

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: P297596

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-31L82765-LD5-UNV-14-T1-W2A-4500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3010.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

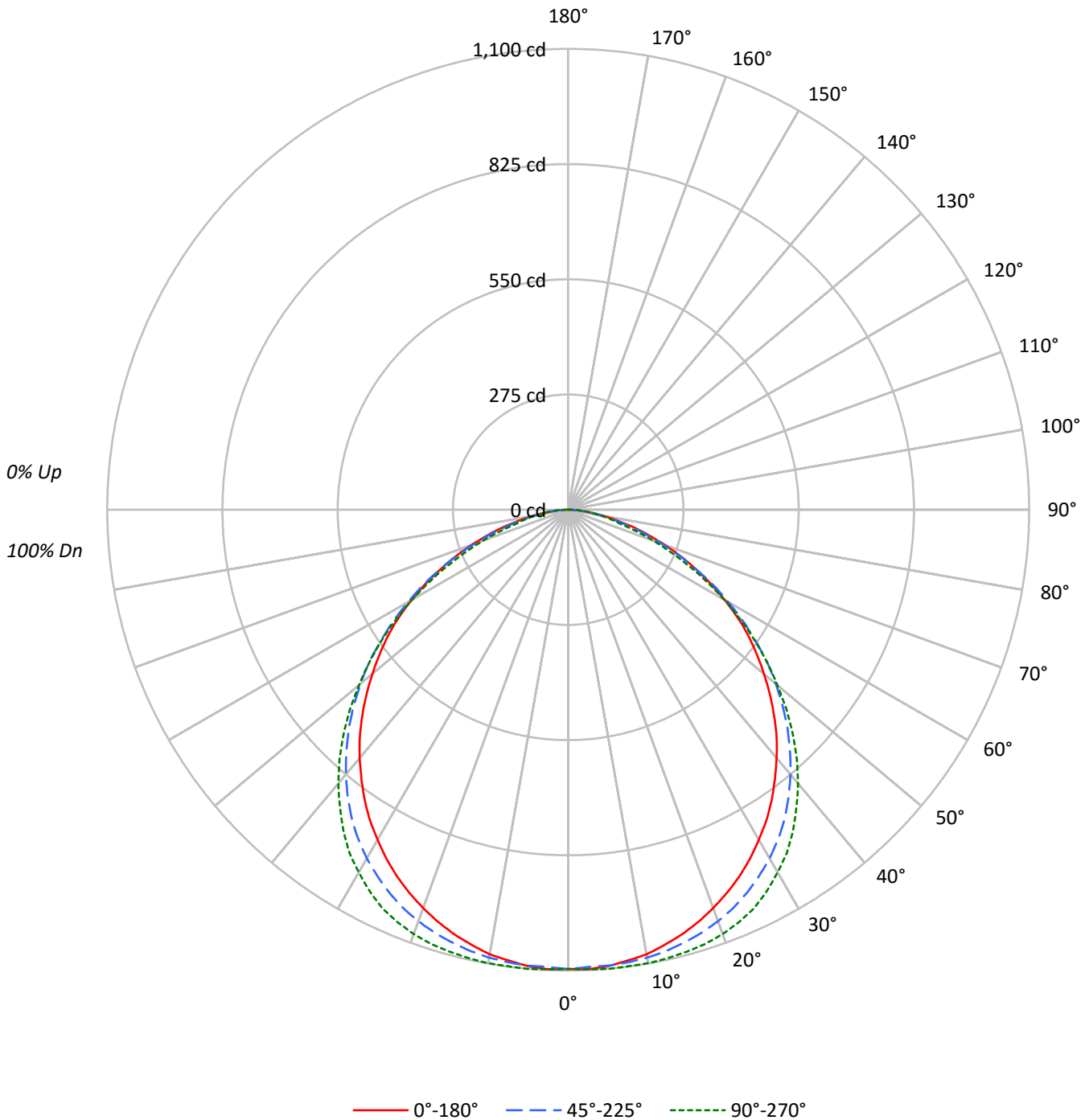
Input Watts (W): 28.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	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	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2950	2950	2950
5°	2954	2951	2972
10°	2945	2966	3003
15°	2924	2980	3043
20°	2897	2993	3086
25°	2869	2996	3116
30°	2826	2985	3106
35°	2781	2957	3072
40°	2719	2898	2997
45°	2643	2817	2884
50°	2554	2706	2728
55°	2464	2559	2547
60°	2321	2372	2314
65°	2139	2147	2027
70°	1913	1871	1702
75°	1663	1550	1313
80°	1333	1207	1207
85°	954	1121	1161



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	3.5
10°-20°	302.7	10.1
20°-30°	464.7	15.4
30°-40°	559.7	18.6
40°-50°	565.6	18.8
50°-60°	482.4	16.0
60°-70°	330.2	11.0
70°-80°	159.4	5.3
80°-90°	41.1	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°	871.6	29.0
0°-40°	1431.3	47.6
0°-60°	2479.3	82.4
0°-90°	3010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1094	1094	1092	1099	1100	104
15°	1049	1057	1070	1088	1092	296
25°	966	981	1009	1039	1049	445
35°	846	865	900	928	935	529
45°	695	714	740	758	758	536
55°	525	535	546	548	543	468
65°	336	340	337	325	318	333
75°	160	160	149	132	126	170
85°	31	34	36	38	38	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1096.4	1096.4	1096.4	1096.4	1096.4
2.5°	1097.7	1096.4	1092.4	1097.7	1097.7
5°	1093.7	1093.7	1092.4	1099.1	1100.4
7.5°	1085.6	1088.3	1089.7	1097.7	1099.1
10°	1077.6	1080.3	1085.6	1096.4	1099.1
12.5°	1064.1	1069.5	1078.9	1093.7	1096.4
15°	1049.4	1057.4	1069.5	1088.3	1092.4
17.5°	1031.9	1042.6	1058.8	1080.3	1087.0
20°	1011.7	1023.8	1045.3	1069.5	1077.6
22.5°	990.2	1003.7	1029.2	1057.4	1065.5
25°	966.1	980.8	1009.0	1038.6	1049.4
27.5°	939.2	955.3	986.2	1017.1	1026.5
30°	909.6	927.1	960.7	991.6	999.6
32.5°	880.1	897.5	932.5	962.0	971.4
35°	846.5	865.3	900.2	928.4	935.1
37.5°	810.2	829.0	863.9	892.2	894.8
40°	773.9	792.7	825.0	850.5	853.2
42.5°	736.3	753.8	783.3	804.8	807.5
45°	694.6	713.5	740.3	757.8	757.8
47.5°	653.0	671.8	694.6	706.7	706.7
50°	610.0	627.5	646.3	653.0	651.6
52.5°	567.0	583.1	599.2	600.6	597.9
55°	525.3	534.8	545.5	548.2	542.8
57.5°	479.7	487.7	494.4	490.4	486.4
60°	431.3	439.4	440.7	434.0	430.0
62.5°	384.3	391.0	391.0	380.2	373.5
65°	335.9	339.9	337.2	325.2	318.4
67.5°	290.2	292.9	287.5	275.4	264.7
70°	243.2	244.5	237.8	223.0	216.3
72.5°	200.2	201.5	193.5	176.0	168.0
75°	159.9	159.9	149.1	131.7	126.3
77.5°	119.6	123.6	111.5	102.1	102.1
80°	86.0	90.0	77.9	79.3	77.9
82.5°	56.4	60.5	56.4	56.4	56.4
85°	30.9	33.6	36.3	37.6	37.6
87.5°	9.4	16.1	17.5	18.8	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)