

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: P296783

Luminaire Tested: **D3X-WD-42L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-42L82765-LD5-UNV-24-T1-W2A-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4113.0 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

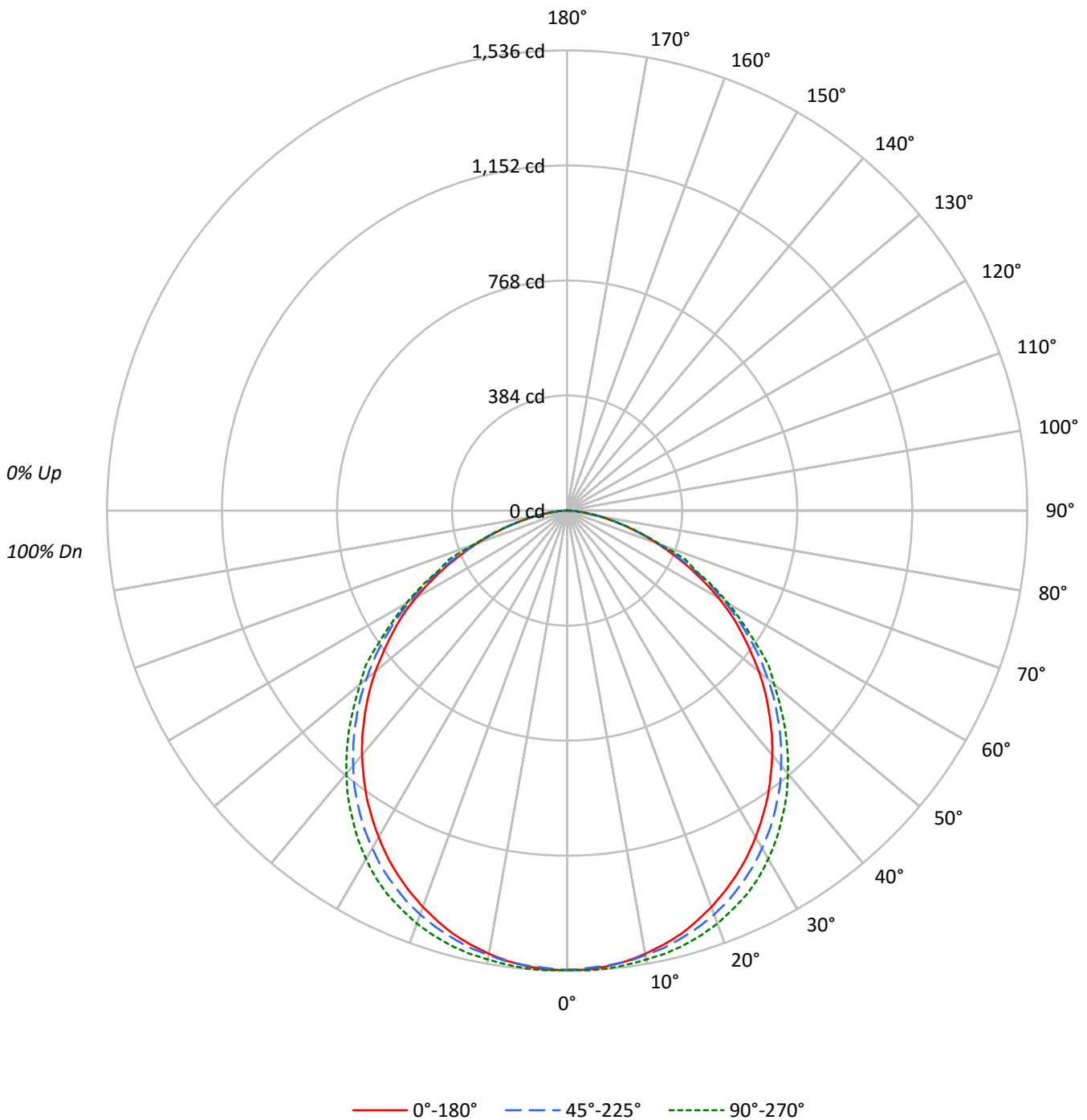
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	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	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	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	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°	2063	2063	2063
5°	2063	2059	2073
10°	2053	2059	2079
15°	2039	2058	2093
20°	2016	2054	2100
25°	1989	2042	2101
30°	1956	2022	2086
35°	1917	1993	2055
40°	1871	1952	2014
45°	1814	1898	1957
50°	1748	1832	1887
55°	1669	1745	1797
60°	1573	1632	1672
65°	1428	1475	1503
70°	1254	1283	1301
75°	1059	1074	1082
80°	846	858	834
85°	570	593	570



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.3	3.5
10°-20°	417.9	10.2
20°-30°	634.0	15.4
30°-40°	757.0	18.4
40°-50°	766.3	18.6
50°-60°	662.4	16.1
60°-70°	459.1	11.2
70°-80°	222.1	5.4
80°-90°	48.8	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°	1197.2	29.1
0°-40°	1954.2	47.5
0°-60°	3382.9	82.2
0°-90°	4113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4113.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1527	1526	1524	1532	1535	145
15°	1464	1467	1477	1495	1502	413
25°	1340	1349	1375	1403	1415	617
35°	1167	1178	1213	1244	1251	729
45°	953	967	998	1023	1029	735
55°	711	719	744	775	766	636
65°	449	453	463	471	472	444
75°	204	205	207	205	208	219
85°	37	40	38	37	37	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1533.3	1533.3	1533.3	1533.3	1533.3
2.5°	1533.3	1531.8	1528.9	1533.3	1536.2
5°	1527.4	1525.9	1524.4	1531.8	1534.8
7.5°	1517.1	1517.1	1518.5	1525.9	1528.9
10°	1502.3	1503.8	1506.7	1518.5	1521.5
12.5°	1484.6	1487.5	1494.9	1508.2	1514.1
15°	1463.9	1466.9	1477.2	1494.9	1502.3
17.5°	1437.4	1443.3	1458.0	1478.7	1486.1
20°	1407.9	1415.2	1434.4	1458.0	1466.9
22.5°	1375.4	1382.8	1407.9	1432.9	1441.8
25°	1340.0	1348.8	1375.4	1403.4	1415.2
27.5°	1301.6	1311.9	1341.5	1371.0	1382.8
30°	1258.8	1270.6	1301.6	1332.6	1342.9
32.5°	1213.1	1224.9	1260.3	1289.8	1300.1
35°	1167.3	1177.6	1213.1	1244.1	1251.4
37.5°	1115.7	1127.5	1165.8	1192.4	1202.7
40°	1065.5	1077.3	1111.2	1137.8	1146.7
42.5°	1010.9	1022.7	1056.6	1081.7	1089.1
45°	953.3	966.6	997.6	1022.7	1028.6
47.5°	895.8	906.1	938.6	960.7	965.1
50°	835.3	845.6	875.1	897.3	901.7
52.5°	771.8	788.0	811.7	827.9	847.1
55°	711.3	718.7	743.8	774.8	765.9
57.5°	650.8	655.2	675.9	689.2	692.1
60°	584.4	590.3	606.5	613.9	621.3
62.5°	515.0	519.5	538.6	546.0	549.0
65°	448.6	453.1	463.4	470.8	472.2
67.5°	380.7	385.2	394.0	399.9	426.5
70°	318.8	321.7	326.1	337.9	330.6
72.5°	259.7	261.2	265.6	265.6	267.1
75°	203.7	205.1	206.6	205.1	208.1
77.5°	152.0	155.0	156.4	155.0	153.5
80°	109.2	112.2	110.7	107.7	107.7
82.5°	70.8	72.3	70.8	69.4	69.4
85°	36.9	39.8	38.4	36.9	36.9
87.5°	13.3	14.8	16.2	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)