

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: P297839

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297839  
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-31L83050-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: 2948.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 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

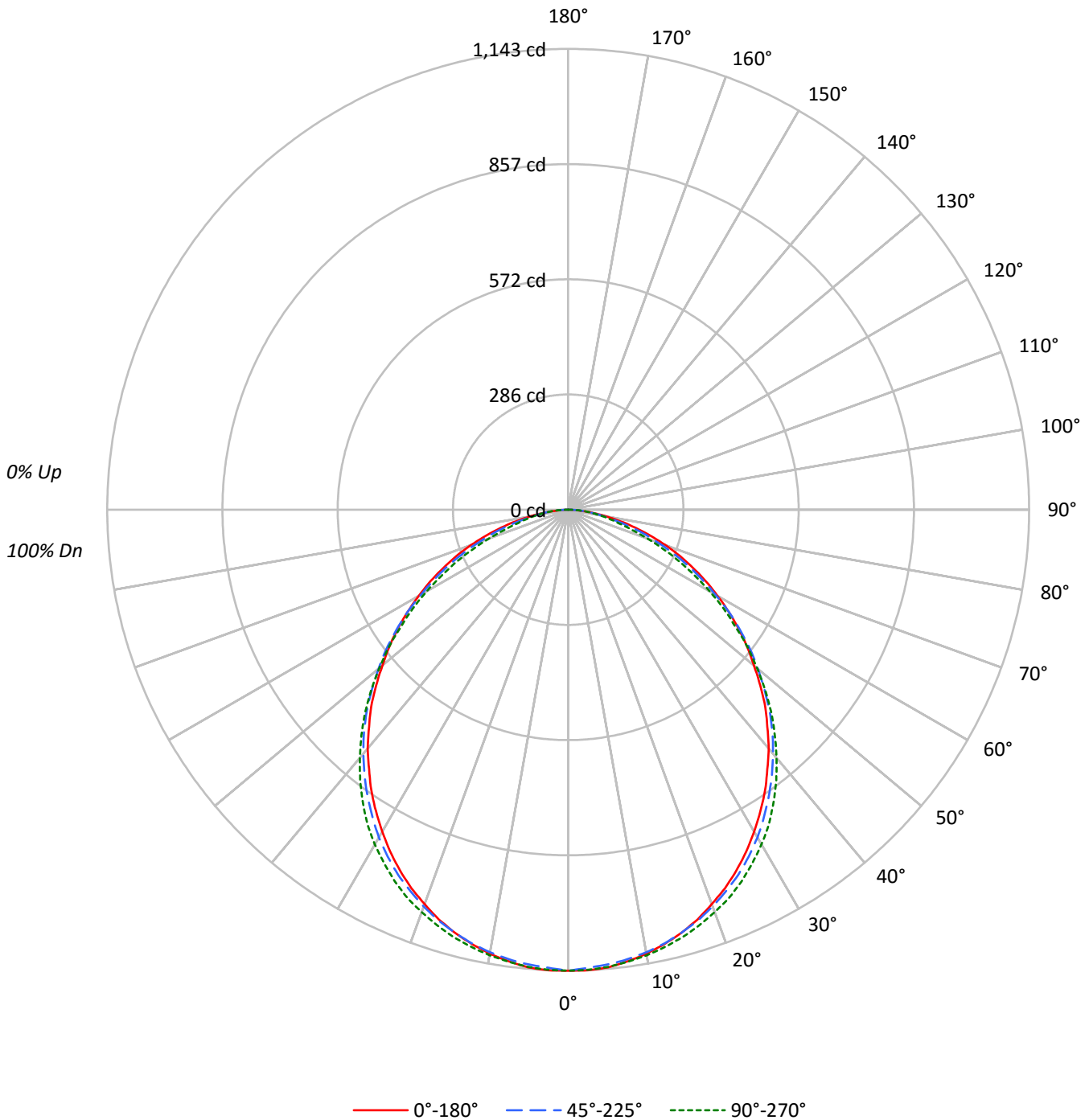
Input Watts (W): 28.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3077	3077	3077
5°	3079	3058	3075
10°	3056	3046	3066
15°	3025	3025	3057
20°	2981	2999	3042
25°	2931	2965	3020
30°	2866	2916	2978
35°	2796	2849	2915
40°	2717	2774	2823
45°	2630	2687	2711
50°	2516	2569	2558
55°	2421	2439	2374
60°	2300	2266	2179
65°	2173	2085	1941
70°	2016	1848	1642
75°	1794	1586	1352
80°	1491	1297	1258
85°	1081	1158	1158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.9	3.7
10°-20°	307.4	10.4
20°-30°	460.7	15.6
30°-40°	542.8	18.4
40°-50°	541.4	18.4
50°-60°	460.5	15.6
60°-70°	321.4	10.9
70°-80°	163.4	5.5
80°-90°	42.7	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°	876.0	29.7
0°-40°	1418.8	48.1
0°-60°	2420.6	82.1
0°-90°	2948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1140	1137	1132	1138	1138	108
15°	1086	1086	1086	1096	1097	306
25°	987	988	998	1014	1017	454
35°	851	852	867	885	887	532
45°	691	694	706	711	712	532
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°	1143.4	1143.4	1143.4	1143.4	1143.4
2.5°	1143.4	1142.2	1137.2	1142.2	1142.2
5°	1139.7	1137.2	1132.2	1138.4	1138.4
7.5°	1129.7	1128.4	1124.7	1130.9	1130.9
10°	1118.4	1117.2	1114.7	1122.2	1122.2
12.5°	1103.4	1103.4	1102.2	1109.7	1110.9
15°	1085.9	1085.9	1085.9	1095.9	1097.2
17.5°	1065.9	1064.7	1068.4	1079.7	1080.9
20°	1041.0	1042.2	1047.2	1059.7	1062.2
22.5°	1016.0	1017.2	1023.5	1038.5	1042.2
25°	987.2	988.5	998.5	1013.5	1017.2
27.5°	956.0	958.5	969.7	986.0	988.5
30°	922.2	924.7	938.5	954.7	958.5
32.5°	887.2	891.0	903.5	921.0	926.0
35°	851.0	852.3	867.3	884.8	887.2
37.5°	811.0	814.8	829.8	844.8	847.3
40°	773.5	776.0	789.8	802.3	803.5
42.5°	731.0	734.8	749.8	758.5	758.5
45°	691.1	693.6	706.1	711.0	712.3
47.5°	646.1	648.6	659.8	662.3	662.3
50°	601.1	607.3	613.6	613.6	611.1
52.5°	559.8	561.1	568.6	563.6	561.1
55°	516.1	516.1	519.9	512.4	506.1
57.5°	472.4	472.4	472.4	462.4	457.4
60°	427.4	426.1	421.1	408.6	404.9
62.5°	384.9	381.1	373.6	361.1	353.7
65°	341.2	336.2	327.4	309.9	304.9
67.5°	299.9	291.2	281.2	264.9	256.2
70°	256.2	248.7	234.9	216.2	208.7
72.5°	213.7	206.2	194.9	176.2	165.0
75°	172.5	166.2	152.5	133.7	130.0
77.5°	132.5	128.7	115.0	106.2	105.0
80°	96.2	95.0	83.7	81.2	81.2
82.5°	63.7	62.5	58.7	58.7	57.5
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)