

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: P297600

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297600  
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-6500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3097.0 lumens  
Efficiency: N/A  
Efficacy: 104.6 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

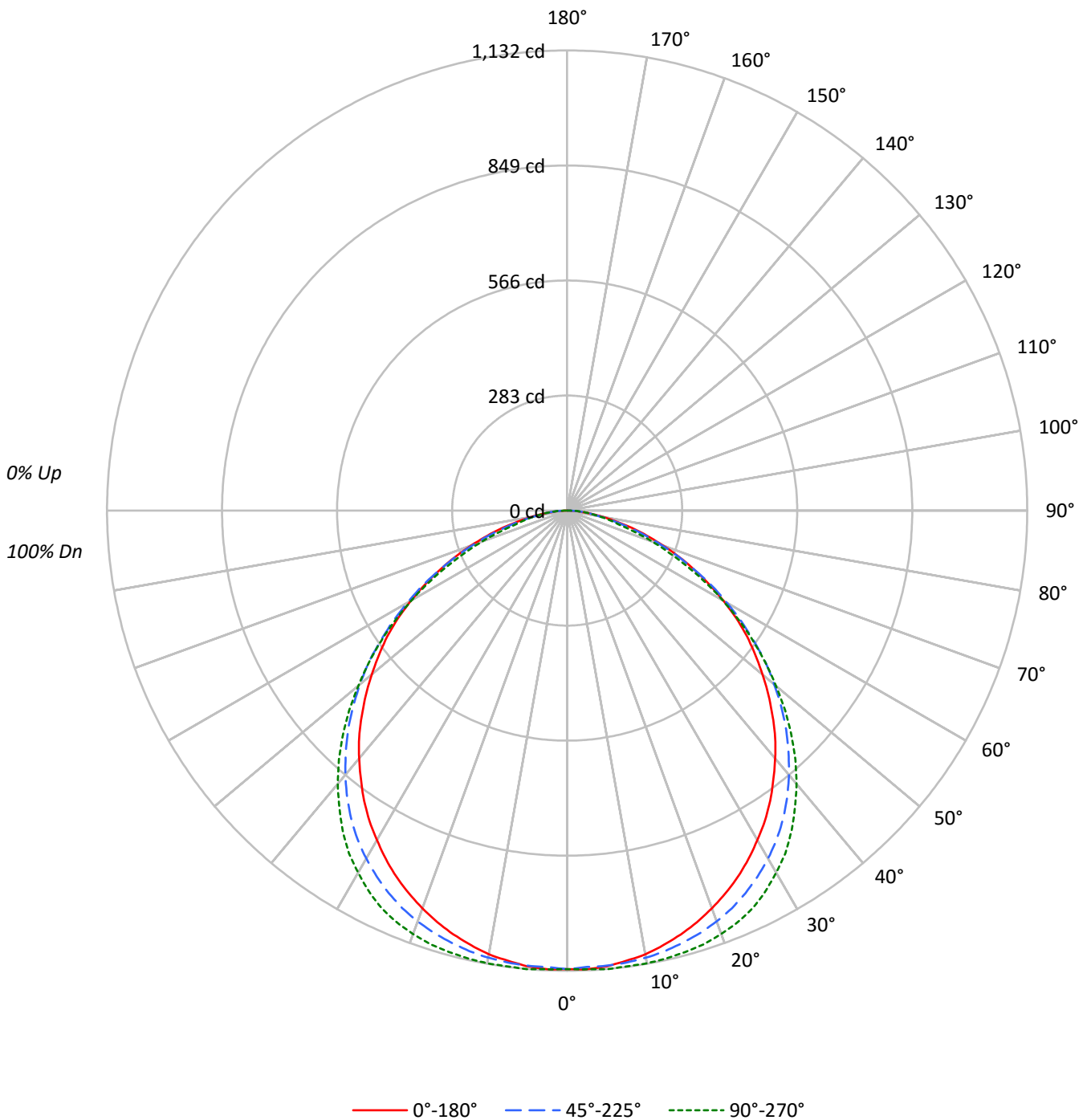
Input Watts (W): 29.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3036	3036	3036
5°	3040	3036	3058
10°	3030	3052	3090
15°	3008	3066	3131
20°	2981	3080	3175
25°	2951	3083	3206
30°	2908	3071	3196
35°	2861	3043	3161
40°	2797	2982	3084
45°	2720	2899	2967
50°	2627	2784	2807
55°	2536	2633	2620
60°	2389	2440	2381
65°	2201	2209	2086
70°	1969	1925	1751
75°	1710	1596	1351
80°	1371	1243	1243
85°	982	1152	1195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.3	3.5
10°-20°	311.4	10.1
20°-30°	478.1	15.4
30°-40°	575.8	18.6
40°-50°	581.9	18.8
50°-60°	496.4	16.0
60°-70°	339.8	11.0
70°-80°	164.0	5.3
80°-90°	42.3	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°	896.8	29.0
0°-40°	1472.7	47.6
0°-60°	2551.0	82.4
0°-90°	3097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3097.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1125	1125	1124	1131	1132	107
15°	1080	1088	1100	1120	1124	305
25°	994	1009	1038	1069	1080	458
35°	871	890	926	955	962	544
45°	715	734	762	780	780	551
55°	540	550	561	564	558	481
65°	346	350	347	335	328	343
75°	164	164	154	136	130	175
85°	32	35	37	39	39	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1128.1	1128.1	1128.1	1128.1	1128.1
2.5°	1129.5	1128.1	1123.9	1129.5	1129.5
5°	1125.3	1125.3	1123.9	1130.8	1132.2
7.5°	1117.0	1119.8	1121.2	1129.5	1130.8
10°	1108.7	1111.5	1117.0	1128.1	1130.8
12.5°	1094.9	1100.4	1110.1	1125.3	1128.1
15°	1079.7	1088.0	1100.4	1119.8	1123.9
17.5°	1061.7	1072.8	1089.4	1111.5	1118.4
20°	1041.0	1053.4	1075.5	1100.4	1108.7
22.5°	1018.9	1032.7	1058.9	1088.0	1096.3
25°	994.0	1009.2	1038.2	1068.6	1079.7
27.5°	966.3	982.9	1014.7	1046.5	1056.2
30°	935.9	953.9	988.4	1020.2	1028.5
32.5°	905.5	923.5	959.4	989.8	999.5
35°	870.9	890.3	926.2	955.3	962.2
37.5°	833.6	853.0	888.9	917.9	920.7
40°	796.3	815.6	848.8	875.1	877.8
42.5°	757.6	775.5	806.0	828.1	830.8
45°	714.7	734.1	761.7	779.7	779.7
47.5°	671.9	691.2	714.7	727.2	727.2
50°	627.6	645.6	665.0	671.9	670.5
52.5°	583.4	600.0	616.6	618.0	615.2
55°	540.5	550.2	561.3	564.0	558.5
57.5°	493.5	501.8	508.7	504.6	500.4
60°	443.8	452.1	453.4	446.5	442.4
62.5°	395.4	402.3	402.3	391.2	384.3
65°	345.6	349.8	347.0	334.6	327.6
67.5°	298.6	301.4	295.8	283.4	272.3
70°	250.2	251.6	244.7	229.5	222.6
72.5°	206.0	207.4	199.1	181.1	172.8
75°	164.5	164.5	153.5	135.5	129.9
77.5°	123.0	127.2	114.7	105.1	105.1
80°	88.5	92.6	80.2	81.6	80.2
82.5°	58.1	62.2	58.1	58.1	58.1
85°	31.8	34.6	37.3	38.7	38.7
87.5°	9.7	16.6	18.0	19.4	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)