

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: P297630

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297630  
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-31L93050-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2518.0 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

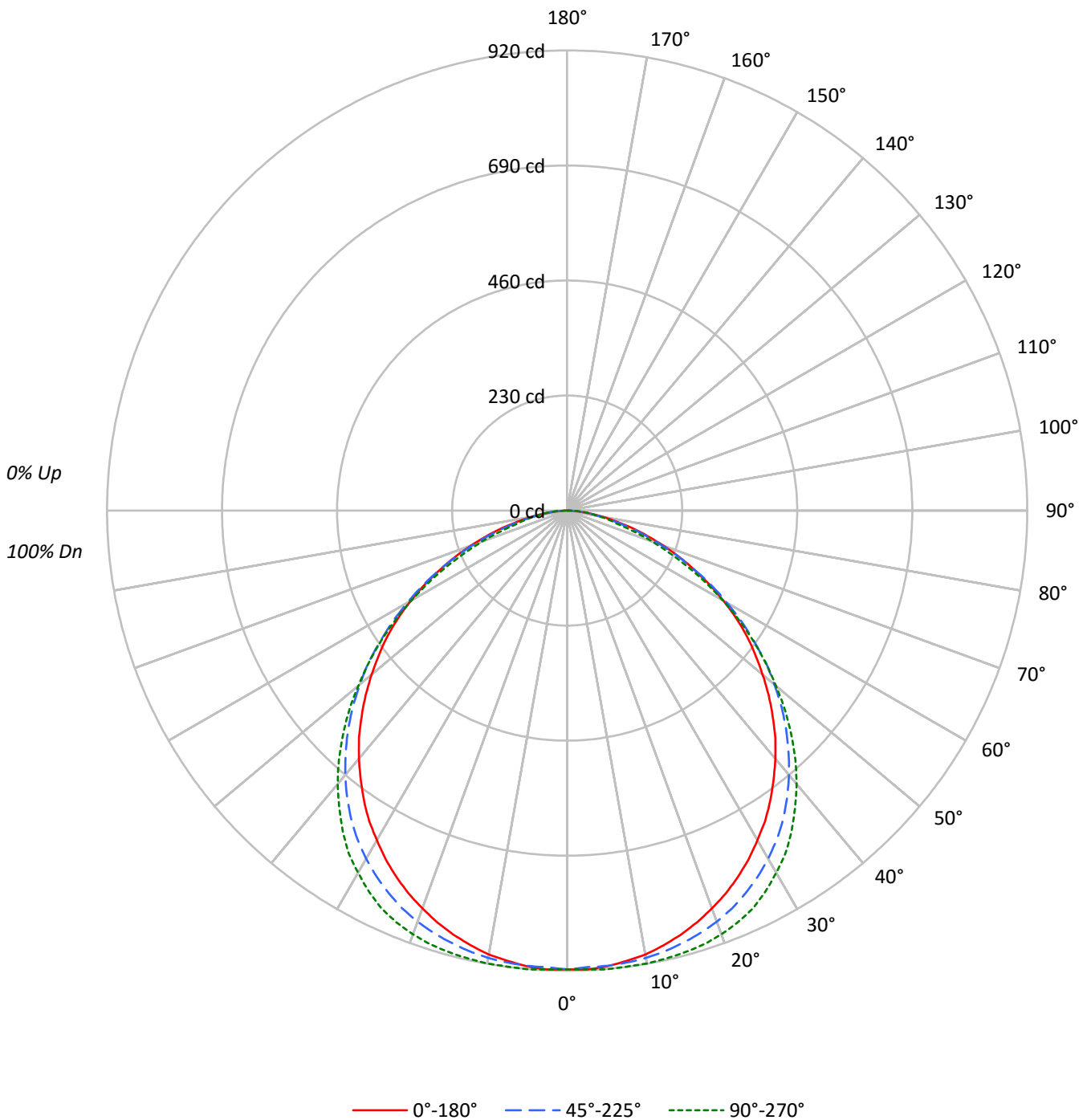
Input Watts (W): 28.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	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°	2468	2468	2468
5°	2471	2468	2487
10°	2463	2482	2512
15°	2445	2493	2546
20°	2424	2504	2581
25°	2399	2506	2606
30°	2364	2497	2598
35°	2326	2474	2570
40°	2274	2424	2507
45°	2211	2357	2412
50°	2136	2263	2282
55°	2062	2141	2130
60°	1942	1984	1936
65°	1789	1796	1696
70°	1600	1565	1424
75°	1391	1298	1099
80°	1114	1010	1010
85°	800	936	973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	3.5
10°-20°	253.2	10.1
20°-30°	388.7	15.4
30°-40°	468.2	18.6
40°-50°	473.1	18.8
50°-60°	403.6	16.0
60°-70°	276.3	11.0
70°-80°	133.3	5.3
80°-90°	34.4	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°	729.2	29.0
0°-40°	1197.4	47.6
0°-60°	2074.1	82.4
0°-90°	2518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	915	915	914	919	920	87
15°	878	885	895	910	914	248
25°	808	820	844	869	878	372
35°	708	724	753	777	782	442
45°	581	597	619	634	634	448
55°	440	447	456	459	454	391
65°	281	284	282	272	266	279
75°	134	134	125	110	106	142
85°	26	28	30	32	32	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	917.2	917.2	917.2	917.2	917.2
2.5°	918.3	917.2	913.8	918.3	918.3
5°	914.9	914.9	913.8	919.4	920.5
7.5°	908.2	910.4	911.6	918.3	919.4
10°	901.4	903.7	908.2	917.2	919.4
12.5°	890.2	894.7	902.6	914.9	917.2
15°	877.8	884.6	894.7	910.4	913.8
17.5°	863.2	872.2	885.7	903.7	909.3
20°	846.4	856.5	874.5	894.7	901.4
22.5°	828.4	839.6	861.0	884.6	891.3
25°	808.1	820.5	844.1	868.8	877.8
27.5°	785.7	799.2	825.0	850.9	858.7
30°	760.9	775.6	803.6	829.5	836.2
32.5°	736.2	750.8	780.0	804.8	812.6
35°	708.1	723.8	753.1	776.7	782.3
37.5°	677.8	693.5	722.7	746.3	748.6
40°	647.4	663.2	690.1	711.5	713.7
42.5°	615.9	630.6	655.3	673.3	675.5
45°	581.1	596.8	619.3	633.9	633.9
47.5°	546.3	562.0	581.1	591.2	591.2
50°	510.3	524.9	540.6	546.3	545.1
52.5°	474.3	487.8	501.3	502.4	500.2
55°	439.5	447.3	456.3	458.6	454.1
57.5°	401.3	408.0	413.6	410.3	406.9
60°	360.8	367.5	368.7	363.0	359.7
62.5°	321.5	327.1	327.1	318.1	312.5
65°	281.0	284.4	282.1	272.0	266.4
67.5°	242.8	245.0	240.5	230.4	221.4
70°	203.4	204.6	198.9	186.6	181.0
72.5°	167.5	168.6	161.9	147.2	140.5
75°	133.8	133.8	124.8	110.2	105.7
77.5°	100.0	103.4	93.3	85.4	85.4
80°	71.9	75.3	65.2	66.3	65.2
82.5°	47.2	50.6	47.2	47.2	47.2
85°	25.9	28.1	30.3	31.5	31.5
87.5°	7.9	13.5	14.6	15.7	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)