

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: G2-1709-282-18

Luminaire Tested: **CTA-F-0100-50L835-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1709-282-18  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-0100-50L835-UNV-4  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
5000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT  
Light Source: (336) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

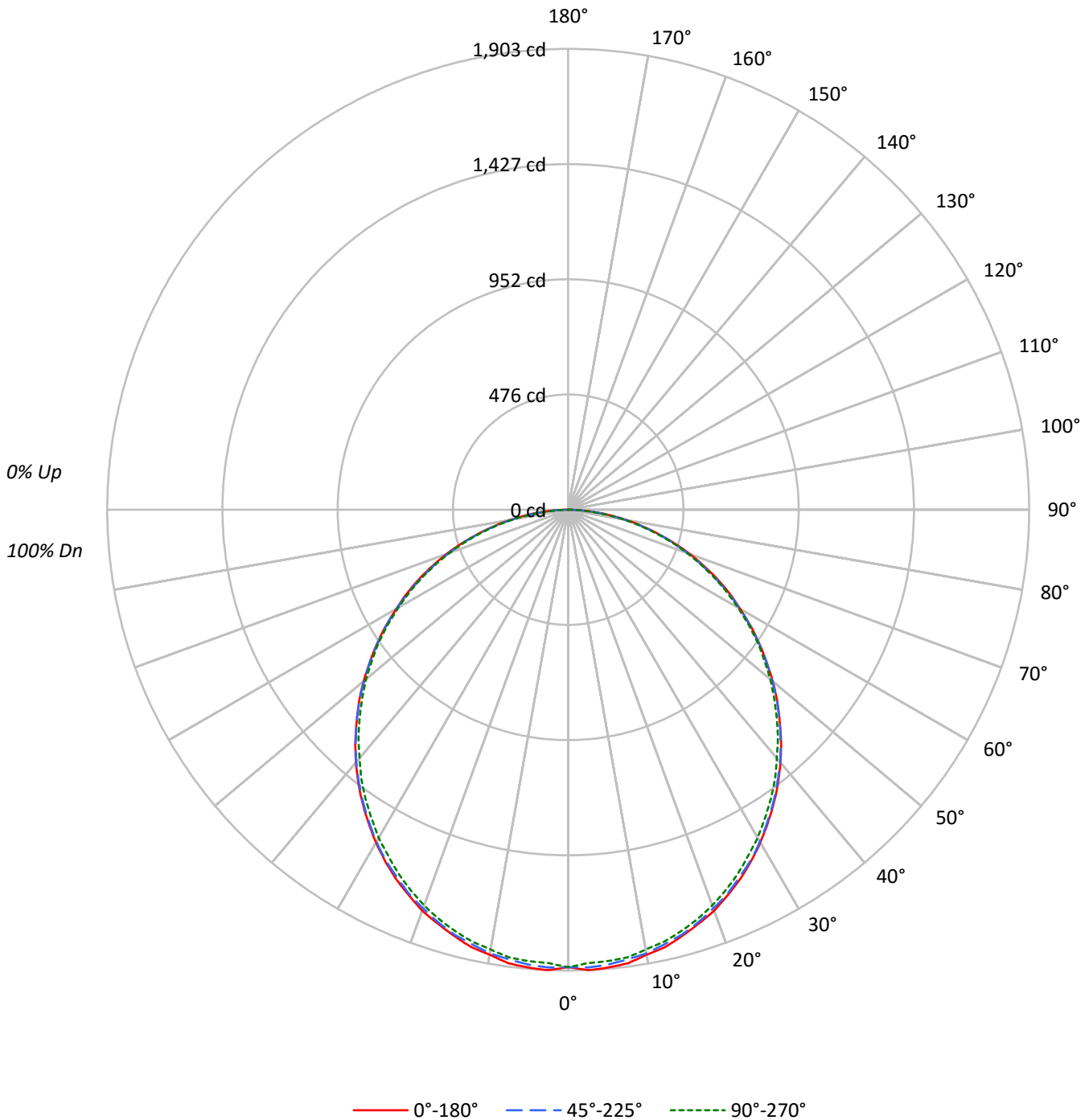
Lumens per Lamp: N/A  
Luminaire Lumens: 5358.4 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.1  
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: G2-1709-282-18  
CATALOG NUMBER: CTA-F-0100-50L835-UNV-4

### Luminous Intensity Polar Plot





TEST NUMBER: G2-1709-282-18

CATALOG NUMBER: CTA-F-0100-50L835-UNV-4

**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°	12199	12199	12199
5°	12304	12226	12129
10°	12236	12197	12092
15°	12181	12141	12048
20°	12109	12040	11951
25°	11985	11928	11814
30°	11834	11804	11663
35°	11668	11636	11494
40°	11490	11473	11296
45°	11279	11270	11124
50°	11071	11041	10941
55°	10842	10809	10741
60°	10591	10565	10462
65°	10406	10253	10177
70°	10083	9913	9818
75°	9606	9506	9332
80°	8963	8777	8516
85°	7854	7335	6965



TEST NUMBER: G2-1709-282-18

CATALOG NUMBER: CTA-F-0100-50L835-UNV-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.6	3.3
10°-20°	510.1	9.5
20°-30°	767.9	14.3
30°-40°	918.2	17.1
40°-50°	947.0	17.7
50°-60°	856.3	16.0
60°-70°	664.7	12.4
70°-80°	400.8	7.5
80°-90°	114.9	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°	1456.5	27.2
0°-40°	2374.7	44.3
0°-60°	4178.0	78.0
0°-90°	5358.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5358.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1898	1872	1886	1877	1871	180
15°	1822	1798	1816	1809	1802	514
25°	1682	1660	1674	1660	1658	775
35°	1480	1464	1476	1461	1458	926
45°	1235	1230	1234	1221	1218	954
55°	963	963	960	953	954	861
65°	681	675	671	669	666	672
75°	385	383	381	377	374	407
85°	106	106	99	94	94	121
90°	0	0	0	0	0	



TEST NUMBER: G2-1709-282-18

CATALOG NUMBER: CTA-F-0100-50L835-UNV-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1889	1889	1889	1889	1889
2.5°	1903	1877	1892	1886	1874
5°	1898	1872	1886	1877	1871
7.5°	1889	1859	1873	1868	1865
10°	1866	1844	1860	1850	1844
12.5°	1850	1821	1838	1831	1827
15°	1822	1798	1816	1809	1802
17.5°	1792	1769	1786	1779	1773
20°	1762	1737	1752	1744	1739
22.5°	1722	1700	1717	1703	1700
25°	1682	1660	1674	1660	1658
27.5°	1636	1617	1632	1618	1610
30°	1587	1569	1583	1566	1564
32.5°	1534	1519	1530	1518	1511
35°	1480	1464	1476	1461	1458
37.5°	1423	1409	1419	1405	1402
40°	1363	1351	1361	1345	1340
42.5°	1301	1292	1298	1283	1281
45°	1235	1230	1234	1221	1218
47.5°	1171	1164	1169	1154	1153
50°	1102	1099	1099	1089	1089
52.5°	1032	1030	1031	1020	1020
55°	963	963	960	953	954
57.5°	892	890	890	882	882
60°	820	820	818	811	810
62.5°	752	749	745	740	739
65°	681	675	671	669	666
67.5°	606	602	597	595	594
70°	534	528	525	521	520
72.5°	459	455	452	449	448
75°	385	383	381	377	374
77.5°	312	310	306	304	301
80°	241	239	236	233	229
82.5°	172	171	166	162	158
85°	106	106	99	94	94
87.5°	47	44	38	33	32
90°	0	0	0	0	0

(END OF REPORT)