

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: P297892

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297892  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-40L82765-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3962.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

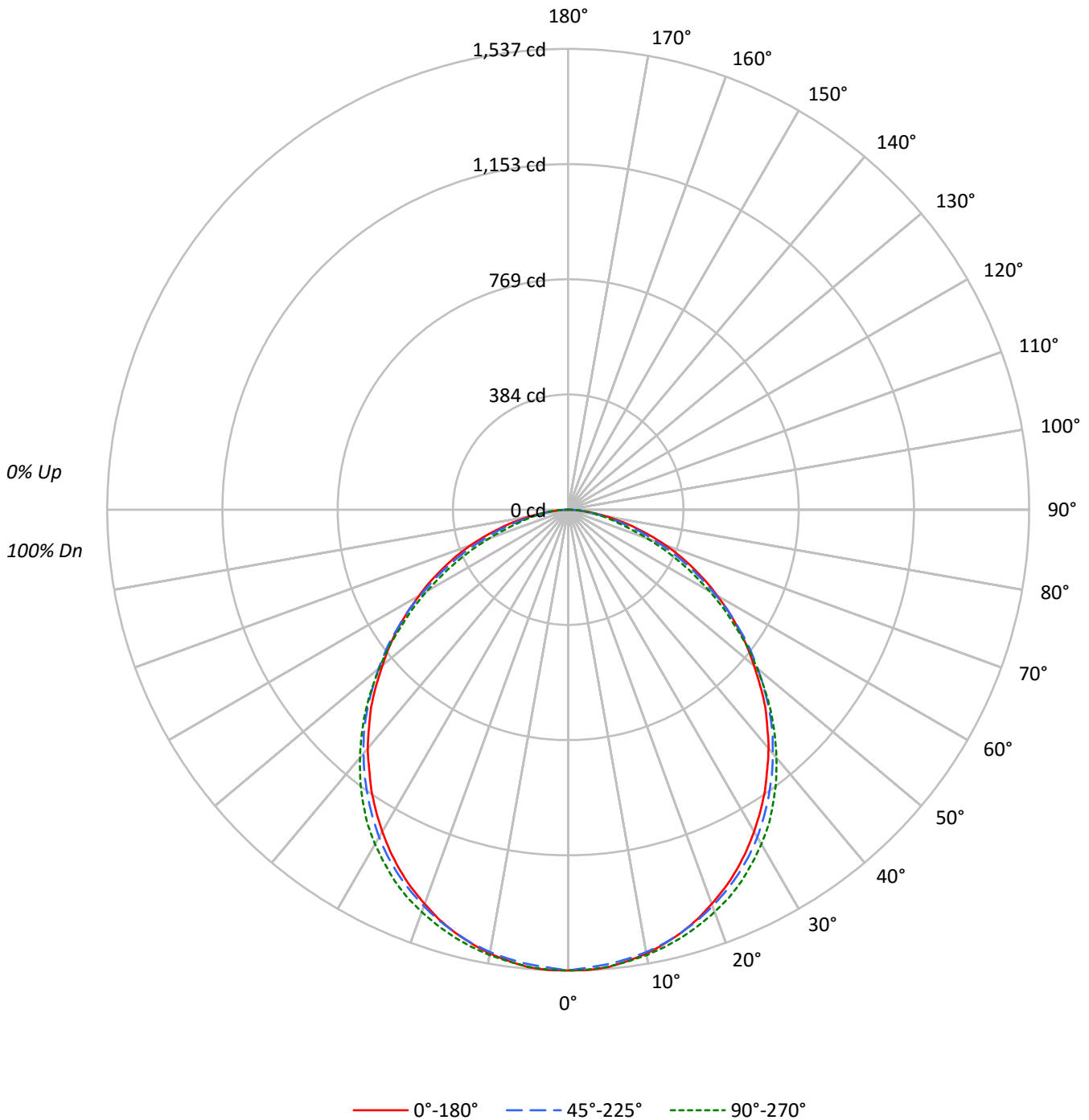
Input Watts (W): 39.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4135	4135	4135
5°	4138	4110	4133
10°	4107	4094	4121
15°	4066	4066	4108
20°	4006	4030	4088
25°	3939	3984	4059
30°	3851	3919	4003
35°	3757	3829	3917
40°	3652	3729	3793
45°	3535	3611	3643
50°	3382	3452	3438
55°	3254	3278	3191
60°	3091	3046	2929
65°	2919	2802	2609
70°	2709	2484	2207
75°	2410	2130	1816
80°	2004	1743	1692
85°	1451	1556	1556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.0	3.7
10°-20°	413.1	10.4
20°-30°	619.2	15.6
30°-40°	729.5	18.4
40°-50°	727.6	18.4
50°-60°	618.9	15.6
60°-70°	431.9	10.9
70°-80°	219.6	5.5
80°-90°	57.3	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°	1177.3	29.7
0°-40°	1906.8	48.1
0°-60°	3253.2	82.1
0°-90°	3962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3962.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1532	1528	1522	1530	1530	145
15°	1460	1460	1460	1473	1475	411
25°	1327	1328	1342	1362	1367	611
35°	1144	1145	1166	1189	1192	715
45°	929	932	949	956	957	715
55°	694	694	699	689	680	620
65°	458	452	440	416	410	455
75°	232	223	205	180	175	246
85°	47	49	50	50	50	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1536.7	1536.7	1536.7	1536.7	1536.7
2.5°	1536.7	1535.0	1528.3	1535.0	1535.0
5°	1531.7	1528.3	1521.6	1530.0	1530.0
7.5°	1518.2	1516.6	1511.5	1519.9	1519.9
10°	1503.1	1501.5	1498.1	1508.2	1508.2
12.5°	1483.0	1483.0	1481.3	1491.4	1493.1
15°	1459.5	1459.5	1459.5	1472.9	1474.6
17.5°	1432.6	1430.9	1436.0	1451.1	1452.7
20°	1399.0	1400.7	1407.4	1424.2	1427.6
22.5°	1365.4	1367.1	1375.5	1395.6	1400.7
25°	1326.8	1328.5	1341.9	1362.1	1367.1
27.5°	1284.8	1288.2	1303.3	1325.1	1328.5
30°	1239.5	1242.8	1261.3	1283.1	1288.2
32.5°	1192.4	1197.5	1214.3	1237.8	1244.5
35°	1143.7	1145.4	1165.6	1189.1	1192.4
37.5°	1090.0	1095.0	1115.2	1135.3	1138.7
40°	1039.6	1043.0	1061.4	1078.2	1079.9
42.5°	982.5	987.5	1007.7	1019.4	1019.4
45°	928.8	932.1	948.9	955.6	957.3
47.5°	868.3	871.6	886.8	890.1	890.1
50°	807.8	816.2	824.6	824.6	821.3
52.5°	752.4	754.1	764.2	757.4	754.1
55°	693.6	693.6	698.7	688.6	680.2
57.5°	634.8	634.8	634.8	621.4	614.7
60°	574.4	572.7	566.0	549.2	544.2
62.5°	517.3	512.2	502.2	485.4	475.3
65°	458.5	451.8	440.0	416.5	409.8
67.5°	403.1	391.3	377.9	356.0	344.3
70°	344.3	334.2	315.7	290.5	280.5
72.5°	287.2	277.1	262.0	236.8	221.7
75°	231.8	223.4	204.9	179.7	174.7
77.5°	178.0	173.0	154.5	142.8	141.1
80°	129.3	127.6	112.5	109.2	109.2
82.5°	85.7	84.0	78.9	78.9	77.3
85°	47.0	48.7	50.4	50.4	50.4
87.5°	16.8	20.2	23.5	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)