

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: P296781

Luminaire Tested: **D3X-WD-42L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296781  
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-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4018.0 lumens  
Efficiency: N/A  
Efficacy: 135.3 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

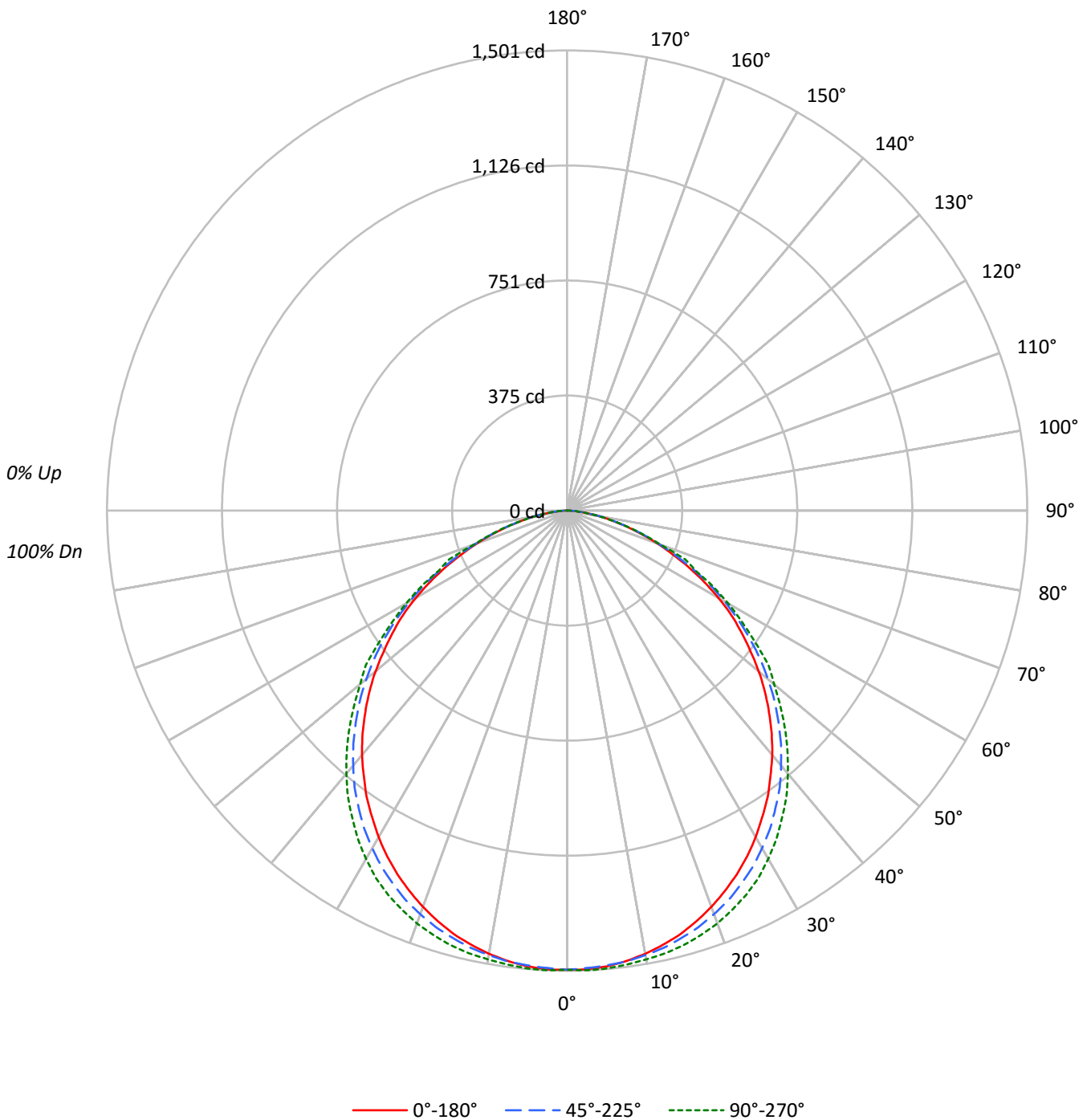
Input Watts (W): 29.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2015	2015	2015
5°	2015	2011	2025
10°	2005	2011	2031
15°	1992	2010	2044
20°	1969	2006	2052
25°	1943	1995	2052
30°	1911	1975	2038
35°	1873	1946	2008
40°	1828	1907	1968
45°	1772	1854	1912
50°	1708	1789	1844
55°	1630	1704	1755
60°	1536	1594	1633
65°	1395	1441	1469
70°	1225	1253	1270
75°	1034	1049	1057
80°	827	838	815
85°	556	579	556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.0	3.5
10°-20°	408.2	10.2
20°-30°	619.4	15.4
30°-40°	739.5	18.4
40°-50°	748.6	18.6
50°-60°	647.1	16.1
60°-70°	448.5	11.2
70°-80°	217.0	5.4
80°-90°	47.7	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°	1169.6	29.1
0°-40°	1909.0	47.5
0°-60°	3304.8	82.2
0°-90°	4018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4018.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1492	1491	1489	1496	1499	142
15°	1430	1433	1443	1460	1468	403
25°	1309	1318	1344	1371	1382	603
35°	1140	1150	1185	1215	1222	712
45°	931	944	975	999	1005	718
55°	695	702	727	757	748	621
65°	438	443	453	460	461	434
75°	199	200	202	200	203	213
85°	36	39	38	36	36	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1497.9	1497.9	1497.9	1497.9	1497.9
2.5°	1497.9	1496.4	1493.6	1497.9	1500.8
5°	1492.1	1490.7	1489.2	1496.4	1499.3
7.5°	1482.0	1482.0	1483.5	1490.7	1493.6
10°	1467.6	1469.0	1471.9	1483.5	1486.3
12.5°	1450.3	1453.2	1460.4	1473.4	1479.1
15°	1430.1	1433.0	1443.1	1460.4	1467.6
17.5°	1404.2	1409.9	1424.4	1444.5	1451.7
20°	1375.3	1382.5	1401.3	1424.4	1433.0
22.5°	1343.6	1350.8	1375.3	1399.8	1408.5
25°	1309.0	1317.7	1343.6	1371.0	1382.5
27.5°	1271.5	1281.6	1310.5	1339.3	1350.8
30°	1229.7	1241.3	1271.5	1301.8	1311.9
32.5°	1185.0	1196.6	1231.2	1260.0	1270.1
35°	1140.4	1150.4	1185.0	1215.3	1222.5
37.5°	1089.9	1101.4	1138.9	1164.9	1175.0
40°	1040.9	1052.4	1085.6	1111.5	1120.2
42.5°	987.5	999.1	1032.2	1056.7	1063.9
45°	931.3	944.3	974.6	999.1	1004.8
47.5°	875.1	885.2	916.9	938.5	942.8
50°	816.0	826.1	854.9	876.5	880.9
52.5°	754.0	769.8	792.9	808.8	827.5
55°	694.9	702.1	726.6	756.9	748.2
57.5°	635.8	640.1	660.3	673.3	676.1
60°	570.9	576.7	592.5	599.7	606.9
62.5°	503.1	507.5	526.2	533.4	536.3
65°	438.3	442.6	452.7	459.9	461.3
67.5°	371.9	376.3	384.9	390.7	416.6
70°	311.4	314.3	318.6	330.1	322.9
72.5°	253.7	255.2	259.5	259.5	260.9
75°	198.9	200.4	201.8	200.4	203.3
77.5°	148.5	151.4	152.8	151.4	149.9
80°	106.7	109.6	108.1	105.2	105.2
82.5°	69.2	70.6	69.2	67.8	67.8
85°	36.0	38.9	37.5	36.0	36.0
87.5°	13.0	14.4	15.9	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)