

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: P296780

Luminaire Tested: **D3X-WD-42L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296780  
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-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3949.0 lumens  
Efficiency: N/A  
Efficacy: 133.9 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

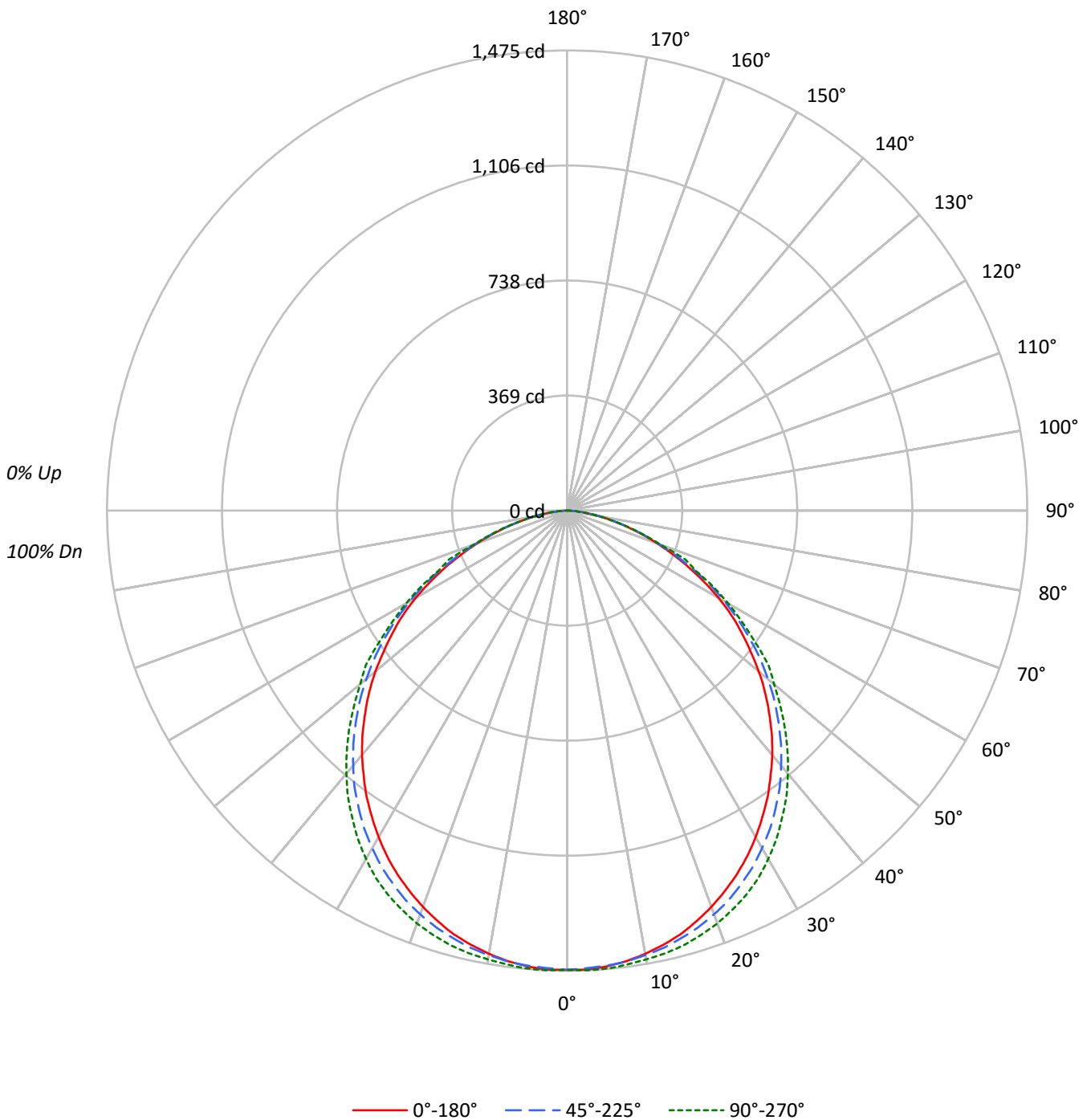
Input Watts (W): 29.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1981	1981	1981
5°	1981	1977	1990
10°	1971	1977	1996
15°	1958	1976	2009
20°	1935	1972	2017
25°	1910	1961	2017
30°	1878	1942	2003
35°	1841	1913	1974
40°	1797	1874	1934
45°	1742	1823	1879
50°	1679	1759	1812
55°	1602	1675	1725
60°	1510	1567	1605
65°	1371	1416	1443
70°	1204	1232	1249
75°	1016	1031	1039
80°	813	824	801
85°	546	568	546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.5	3.5
10°-20°	401.2	10.2
20°-30°	608.7	15.4
30°-40°	726.8	18.4
40°-50°	735.8	18.6
50°-60°	636.0	16.1
60°-70°	440.8	11.2
70°-80°	213.3	5.4
80°-90°	46.9	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°	1149.5	29.1
0°-40°	1876.3	47.5
0°-60°	3248.0	82.2
0°-90°	3949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3949.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1466	1465	1464	1471	1474	139
15°	1406	1408	1418	1435	1442	396
25°	1286	1295	1321	1348	1359	592
35°	1121	1131	1165	1194	1202	700
45°	915	928	958	982	988	706
55°	683	690	714	744	735	610
65°	431	435	445	452	453	426
75°	196	197	198	197	200	210
85°	35	38	37	35	35	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1472.2	1472.2	1472.2	1472.2	1472.2
2.5°	1472.2	1470.7	1467.9	1472.2	1475.0
5°	1466.5	1465.1	1463.7	1470.7	1473.6
7.5°	1456.6	1456.6	1458.0	1465.1	1467.9
10°	1442.4	1443.8	1446.7	1458.0	1460.8
12.5°	1425.4	1428.2	1435.3	1448.1	1453.7
15°	1405.6	1408.4	1418.3	1435.3	1442.4
17.5°	1380.1	1385.7	1399.9	1419.7	1426.8
20°	1351.7	1358.8	1377.2	1399.9	1408.4
22.5°	1320.6	1327.6	1351.7	1375.8	1384.3
25°	1286.5	1295.0	1320.6	1347.5	1358.8
27.5°	1249.7	1259.6	1288.0	1316.3	1327.6
30°	1208.6	1220.0	1249.7	1279.5	1289.4
32.5°	1164.7	1176.0	1210.0	1238.4	1248.3
35°	1120.8	1130.7	1164.7	1194.4	1201.5
37.5°	1071.2	1082.5	1119.4	1144.9	1154.8
40°	1023.0	1034.3	1066.9	1092.4	1100.9
42.5°	970.6	981.9	1014.5	1038.6	1045.7
45°	915.3	928.1	957.8	981.9	987.6
47.5°	860.1	870.0	901.1	922.4	926.7
50°	802.0	811.9	840.2	861.5	865.7
52.5°	741.0	756.6	779.3	794.9	813.3
55°	682.9	690.0	714.1	743.9	735.4
57.5°	624.9	629.1	648.9	661.7	664.5
60°	561.1	566.8	582.3	589.4	596.5
62.5°	494.5	498.7	517.2	524.3	527.1
65°	430.7	435.0	444.9	452.0	453.4
67.5°	365.6	369.8	378.3	384.0	409.5
70°	306.1	308.9	313.1	324.5	317.4
72.5°	249.4	250.8	255.0	255.0	256.5
75°	195.5	196.9	198.4	196.9	199.8
77.5°	145.9	148.8	150.2	148.8	147.4
80°	104.9	107.7	106.3	103.4	103.4
82.5°	68.0	69.4	68.0	66.6	66.6
85°	35.4	38.3	36.8	35.4	35.4
87.5°	12.8	14.2	15.6	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)