

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: P234615

Luminaire Tested: **CTA-F-5050-40L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-40L835-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (672) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

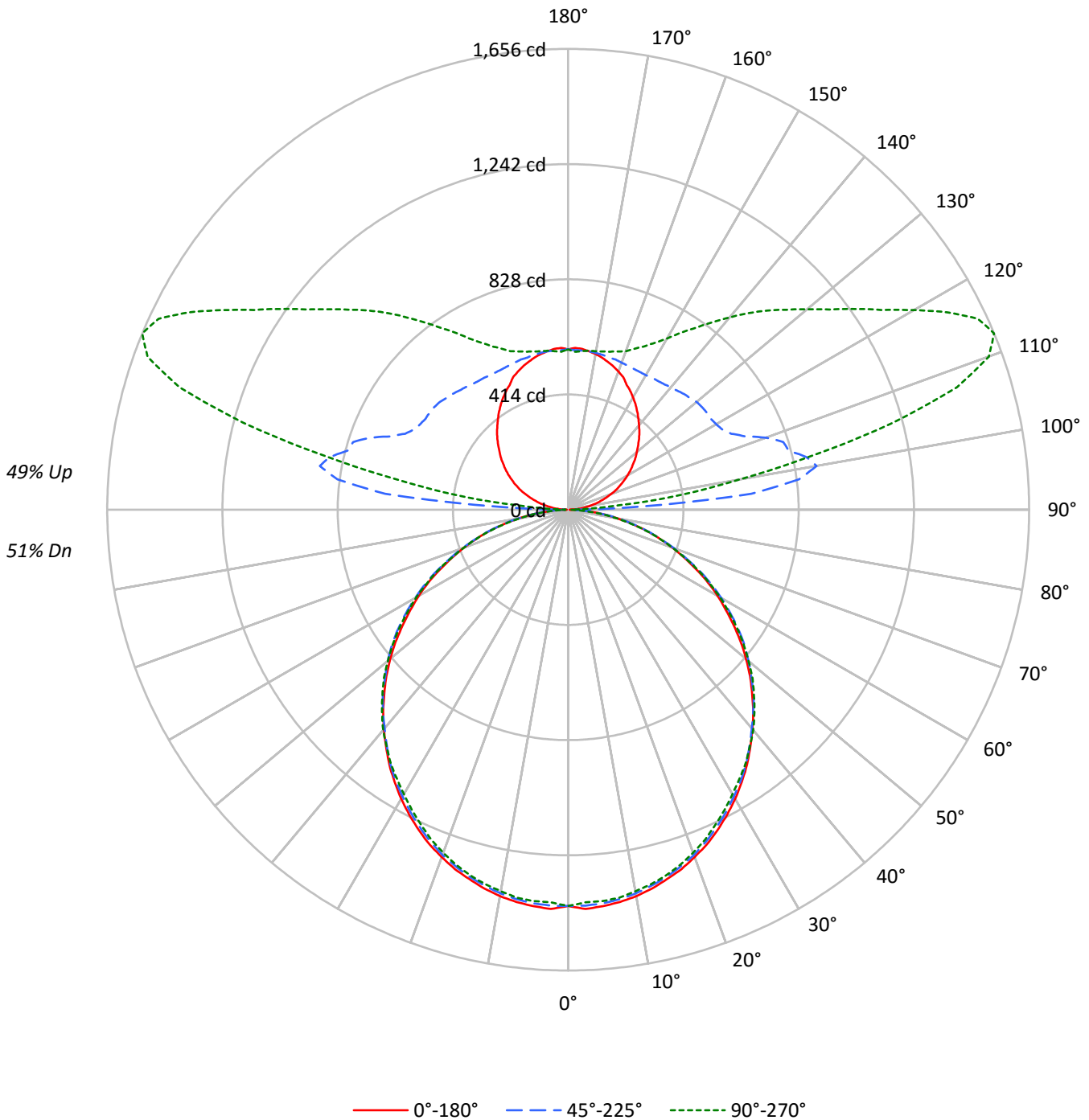
Lumens per Lamp: N/A
Luminaire Lumens: 7948.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.3
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	84	84	84	70	70	70	57	57	57	51				51
1	98	93	89	86	90	86	83	80	73	71	69	61	60	58	50	49	48	43				43
2	89	81	75	70	82	75	70	65	64	60	56	54	51	48	44	42	40	35				35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	39	36	34	30				30
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	35	31	29	25				25
5	68	56	48	42	62	52	45	39	44	39	34	38	33	30	31	28	25	22				22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19				19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	26	22	19	17				17
8	53	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15				15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	13				13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12				12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4598	4598	4598
5°	4635	4603	4577
10°	4623	4590	4564
15°	4593	4566	4546
20°	4563	4536	4508
25°	4525	4489	4453
30°	4474	4437	4400
35°	4415	4391	4383
40°	4342	4325	4358
45°	4265	4302	4311
50°	4189	4250	4250
55°	4087	4200	4166
60°	4004	4107	4068
65°	3881	3988	3942
70°	3757	3814	3757
75°	3618	3643	3593
80°	3347	3384	3273
85°	2964	2964	2667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	1.7
10°-20°	385.0	4.8
20°-30°	579.6	7.3
30°-40°	695.7	8.8
40°-50°	723.4	9.1
50°-60°	658.2	8.3
60°-70°	510.4	6.4
70°-80°	307.7	3.9
80°-90°	92.3	1.2
90°-100°	309.3	3.9
100°-110°	789.0	9.9
110°-120°	797.8	10.0
120°-130°	624.0	7.9
130°-140°	493.3	6.2
140°-150°	370.6	4.7
150°-160°	261.6	3.3
160°-170°	160.7	2.0
170°-180°	54.7	0.7
0°-30°	1099.3	13.8
0°-40°	1795.0	22.6
0°-60°	3176.6	40.0
0°-90°	4087.0	51.4
90°-120°	1896.1	23.9
90°-150°	3383.9	42.6
90°-180°	3861.0	48.6
0°-180°	7948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1430	1416	1420	1416	1412	136
15°	1374	1362	1366	1364	1360	388
25°	1270	1256	1260	1254	1250	585
35°	1120	1110	1114	1110	1112	700
45°	934	930	942	944	944	721
55°	726	728	746	738	740	650
65°	508	514	522	516	516	504
75°	290	296	292	290	288	305
85°	80	84	80	78	72	86
90°	6	12	12	14	10	9
95°	38	118	660	296	188	40
105°	120	214	820	1376	1208	127
115°	206	274	646	1394	1624	204
125°	284	336	608	1054	1258	255
135°	360	394	588	878	1012	277
145°	432	454	564	720	798	270
155°	496	506	558	616	648	230
165°	550	550	566	582	588	155
175°	580	572	574	574	572	55
180°	576	576	576	576	576	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1424	1424	1424	1424	1424
2.5°	1436	1422	1424	1422	1412
5°	1430	1416	1420	1416	1412
7.5°	1422	1408	1412	1408	1406
10°	1410	1396	1400	1396	1392
12.5°	1394	1380	1384	1380	1378
15°	1374	1362	1366	1364	1360
17.5°	1354	1340	1344	1344	1338
20°	1328	1316	1320	1316	1312
22.5°	1302	1288	1292	1286	1284
25°	1270	1256	1260	1254	1250
27.5°	1236	1222	1226	1220	1216
30°	1200	1188	1190	1184	1180
32.5°	1160	1150	1154	1146	1146
35°	1120	1110	1114	1110	1112
37.5°	1074	1066	1070	1074	1072
40°	1030	1022	1026	1032	1034
42.5°	984	976	984	988	990
45°	934	930	942	944	944
47.5°	886	880	892	896	898
50°	834	830	846	846	846
52.5°	782	780	798	794	794
55°	726	728	746	738	740
57.5°	672	674	690	686	684
60°	620	624	636	630	630
62.5°	566	570	578	574	572
65°	508	514	522	516	516
67.5°	452	460	460	458	456
70°	398	406	404	402	398
72.5°	344	352	346	346	344
75°	290	296	292	290	288
77.5°	234	240	238	234	230
80°	180	186	182	180	176
82.5°	130	134	132	128	124
85°	80	84	80	78	72
87.5°	34	38	34	30	26
90°	6	12	12	14	10
92.5°	22	80	256	74	48
95°	38	118	660	296	188
97.5°	60	144	836	548	410
100°	78	186	906	816	620
102.5°	100	208	876	1122	900
105°	120	214	820	1376	1208
107.5°	142	220	810	1504	1464
110°	164	236	756	1532	1608



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	186	254	688	1492	1656
115°	206	274	646	1394	1624
117.5°	226	292	624	1284	1536
120°	246	306	614	1194	1434
122.5°	266	322	608	1112	1336
125°	284	336	608	1054	1258
127.5°	304	350	606	1004	1182
130°	322	364	602	962	1120
132.5°	340	380	594	920	1064
135°	360	394	588	878	1012
137.5°	378	408	580	836	958
140°	396	424	574	796	902
142.5°	414	440	568	756	848
145°	432	454	564	720	798
147.5°	450	466	562	686	754
150°	466	480	558	658	710
152.5°	482	492	558	636	676
155°	496	506	558	616	648
157.5°	516	522	560	602	626
160°	528	532	562	592	606
162.5°	540	542	566	588	596
165°	550	550	566	582	588
167.5°	560	558	570	578	582
170°	568	564	572	578	578
172.5°	574	570	574	576	576
175°	580	572	574	574	572
177.5°	582	574	574	574	568
180°	576	576	576	576	576

(END OF REPORT)