

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: P297343

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297343  
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-42L82765-LD5-UNV-24-T1-W2A-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4382.0 lumens  
Efficiency: N/A  
Efficacy: 146.6 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

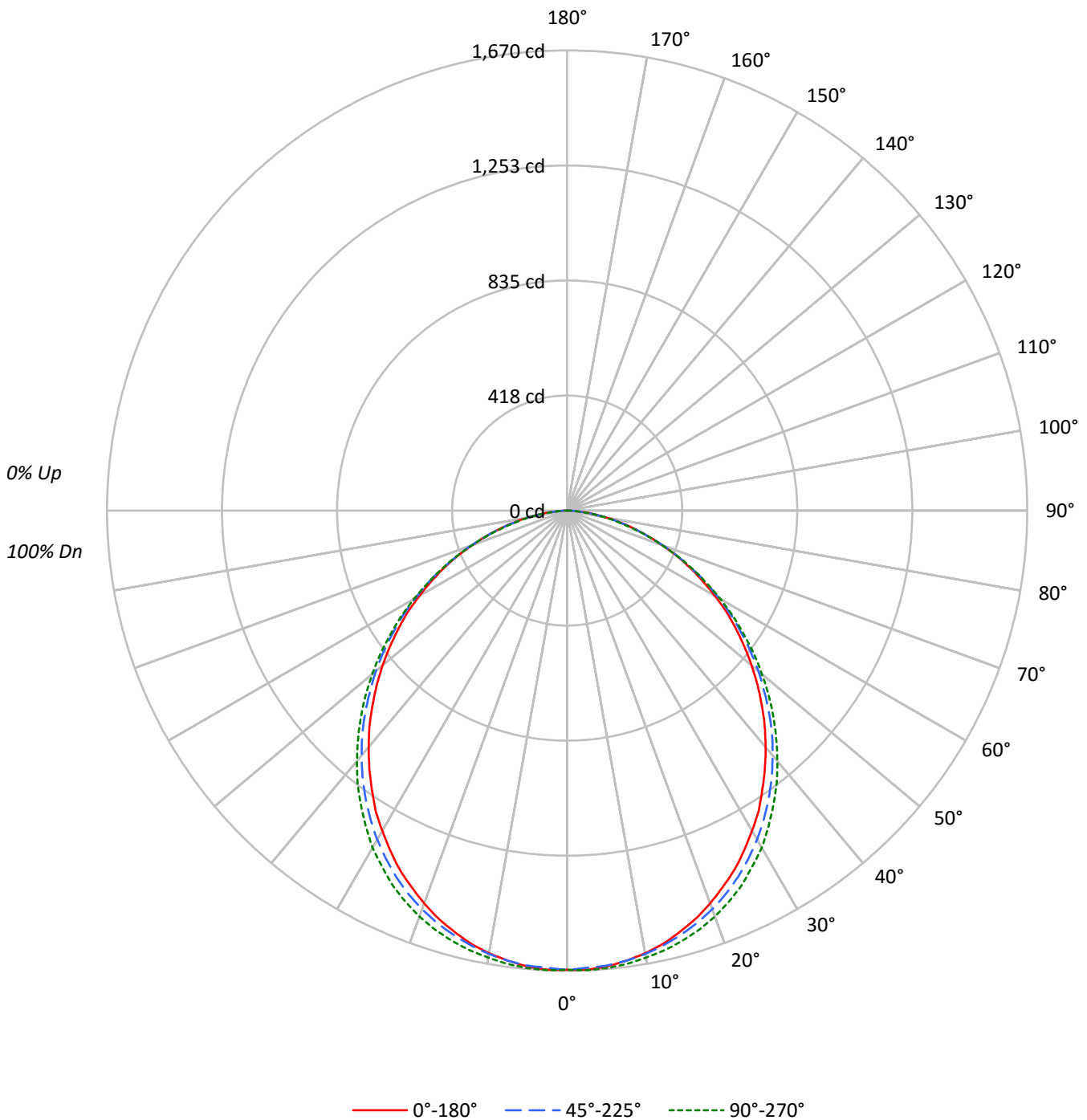
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2242	2242	2242
5°	2243	2239	2251
10°	2228	2233	2251
15°	2204	2221	2252
20°	2173	2204	2245
25°	2135	2178	2227
30°	2085	2142	2195
35°	2029	2095	2143
40°	1968	2038	2085
45°	1901	1972	2014
50°	1829	1897	1931
55°	1752	1807	1835
60°	1664	1708	1728
65°	1570	1593	1603
70°	1440	1458	1440
75°	1297	1289	1251
80°	1098	1086	1052
85°	820	798	707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.8	3.6
10°-20°	450.7	10.3
20°-30°	675.8	15.4
30°-40°	795.9	18.2
40°-50°	796.0	18.2
50°-60°	686.8	15.7
60°-70°	494.2	11.3
70°-80°	262.2	6.0
80°-90°	62.5	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°	1284.4	29.3
0°-40°	2080.3	47.5
0°-60°	3563.1	81.3
0°-90°	4382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1661	1659	1658	1664	1667	158
15°	1582	1587	1594	1610	1616	446
25°	1438	1447	1467	1492	1500	661
35°	1236	1250	1275	1298	1305	773
45°	999	1013	1036	1054	1058	771
55°	747	754	770	784	782	668
65°	493	494	500	503	503	488
75°	250	246	248	242	241	265
85°	53	53	52	47	46	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1668.0	1665.1	1660.7	1666.6	1669.5
5°	1660.7	1659.2	1657.7	1663.6	1666.6
7.5°	1647.4	1648.8	1647.4	1656.2	1659.2
10°	1631.1	1632.6	1634.1	1644.4	1647.4
12.5°	1610.5	1611.9	1616.4	1629.7	1634.1
15°	1582.4	1586.8	1594.2	1610.5	1616.4
17.5°	1552.9	1558.8	1569.1	1588.3	1594.2
20°	1517.5	1524.8	1539.6	1560.3	1567.7
22.5°	1477.6	1485.0	1505.7	1527.8	1535.2
25°	1437.8	1446.6	1467.3	1492.4	1499.8
27.5°	1390.5	1402.3	1424.5	1449.6	1455.5
30°	1341.8	1352.1	1378.7	1402.3	1412.7
32.5°	1293.1	1303.4	1328.5	1352.1	1359.5
35°	1235.5	1250.3	1275.4	1297.5	1304.9
37.5°	1179.4	1192.7	1219.3	1241.4	1248.8
40°	1120.4	1132.2	1160.2	1180.9	1186.8
42.5°	1061.3	1073.1	1101.2	1117.4	1123.3
45°	999.3	1012.6	1036.2	1054.0	1058.4
47.5°	937.3	947.7	969.8	986.1	992.0
50°	873.9	884.2	906.3	919.6	922.6
52.5°	810.4	817.8	838.4	850.3	854.7
55°	746.9	754.3	770.5	783.8	782.4
57.5°	686.4	689.4	705.6	714.4	714.4
60°	618.5	621.5	634.7	640.6	642.1
62.5°	555.0	559.5	569.8	571.3	571.3
65°	493.0	494.5	500.4	503.4	503.4
67.5°	431.0	429.6	435.5	435.5	434.0
70°	366.1	369.0	370.5	367.6	366.1
72.5°	307.0	305.6	305.6	304.1	304.1
75°	249.5	246.5	248.0	242.1	240.6
77.5°	196.3	191.9	190.4	187.5	184.5
80°	141.7	141.7	140.2	137.3	135.8
82.5°	94.5	94.5	93.0	90.0	87.1
85°	53.1	53.1	51.7	47.2	45.8
87.5°	17.7	17.7	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)