

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: P297593

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-31L82765-LD5-UNV-14-T1-W2A-3000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2797.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

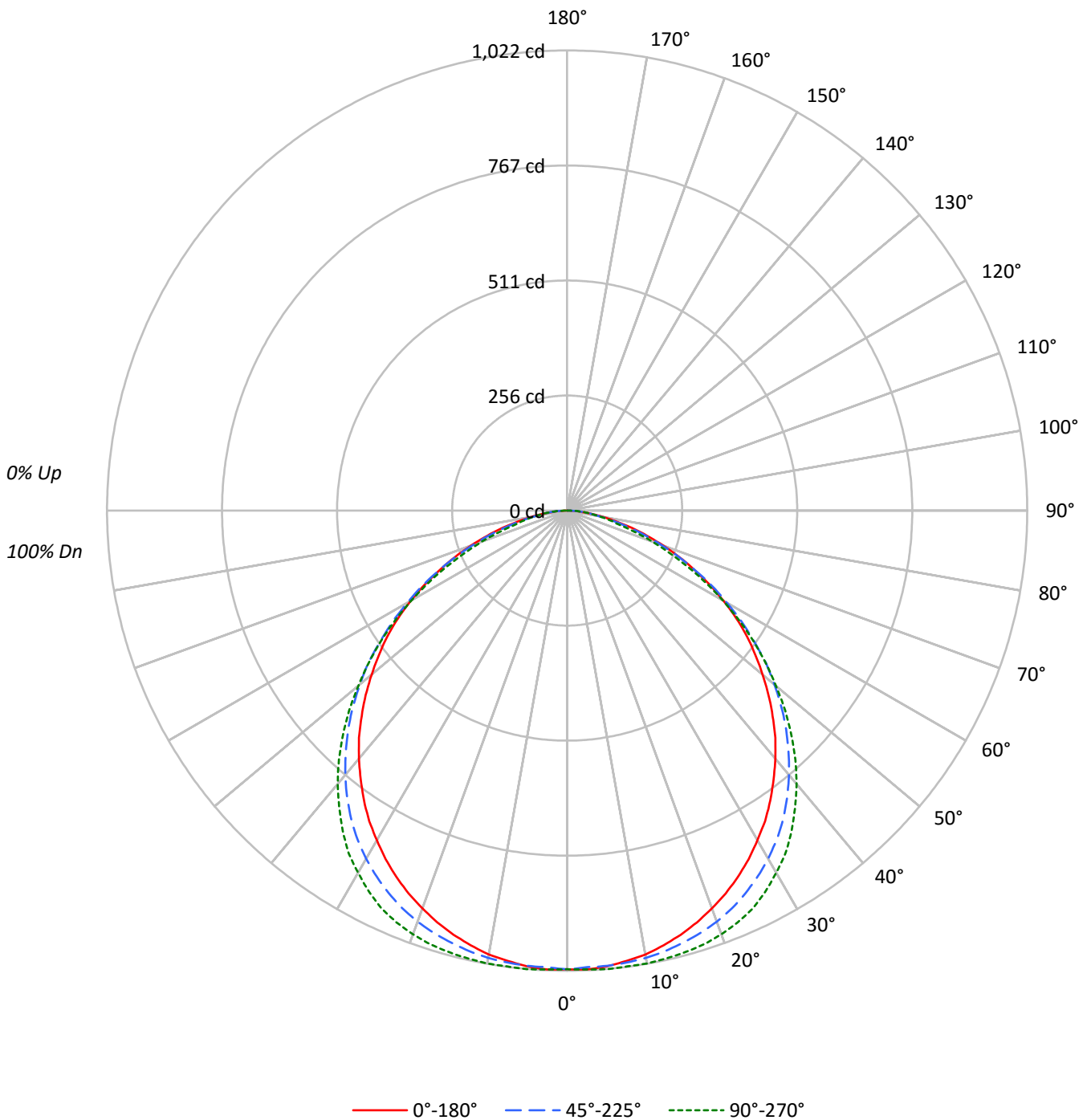
Input Watts (W): 28.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297593

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-14-T1-W2A-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P297593

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-14-T1-W2A-3000K

**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	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2742	2742	2742
5°	2745	2742	2762
10°	2736	2757	2791
15°	2717	2769	2828
20°	2692	2782	2867
25°	2665	2784	2895
30°	2627	2774	2886
35°	2584	2748	2855
40°	2526	2693	2785
45°	2457	2618	2680
50°	2373	2514	2535
55°	2290	2378	2366
60°	2157	2204	2150
65°	1987	1996	1884
70°	1778	1739	1581
75°	1545	1441	1221
80°	1238	1122	1122
85°	886	1041	1081



TEST NUMBER: P297593

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-14-T1-W2A-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.9	3.5
10°-20°	281.2	10.1
20°-30°	431.8	15.4
30°-40°	520.1	18.6
40°-50°	525.6	18.8
50°-60°	448.3	16.0
60°-70°	306.9	11.0
70°-80°	148.1	5.3
80°-90°	38.2	1.4
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°	810.0	29.0
0°-40°	1330.0	47.6
0°-60°	2303.9	82.4
0°-90°	2797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2797.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1016	1016	1015	1021	1022	96
15°	975	983	994	1011	1015	275
25°	898	911	938	965	975	413
35°	787	804	836	863	869	492
45°	646	663	688	704	704	498
55°	488	497	507	509	504	435
65°	312	316	313	302	296	310
75°	149	149	139	122	117	158
85°	29	31	34	35	35	35
90°	0	0	0	0	0	



TEST NUMBER: P297593

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-14-T1-W2A-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1018.8	1018.8	1018.8	1018.8	1018.8
2.5°	1020.0	1018.8	1015.1	1020.0	1020.0
5°	1016.3	1016.3	1015.1	1021.3	1022.5
7.5°	1008.8	1011.3	1012.6	1020.0	1021.3
10°	1001.3	1003.8	1008.8	1018.8	1021.3
12.5°	988.8	993.8	1002.6	1016.3	1018.8
15°	975.1	982.6	993.8	1011.3	1015.1
17.5°	958.9	968.9	983.8	1003.8	1010.1
20°	940.1	951.4	971.4	993.8	1001.3
22.5°	920.2	932.6	956.4	982.6	990.1
25°	897.7	911.4	937.6	965.1	975.1
27.5°	872.7	887.7	916.4	945.1	953.9
30°	845.3	861.5	892.7	921.4	928.9
32.5°	817.8	834.0	866.5	893.9	902.7
35°	786.6	804.1	836.5	862.7	869.0
37.5°	752.9	770.3	802.8	829.0	831.5
40°	719.2	736.6	766.6	790.3	792.8
42.5°	684.2	700.4	727.9	747.9	750.4
45°	645.5	663.0	687.9	704.2	704.2
47.5°	606.8	624.3	645.5	656.7	656.7
50°	566.8	583.1	600.5	606.8	605.5
52.5°	526.9	541.9	556.8	558.1	555.6
55°	488.2	496.9	506.9	509.4	504.4
57.5°	445.7	453.2	459.5	455.7	452.0
60°	400.8	408.3	409.5	403.3	399.5
62.5°	357.1	363.3	363.3	353.3	347.1
65°	312.1	315.9	313.4	302.1	295.9
67.5°	269.7	272.2	267.2	255.9	246.0
70°	226.0	227.2	221.0	207.3	201.0
72.5°	186.0	187.3	179.8	163.6	156.1
75°	148.6	148.6	138.6	122.4	117.4
77.5°	111.1	114.9	103.6	94.9	94.9
80°	79.9	83.7	72.4	73.7	72.4
82.5°	52.4	56.2	52.4	52.4	52.4
85°	28.7	31.2	33.7	35.0	35.0
87.5°	8.7	15.0	16.2	17.5	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)