

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: P298021

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
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-22-T1-W2A-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2956.0 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

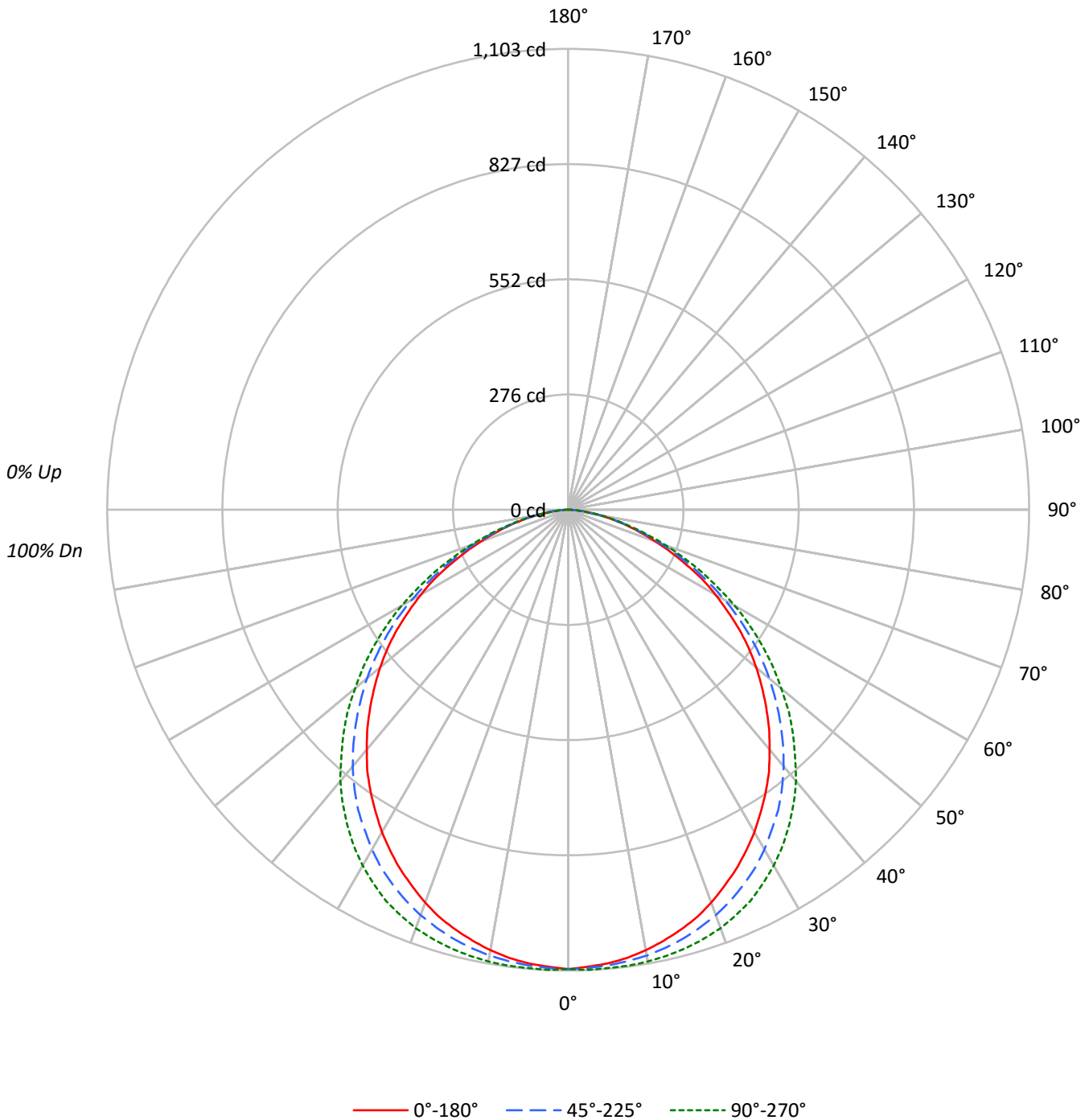
Input Watts (W): 24.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2959	2959	2959
5°	2944	2957	2974
10°	2926	2961	3000
15°	2899	2961	3027
20°	2866	2957	3053
25°	2820	2943	3066
30°	2769	2917	3055
35°	2708	2880	3027
40°	2633	2817	2979
45°	2549	2731	2895
50°	2458	2631	2784
55°	2344	2501	2657
60°	2192	2329	2483
65°	1986	2108	2239
70°	1753	1840	1940
75°	1506	1539	1604
80°	1209	1234	1257
85°	883	787	787



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	3.5
10°-20°	300.1	10.2
20°-30°	456.5	15.4
30°-40°	546.2	18.5
40°-50°	552.2	18.7
50°-60°	475.2	16.1
60°-70°	328.1	11.1
70°-80°	159.1	5.4
80°-90°	34.5	1.2
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°	860.8	29.1
0°-40°	1407.0	47.6
0°-60°	2434.4	82.4
0°-90°	2956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2956.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1090	1092	1095	1100	1101	103
15°	1041	1047	1063	1079	1087	294
25°	950	961	991	1022	1033	437
35°	824	838	877	908	921	515
45°	670	683	718	748	761	517
55°	500	508	533	557	566	445
65°	312	317	331	345	352	310
75°	145	142	148	153	154	154
85°	29	29	26	26	26	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1099.5	1099.5	1099.5	1099.5	1099.5
2.5°	1094.7	1094.7	1097.9	1101.0	1102.6
5°	1089.9	1091.5	1094.7	1099.5	1101.0
7.5°	1082.0	1083.5	1089.9	1097.9	1101.0
10°	1070.8	1074.0	1083.5	1093.1	1097.9
12.5°	1056.5	1062.9	1074.0	1086.7	1093.1
15°	1040.6	1047.0	1062.9	1078.8	1086.7
17.5°	1023.1	1029.4	1048.5	1069.2	1077.2
20°	1000.8	1010.4	1032.6	1056.5	1066.0
22.5°	975.4	988.1	1013.5	1039.0	1050.1
25°	949.9	961.0	991.3	1021.5	1032.6
27.5°	921.3	934.0	967.4	997.6	1008.8
30°	891.0	903.8	938.8	972.2	983.3
32.5°	857.6	873.5	906.9	941.9	954.7
35°	824.2	838.5	876.7	908.5	921.3
37.5°	789.2	801.9	840.1	873.5	886.2
40°	749.4	763.7	801.9	835.3	848.1
42.5°	711.2	725.5	760.6	792.4	803.5
45°	669.9	682.6	717.6	747.8	760.6
47.5°	628.5	642.8	673.0	703.3	716.0
50°	587.1	598.3	628.5	657.1	665.1
52.5°	544.2	553.7	580.8	606.2	617.4
55°	499.6	507.6	533.0	556.9	566.4
57.5°	451.9	461.4	485.3	502.8	513.9
60°	407.3	412.1	432.8	450.3	461.4
62.5°	362.8	364.4	380.3	397.8	404.1
65°	311.9	316.6	331.0	345.3	351.6
67.5°	265.7	270.5	281.6	292.8	297.5
70°	222.8	222.8	233.9	241.8	246.6
72.5°	179.8	181.4	189.3	194.1	198.9
75°	144.8	141.6	148.0	152.7	154.3
77.5°	108.2	106.6	111.4	113.0	116.2
80°	78.0	78.0	79.6	81.1	81.1
82.5°	50.9	50.9	52.5	49.3	47.7
85°	28.6	28.6	25.5	25.5	25.5
87.5°	9.5	9.5	9.5	11.1	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)