

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: P297875

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297875  
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-4000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3114.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 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

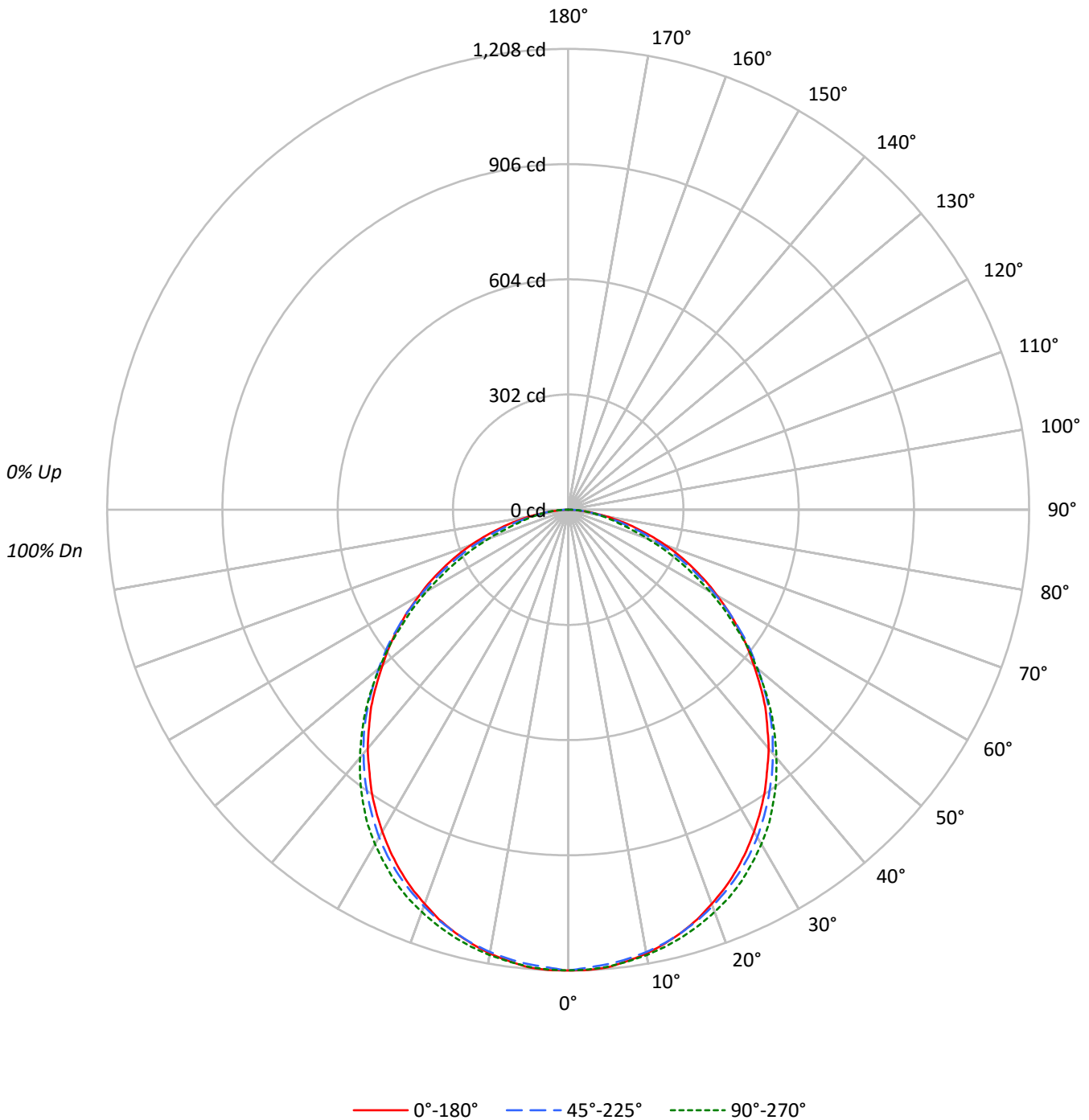
Input Watts (W): 28.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	31	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°	3250	3250	3250
5°	3252	3230	3248
10°	3228	3218	3239
15°	3196	3196	3229
20°	3149	3168	3213
25°	3096	3132	3190
30°	3027	3080	3146
35°	2953	3009	3079
40°	2870	2930	2982
45°	2778	2838	2863
50°	2658	2713	2702
55°	2558	2576	2508
60°	2429	2394	2302
65°	2295	2202	2051
70°	2129	1953	1734
75°	1894	1674	1428
80°	1574	1370	1330
85°	1142	1223	1223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.0	3.7
10°-20°	324.7	10.4
20°-30°	486.6	15.6
30°-40°	573.3	18.4
40°-50°	571.8	18.4
50°-60°	486.4	15.6
60°-70°	339.5	10.9
70°-80°	172.6	5.5
80°-90°	45.1	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°	925.3	29.7
0°-40°	1498.7	48.1
0°-60°	2556.9	82.1
0°-90°	3114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1204	1201	1196	1202	1202	114
15°	1147	1147	1147	1158	1159	323
25°	1043	1044	1055	1070	1074	480
35°	899	900	916	935	937	562
45°	730	733	746	751	752	562
55°	545	545	549	541	535	487
65°	360	355	346	327	322	357
75°	182	176	161	141	137	193
85°	37	38	40	40	40	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1207.8	1207.8	1207.8	1207.8	1207.8
2.5°	1207.8	1206.5	1201.2	1206.5	1206.5
5°	1203.9	1201.2	1195.9	1202.5	1202.5
7.5°	1193.3	1192.0	1188.0	1194.6	1194.6
10°	1181.4	1180.1	1177.5	1185.4	1185.4
12.5°	1165.6	1165.6	1164.3	1172.2	1173.5
15°	1147.1	1147.1	1147.1	1157.7	1159.0
17.5°	1126.0	1124.7	1128.6	1140.5	1141.8
20°	1099.6	1100.9	1106.2	1119.4	1122.0
22.5°	1073.2	1074.5	1081.1	1096.9	1100.9
25°	1042.8	1044.1	1054.7	1070.5	1074.5
27.5°	1009.8	1012.5	1024.3	1041.5	1044.1
30°	974.2	976.8	991.3	1008.5	1012.5
32.5°	937.2	941.2	954.4	972.9	978.1
35°	898.9	900.2	916.1	934.6	937.2
37.5°	856.7	860.6	876.5	892.3	895.0
40°	817.1	819.7	834.2	847.4	848.8
42.5°	772.2	776.2	792.0	801.2	801.2
45°	730.0	732.6	745.8	751.1	752.4
47.5°	682.4	685.1	697.0	699.6	699.6
50°	634.9	641.5	648.1	648.1	645.5
52.5°	591.4	592.7	600.6	595.3	592.7
55°	545.2	545.2	549.1	541.2	534.6
57.5°	499.0	499.0	499.0	488.4	483.1
60°	451.4	450.1	444.8	431.6	427.7
62.5°	406.6	402.6	394.7	381.5	373.6
65°	360.4	355.1	345.8	327.4	322.1
67.5°	316.8	307.6	297.0	279.8	270.6
70°	270.6	262.7	248.2	228.4	220.4
72.5°	225.7	217.8	205.9	186.1	174.2
75°	182.2	175.6	161.0	141.2	137.3
77.5°	139.9	136.0	121.4	112.2	110.9
80°	101.6	100.3	88.4	85.8	85.8
82.5°	67.3	66.0	62.0	62.0	60.7
85°	37.0	38.3	39.6	39.6	39.6
87.5°	13.2	15.8	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)