

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: P298107

Luminaire Tested: **D3X-WD-31L92765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298107  
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-31L92765-LD5-UNV-22-T1-W2A-5500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2732.0 lumens  
Efficiency: N/A  
Efficacy: 108.8 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

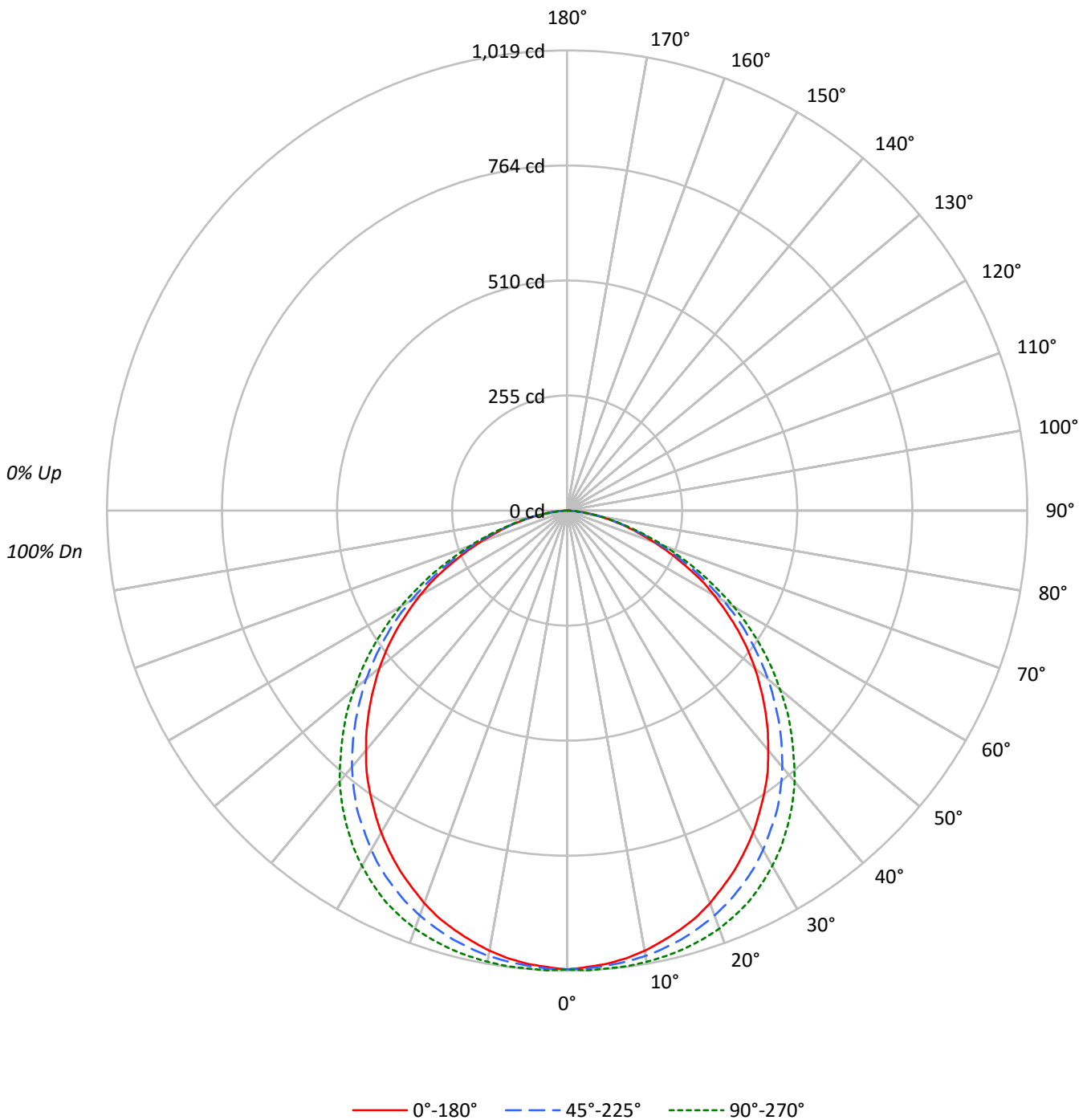
Input Watts (W): 25.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2734	2734	2734
5°	2721	2733	2749
10°	2704	2736	2773
15°	2679	2737	2798
20°	2649	2733	2822
25°	2607	2720	2834
30°	2559	2696	2824
35°	2502	2662	2797
40°	2433	2604	2753
45°	2356	2524	2675
50°	2272	2432	2573
55°	2166	2311	2456
60°	2026	2153	2295
65°	1835	1948	2069
70°	1620	1701	1793
75°	1391	1422	1483
80°	1117	1139	1162
85°	818	726	726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.3	3.5
10°-20°	277.4	10.2
20°-30°	421.9	15.4
30°-40°	504.8	18.5
40°-50°	510.3	18.7
50°-60°	439.2	16.1
60°-70°	303.2	11.1
70°-80°	147.0	5.4
80°-90°	31.9	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°	795.6	29.1
0°-40°	1300.4	47.6
0°-60°	2249.9	82.4
0°-90°	2732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2732.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1007	1009	1012	1016	1018	96
15°	962	968	982	997	1004	271
25°	878	888	916	944	954	404
35°	762	775	810	840	851	476
45°	619	631	663	691	703	478
55°	462	469	493	515	524	412
65°	288	293	306	319	325	287
75°	134	131	137	141	143	142
85°	26	26	24	24	24	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1016.1	1016.1	1016.1	1016.1	1016.1
2.5°	1011.7	1011.7	1014.7	1017.6	1019.1
5°	1007.3	1008.8	1011.7	1016.1	1017.6
7.5°	1000.0	1001.4	1007.3	1014.7	1017.6
10°	989.7	992.6	1001.4	1010.3	1014.7
12.5°	976.4	982.3	992.6	1004.4	1010.3
15°	961.7	967.6	982.3	997.0	1004.4
17.5°	945.6	951.4	969.1	988.2	995.6
20°	925.0	933.8	954.4	976.4	985.3
22.5°	901.4	913.2	936.7	960.3	970.6
25°	877.9	888.2	916.1	944.1	954.4
27.5°	851.4	863.2	894.1	922.0	932.3
30°	823.5	835.3	867.6	898.5	908.8
32.5°	792.6	807.3	838.2	870.6	882.3
35°	761.7	775.0	810.3	839.7	851.4
37.5°	729.4	741.2	776.4	807.3	819.1
40°	692.6	705.9	741.2	772.0	783.8
42.5°	657.3	670.6	702.9	732.3	742.6
45°	619.1	630.9	663.2	691.2	702.9
47.5°	580.9	594.1	622.0	650.0	661.7
50°	542.6	552.9	580.9	607.3	614.7
52.5°	502.9	511.7	536.7	560.3	570.6
55°	461.7	469.1	492.6	514.7	523.5
57.5°	417.6	426.5	448.5	464.7	475.0
60°	376.5	380.9	400.0	416.2	426.5
62.5°	335.3	336.8	351.5	367.6	373.5
65°	288.2	292.6	305.9	319.1	325.0
67.5°	245.6	250.0	260.3	270.6	275.0
70°	205.9	205.9	216.2	223.5	227.9
72.5°	166.2	167.6	175.0	179.4	183.8
75°	133.8	130.9	136.8	141.2	142.6
77.5°	100.0	98.5	102.9	104.4	107.3
80°	72.1	72.1	73.5	75.0	75.0
82.5°	47.1	47.1	48.5	45.6	44.1
85°	26.5	26.5	23.5	23.5	23.5
87.5°	8.8	8.8	8.8	10.3	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)