

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: P296798

Luminaire Tested: **D3X-WD-50L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296798  
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-50L82765-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: 4677.0 lumens  
Efficiency: N/A  
Efficacy: 132.5 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

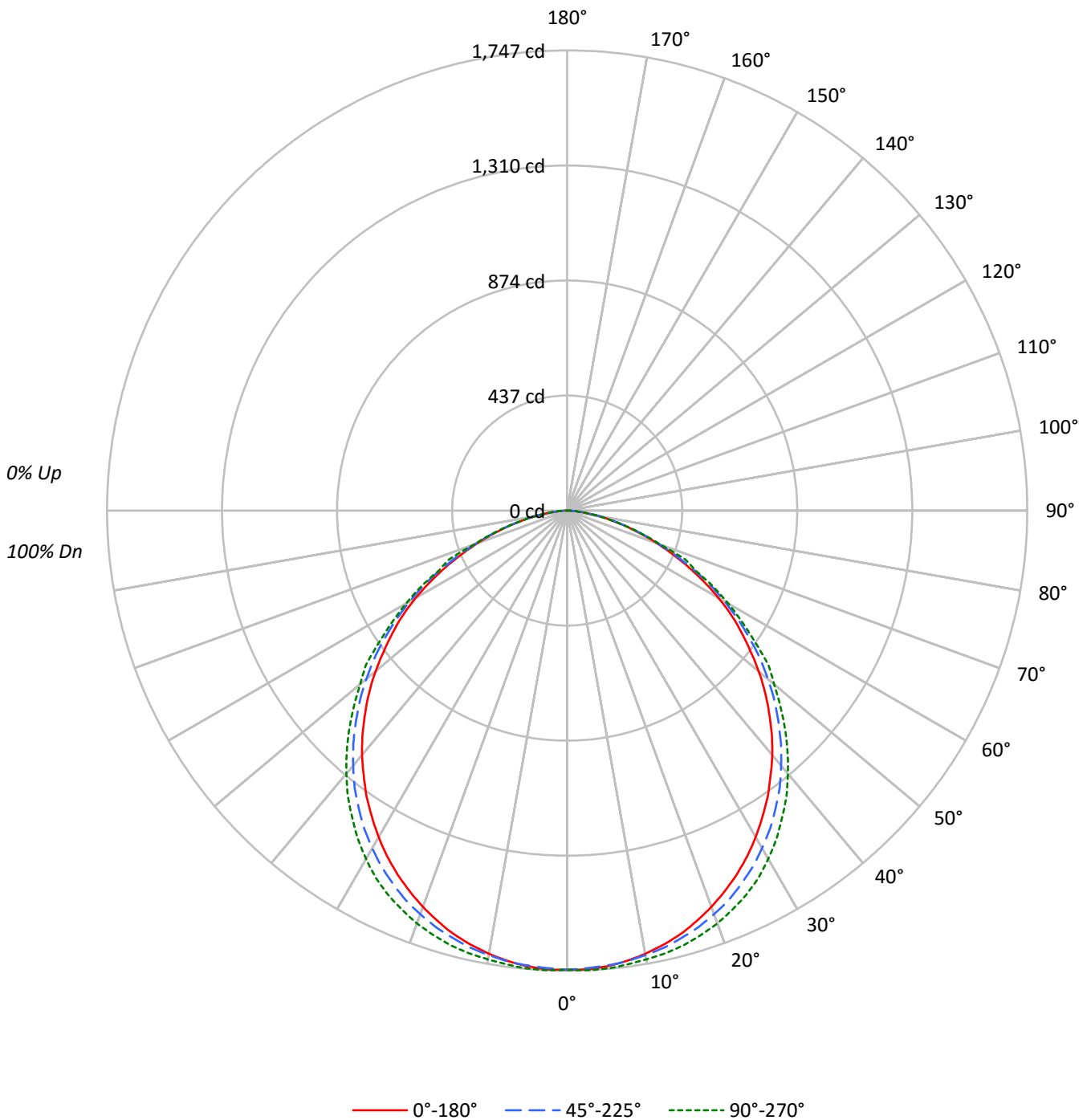
Input Watts (W): 35.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2346	2346	2346
5°	2346	2341	2357
10°	2334	2341	2364
15°	2319	2340	2380
20°	2292	2335	2388
25°	2262	2322	2389
30°	2224	2300	2373
35°	2180	2266	2337
40°	2128	2219	2290
45°	2063	2159	2226
50°	1988	2083	2146
55°	1897	1984	2043
60°	1788	1856	1901
65°	1624	1677	1710
70°	1426	1459	1479
75°	1204	1221	1230
80°	962	976	949
85°	648	673	648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	3.5
10°-20°	475.2	10.2
20°-30°	721.0	15.4
30°-40°	860.7	18.4
40°-50°	871.4	18.6
50°-60°	753.2	16.1
60°-70°	522.1	11.2
70°-80°	252.6	5.4
80°-90°	55.5	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°	1361.4	29.1
0°-40°	2222.1	47.5
0°-60°	3846.8	82.2
0°-90°	4677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1737	1735	1734	1742	1745	165
15°	1665	1668	1680	1700	1708	469
25°	1524	1534	1564	1596	1609	702
35°	1327	1339	1379	1415	1423	829
45°	1084	1099	1134	1163	1170	836
55°	809	817	846	881	871	723
65°	510	515	527	535	537	505
75°	232	233	235	233	237	248
85°	42	45	44	42	42	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1743.6	1743.6	1743.6	1743.6	1743.6
2.5°	1743.6	1741.9	1738.5	1743.6	1746.9
5°	1736.8	1735.2	1733.5	1741.9	1745.2
7.5°	1725.1	1725.1	1726.8	1735.2	1738.5
10°	1708.3	1710.0	1713.3	1726.8	1730.1
12.5°	1688.2	1691.5	1699.9	1715.0	1721.7
15°	1664.7	1668.0	1679.8	1699.9	1708.3
17.5°	1634.5	1641.2	1658.0	1681.5	1689.9
20°	1600.9	1609.3	1631.1	1658.0	1668.0
22.5°	1564.0	1572.4	1600.9	1629.4	1639.5
25°	1523.7	1533.8	1564.0	1595.9	1609.3
27.5°	1480.1	1491.8	1525.4	1559.0	1572.4
30°	1431.4	1444.8	1480.1	1515.3	1527.1
32.5°	1379.4	1392.8	1433.1	1466.7	1478.4
35°	1327.4	1339.1	1379.4	1414.6	1423.0
37.5°	1268.6	1282.1	1325.7	1355.9	1367.7
40°	1211.6	1225.0	1263.6	1293.8	1303.9
42.5°	1149.5	1162.9	1201.5	1230.1	1238.4
45°	1084.1	1099.2	1134.4	1162.9	1169.6
47.5°	1018.6	1030.4	1067.3	1092.4	1097.5
50°	949.8	961.6	995.1	1020.3	1025.3
52.5°	877.6	896.1	923.0	941.4	963.2
55°	808.8	817.2	845.8	881.0	870.9
57.5°	740.0	745.1	768.6	783.7	787.0
60°	664.5	671.2	689.7	698.1	706.5
62.5°	585.7	590.7	612.5	620.9	624.3
65°	510.1	515.2	526.9	535.3	537.0
67.5°	433.0	438.0	448.1	454.8	485.0
70°	362.5	365.8	370.9	384.3	375.9
72.5°	295.3	297.0	302.1	302.1	303.7
75°	231.6	233.3	234.9	233.3	236.6
77.5°	172.8	176.2	177.9	176.2	174.5
80°	124.2	127.5	125.9	122.5	122.5
82.5°	80.5	82.2	80.5	78.9	78.9
85°	42.0	45.3	43.6	42.0	42.0
87.5°	15.1	16.8	18.5	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)