

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: P298388

Luminaire Tested: **D3X-WO-44L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298388  
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-44L82765-LD5-UNV-22-T1-W2A-6500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4584.0 lumens  
Efficiency: N/A  
Efficacy: 123.2 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

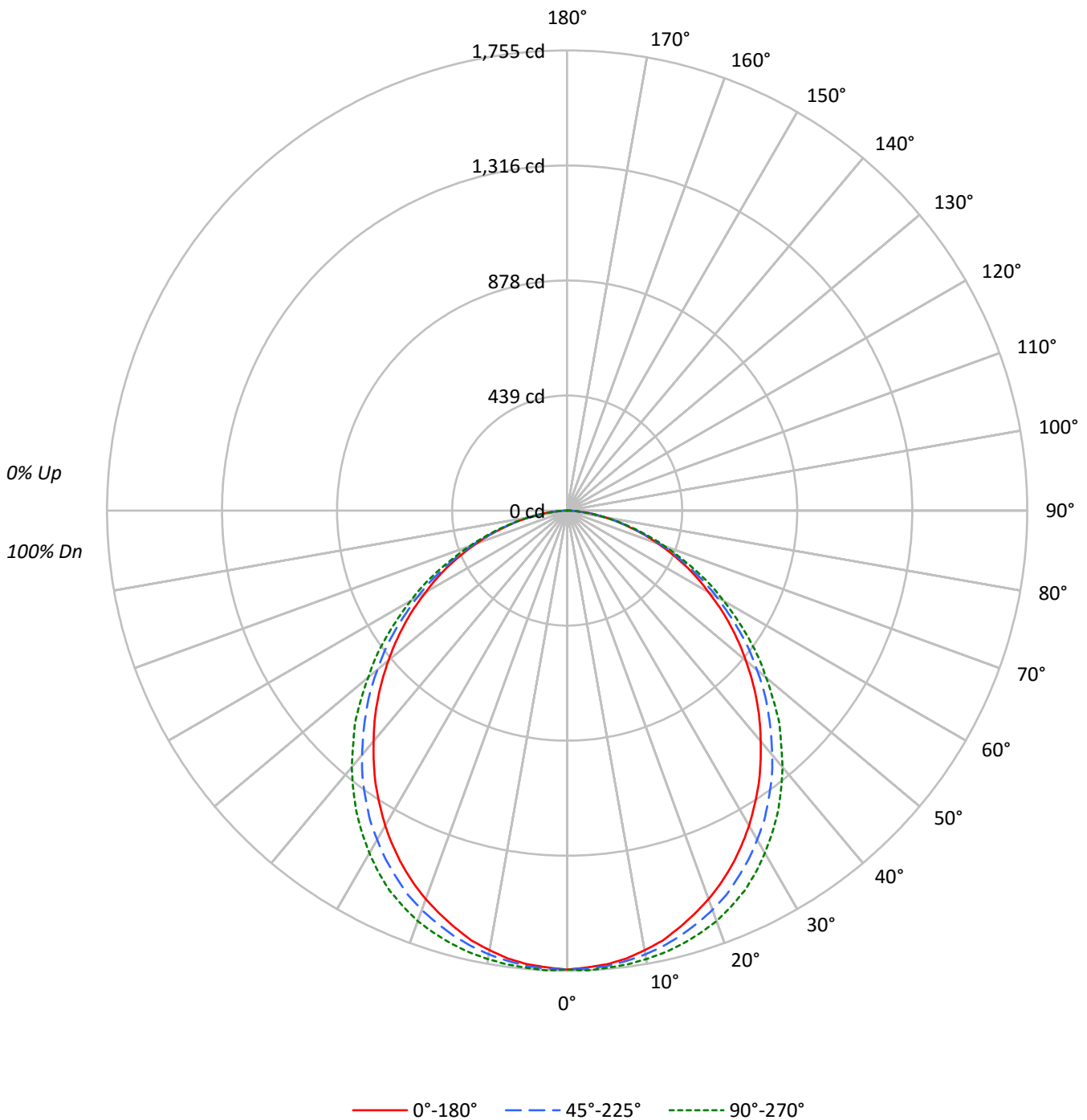
Input Watts (W): 37.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

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

	0°	45°	90°
0°	4711	4711	4711
5°	4692	4710	4729
10°	4653	4696	4746
15°	4591	4674	4763
20°	4516	4641	4771
25°	4425	4581	4751
30°	4312	4503	4688
35°	4184	4401	4604
40°	4033	4273	4490
45°	3891	4126	4352
50°	3726	3956	4147
55°	3555	3769	3951
60°	3353	3550	3710
65°	3168	3284	3444
70°	2909	2999	3107
75°	2587	2658	2729
80°	2228	2193	2193
85°	1692	1550	1408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.6	3.6
10°-20°	473.3	10.3
20°-30°	710.7	15.5
30°-40°	836.4	18.2
40°-50°	834.3	18.2
50°-60°	715.9	15.6
60°-70°	512.7	11.2
70°-80°	271.5	5.9
80°-90°	63.5	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°	1349.6	29.4
0°-40°	2186.0	47.7
0°-60°	3736.2	81.5
0°-90°	4584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4584.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1751	1751	1751	1751	1751	
5°	1737	1737	1744	1748	1751	165
15°	1648	1655	1678	1700	1710	465
25°	1490	1504	1543	1582	1600	686
35°	1274	1290	1340	1385	1401	796
45°	1022	1038	1084	1123	1144	788
55°	758	769	803	831	842	677
65°	498	500	516	536	541	491
75°	249	249	256	260	262	267
85°	55	52	50	46	46	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1750.6	1750.6	1750.6	1750.6	1750.6
2.5°	1743.7	1743.7	1748.3	1752.9	1755.2
5°	1736.9	1736.9	1743.7	1748.3	1750.6
7.5°	1723.2	1723.2	1732.3	1741.5	1746.0
10°	1702.7	1707.2	1718.6	1732.3	1736.9
12.5°	1679.8	1684.4	1700.4	1718.6	1725.5
15°	1647.9	1654.7	1677.6	1700.4	1709.5
17.5°	1613.6	1622.8	1650.2	1677.6	1689.0
20°	1577.1	1586.3	1620.5	1652.4	1666.1
22.5°	1536.0	1547.5	1586.3	1620.5	1634.2
25°	1490.4	1504.1	1542.9	1581.7	1600.0
27.5°	1440.2	1456.2	1499.5	1540.6	1556.6
30°	1387.7	1405.9	1449.3	1492.7	1508.7
32.5°	1330.6	1346.6	1399.1	1440.2	1456.2
35°	1273.6	1289.5	1339.8	1385.4	1401.4
37.5°	1211.9	1232.5	1282.7	1323.8	1339.8
40°	1148.0	1168.6	1216.5	1264.4	1278.1
42.5°	1086.4	1104.7	1150.3	1193.7	1207.4
45°	1022.5	1038.5	1084.1	1122.9	1143.5
47.5°	956.3	972.3	1017.9	1054.5	1065.9
50°	890.1	906.1	944.9	976.9	990.6
52.5°	823.9	839.9	876.4	906.1	919.8
55°	757.8	769.2	803.4	830.8	842.2
57.5°	691.6	700.7	728.1	757.8	764.6
60°	623.1	634.5	659.6	680.2	689.3
62.5°	561.5	566.0	588.9	607.1	618.5
65°	497.6	499.8	515.8	536.4	540.9
67.5°	431.4	433.7	449.6	461.0	465.6
70°	369.7	369.7	381.2	390.3	394.9
72.5°	310.4	308.1	315.0	324.1	328.7
75°	248.8	248.8	255.6	260.2	262.5
77.5°	196.3	191.7	196.3	200.8	200.8
80°	143.8	141.5	141.5	143.8	141.5
82.5°	98.1	95.9	98.1	93.6	91.3
85°	54.8	52.5	50.2	45.6	45.6
87.5°	18.3	16.0	16.0	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)