

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: P234607

Luminaire Tested: **CTA-F-5050-30L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234607
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-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 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: 6038.8 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: General Diffuse

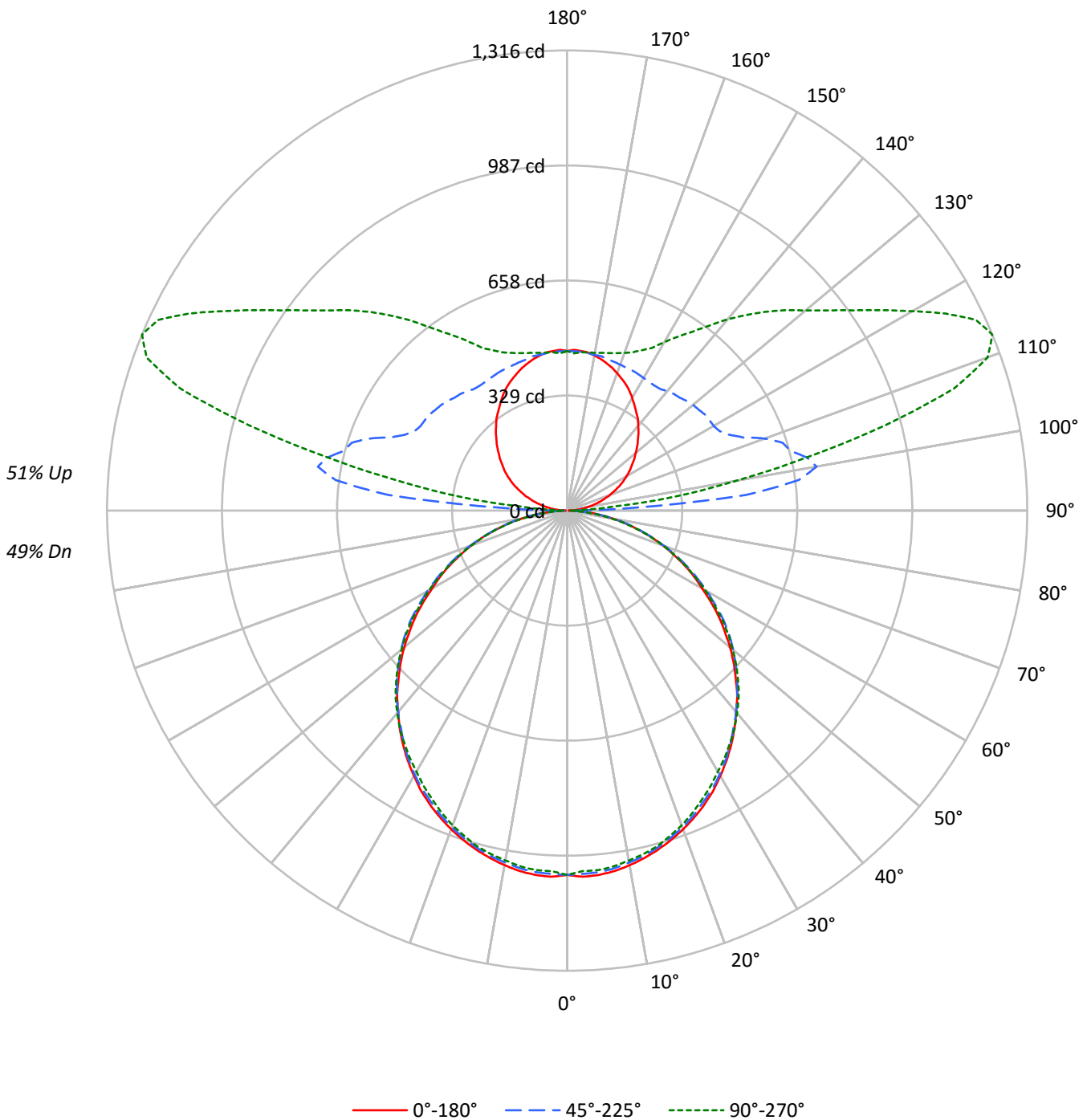
Input Watts (W): 53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	98.5	1.6
10°-20°	281.4	4.7
20°-30°	423.6	7.0
30°-40°	508.5	8.4
40°-50°	529.3	8.8
50°-60°	479.9	7.9
60°-70°	371.1	6.1
70°-80°	224.8	3.7
80°-90°	67.4	1.1
90°-100°	241.0	4.0
100°-110°	626.1	10.4
110°-120°	633.6	10.5
120°-130°	495.0	8.2
130°-140°	390.1	6.5
140°-150°	291.4	4.8
150°-160°	206.3	3.4
160°-170°	127.3	2.1
170°-180°	43.4	0.7
0°-30°	803.4	13.3
0°-40°	1311.9	21.7
0°-60°	2321.2	38.4
0°-90°	2984.5	49.4
90°-120°	1500.8	24.9
90°-150°	2677.3	44.3
90°-180°	3054.0	50.6
0°-180°	6038.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1046	1036	1038	1034	1032	99
15°	1004	996	998	998	994	283
25°	928	918	920	916	912	427
35°	818	810	814	812	812	511
45°	682	678	688	692	692	527
55°	530	530	546	542	540	473
65°	370	374	378	376	374	366
75°	210	214	214	212	210	223
85°	58	60	60	56	52	63
90°	4	8	8	8	8	7
95°	30	94	514	226	140	31
105°	96	170	660	1090	942	101
115°	164	214	512	1110	1290	162
125°	226	262	480	840	998	203
135°	286	314	456	698	804	221
145°	344	362	436	566	624	216
155°	398	404	442	482	506	183
165°	436	436	448	462	466	123
175°	458	454	456	456	454	43
180°	456	456	456	456	456	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042	1042	1042	1042	1042
2.5°	1048	1040	1040	1038	1032
5°	1046	1036	1038	1034	1032
7.5°	1040	1030	1032	1028	1026
10°	1030	1020	1022	1020	1016
12.5°	1018	1010	1012	1010	1006
15°	1004	996	998	998	994
17.5°	988	980	982	982	976
20°	970	962	964	962	958
22.5°	950	942	944	940	936
25°	928	918	920	916	912
27.5°	904	894	898	892	888
30°	876	868	872	864	862
32.5°	848	840	844	838	838
35°	818	810	814	812	812
37.5°	786	780	782	784	786
40°	752	748	752	754	756
42.5°	720	714	720	724	726
45°	682	678	688	692	692
47.5°	646	644	654	656	656
50°	608	608	620	620	618
52.5°	568	570	584	582	580
55°	530	530	546	542	540
57.5°	488	488	502	498	496
60°	446	452	462	456	456
62.5°	410	412	420	416	414
65°	370	374	378	376	374
67.5°	330	336	338	334	332
70°	292	296	296	294	292
72.5°	252	256	254	252	250
75°	210	214	214	212	210
77.5°	172	174	174	172	168
80°	132	136	136	132	128
82.5°	96	98	96	94	90
85°	58	60	60	56	52
87.5°	26	28	24	22	20
90°	4	8	8	8	8
92.5°	16	60	190	54	34
95°	30	94	514	226	140
97.5°	46	116	668	422	320
100°	62	148	724	636	488
102.5°	78	164	702	880	702
105°	96	170	660	1090	942
107.5°	112	174	646	1202	1160
110°	130	186	602	1226	1280



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146	200	546	1188	1316
115°	164	214	512	1110	1290
117.5°	180	226	492	1026	1220
120°	196	240	484	952	1140
122.5°	212	252	482	892	1066
125°	226	262	480	840	998
127.5°	242	274	474	800	940
130°	256	286	470	766	890
132.5°	272	300	464	732	848
135°	286	314	456	698	804
137.5°	302	326	452	662	758
140°	316	338	446	628	714
142.5°	332	350	438	592	666
145°	344	362	436	566	624
147.5°	358	374	436	540	590
150°	372	384	438	510	556
152.5°	386	394	440	494	524
155°	398	404	442	482	506
157.5°	408	412	442	474	490
160°	418	422	444	470	480
162.5°	428	430	446	466	472
165°	436	436	448	462	466
167.5°	444	442	452	458	462
170°	450	448	452	458	458
172.5°	456	452	454	456	456
175°	458	454	456	456	454
177.5°	460	456	456	456	450
180°	456	456	456	456	456

(END OF REPORT)