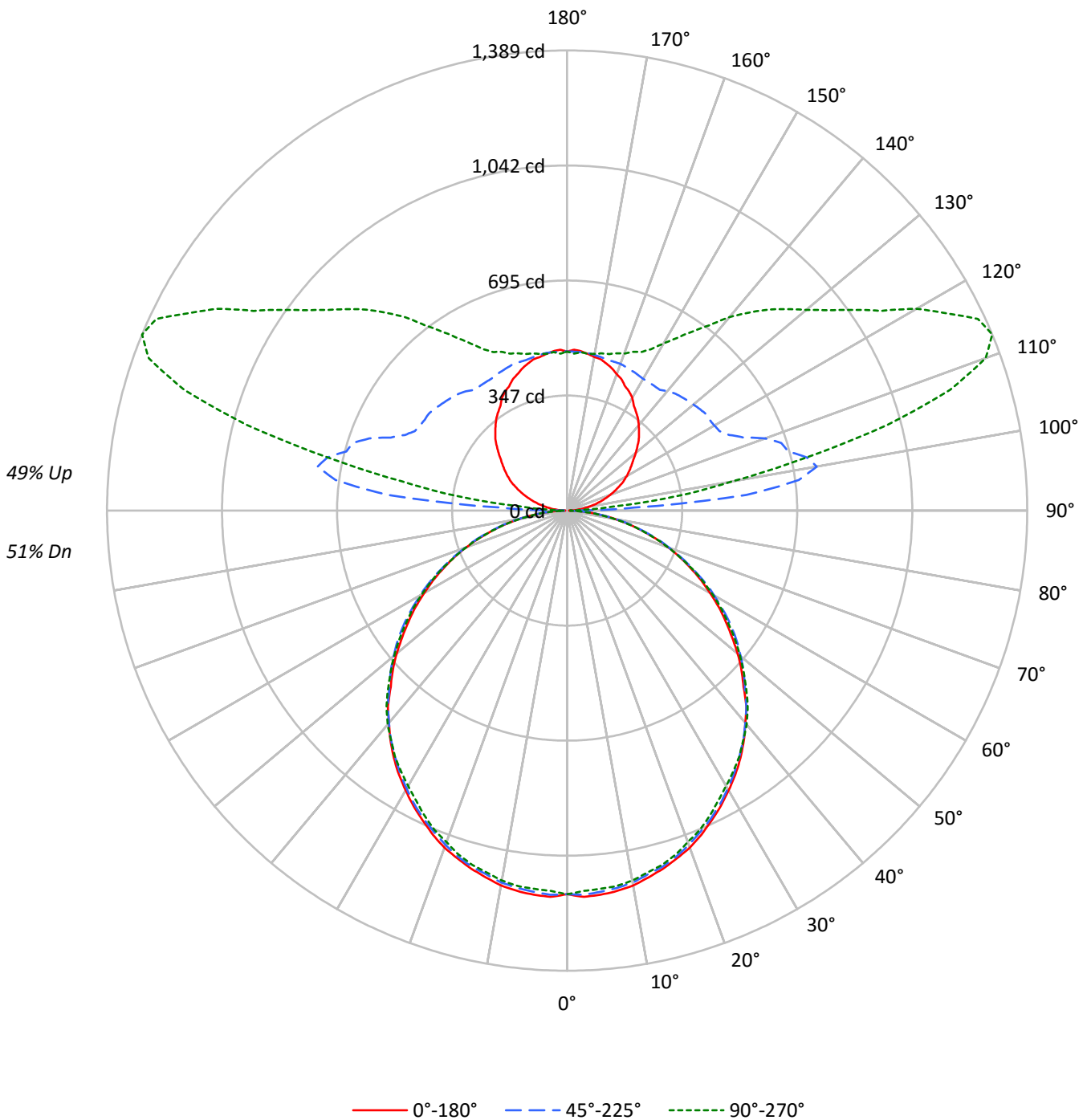
Lumens per Lamp: N/A
Luminaire Lumens: 6540.7 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 52
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°	109.7	1.7
10°-20°	313.3	4.8
20°-30°	471.7	7.2
30°-40°	566.2	8.7
40°-50°	586.4	9.0
50°-60°	531.3	8.1
60°-70°	412.6	6.3
70°-80°	250.0	3.8
80°-90°	74.7	1.1
90°-100°	255.3	3.9
100°-110°	658.6	10.1
110°-120°	669.7	10.2
120°-130°	524.8	8.0
130°-140°	413.5	6.3
140°-150°	306.6	4.7
150°-160°	216.9	3.3
160°-170°	133.9	2.0
170°-180°	45.6	0.7
0°-30°	894.6	13.7
0°-40°	1460.9	22.3
0°-60°	2578.6	39.4
0°-90°	3315.9	50.7
90°-120°	1583.6	24.2
90°-150°	2828.4	43.2
90°-180°	3225.0	49.3
0°-180°	6540.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1164	1152	1155	1152	1146	111
15°	1119	1107	1113	1110	1107	316
25°	1032	1023	1026	1020	1017	476
35°	912	903	906	903	906	570
45°	753	750	759	765	765	583
55°	585	588	603	597	594	523
65°	411	417	420	417	417	408
75°	234	240	237	234	234	248
85°	66	66	66	63	60	70
90°	6	9	9	9	9	8
95°	33	99	543	240	147	34
105°	102	183	690	1143	1002	108
115°	174	228	540	1173	1368	172
125°	237	276	510	897	1056	212
135°	306	330	486	735	858	235
145°	363	378	459	597	660	228
155°	414	426	465	507	528	192
165°	459	456	471	486	489	129
175°	483	477	480	477	480	46
180°	480	480	480	480	480	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158	1158	1158	1158	1158
2.5°	1167	1158	1161	1158	1149
5°	1164	1152	1155	1152	1146
7.5°	1158	1146	1149	1146	1143
10°	1149	1137	1140	1137	1134
12.5°	1134	1122	1125	1122	1119
15°	1119	1107	1113	1110	1107
17.5°	1101	1092	1095	1092	1089
20°	1083	1071	1074	1071	1065
22.5°	1059	1050	1050	1047	1044
25°	1032	1023	1026	1020	1017
27.5°	1005	996	999	993	987
30°	975	966	969	963	960
32.5°	945	936	939	933	933
35°	912	903	906	903	906
37.5°	876	867	873	873	873
40°	837	831	837	840	843
42.5°	801	795	801	807	807
45°	753	750	759	765	765
47.5°	714	711	723	726	723
50°	672	672	684	684	681
52.5°	627	630	645	642	639
55°	585	588	603	597	594
57.5°	543	546	558	552	552
60°	498	504	513	507	507
62.5°	456	459	468	462	462
65°	411	417	420	417	417
67.5°	369	375	375	369	369
70°	324	330	327	324	324
72.5°	279	285	285	279	279
75°	234	240	237	234	234
77.5°	192	195	195	189	189
80°	147	150	150	147	144
82.5°	105	108	108	102	102
85°	66	66	66	63	60
87.5°	27	30	27	24	21
90°	6	9	9	9	9
92.5°	18	63	204	60	36
95°	33	99	543	240	147
97.5°	51	123	705	450	336
100°	66	156	765	669	507
102.5°	84	174	741	924	738
105°	102	183	690	1143	1002
107.5°	120	189	678	1257	1212
110°	138	201	636	1281	1344



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	156	216	576	1251	1389
115°	174	228	540	1173	1368
117.5°	192	240	519	1083	1290
120°	207	255	513	1008	1218
122.5°	222	267	510	942	1122
125°	237	276	510	897	1056
127.5°	252	288	504	858	993
130°	270	303	498	816	942
132.5°	288	318	492	774	900
135°	306	330	486	735	858
137.5°	321	342	480	702	810
140°	336	357	471	663	762
142.5°	351	366	459	627	705
145°	363	378	459	597	660
147.5°	375	393	459	564	618
150°	393	402	459	531	582
152.5°	405	414	462	519	549
155°	414	426	465	507	528
157.5°	429	435	468	501	519
160°	438	444	471	495	504
162.5°	450	450	471	492	498
165°	459	456	471	486	489
167.5°	468	462	474	480	486
170°	471	468	477	483	480
172.5°	477	474	480	480	477
175°	483	477	480	477	480
177.5°	486	480	480	477	474
180°	480	480	480	480	480

(END OF REPORT)