

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: P234626

Luminaire Tested: **CTA-F-5050-50L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (1008) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

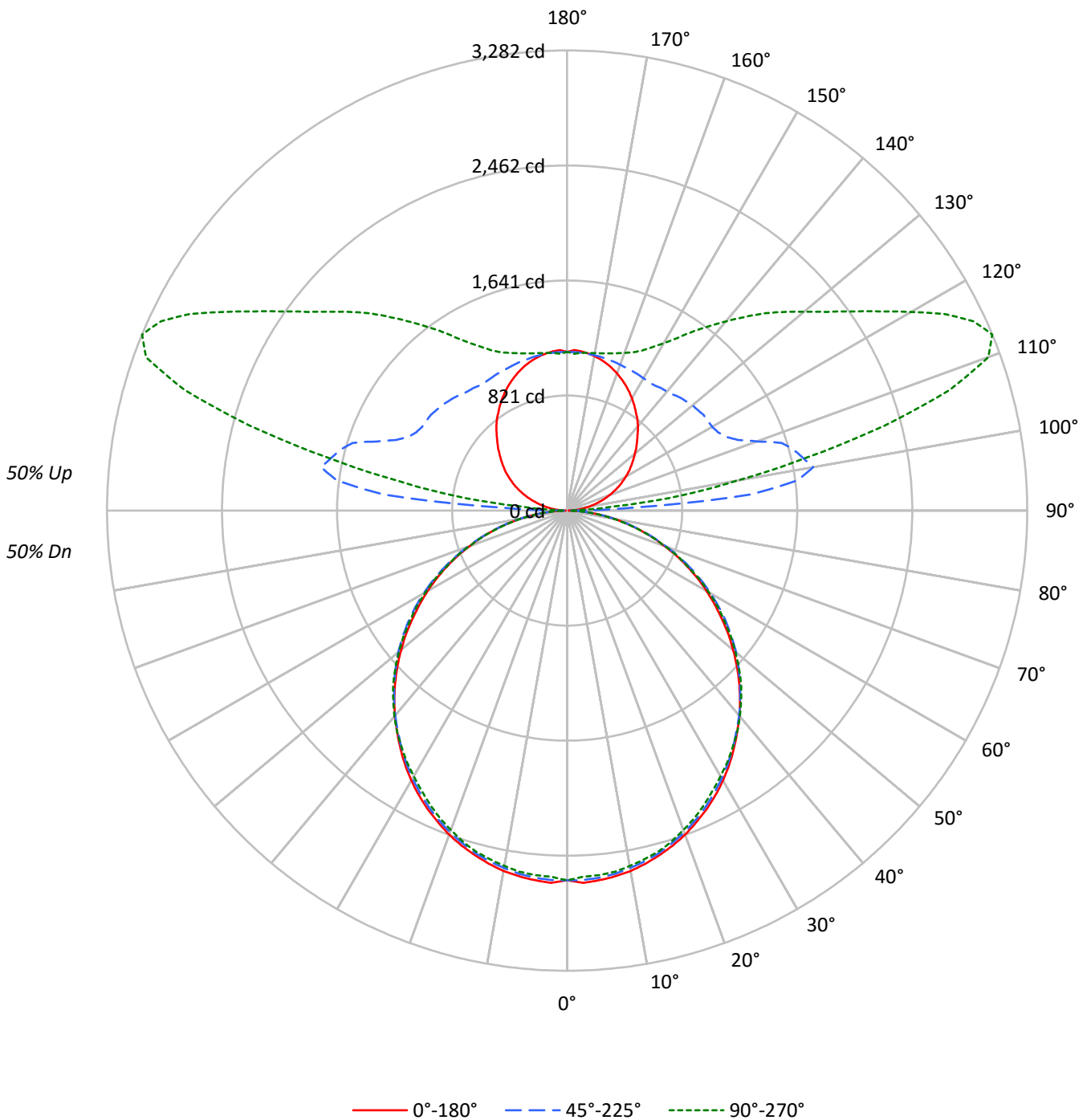
Lumens per Lamp: N/A
Luminaire Lumens: 15155.8 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 119.3
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°	249.3	1.6
10°-20°	712.4	4.7
20°-30°	1072.9	7.1
30°-40°	1289.5	8.5
40°-50°	1342.8	8.9
50°-60°	1221.8	8.1
60°-70°	951.4	6.3
70°-80°	573.6	3.8
80°-90°	175.3	1.2
90°-100°	604.8	4.0
100°-110°	1551.9	10.2
110°-120°	1562.7	10.3
120°-130°	1222.7	8.1
130°-140°	964.3	6.4
140°-150°	722.9	4.8
150°-160°	513.1	3.4
160°-170°	316.6	2.1
170°-180°	107.8	0.7
0°-30°	2034.6	13.4
0°-40°	3324.1	21.9
0°-60°	5888.7	38.9
0°-90°	7589.0	50.1
90°-120°	3719.5	24.5
90°-150°	6629.4	43.7
90°-180°	7567.0	49.9
0°-180°	15155.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2637	2637	2637	2637	2637	
5°	2646	2622	2628	2619	2610	251
15°	2544	2520	2529	2526	2517	718
25°	2352	2328	2334	2322	2313	1083
35°	2073	2055	2061	2061	2058	1297
45°	1734	1725	1743	1752	1755	1337
55°	1347	1350	1383	1374	1368	1206
65°	948	963	972	963	954	937
75°	540	546	546	537	534	571
85°	153	159	153	147	144	166
90°	12	21	21	24	18	19
95°	72	240	1317	558	348	78
105°	237	393	1674	2703	2346	250
115°	405	528	1245	2736	3195	399
125°	558	648	1188	2073	2475	499
135°	705	777	1140	1716	1989	546
145°	855	897	1089	1389	1557	536
155°	987	1002	1098	1200	1257	454
165°	1086	1083	1116	1146	1161	306
175°	1140	1128	1131	1131	1128	108
180°	1131	1131	1131	1131	1131	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2637	2637	2637	2637	2637
2.5°	2658	2631	2637	2631	2613
5°	2646	2622	2628	2619	2610
7.5°	2631	2604	2613	2604	2598
10°	2610	2583	2589	2583	2574
12.5°	2580	2553	2562	2556	2547
15°	2544	2520	2529	2526	2517
17.5°	2505	2481	2487	2484	2475
20°	2460	2433	2442	2433	2424
22.5°	2406	2382	2391	2379	2373
25°	2352	2328	2334	2322	2313
27.5°	2289	2265	2271	2259	2250
30°	2223	2199	2205	2190	2187
32.5°	2151	2130	2136	2130	2127
35°	2073	2055	2061	2061	2058
37.5°	1992	1977	1983	1989	1992
40°	1911	1896	1908	1917	1917
42.5°	1824	1812	1827	1836	1836
45°	1734	1725	1743	1752	1755
47.5°	1641	1635	1659	1665	1662
50°	1545	1542	1572	1572	1566
52.5°	1449	1446	1479	1476	1470
55°	1347	1350	1383	1374	1368
57.5°	1248	1254	1284	1272	1272
60°	1149	1158	1182	1170	1167
62.5°	1050	1059	1077	1065	1065
65°	948	963	972	963	954
67.5°	846	864	864	858	855
70°	738	759	753	747	744
72.5°	642	651	648	642	639
75°	540	546	546	537	534
77.5°	441	447	444	438	432
80°	342	348	345	339	336
82.5°	249	249	246	240	237
85°	153	159	153	147	144
87.5°	72	72	66	63	57
90°	12	21	21	24	18
92.5°	42	150	456	120	78
95°	72	240	1317	558	348
97.5°	114	285	1659	1101	822
100°	156	360	1782	1620	1233
102.5°	195	387	1725	2205	1758
105°	237	393	1674	2703	2346
107.5°	279	411	1605	2985	2862
110°	321	453	1440	3051	3195



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	363	492	1317	2934	3282
115°	405	528	1245	2736	3195
117.5°	444	561	1212	2532	3036
120°	483	591	1194	2346	2832
122.5°	522	618	1191	2196	2643
125°	558	648	1188	2073	2475
127.5°	594	675	1176	1974	2328
130°	630	705	1167	1890	2205
132.5°	669	738	1152	1803	2097
135°	705	777	1140	1716	1989
137.5°	744	810	1122	1632	1872
140°	786	840	1107	1545	1761
142.5°	822	870	1101	1467	1656
145°	855	897	1089	1389	1557
147.5°	891	927	1086	1326	1458
150°	924	951	1089	1275	1377
152.5°	957	978	1095	1227	1314
155°	987	1002	1098	1200	1257
157.5°	1014	1026	1101	1179	1221
160°	1041	1047	1107	1167	1197
162.5°	1065	1068	1113	1155	1176
165°	1086	1083	1116	1146	1161
167.5°	1104	1098	1122	1140	1149
170°	1119	1110	1125	1134	1140
172.5°	1131	1122	1128	1134	1134
175°	1140	1128	1131	1131	1128
177.5°	1146	1131	1131	1131	1119
180°	1131	1131	1131	1131	1131

(END OF REPORT)