

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: P297880

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297880  
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-31L82765-LD5-UNV-14-T1-W2A-6500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3261.0 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

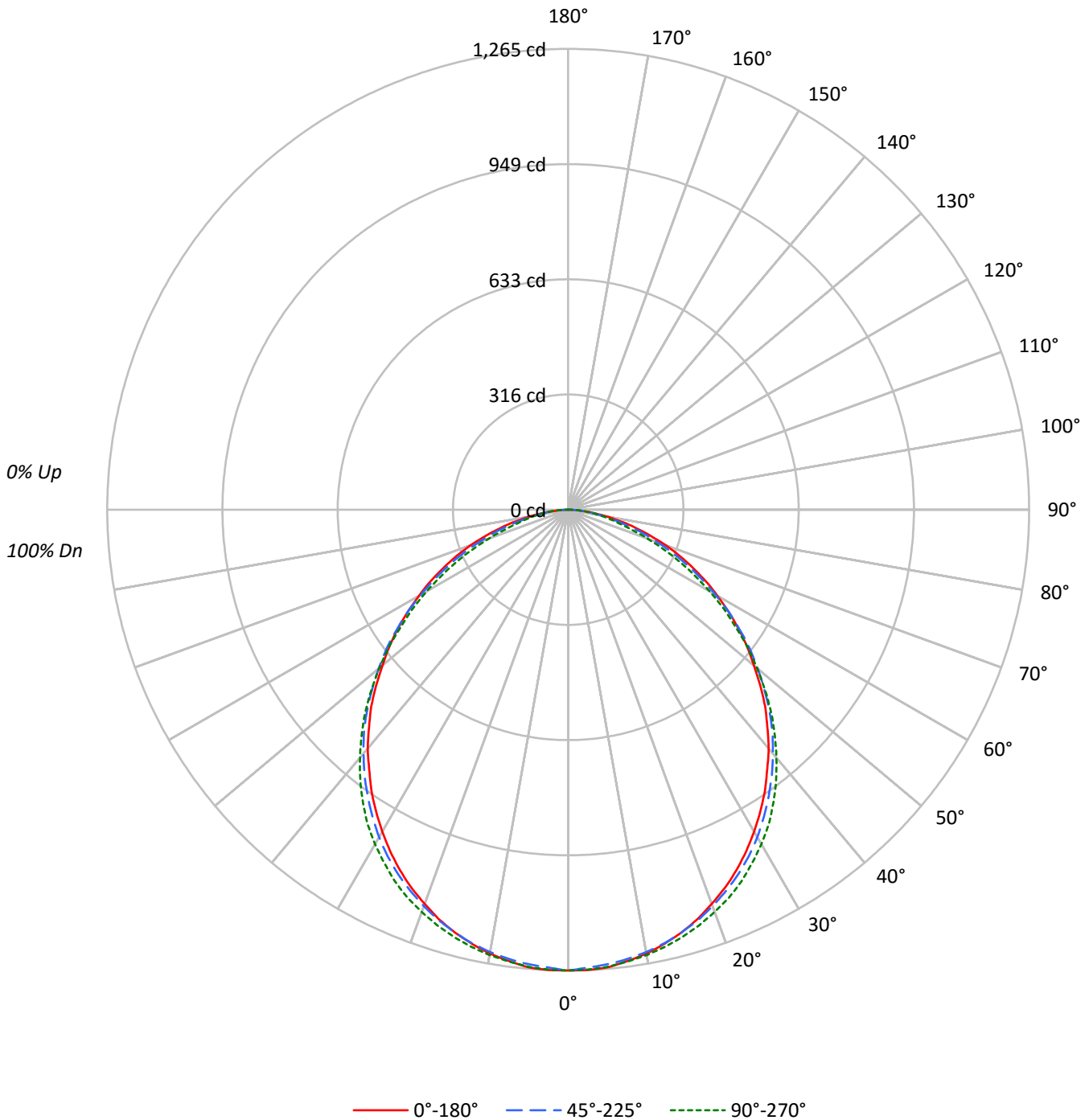
Input Watts (W): 29.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3404	3404	3404
5°	3405	3383	3402
10°	3381	3369	3392
15°	3346	3346	3381
20°	3298	3317	3365
25°	3242	3279	3341
30°	3170	3226	3294
35°	3093	3151	3224
40°	3006	3069	3122
45°	2909	2972	2998
50°	2784	2841	2830
55°	2678	2698	2626
60°	2545	2507	2411
65°	2403	2306	2148
70°	2230	2045	1816
75°	1984	1753	1495
80°	1649	1435	1393
85°	1195	1281	1281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.4	3.7
10°-20°	340.0	10.4
20°-30°	509.6	15.6
30°-40°	600.4	18.4
40°-50°	598.8	18.4
50°-60°	509.4	15.6
60°-70°	355.5	10.9
70°-80°	180.7	5.5
80°-90°	47.2	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°	969.0	29.7
0°-40°	1569.4	48.1
0°-60°	2677.6	82.1
0°-90°	3261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3261.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1261	1258	1252	1259	1259	120
15°	1201	1201	1201	1212	1214	339
25°	1092	1093	1104	1121	1125	503
35°	941	943	959	979	982	588
45°	764	767	781	786	788	588
55°	571	571	575	567	560	510
65°	377	372	362	343	337	374
75°	191	184	169	148	144	203
85°	39	40	42	42	42	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1264.8	1264.8	1264.8	1264.8	1264.8
2.5°	1264.8	1263.4	1257.9	1263.4	1263.4
5°	1260.7	1257.9	1252.4	1259.3	1259.3
7.5°	1249.6	1248.2	1244.1	1251.0	1251.0
10°	1237.2	1235.8	1233.0	1241.3	1241.3
12.5°	1220.6	1220.6	1219.2	1227.5	1228.9
15°	1201.2	1201.2	1201.2	1212.3	1213.7
17.5°	1179.1	1177.7	1181.9	1194.3	1195.7
20°	1151.5	1152.9	1158.4	1172.2	1175.0
22.5°	1123.8	1125.2	1132.1	1148.7	1152.9
25°	1092.0	1093.4	1104.5	1121.1	1125.2
27.5°	1057.5	1060.2	1072.7	1090.7	1093.4
30°	1020.2	1022.9	1038.1	1056.1	1060.2
32.5°	981.5	985.6	999.4	1018.8	1024.3
35°	941.4	942.7	959.3	978.7	981.5
37.5°	897.1	901.3	917.9	934.5	937.2
40°	855.7	858.4	873.6	887.5	888.8
42.5°	808.7	812.8	829.4	839.1	839.1
45°	764.4	767.2	781.0	786.5	787.9
47.5°	714.7	717.4	729.9	732.6	732.6
50°	664.9	671.8	678.7	678.7	676.0
52.5°	619.3	620.7	629.0	623.4	620.7
55°	570.9	570.9	575.0	566.8	559.8
57.5°	522.5	522.5	522.5	511.5	505.9
60°	472.8	471.4	465.8	452.0	447.9
62.5°	425.8	421.6	413.3	399.5	391.2
65°	377.4	371.8	362.2	342.8	337.3
67.5°	331.8	322.1	311.0	293.1	283.4
70°	283.4	275.1	259.9	239.1	230.8
72.5°	236.4	228.1	215.6	194.9	182.5
75°	190.8	183.8	168.6	147.9	143.8
77.5°	146.5	142.4	127.2	117.5	116.1
80°	106.4	105.1	92.6	89.9	89.9
82.5°	70.5	69.1	65.0	65.0	63.6
85°	38.7	40.1	41.5	41.5	41.5
87.5°	13.8	16.6	19.4	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)