

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: P297772

Luminaire Tested: **D3X-WG-31L93050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L93050-LD5-UNV-14-T1-W2A-4500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2762.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

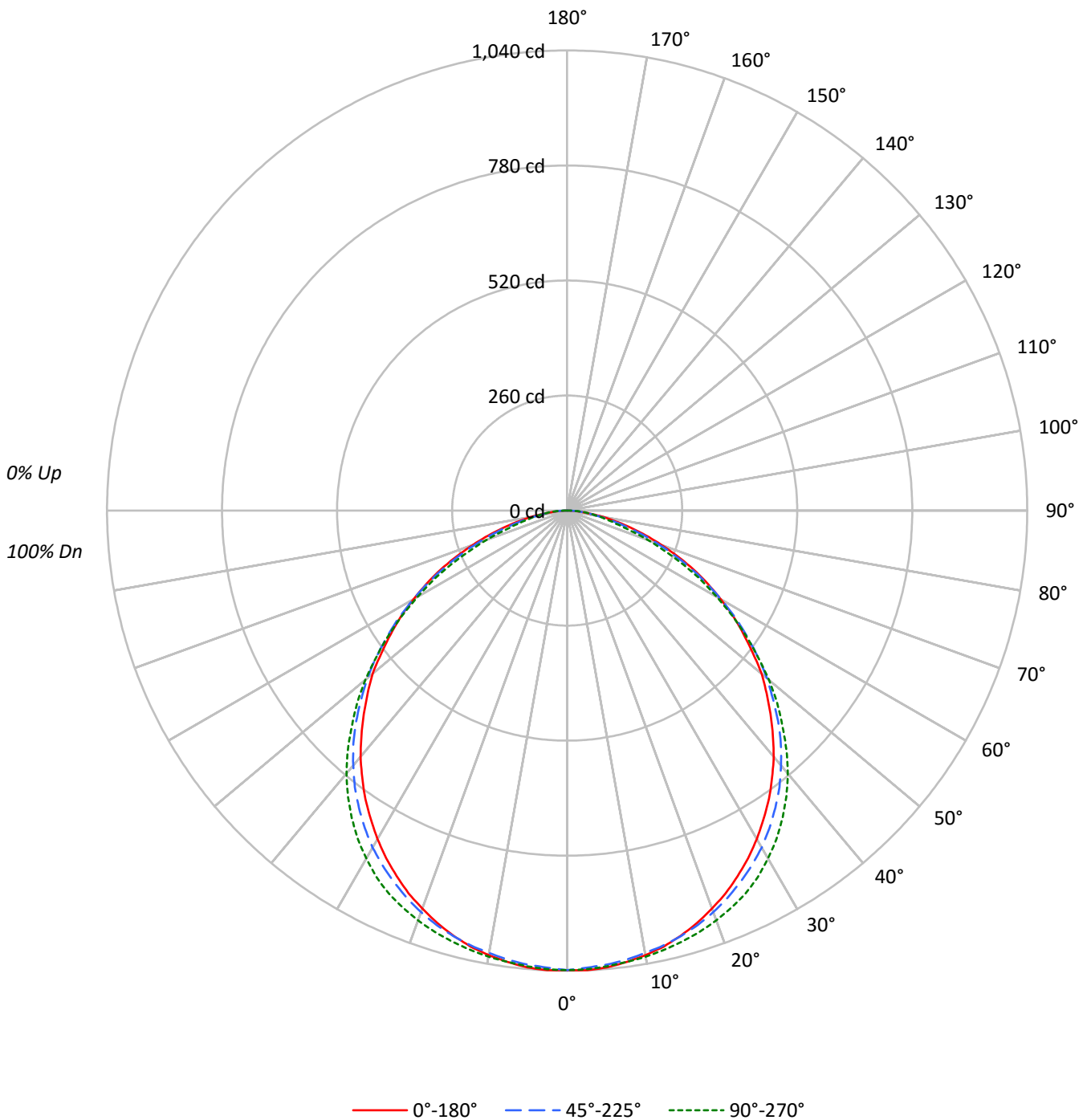
Input Watts (W): 29.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297772

CATALOG NUMBER: D3X-WG-31L93050-LD5-UNV-14-T1-W2A-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P297772

CATALOG NUMBER: D3X-WG-31L93050-LD5-UNV-14-T1-W2A-4500K

**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	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	2795	2795	2795
5°	2799	2783	2793
10°	2788	2774	2798
15°	2770	2773	2808
20°	2741	2766	2822
25°	2706	2750	2835
30°	2664	2733	2821
35°	2613	2694	2787
40°	2551	2642	2725
45°	2473	2567	2618
50°	2404	2467	2492
55°	2283	2329	2318
60°	2160	2160	2101
65°	2006	1958	1848
70°	1778	1700	1535
75°	1541	1399	1181
80°	1263	1091	1072
85°	840	991	1068



TEST NUMBER: P297772

CATALOG NUMBER: D3X-WG-31L93050-LD5-UNV-14-T1-W2A-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.2	3.6
10°-20°	281.9	10.2
20°-30°	428.5	15.5
30°-40°	513.0	18.6
40°-50°	517.5	18.7
50°-60°	440.7	16.0
60°-70°	301.4	10.9
70°-80°	144.3	5.2
80°-90°	36.5	1.3
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°	808.6	29.3
0°-40°	1321.6	47.8
0°-60°	2279.8	82.5
0°-90°	2762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1036	1035	1030	1035	1034	98
15°	994	992	996	1007	1008	280
25°	912	913	926	947	955	420
35°	795	798	820	844	848	497
45°	650	655	674	688	688	502
55°	487	489	496	498	494	436
65°	315	309	308	296	290	311
75°	148	146	135	117	114	158
85°	27	30	32	33	35	35
90°	0	0	0	0	0	



TEST NUMBER: P297772

CATALOG NUMBER: D3X-WG-31L93050-LD5-UNV-14-T1-W2A-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1038.7	1038.7	1038.7	1038.7	1038.7
2.5°	1040.0	1038.7	1033.8	1038.7	1037.5
5°	1036.3	1035.0	1030.1	1035.0	1033.8
7.5°	1028.9	1027.6	1023.9	1028.9	1028.9
10°	1020.2	1017.7	1015.3	1022.7	1023.9
12.5°	1009.1	1006.6	1006.6	1015.3	1016.5
15°	994.3	991.8	995.5	1006.6	1007.9
17.5°	977.0	975.7	981.9	995.5	998.0
20°	957.2	956.0	965.9	981.9	985.6
22.5°	936.2	936.2	947.3	965.9	970.8
25°	911.5	912.8	926.3	947.3	954.7
27.5°	885.6	888.1	904.1	927.6	933.8
30°	857.2	860.9	879.4	901.6	907.8
32.5°	826.3	830.0	851.0	874.5	880.6
35°	795.4	797.9	820.1	843.6	848.5
37.5°	760.8	764.5	788.0	809.0	813.9
40°	726.3	730.0	752.2	772.0	775.7
42.5°	688.0	692.9	715.1	731.2	733.7
45°	649.7	654.6	674.4	688.0	688.0
47.5°	611.4	613.9	631.1	644.7	643.5
50°	574.3	573.1	589.2	595.3	595.3
52.5°	528.6	532.3	543.5	547.2	543.5
55°	486.6	489.1	496.5	497.8	494.0
57.5°	445.9	444.6	450.8	447.1	442.2
60°	401.4	401.4	401.4	397.7	390.3
62.5°	358.2	355.7	354.5	345.8	342.1
65°	315.0	308.8	307.5	296.4	290.3
67.5°	269.3	266.8	260.6	249.5	238.4
70°	226.0	223.6	216.1	202.6	195.1
72.5°	186.5	184.0	174.2	158.1	148.2
75°	148.2	145.7	134.6	117.3	113.6
77.5°	112.4	111.2	100.0	91.4	90.2
80°	81.5	80.3	70.4	70.4	69.2
82.5°	51.9	51.9	49.4	50.6	51.9
85°	27.2	29.6	32.1	33.3	34.6
87.5°	8.6	13.6	16.1	17.3	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)