

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: P297896

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297896  
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-5500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4219.0 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

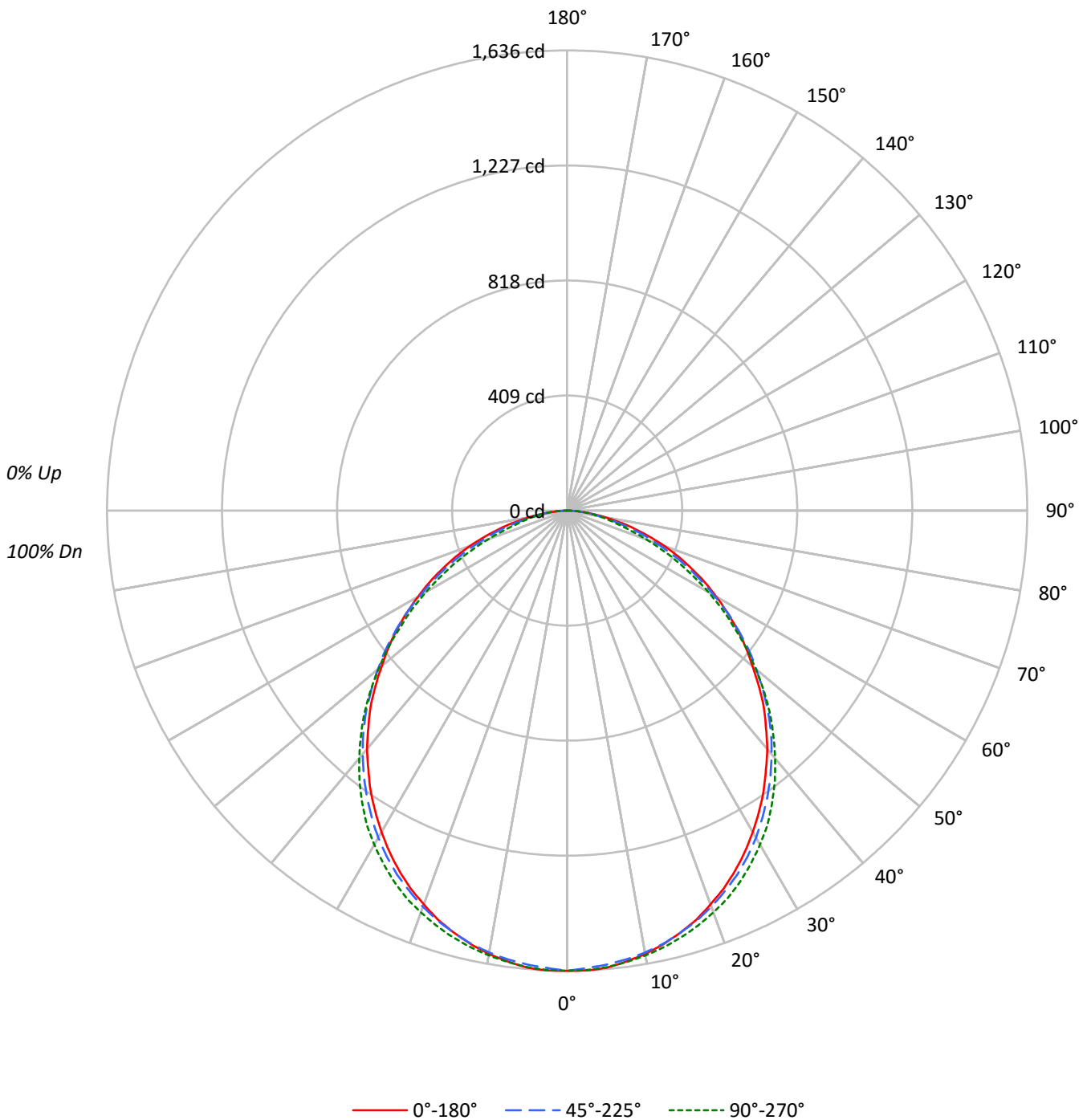
Input Watts (W): 40.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4404	4404	4404
5°	4406	4377	4401
10°	4374	4359	4388
15°	4330	4330	4374
20°	4266	4292	4353
25°	4195	4243	4323
30°	4101	4173	4262
35°	4001	4077	4171
40°	3889	3971	4040
45°	3764	3846	3879
50°	3601	3676	3661
55°	3465	3491	3398
60°	3292	3244	3118
65°	3109	2984	2779
70°	2884	2645	2350
75°	2566	2269	1934
80°	2134	1857	1801
85°	1547	1658	1658



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	3.7
10°-20°	439.9	10.4
20°-30°	659.3	15.6
30°-40°	776.8	18.4
40°-50°	774.8	18.4
50°-60°	659.0	15.6
60°-70°	459.9	10.9
70°-80°	233.8	5.5
80°-90°	61.1	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°	1253.7	29.7
0°-40°	2030.4	48.1
0°-60°	3464.2	82.1
0°-90°	4219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4219.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1631	1628	1620	1629	1629	155
15°	1554	1554	1554	1568	1570	438
25°	1413	1415	1429	1450	1456	650
35°	1218	1220	1241	1266	1270	761
45°	989	993	1010	1018	1019	761
55°	739	739	744	733	724	660
65°	488	481	469	444	436	484
75°	247	238	218	191	186	262
85°	50	52	54	54	54	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1636.4	1636.4	1636.4	1636.4	1636.4
2.5°	1636.4	1634.6	1627.5	1634.6	1634.6
5°	1631.0	1627.5	1620.3	1629.3	1629.3
7.5°	1616.7	1614.9	1609.6	1618.5	1618.5
10°	1600.6	1598.8	1595.3	1606.0	1606.0
12.5°	1579.2	1579.2	1577.4	1588.1	1589.9
15°	1554.1	1554.1	1554.1	1568.4	1570.2
17.5°	1525.5	1523.7	1529.1	1545.2	1547.0
20°	1489.8	1491.5	1498.7	1516.6	1520.2
22.5°	1454.0	1455.8	1464.7	1486.2	1491.5
25°	1412.9	1414.6	1428.9	1450.4	1455.8
27.5°	1368.1	1371.7	1387.8	1411.1	1414.6
30°	1319.9	1323.4	1343.1	1366.4	1371.7
32.5°	1269.8	1275.1	1293.0	1318.1	1325.2
35°	1217.9	1219.7	1241.2	1266.2	1269.8
37.5°	1160.7	1166.0	1187.5	1209.0	1212.5
40°	1107.0	1110.6	1130.3	1148.2	1150.0
42.5°	1046.2	1051.6	1073.1	1085.6	1085.6
45°	989.0	992.6	1010.5	1017.6	1019.4
47.5°	924.6	928.2	944.3	947.9	947.9
50°	860.2	869.2	878.1	878.1	874.5
52.5°	801.2	803.0	813.7	806.6	803.0
55°	738.6	738.6	744.0	733.3	724.3
57.5°	676.0	676.0	676.0	661.7	654.6
60°	611.6	609.9	602.7	584.8	579.4
62.5°	550.8	545.5	534.7	516.9	506.1
65°	488.2	481.1	468.6	443.5	436.4
67.5°	429.2	416.7	402.4	379.1	366.6
70°	366.6	355.9	336.2	309.4	298.7
72.5°	305.8	295.1	279.0	252.2	236.1
75°	246.8	237.9	218.2	191.4	186.0
77.5°	189.6	184.2	164.5	152.0	150.2
80°	137.7	135.9	119.8	116.2	116.2
82.5°	91.2	89.4	84.1	84.1	82.3
85°	50.1	51.9	53.7	53.7	53.7
87.5°	17.9	21.5	25.0	25.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)