

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: P234551

Luminaire Tested: **CTA-F-0100-40L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-17)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-40L835-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (672) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

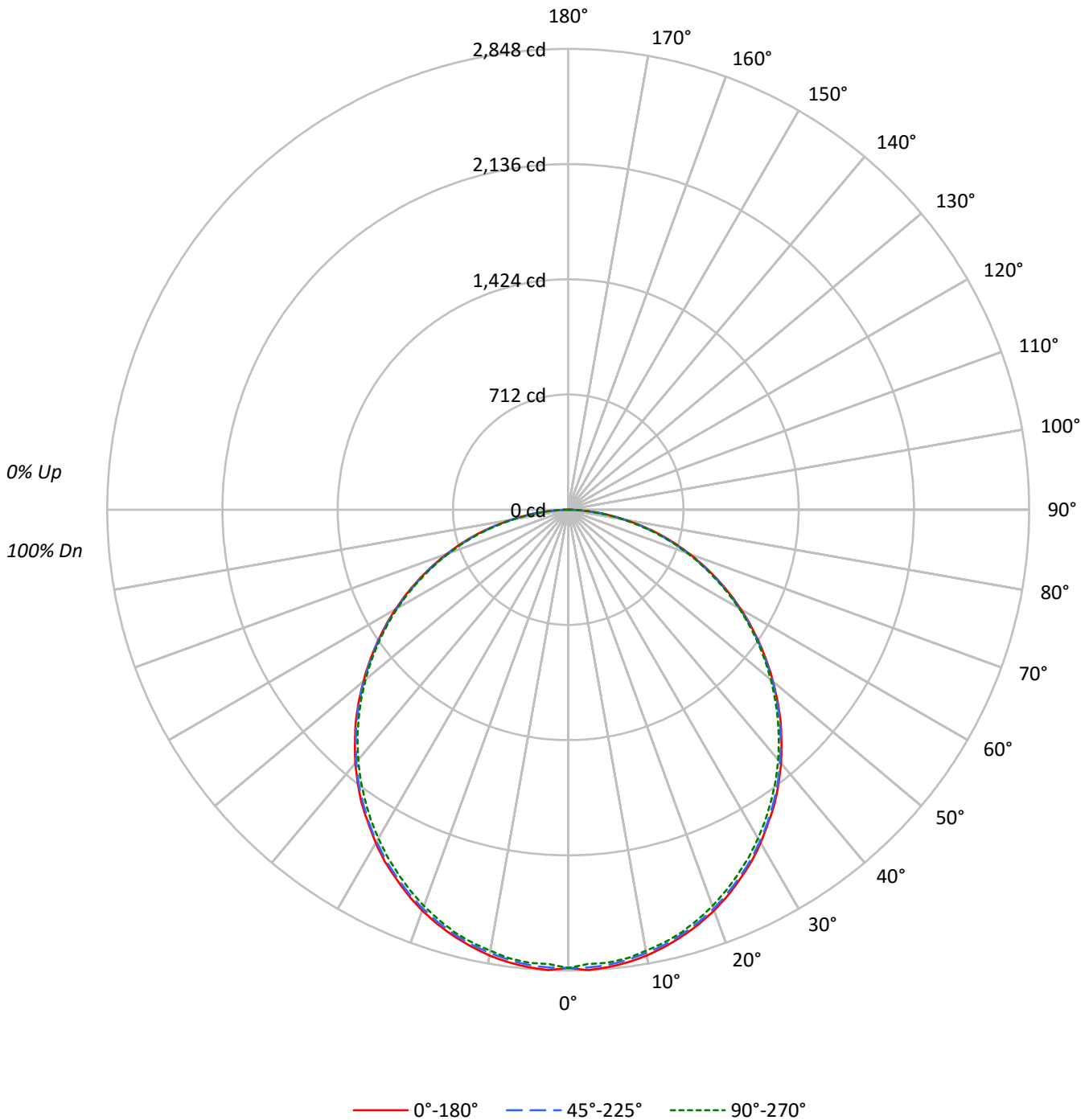
Lumens per Lamp: N/A
Luminaire Lumens: 8032.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 85.9
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



TEST NUMBER: P234551
CATALOG NUMBER: CTA-F-0100-40L835-UNV-8

Luminous Intensity Polar Plot





TEST NUMBER: P234551

CATALOG NUMBER: CTA-F-0100-40L835-UNV-8

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9144	9144	9144
5°	9199	9153	9108
10°	9174	9121	9076
15°	9119	9079	9039
20°	9058	9016	8955
25°	8964	8928	8850
30°	8866	8829	8747
35°	8759	8711	8625
40°	8624	8582	8506
45°	8475	8439	8366
50°	8298	8278	8208
55°	8140	8106	8050
60°	7956	7917	7866
65°	7763	7686	7640
70°	7515	7420	7383
75°	7236	7086	7011
80°	6582	6545	6359
85°	5779	5557	5038



TEST NUMBER: P234551

CATALOG NUMBER: CTA-F-0100-40L835-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	3.3
10°-20°	764.8	9.5
20°-30°	1150.9	14.3
30°-40°	1377.0	17.1
40°-50°	1420.1	17.7
50°-60°	1283.7	16.0
60°-70°	995.9	12.4
70°-80°	600.0	7.5
80°-90°	171.8	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2183.5	27.2
0°-40°	3560.5	44.3
0°-60°	6264.3	78.0
0°-90°	8032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2832	2832	2832	2832	2832	
5°	2838	2812	2824	2816	2810	270
15°	2728	2702	2716	2710	2704	770
25°	2516	2494	2506	2490	2484	1160
35°	2222	2198	2210	2192	2188	1388
45°	1856	1844	1848	1830	1832	1430
55°	1446	1442	1440	1428	1430	1292
65°	1016	1008	1006	1000	1000	1005
75°	580	570	568	566	562	609
85°	156	160	150	142	136	178
90°	0	0	0	0	0	



TEST NUMBER: P234551

CATALOG NUMBER: CTA-F-0100-40L835-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2832	2832	2832	2832	2832
2.5°	2848	2822	2832	2828	2810
5°	2838	2812	2824	2816	2810
7.5°	2822	2796	2806	2800	2796
10°	2798	2770	2782	2776	2768
12.5°	2766	2740	2754	2744	2740
15°	2728	2702	2716	2710	2704
17.5°	2686	2660	2674	2668	2658
20°	2636	2610	2624	2612	2606
22.5°	2580	2554	2568	2554	2548
25°	2516	2494	2506	2490	2484
27.5°	2452	2426	2440	2424	2418
30°	2378	2354	2368	2348	2346
32.5°	2298	2278	2292	2274	2270
35°	2222	2198	2210	2192	2188
37.5°	2134	2114	2128	2106	2106
40°	2046	2030	2036	2016	2018
42.5°	1950	1938	1944	1926	1926
45°	1856	1844	1848	1830	1832
47.5°	1754	1746	1748	1732	1734
50°	1652	1646	1648	1632	1634
52.5°	1548	1544	1542	1528	1532
55°	1446	1442	1440	1428	1430
57.5°	1340	1336	1332	1322	1324
60°	1232	1230	1226	1218	1218
62.5°	1124	1120	1114	1110	1110
65°	1016	1008	1006	1000	1000
67.5°	906	902	896	894	892
70°	796	790	786	784	782
72.5°	690	684	678	674	672
75°	580	570	568	566	562
77.5°	466	462	458	454	448
80°	354	358	352	346	342
82.5°	254	258	248	242	238
85°	156	160	150	142	136
87.5°	68	70	56	50	44
90°	0	0	0	0	0

(END OF REPORT)