

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: P298064

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
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-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2474.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

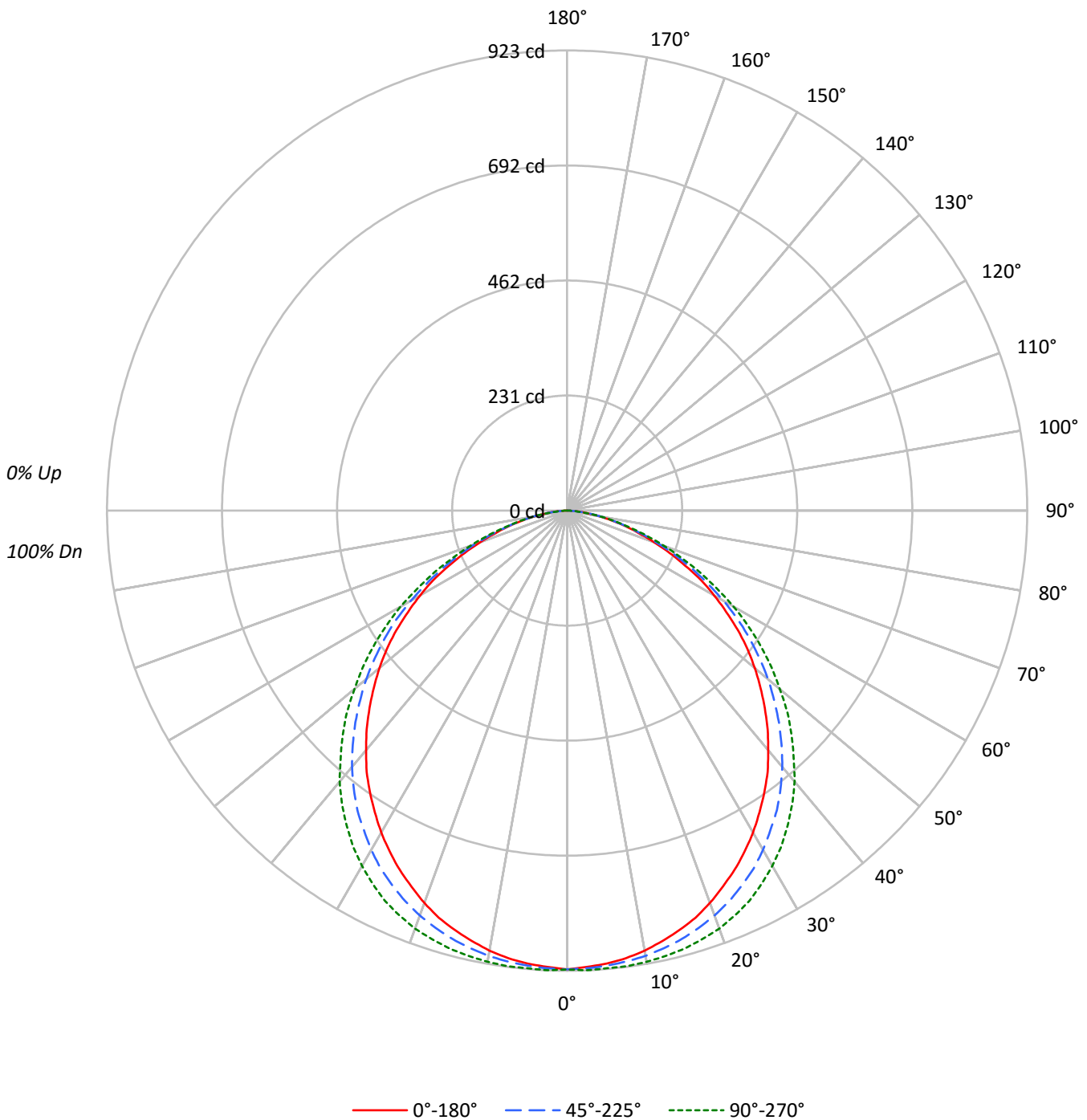
Input Watts (W): 24.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2476	2476	2476
5°	2464	2475	2489
10°	2449	2478	2511
15°	2426	2478	2534
20°	2399	2475	2555
25°	2360	2463	2566
30°	2317	2441	2557
35°	2266	2410	2533
40°	2203	2358	2493
45°	2133	2286	2422
50°	2057	2202	2330
55°	1962	2093	2224
60°	1835	1949	2079
65°	1662	1764	1874
70°	1467	1541	1624
75°	1260	1287	1343
80°	1012	1032	1052
85°	741	658	658



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	3.5
10°-20°	251.2	10.2
20°-30°	382.1	15.4
30°-40°	457.1	18.5
40°-50°	462.1	18.7
50°-60°	397.7	16.1
60°-70°	274.6	11.1
70°-80°	133.1	5.4
80°-90°	28.9	1.2
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°	720.5	29.1
0°-40°	1177.6	47.6
0°-60°	2037.4	82.4
0°-90°	2474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2474.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	912	914	916	920	922	87
15°	871	876	890	903	910	246
25°	795	804	830	855	864	366
35°	690	702	734	760	771	431
45°	561	571	601	626	636	432
55°	418	425	446	466	474	373
65°	261	265	277	289	294	260
75°	121	118	124	128	129	129
85°	24	24	21	21	21	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	920.2	920.2	920.2	920.2	920.2
2.5°	916.2	916.2	918.9	921.5	922.8
5°	912.2	913.5	916.2	920.2	921.5
7.5°	905.5	906.9	912.2	918.9	921.5
10°	896.2	898.9	906.9	914.9	918.9
12.5°	884.2	889.6	898.9	909.5	914.9
15°	870.9	876.2	889.6	902.9	909.5
17.5°	856.3	861.6	877.6	894.9	901.5
20°	837.6	845.6	864.3	884.2	892.2
22.5°	816.3	827.0	848.3	869.6	878.9
25°	795.0	804.3	829.6	854.9	864.3
27.5°	771.0	781.7	809.7	835.0	844.3
30°	745.7	756.4	785.7	813.6	823.0
32.5°	717.8	731.1	759.1	788.3	799.0
35°	689.8	701.8	733.7	760.4	771.0
37.5°	660.5	671.2	703.1	731.1	741.7
40°	627.2	639.2	671.2	699.1	709.8
42.5°	595.3	607.2	636.5	663.2	672.5
45°	560.6	571.3	600.6	625.9	636.5
47.5°	526.0	538.0	563.3	588.6	599.3
50°	491.4	500.7	526.0	550.0	556.6
52.5°	455.4	463.4	486.1	507.4	516.7
55°	418.1	424.8	446.1	466.1	474.1
57.5°	378.2	386.2	406.2	420.8	430.1
60°	340.9	344.9	362.2	376.9	386.2
62.5°	303.6	305.0	318.3	332.9	338.2
65°	261.0	265.0	277.0	289.0	294.3
67.5°	222.4	226.4	235.7	245.0	249.0
70°	186.4	186.4	195.8	202.4	206.4
72.5°	150.5	151.8	158.5	162.5	166.5
75°	121.2	118.5	123.8	127.8	129.2
77.5°	90.6	89.2	93.2	94.5	97.2
80°	65.3	65.3	66.6	67.9	67.9
82.5°	42.6	42.6	43.9	41.3	40.0
85°	24.0	24.0	21.3	21.3	21.3
87.5°	8.0	8.0	8.0	9.3	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)