

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: P297042

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L82765-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2910.0 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

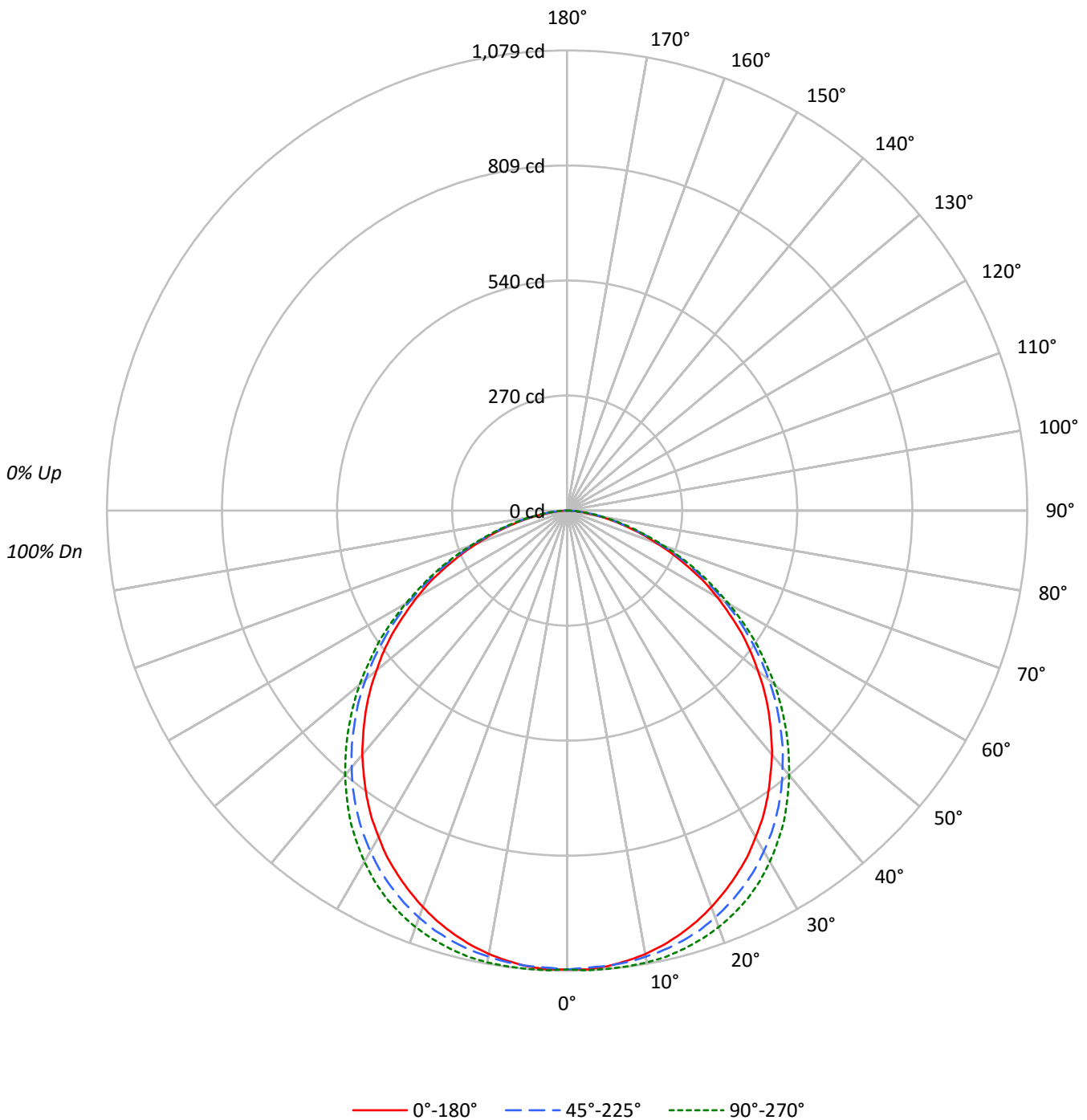
Input Watts (W): 21.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	47	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	26

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

	0°	45°	90°
0°	1447	1447	1447
5°	1449	1447	1457
10°	1443	1451	1470
15°	1432	1455	1481
20°	1416	1454	1488
25°	1397	1447	1489
30°	1373	1433	1477
35°	1346	1413	1457
40°	1313	1381	1423
45°	1271	1341	1380
50°	1222	1292	1331
55°	1169	1228	1267
60°	1094	1150	1178
65°	999	1052	1079
70°	878	923	947
75°	742	780	807
80°	590	646	662
85°	403	483	466



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.2	3.5
10°-20°	295.1	10.1
20°-30°	448.5	15.4
30°-40°	535.1	18.4
40°-50°	540.5	18.6
50°-60°	465.6	16.0
60°-70°	324.6	11.2
70°-80°	160.9	5.5
80°-90°	37.5	1.3
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°	845.8	29.1
0°-40°	1380.9	47.5
0°-60°	2387.0	82.0
0°-90°	2910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2910.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1073	1072	1072	1077	1079	102
15°	1028	1033	1044	1058	1063	290
25°	941	954	975	994	1003	434
35°	819	833	860	880	887	512
45°	668	683	705	721	726	515
55°	498	509	523	536	540	444
65°	314	320	330	334	339	312
75°	143	145	150	153	155	154
85°	26	31	31	29	30	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1075.8	1075.8	1075.8	1075.8	1075.8
2.5°	1076.8	1074.7	1072.6	1076.8	1078.9
5°	1072.6	1071.6	1071.6	1076.8	1078.9
7.5°	1065.3	1065.3	1068.5	1075.8	1077.9
10°	1056.0	1058.0	1062.2	1072.6	1075.8
12.5°	1043.5	1047.6	1054.9	1067.4	1071.6
15°	1027.8	1033.0	1044.5	1058.0	1063.3
17.5°	1010.1	1017.4	1032.0	1047.6	1052.8
20°	989.2	998.6	1015.3	1033.0	1039.3
22.5°	966.3	977.8	996.5	1015.3	1022.6
25°	941.3	953.8	974.7	994.5	1002.8
27.5°	915.2	927.7	950.7	970.5	978.8
30°	884.0	898.6	922.5	943.4	950.7
32.5°	853.7	868.3	893.3	912.1	919.4
35°	819.3	832.9	860.0	879.8	887.1
37.5°	782.8	798.5	824.5	842.3	848.5
40°	747.4	761.0	786.0	803.7	810.0
42.5°	707.8	722.4	747.4	763.0	768.3
45°	668.2	682.8	704.7	721.3	725.5
47.5°	627.5	641.1	663.0	676.5	680.7
50°	583.7	596.3	617.1	630.7	635.9
52.5°	542.1	553.5	571.2	582.7	585.8
55°	498.3	508.7	523.3	535.8	540.0
57.5°	451.4	462.8	476.4	486.8	489.9
60°	406.5	415.9	427.4	436.8	437.8
62.5°	362.8	366.9	377.4	385.7	386.7
65°	313.8	320.0	330.4	333.6	338.8
67.5°	268.9	273.1	281.5	285.6	289.8
70°	223.1	226.2	234.5	239.8	240.8
72.5°	183.5	184.5	190.8	194.9	196.0
75°	142.8	144.9	150.1	153.2	155.3
77.5°	108.4	110.5	114.7	116.7	116.7
80°	76.1	79.2	83.4	84.4	85.5
82.5°	49.0	53.2	56.3	57.3	55.2
85°	26.1	31.3	31.3	29.2	30.2
87.5°	9.4	11.5	12.5	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)