

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: P234599

Luminaire Tested: **CTA-F-5050-20L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234599
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-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 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: 4360.5 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: General Diffuse

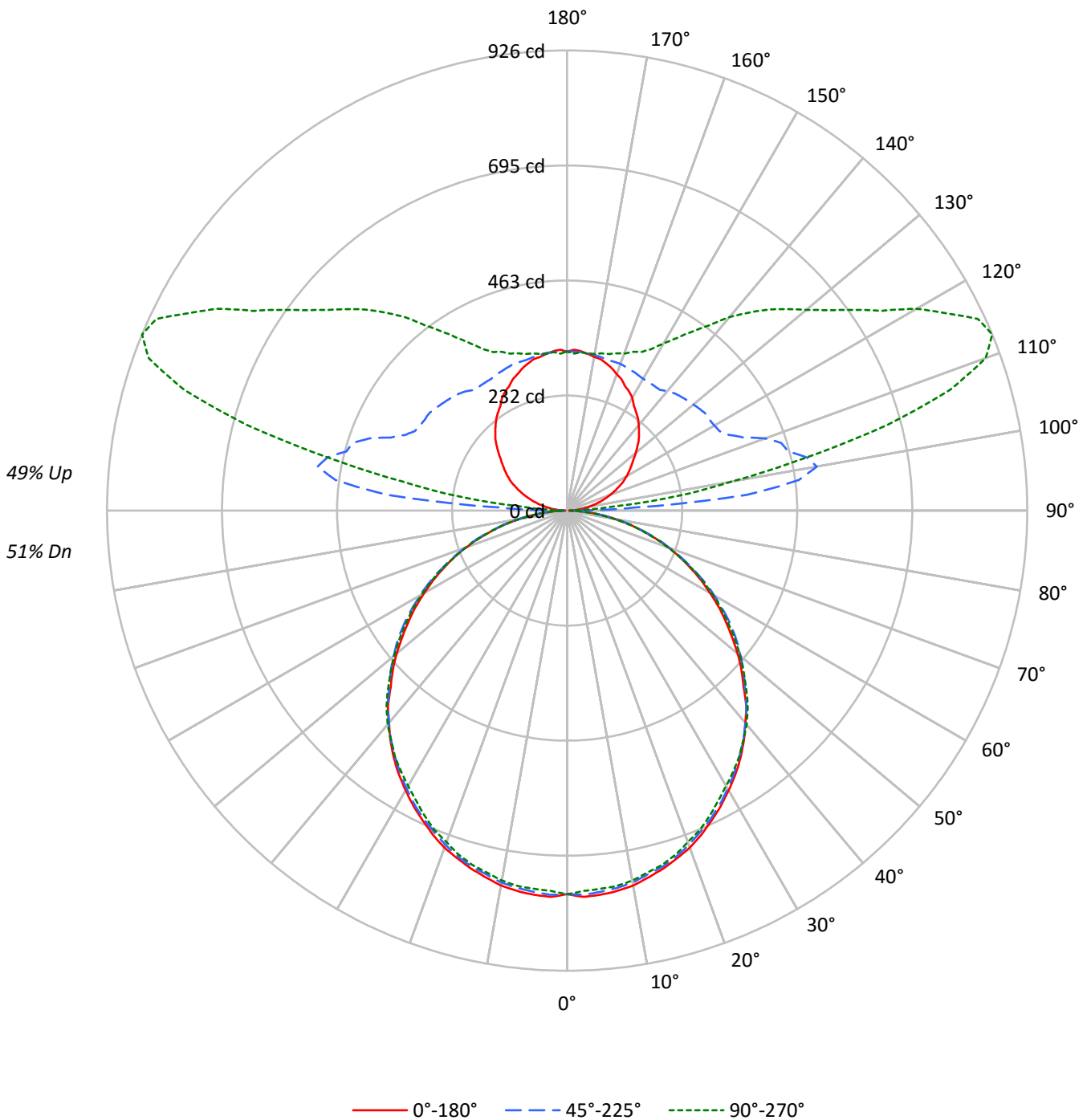
Input Watts (W): 35.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: CTA-F-5050-20L835-UNV-8

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



TEST NUMBER: P234599

CATALOG NUMBER: CTA-F-5050-20L835-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	1.7
10°-20°	208.9	4.8
20°-30°	314.4	7.2
30°-40°	377.5	8.7
40°-50°	391.0	9.0
50°-60°	354.2	8.1
60°-70°	275.1	6.3
70°-80°	166.7	3.8
80°-90°	49.8	1.1
90°-100°	170.2	3.9
100°-110°	439.1	10.1
110°-120°	446.5	10.2
120°-130°	349.8	8.0
130°-140°	275.6	6.3
140°-150°	204.4	4.7
150°-160°	144.6	3.3
160°-170°	89.2	2.0
170°-180°	30.4	0.7
0°-30°	596.4	13.7
0°-40°	973.9	22.3
0°-60°	1719.1	39.4
0°-90°	2210.6	50.7
90°-120°	1055.7	24.2
90°-150°	1885.6	43.2
90°-180°	2150.0	49.3
0°-180°	4360.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	776	768	770	768	764	74
15°	746	738	742	740	738	211
25°	688	682	684	680	678	317
35°	608	602	604	602	604	380
45°	502	500	506	510	510	389
55°	390	392	402	398	396	349
65°	274	278	280	278	278	272
75°	156	160	158	156	156	165
85°	44	44	44	42	40	47
90°	4	6	6	6	6	5
95°	22	66	362	160	98	23
105°	68	122	460	762	668	72
115°	116	152	360	782	912	115
125°	158	184	340	598	704	142
135°	204	220	324	490	572	157
145°	242	252	306	398	440	152
155°	276	284	310	338	352	128
165°	306	304	314	324	326	86
175°	322	318	320	318	320	30
180°	320	320	320	320	320	



TEST NUMBER: P234599

CATALOG NUMBER: CTA-F-5050-20L835-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772	772	772	772	772
2.5°	778	772	774	772	766
5°	776	768	770	768	764
7.5°	772	764	766	764	762
10°	766	758	760	758	756
12.5°	756	748	750	748	746
15°	746	738	742	740	738
17.5°	734	728	730	728	726
20°	722	714	716	714	710
22.5°	706	700	700	698	696
25°	688	682	684	680	678
27.5°	670	664	666	662	658
30°	650	644	646	642	640
32.5°	630	624	626	622	622
35°	608	602	604	602	604
37.5°	584	578	582	582	582
40°	558	554	558	560	562
42.5°	534	530	534	538	538
45°	502	500	506	510	510
47.5°	476	474	482	484	482
50°	448	448	456	456	454
52.5°	418	420	430	428	426
55°	390	392	402	398	396
57.5°	362	364	372	368	368
60°	332	336	342	338	338
62.5°	304	306	312	308	308
65°	274	278	280	278	278
67.5°	246	250	250	246	246
70°	216	220	218	216	216
72.5°	186	190	190	186	186
75°	156	160	158	156	156
77.5°	128	130	130	126	126
80°	98	100	100	98	96
82.5°	70	72	72	68	68
85°	44	44	44	42	40
87.5°	18	20	18	16	14
90°	4	6	6	6	6
92.5°	12	42	136	40	24
95°	22	66	362	160	98
97.5°	34	82	470	300	224
100°	44	104	510	446	338
102.5°	56	116	494	616	492
105°	68	122	460	762	668
107.5°	80	126	452	838	808
110°	92	134	424	854	896



TEST NUMBER: P234599

CATALOG NUMBER: CTA-F-5050-20L835-UNV-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	104	144	384	834	926
115°	116	152	360	782	912
117.5°	128	160	346	722	860
120°	138	170	342	672	812
122.5°	148	178	340	628	748
125°	158	184	340	598	704
127.5°	168	192	336	572	662
130°	180	202	332	544	628
132.5°	192	212	328	516	600
135°	204	220	324	490	572
137.5°	214	228	320	468	540
140°	224	238	314	442	508
142.5°	234	244	306	418	470
145°	242	252	306	398	440
147.5°	250	262	306	376	412
150°	262	268	306	354	388
152.5°	270	276	308	346	366
155°	276	284	310	338	352
157.5°	286	290	312	334	346
160°	292	296	314	330	336
162.5°	300	300	314	328	332
165°	306	304	314	324	326
167.5°	312	308	316	320	324
170°	314	312	318	322	320
172.5°	318	316	320	320	318
175°	322	318	320	318	320
177.5°	324	320	320	318	316
180°	320	320	320	320	320

(END OF REPORT)