

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: P298415

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-44L93050-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3727.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

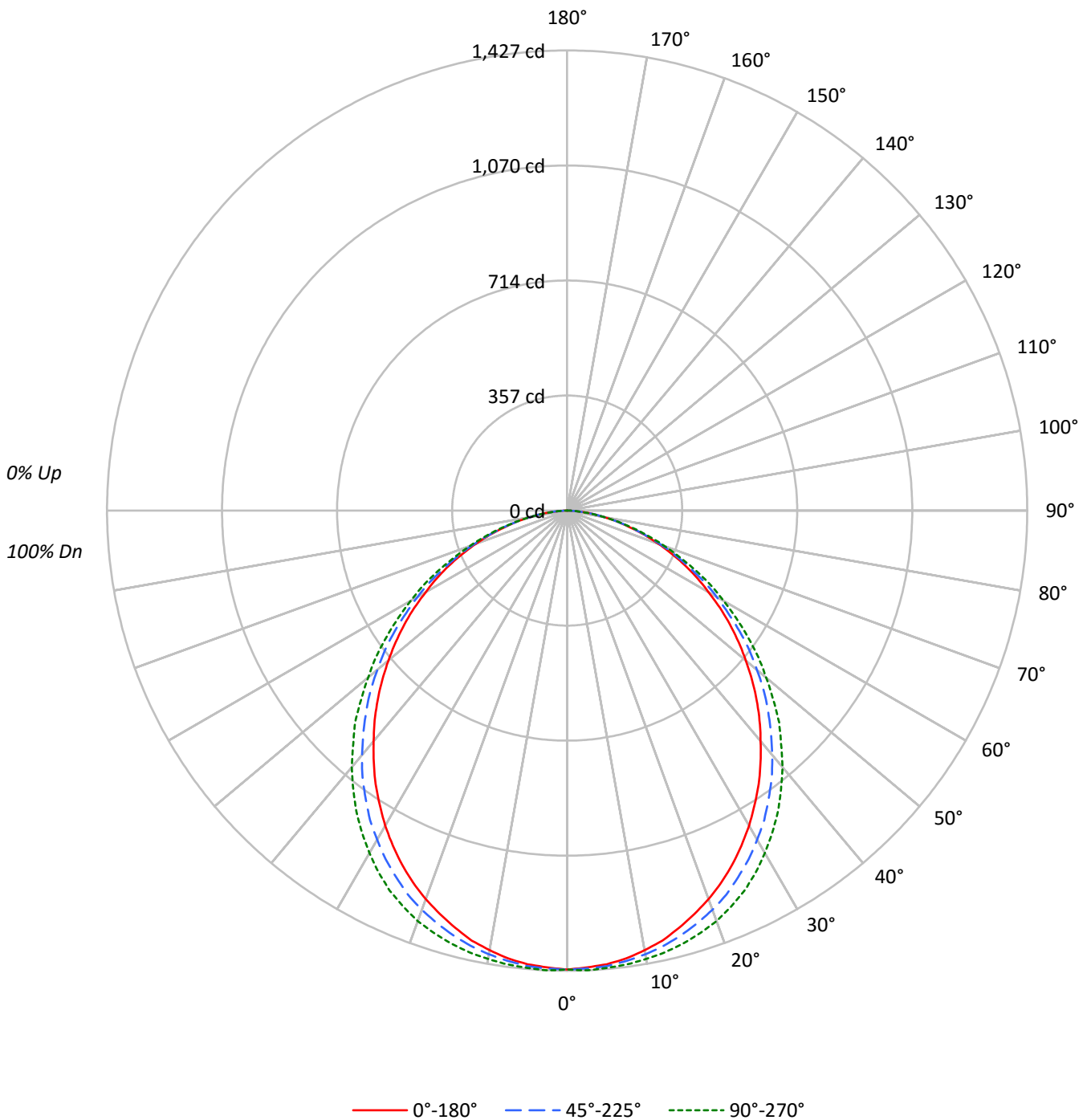
Input Watts (W): 36.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	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°	3830	3830	3830
5°	3815	3830	3845
10°	3783	3818	3859
15°	3733	3800	3872
20°	3672	3773	3879
25°	3598	3725	3862
30°	3506	3662	3811
35°	3402	3578	3743
40°	3279	3475	3651
45°	3164	3354	3538
50°	3030	3216	3372
55°	2890	3065	3212
60°	2726	2886	3016
65°	2576	2670	2800
70°	2365	2438	2526
75°	2103	2161	2219
80°	1812	1784	1784
85°	1374	1260	1145



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	3.6
10°-20°	384.8	10.3
20°-30°	577.8	15.5
30°-40°	680.0	18.2
40°-50°	678.3	18.2
50°-60°	582.1	15.6
60°-70°	416.9	11.2
70°-80°	220.8	5.9
80°-90°	51.6	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°	1097.3	29.4
0°-40°	1777.4	47.7
0°-60°	3037.7	81.5
0°-90°	3727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3727.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1412	1412	1418	1422	1423	134
15°	1340	1345	1364	1382	1390	378
25°	1212	1223	1254	1286	1301	558
35°	1036	1048	1089	1126	1139	647
45°	831	844	881	913	930	641
55°	616	625	653	676	685	551
65°	404	406	419	436	440	400
75°	202	202	208	212	213	217
85°	44	43	41	37	37	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1423.3	1423.3	1423.3	1423.3	1423.3
2.5°	1417.7	1417.7	1421.5	1425.2	1427.0
5°	1412.2	1412.2	1417.7	1421.5	1423.3
7.5°	1401.0	1401.0	1408.5	1415.9	1419.6
10°	1384.3	1388.0	1397.3	1408.5	1412.2
12.5°	1365.8	1369.5	1382.5	1397.3	1402.9
15°	1339.8	1345.4	1363.9	1382.5	1389.9
17.5°	1312.0	1319.4	1341.7	1363.9	1373.2
20°	1282.3	1289.7	1317.5	1343.5	1354.6
22.5°	1248.9	1258.2	1289.7	1317.5	1328.7
25°	1211.8	1222.9	1254.4	1286.0	1300.8
27.5°	1170.9	1183.9	1219.2	1252.6	1265.6
30°	1128.3	1143.1	1178.4	1213.6	1226.6
32.5°	1081.9	1094.9	1137.5	1170.9	1183.9
35°	1035.5	1048.5	1089.3	1126.4	1139.4
37.5°	985.4	1002.1	1042.9	1076.3	1089.3
40°	933.4	950.1	989.1	1028.0	1039.2
42.5°	883.3	898.1	935.3	970.5	981.7
45°	831.3	844.3	881.4	913.0	929.7
47.5°	777.5	790.5	827.6	857.3	866.6
50°	723.7	736.7	768.3	794.2	805.4
52.5°	669.9	682.9	712.6	736.7	747.8
55°	616.1	625.4	653.2	675.5	684.7
57.5°	562.3	569.7	592.0	616.1	621.7
60°	506.6	515.9	536.3	553.0	560.4
62.5°	456.5	460.2	478.8	493.6	502.9
65°	404.5	406.4	419.4	436.1	439.8
67.5°	350.7	352.6	365.6	374.8	378.6
70°	300.6	300.6	309.9	317.3	321.0
72.5°	252.4	250.5	256.1	263.5	267.2
75°	202.3	202.3	207.8	211.5	213.4
77.5°	159.6	155.9	159.6	163.3	163.3
80°	116.9	115.1	115.1	116.9	115.1
82.5°	79.8	77.9	79.8	76.1	74.2
85°	44.5	42.7	40.8	37.1	37.1
87.5°	14.8	13.0	13.0	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)