

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: P298385

Luminaire Tested: **D3X-WO-44L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298385  
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-5000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4515.0 lumens  
Efficiency: N/A  
Efficacy: 123.7 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

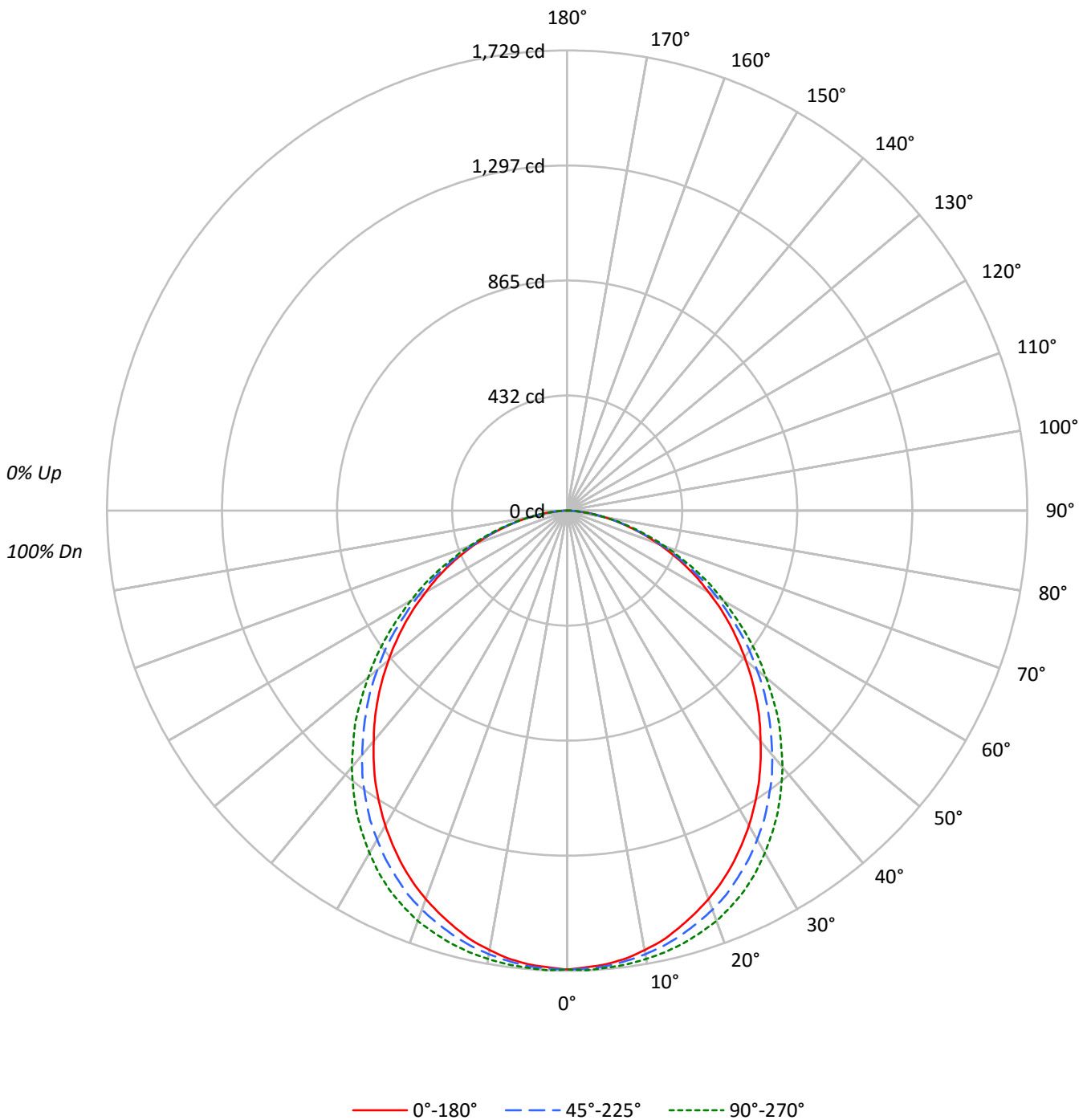
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4640	4640	4640
5°	4621	4639	4658
10°	4582	4626	4674
15°	4522	4603	4691
20°	4448	4571	4700
25°	4359	4512	4679
30°	4247	4436	4617
35°	4121	4335	4534
40°	3972	4209	4422
45°	3833	4064	4286
50°	3670	3896	4084
55°	3501	3712	3892
60°	3303	3497	3654
65°	3121	3235	3393
70°	2865	2954	3060
75°	2547	2618	2688
80°	2194	2160	2160
85°	1667	1528	1389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	3.6
10°-20°	466.2	10.3
20°-30°	700.0	15.5
30°-40°	823.8	18.2
40°-50°	821.7	18.2
50°-60°	705.1	15.6
60°-70°	505.0	11.2
70°-80°	267.4	5.9
80°-90°	62.6	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°	1329.3	29.4
0°-40°	2153.1	47.7
0°-60°	3680.0	81.5
0°-90°	4515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1711	1711	1718	1722	1724	162
15°	1623	1630	1652	1675	1684	458
25°	1468	1482	1520	1558	1576	676
35°	1254	1270	1320	1365	1380	784
45°	1007	1023	1068	1106	1126	776
55°	746	758	791	818	830	667
65°	490	492	508	528	533	484
75°	245	245	252	256	258	263
85°	54	52	50	45	45	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1724.2	1724.2	1724.2	1724.2	1724.2
2.5°	1717.5	1717.5	1722.0	1726.5	1728.7
5°	1710.7	1710.7	1717.5	1722.0	1724.2
7.5°	1697.3	1697.3	1706.3	1715.2	1719.7
10°	1677.0	1681.5	1692.8	1706.3	1710.7
12.5°	1654.5	1659.0	1674.8	1692.8	1699.5
15°	1623.1	1629.8	1652.3	1674.8	1683.8
17.5°	1589.4	1598.3	1625.3	1652.3	1663.5
20°	1553.4	1562.4	1596.1	1627.6	1641.1
22.5°	1512.9	1524.2	1562.4	1596.1	1609.6
25°	1468.0	1481.5	1519.7	1557.9	1575.9
27.5°	1418.5	1434.2	1477.0	1517.4	1533.2
30°	1366.8	1384.8	1427.5	1470.2	1485.9
32.5°	1310.6	1326.3	1378.0	1418.5	1434.2
35°	1254.4	1270.1	1319.6	1364.6	1380.3
37.5°	1193.7	1213.9	1263.4	1303.9	1319.6
40°	1130.8	1151.0	1198.2	1245.4	1258.9
42.5°	1070.1	1088.0	1133.0	1175.7	1189.2
45°	1007.1	1022.9	1067.8	1106.0	1126.3
47.5°	941.9	957.7	1002.6	1038.6	1049.8
50°	876.7	892.5	930.7	962.2	975.6
52.5°	811.5	827.3	863.2	892.5	906.0
55°	746.3	757.6	791.3	818.3	829.5
57.5°	681.2	690.1	717.1	746.3	753.1
60°	613.7	625.0	649.7	669.9	678.9
62.5°	553.0	557.5	580.0	598.0	609.2
65°	490.1	492.3	508.1	528.3	532.8
67.5°	424.9	427.1	442.9	454.1	458.6
70°	364.2	364.2	375.4	384.4	388.9
72.5°	305.7	303.5	310.2	319.2	323.7
75°	245.0	245.0	251.8	256.3	258.5
77.5°	193.3	188.8	193.3	197.8	197.8
80°	141.6	139.4	139.4	141.6	139.4
82.5°	96.7	94.4	96.7	92.2	89.9
85°	54.0	51.7	49.5	45.0	45.0
87.5°	18.0	15.7	15.7	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)