

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: P234610

Luminaire Tested: **CTA-F-5050-30L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 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: 9058.2 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: General Diffuse

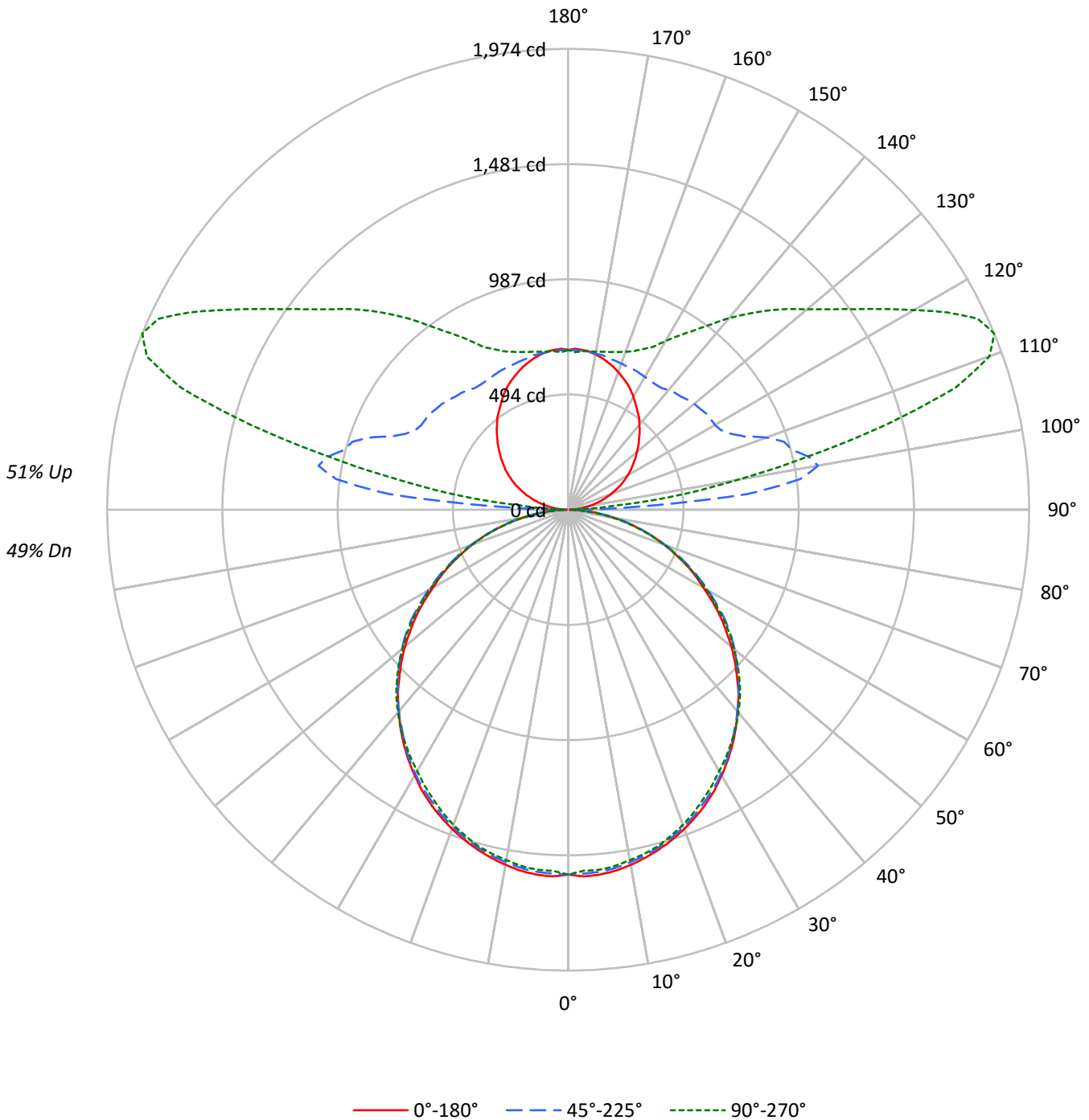
Input Watts (W): 77.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	147.7	1.6
10°-20°	422.1	4.7
20°-30°	635.3	7.0
30°-40°	762.8	8.4
40°-50°	794.0	8.8
50°-60°	719.9	7.9
60°-70°	556.7	6.1
70°-80°	337.2	3.7
80°-90°	101.1	1.1
90°-100°	361.5	4.0
100°-110°	939.2	10.4
110°-120°	950.5	10.5
120°-130°	742.4	8.2
130°-140°	585.1	6.5
140°-150°	437.1	4.8
150°-160°	309.5	3.4
160°-170°	191.0	2.1
170°-180°	65.1	0.7
0°-30°	1205.1	13.3
0°-40°	1967.9	21.7
0°-60°	3481.8	38.4
0°-90°	4476.7	49.4
90°-120°	2251.2	24.9
90°-150°	4015.9	44.3
90°-180°	4581.0	50.6
0°-180°	9058.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1569	1554	1557	1551	1548	149
15°	1506	1494	1497	1497	1491	425
25°	1392	1377	1380	1374	1368	641
35°	1227	1215	1221	1218	1218	767
45°	1023	1017	1032	1038	1038	790
55°	795	795	819	813	810	709
65°	555	561	567	564	561	549
75°	315	321	321	318	315	335
85°	87	90	90	84	78	95
90°	6	12	12	12	12	10
95°	45	141	771	339	210	47
105°	144	255	990	1635	1413	151
115°	246	321	768	1665	1935	242
125°	339	393	720	1260	1497	304
135°	429	471	684	1047	1206	332
145°	516	543	654	849	936	324
155°	597	606	663	723	759	275
165°	654	654	672	693	699	184
175°	687	681	684	684	681	65
180°	684	684	684	684	684	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563	1563	1563	1563	1563
2.5°	1572	1560	1560	1557	1548
5°	1569	1554	1557	1551	1548
7.5°	1560	1545	1548	1542	1539
10°	1545	1530	1533	1530	1524
12.5°	1527	1515	1518	1515	1509
15°	1506	1494	1497	1497	1491
17.5°	1482	1470	1473	1473	1464
20°	1455	1443	1446	1443	1437
22.5°	1425	1413	1416	1410	1404
25°	1392	1377	1380	1374	1368
27.5°	1356	1341	1347	1338	1332
30°	1314	1302	1308	1296	1293
32.5°	1272	1260	1266	1257	1257
35°	1227	1215	1221	1218	1218
37.5°	1179	1170	1173	1176	1179
40°	1128	1122	1128	1131	1134
42.5°	1080	1071	1080	1086	1089
45°	1023	1017	1032	1038	1038
47.5°	969	966	981	984	984
50°	912	912	930	930	927
52.5°	852	855	876	873	870
55°	795	795	819	813	810
57.5°	732	732	753	747	744
60°	669	678	693	684	684
62.5°	615	618	630	624	621
65°	555	561	567	564	561
67.5°	495	504	507	501	498
70°	438	444	444	441	438
72.5°	378	384	381	378	375
75°	315	321	321	318	315
77.5°	258	261	261	258	252
80°	198	204	204	198	192
82.5°	144	147	144	141	135
85°	87	90	90	84	78
87.5°	39	42	36	33	30
90°	6	12	12	12	12
92.5°	24	90	285	81	51
95°	45	141	771	339	210
97.5°	69	174	1002	633	480
100°	93	222	1086	954	732
102.5°	117	246	1053	1320	1053
105°	144	255	990	1635	1413
107.5°	168	261	969	1803	1740
110°	195	279	903	1839	1920



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219	300	819	1782	1974
115°	246	321	768	1665	1935
117.5°	270	339	738	1539	1830
120°	294	360	726	1428	1710
122.5°	318	378	723	1338	1599
125°	339	393	720	1260	1497
127.5°	363	411	711	1200	1410
130°	384	429	705	1149	1335
132.5°	408	450	696	1098	1272
135°	429	471	684	1047	1206
137.5°	453	489	678	993	1137
140°	474	507	669	942	1071
142.5°	498	525	657	888	999
145°	516	543	654	849	936
147.5°	537	561	654	810	885
150°	558	576	657	765	834
152.5°	579	591	660	741	786
155°	597	606	663	723	759
157.5°	612	618	663	711	735
160°	627	633	666	705	720
162.5°	642	645	669	699	708
165°	654	654	672	693	699
167.5°	666	663	678	687	693
170°	675	672	678	687	687
172.5°	684	678	681	684	684
175°	687	681	684	684	681
177.5°	690	684	684	684	675
180°	684	684	684	684	684

(END OF REPORT)