

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: P298048

Luminaire Tested: **D3X-WD-44L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298048  
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-44L82765-LD5-UNV-22-T1-W2A-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4122.0 lumens  
Efficiency: N/A  
Efficacy: 113.6 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

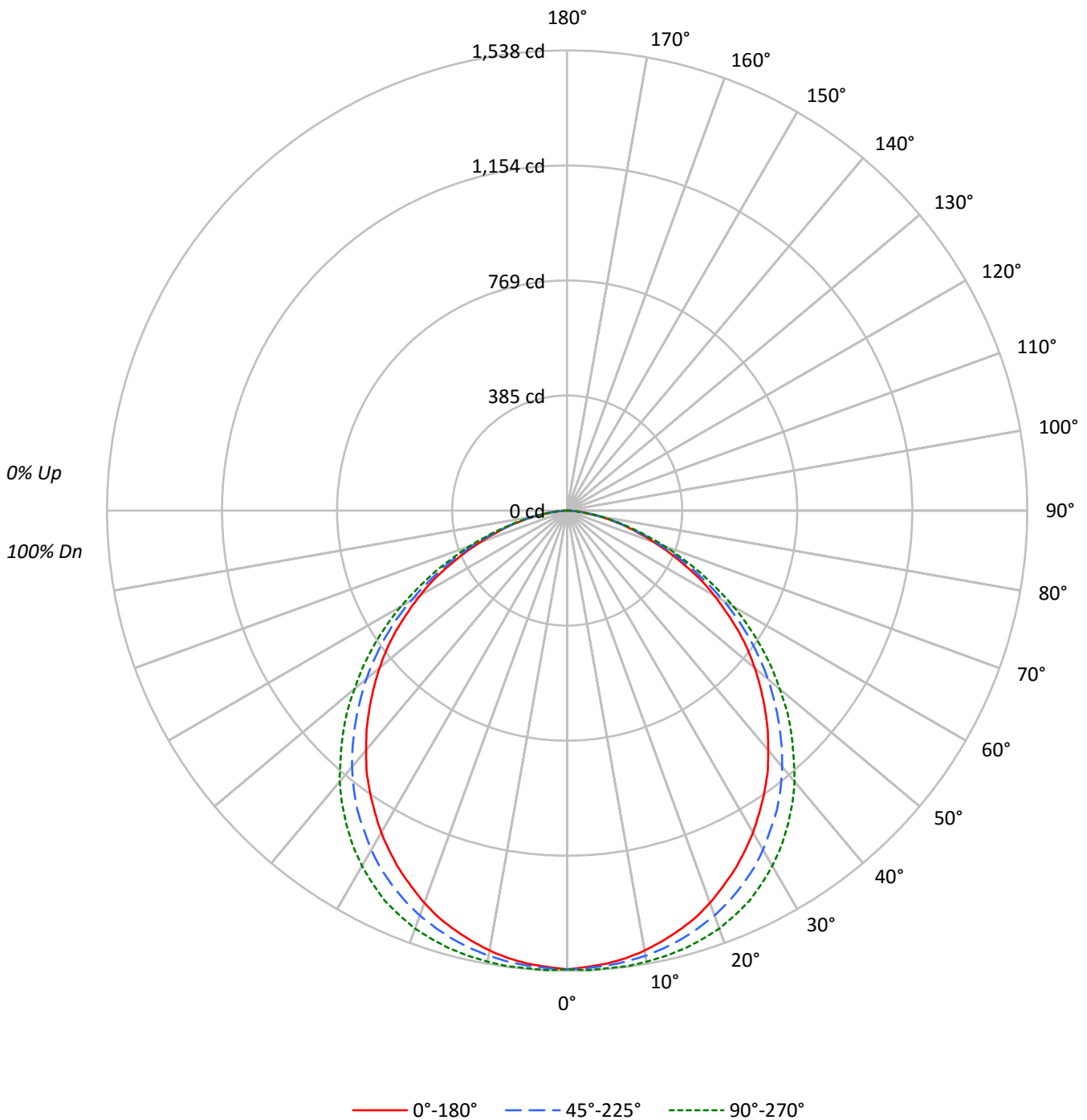
Input Watts (W): 36.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4126	4126	4126
5°	4105	4123	4148
10°	4080	4129	4183
15°	4042	4129	4222
20°	3997	4124	4257
25°	3933	4104	4276
30°	3861	4068	4261
35°	3776	4016	4220
40°	3671	3928	4154
45°	3555	3808	4036
50°	3427	3669	3882
55°	3269	3487	3706
60°	3057	3248	3463
65°	2769	2939	3122
70°	2444	2567	2706
75°	2099	2145	2237
80°	1684	1719	1754
85°	1232	1096	1096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.3	3.5
10°-20°	418.5	10.2
20°-30°	636.6	15.4
30°-40°	761.6	18.5
40°-50°	770.0	18.7
50°-60°	662.6	16.1
60°-70°	457.5	11.1
70°-80°	221.8	5.4
80°-90°	48.1	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°	1200.4	29.1
0°-40°	1962.0	47.6
0°-60°	3394.6	82.4
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1520	1522	1526	1533	1535	144
15°	1451	1460	1482	1504	1515	409
25°	1325	1340	1382	1424	1440	610
35°	1149	1169	1222	1267	1285	718
45°	934	952	1001	1043	1061	721
55°	697	708	743	777	790	621
65°	435	442	462	482	490	433
75°	202	198	206	213	215	214
85°	40	40	36	36	36	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1533.1	1533.1	1533.1	1533.1	1533.1
2.5°	1526.5	1526.5	1530.9	1535.4	1537.6
5°	1519.8	1522.0	1526.5	1533.1	1535.4
7.5°	1508.7	1511.0	1519.8	1530.9	1535.4
10°	1493.2	1497.6	1511.0	1524.3	1530.9
12.5°	1473.2	1482.1	1497.6	1515.4	1524.3
15°	1451.0	1459.9	1482.1	1504.3	1515.4
17.5°	1426.6	1435.5	1462.1	1491.0	1502.1
20°	1395.6	1408.9	1440.0	1473.2	1486.5
22.5°	1360.1	1377.8	1413.3	1448.8	1464.4
25°	1324.6	1340.1	1382.3	1424.4	1440.0
27.5°	1284.6	1302.4	1349.0	1391.1	1406.7
30°	1242.5	1260.2	1309.1	1355.6	1371.2
32.5°	1195.9	1218.1	1264.7	1313.5	1331.2
35°	1149.3	1169.3	1222.5	1266.9	1284.6
37.5°	1100.5	1118.2	1171.5	1218.1	1235.8
40°	1045.0	1065.0	1118.2	1164.8	1182.6
42.5°	991.8	1011.7	1060.6	1104.9	1120.5
45°	934.1	951.8	1000.6	1042.8	1060.6
47.5°	876.4	896.4	938.5	980.7	998.4
50°	818.7	834.2	876.4	916.3	927.4
52.5°	758.8	772.1	809.8	845.3	860.9
55°	696.7	707.8	743.3	776.6	789.9
57.5°	630.1	643.4	676.7	701.1	716.6
60°	568.0	574.7	603.5	627.9	643.4
62.5°	505.9	508.1	530.3	554.7	563.6
65°	434.9	441.5	461.5	481.5	490.3
67.5°	370.5	377.2	392.7	408.2	414.9
70°	310.6	310.6	326.2	337.2	343.9
72.5°	250.7	252.9	264.0	270.7	277.3
75°	201.9	197.5	206.3	213.0	215.2
77.5°	150.9	148.7	155.3	157.5	162.0
80°	108.7	108.7	110.9	113.2	113.2
82.5°	71.0	71.0	73.2	68.8	66.6
85°	39.9	39.9	35.5	35.5	35.5
87.5°	13.3	13.3	13.3	15.5	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)