

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: P298079

Luminaire Tested: **D3X-WD-44L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298079  
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-44L93050-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: 3449.0 lumens  
Efficiency: N/A  
Efficacy: 95.0 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

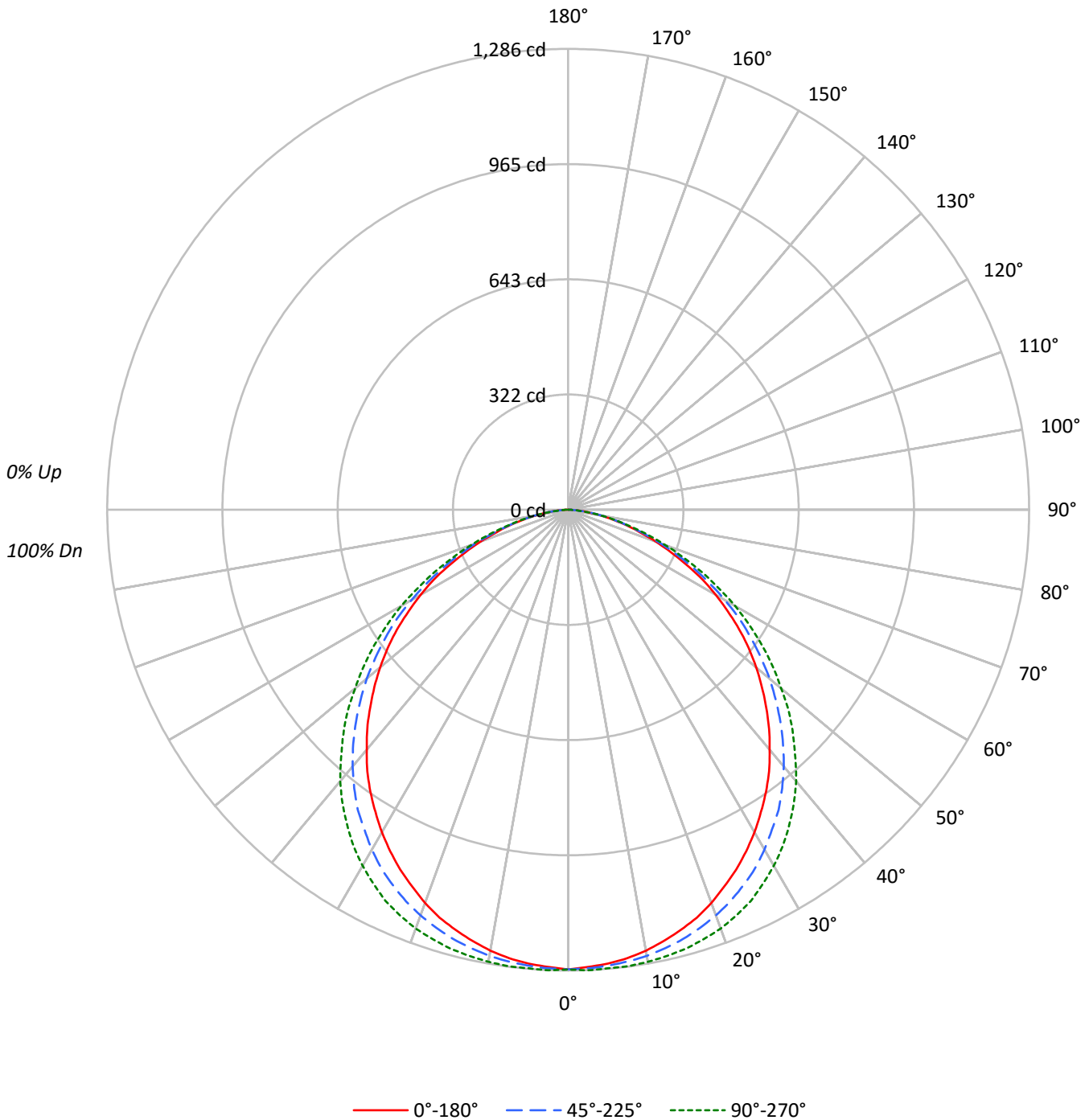
Input Watts (W): 36.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3452	3452	3452
5°	3435	3450	3470
10°	3414	3455	3500
15°	3382	3455	3533
20°	3344	3450	3562
25°	3291	3434	3578
30°	3230	3403	3565
35°	3159	3360	3531
40°	3072	3287	3476
45°	2974	3186	3377
50°	2868	3070	3249
55°	2735	2918	3101
60°	2558	2718	2898
65°	2317	2458	2613
70°	2045	2147	2264
75°	1756	1796	1873
80°	1410	1438	1468
85°	1031	917	917



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.6	3.5
10°-20°	350.2	10.2
20°-30°	532.7	15.4
30°-40°	637.3	18.5
40°-50°	644.3	18.7
50°-60°	554.4	16.1
60°-70°	382.8	11.1
70°-80°	185.6	5.4
80°-90°	40.3	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°	1004.4	29.1
0°-40°	1641.7	47.6
0°-60°	2840.4	82.4
0°-90°	3449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1272	1274	1277	1283	1285	121
15°	1214	1222	1240	1259	1268	342
25°	1108	1121	1157	1192	1205	510
35°	962	978	1023	1060	1075	601
45°	782	796	837	872	887	603
55°	583	592	622	650	661	520
65°	364	369	386	403	410	362
75°	169	165	173	178	180	179
85°	33	33	30	30	30	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1282.8	1282.8	1282.8	1282.8	1282.8
2.5°	1277.3	1277.3	1281.0	1284.7	1286.5
5°	1271.7	1273.5	1277.3	1282.8	1284.7
7.5°	1262.4	1264.3	1271.7	1281.0	1284.7
10°	1249.4	1253.1	1264.3	1275.4	1281.0
12.5°	1232.7	1240.1	1253.1	1268.0	1275.4
15°	1214.1	1221.6	1240.1	1258.7	1268.0
17.5°	1193.7	1201.1	1223.4	1247.6	1256.8
20°	1167.7	1178.9	1204.9	1232.7	1243.8
22.5°	1138.0	1152.9	1182.6	1212.3	1225.3
25°	1108.3	1121.3	1156.6	1191.9	1204.9
27.5°	1074.9	1089.8	1128.7	1164.0	1177.0
30°	1039.6	1054.5	1095.3	1134.3	1147.3
32.5°	1000.6	1019.2	1058.2	1099.0	1113.9
35°	961.7	978.4	1022.9	1060.0	1074.9
37.5°	920.8	935.7	980.2	1019.2	1034.1
40°	874.4	891.1	935.7	974.7	989.5
42.5°	829.8	846.6	887.4	924.5	937.5
45°	781.6	796.4	837.3	872.5	887.4
47.5°	733.3	750.0	785.3	820.6	835.4
50°	685.0	698.0	733.3	766.7	776.0
52.5°	634.9	646.1	677.6	707.3	720.3
55°	582.9	592.2	621.9	649.8	660.9
57.5°	527.2	538.4	566.2	586.6	599.6
60°	475.3	480.8	505.0	525.4	538.4
62.5°	423.3	425.1	443.7	464.1	471.5
65°	363.9	369.4	386.1	402.9	410.3
67.5°	310.0	315.6	328.6	341.6	347.2
70°	259.9	259.9	272.9	282.2	287.8
72.5°	209.8	211.6	220.9	226.5	232.1
75°	168.9	165.2	172.7	178.2	180.1
77.5°	126.2	124.4	130.0	131.8	135.5
80°	91.0	91.0	92.8	94.7	94.7
82.5°	59.4	59.4	61.3	57.6	55.7
85°	33.4	33.4	29.7	29.7	29.7
87.5°	11.1	11.1	11.1	13.0	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)