

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: P297277

Luminaire Tested: **D3X-WO-36L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-36L83050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3893.0 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

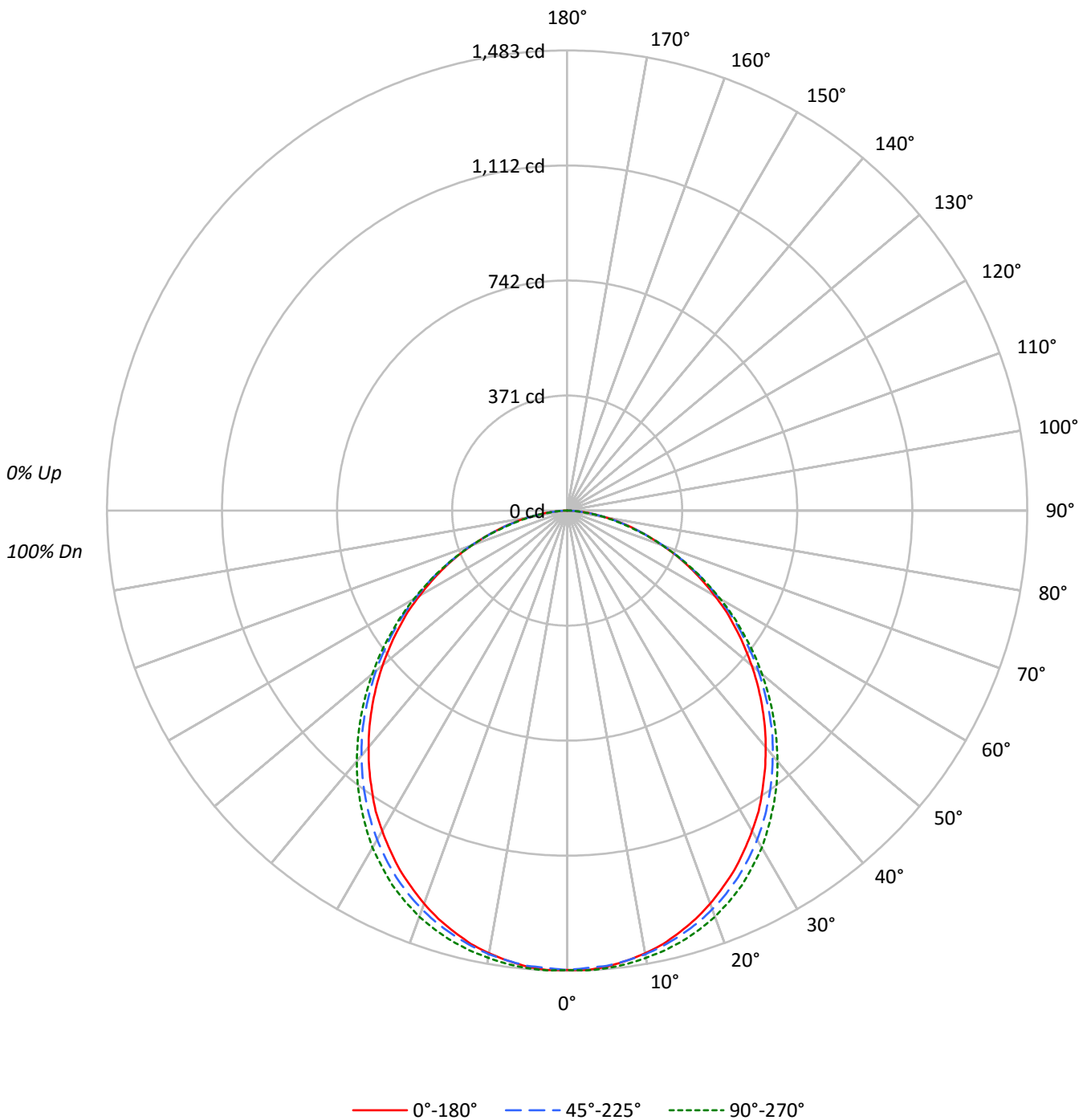
Input Watts (W): 26.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297277

CATALOG NUMBER: D3X-WO-36L83050-LD5-UNV-24-T1-W2A-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P297277

CATALOG NUMBER: D3X-WO-36L83050-LD5-UNV-24-T1-W2A-4500K

**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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	30	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°	1992	1992	1992
5°	1993	1989	2000
10°	1980	1983	2000
15°	1958	1973	2000
20°	1930	1958	1994
25°	1896	1935	1978
30°	1852	1903	1950
35°	1803	1861	1904
40°	1748	1811	1852
45°	1689	1752	1789
50°	1625	1685	1716
55°	1557	1606	1630
60°	1479	1517	1535
65°	1394	1415	1424
70°	1279	1295	1279
75°	1152	1145	1111
80°	976	965	934
85°	729	709	628



TEST NUMBER: P297277

CATALOG NUMBER: D3X-WO-36L83050-LD5-UNV-24-T1-W2A-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.2	3.6
10°-20°	400.4	10.3
20°-30°	600.4	15.4
30°-40°	707.1	18.2
40°-50°	707.2	18.2
50°-60°	610.2	15.7
60°-70°	439.1	11.3
70°-80°	232.9	6.0
80°-90°	55.5	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°	1141.0	29.3
0°-40°	1848.1	47.5
0°-60°	3165.5	81.3
0°-90°	3893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3893.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1475	1474	1473	1478	1481	140
15°	1406	1410	1416	1431	1436	396
25°	1277	1285	1304	1326	1332	588
35°	1098	1111	1133	1153	1159	687
45°	888	900	921	936	940	685
55°	664	670	685	696	695	594
65°	438	439	445	447	447	433
75°	222	219	220	215	214	236
85°	47	47	46	42	41	57
90°	0	0	0	0	0	



TEST NUMBER: P297277

CATALOG NUMBER: D3X-WO-36L83050-LD5-UNV-24-T1-W2A-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1480.6	1480.6	1480.6	1480.6	1480.6
2.5°	1481.9	1479.3	1475.3	1480.6	1483.2
5°	1475.3	1474.0	1472.7	1478.0	1480.6
7.5°	1463.5	1464.8	1463.5	1471.4	1474.0
10°	1449.1	1450.4	1451.7	1460.9	1463.5
12.5°	1430.7	1432.1	1436.0	1447.8	1451.7
15°	1405.8	1409.8	1416.3	1430.7	1436.0
17.5°	1379.6	1384.8	1394.0	1411.1	1416.3
20°	1348.1	1354.7	1367.8	1386.2	1392.7
22.5°	1312.7	1319.3	1337.6	1357.3	1363.9
25°	1277.3	1285.2	1303.5	1325.8	1332.4
27.5°	1235.3	1245.8	1265.5	1287.8	1293.0
30°	1192.1	1201.2	1224.9	1245.8	1255.0
32.5°	1148.8	1158.0	1180.3	1201.2	1207.8
35°	1097.6	1110.8	1133.1	1152.7	1159.3
37.5°	1047.8	1059.6	1083.2	1102.9	1109.5
40°	995.4	1005.9	1030.8	1049.1	1054.4
42.5°	942.9	953.4	978.3	992.7	998.0
45°	887.8	899.6	920.6	936.3	940.3
47.5°	832.7	841.9	861.6	876.0	881.3
50°	776.4	785.5	805.2	817.0	819.6
52.5°	720.0	726.5	744.9	755.4	759.3
55°	663.6	670.1	684.6	696.4	695.0
57.5°	609.8	612.4	626.9	634.7	634.7
60°	549.5	552.1	563.9	569.2	570.5
62.5°	493.1	497.0	506.2	507.5	507.5
65°	438.0	439.3	444.6	447.2	447.2
67.5°	382.9	381.6	386.9	386.9	385.6
70°	325.2	327.9	329.2	326.5	325.2
72.5°	272.8	271.5	271.5	270.2	270.2
75°	221.6	219.0	220.3	215.1	213.8
77.5°	174.4	170.5	169.2	166.5	163.9
80°	125.9	125.9	124.6	122.0	120.6
82.5°	83.9	83.9	82.6	80.0	77.4
85°	47.2	47.2	45.9	42.0	40.7
87.5°	15.7	15.7	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)