

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: P298023

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298023  
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-5500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3026.0 lumens  
Efficiency: N/A  
Efficacy: 120.6 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

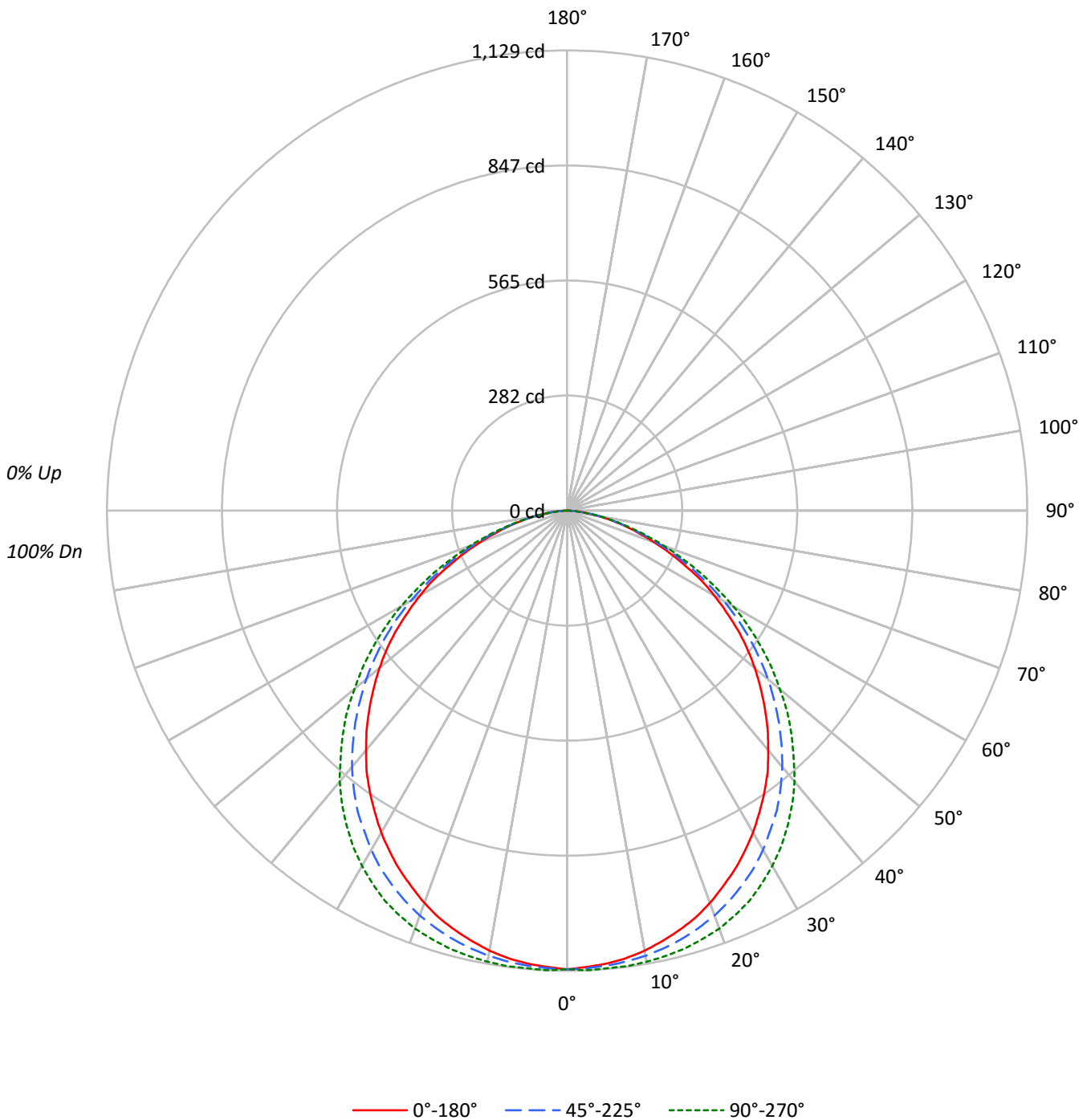
Input Watts (W): 25.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3029	3029	3029
5°	3014	3027	3045
10°	2995	3031	3071
15°	2968	3031	3099
20°	2934	3027	3125
25°	2887	3013	3139
30°	2834	2986	3128
35°	2772	2948	3098
40°	2695	2884	3049
45°	2610	2796	2963
50°	2516	2694	2850
55°	2399	2560	2720
60°	2244	2384	2542
65°	2032	2157	2292
70°	1794	1884	1987
75°	1541	1575	1643
80°	1237	1261	1288
85°	905	806	806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	3.5
10°-20°	307.2	10.2
20°-30°	467.3	15.4
30°-40°	559.1	18.5
40°-50°	565.2	18.7
50°-60°	486.4	16.1
60°-70°	335.8	11.1
70°-80°	162.8	5.4
80°-90°	35.3	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°	881.2	29.1
0°-40°	1440.3	47.6
0°-60°	2492.0	82.4
0°-90°	3026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1116	1117	1121	1126	1127	106
15°	1065	1072	1088	1104	1112	300
25°	972	984	1015	1046	1057	448
35°	844	858	898	930	943	527
45°	686	699	735	766	779	529
55°	511	520	546	570	580	456
65°	319	324	339	353	360	318
75°	148	145	152	156	158	157
85°	29	29	26	26	26	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1125.5	1125.5	1125.5	1125.5	1125.5
2.5°	1120.6	1120.6	1123.9	1127.1	1128.8
5°	1115.7	1117.4	1120.6	1125.5	1127.1
7.5°	1107.6	1109.2	1115.7	1123.9	1127.1
10°	1096.2	1099.4	1109.2	1119.0	1123.9
12.5°	1081.5	1088.0	1099.4	1112.5	1119.0
15°	1065.2	1071.7	1088.0	1104.3	1112.5
17.5°	1047.3	1053.8	1073.4	1094.5	1102.7
20°	1024.5	1034.3	1057.1	1081.5	1091.3
22.5°	998.4	1011.5	1037.5	1063.6	1075.0
25°	972.4	983.8	1014.7	1045.7	1057.1
27.5°	943.1	956.1	990.3	1021.3	1032.7
30°	912.1	925.2	961.0	995.2	1006.6
32.5°	877.9	894.2	928.4	964.2	977.3
35°	843.7	858.4	897.5	930.0	943.1
37.5°	807.9	820.9	860.0	894.2	907.2
40°	767.2	781.8	820.9	855.1	868.1
42.5°	728.1	742.7	778.6	811.1	822.5
45°	685.7	698.8	734.6	765.5	778.6
47.5°	643.4	658.0	689.0	719.9	733.0
50°	601.0	612.4	643.4	672.7	680.8
52.5°	557.0	566.8	594.5	620.6	632.0
55°	511.4	519.6	545.6	570.1	579.8
57.5°	462.6	472.3	496.8	514.7	526.1
60°	417.0	421.9	443.0	460.9	472.3
62.5°	371.4	373.0	389.3	407.2	413.7
65°	319.2	324.1	338.8	353.4	360.0
67.5°	272.0	276.9	288.3	299.7	304.6
70°	228.0	228.0	239.4	247.6	252.5
72.5°	184.1	185.7	193.8	198.7	203.6
75°	148.2	145.0	151.5	156.4	158.0
77.5°	110.8	109.1	114.0	115.6	118.9
80°	79.8	79.8	81.4	83.1	83.1
82.5°	52.1	52.1	53.8	50.5	48.9
85°	29.3	29.3	26.1	26.1	26.1
87.5°	9.8	9.8	9.8	11.4	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)