

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: P297873

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297873  
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-3000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2946.0 lumens  
Efficiency: N/A  
Efficacy: 104.8 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

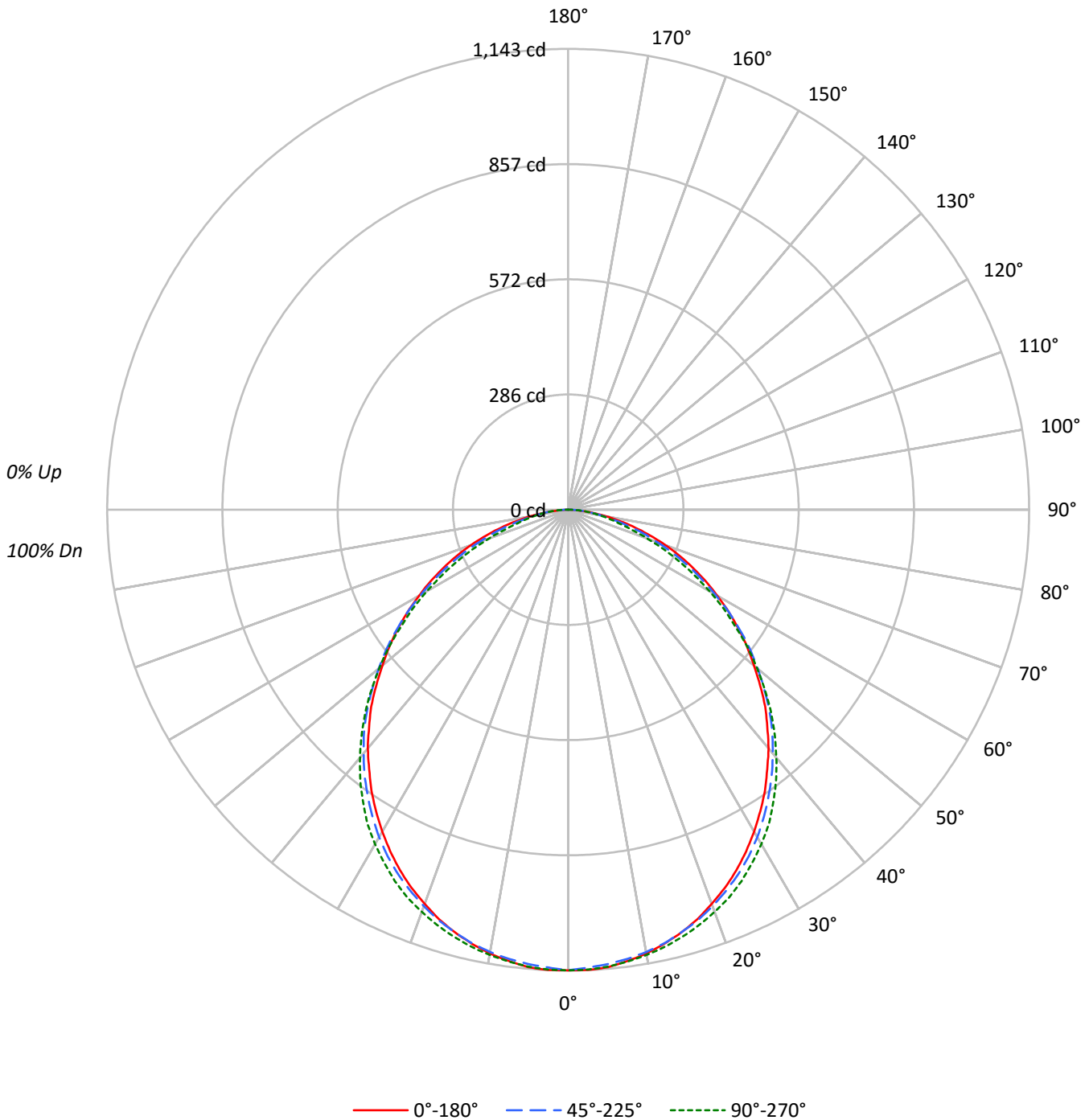
Input Watts (W): 28.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3075	3075	3075
5°	3076	3056	3073
10°	3054	3044	3064
15°	3023	3023	3054
20°	2979	2997	3040
25°	2929	2963	3018
30°	2864	2914	2976
35°	2794	2847	2913
40°	2715	2772	2821
45°	2628	2685	2709
50°	2515	2567	2557
55°	2420	2437	2373
60°	2299	2265	2178
65°	2171	2083	1940
70°	2014	1847	1640
75°	1791	1585	1351
80°	1491	1297	1258
85°	1081	1158	1158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	3.7
10°-20°	307.2	10.4
20°-30°	460.4	15.6
30°-40°	542.4	18.4
40°-50°	541.0	18.4
50°-60°	460.2	15.6
60°-70°	321.2	10.9
70°-80°	163.2	5.5
80°-90°	42.6	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°	875.4	29.7
0°-40°	1417.8	48.1
0°-60°	2419.0	82.1
0°-90°	2946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2946.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1139	1136	1131	1138	1138	108
15°	1085	1085	1085	1095	1096	306
25°	987	988	998	1013	1016	454
35°	850	852	867	884	887	531
45°	691	693	706	711	712	531
55°	516	516	520	512	506	461
65°	341	336	327	310	305	338
75°	172	166	152	134	130	183
85°	35	36	38	38	38	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1142.7	1142.7	1142.7	1142.7	1142.7
2.5°	1142.7	1141.4	1136.4	1141.4	1141.4
5°	1138.9	1136.4	1131.4	1137.7	1137.7
7.5°	1128.9	1127.7	1123.9	1130.2	1130.2
10°	1117.7	1116.4	1113.9	1121.4	1121.4
12.5°	1102.7	1102.7	1101.4	1108.9	1110.2
15°	1085.2	1085.2	1085.2	1095.2	1096.4
17.5°	1065.2	1064.0	1067.7	1079.0	1080.2
20°	1040.2	1041.5	1046.5	1059.0	1061.5
22.5°	1015.3	1016.5	1022.8	1037.8	1041.5
25°	986.6	987.8	997.8	1012.8	1016.5
27.5°	955.3	957.8	969.1	985.3	987.8
30°	921.6	924.1	937.8	954.1	957.8
32.5°	886.6	890.4	902.9	920.4	925.4
35°	850.4	851.7	866.7	884.1	886.6
37.5°	810.5	814.2	829.2	844.2	846.7
40°	773.0	775.5	789.2	801.7	803.0
42.5°	730.5	734.3	749.3	758.0	758.0
45°	690.6	693.1	705.6	710.6	711.8
47.5°	645.6	648.1	659.4	661.9	661.9
50°	600.7	606.9	613.2	613.2	610.7
52.5°	559.5	560.7	568.2	563.2	560.7
55°	515.8	515.8	519.5	512.0	505.8
57.5°	472.0	472.0	472.0	462.1	457.1
60°	427.1	425.8	420.8	408.4	404.6
62.5°	384.6	380.9	373.4	360.9	353.4
65°	340.9	335.9	327.2	309.7	304.7
67.5°	299.7	291.0	281.0	264.7	256.0
70°	256.0	248.5	234.8	216.0	208.5
72.5°	213.5	206.1	194.8	176.1	164.8
75°	172.3	166.1	152.4	133.6	129.9
77.5°	132.4	128.6	114.9	106.1	104.9
80°	96.2	94.9	83.7	81.2	81.2
82.5°	63.7	62.4	58.7	58.7	57.4
85°	35.0	36.2	37.5	37.5	37.5
87.5°	12.5	15.0	17.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)