

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: P297732

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-14-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
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-14-T1-W2A-2700K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2714.0 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

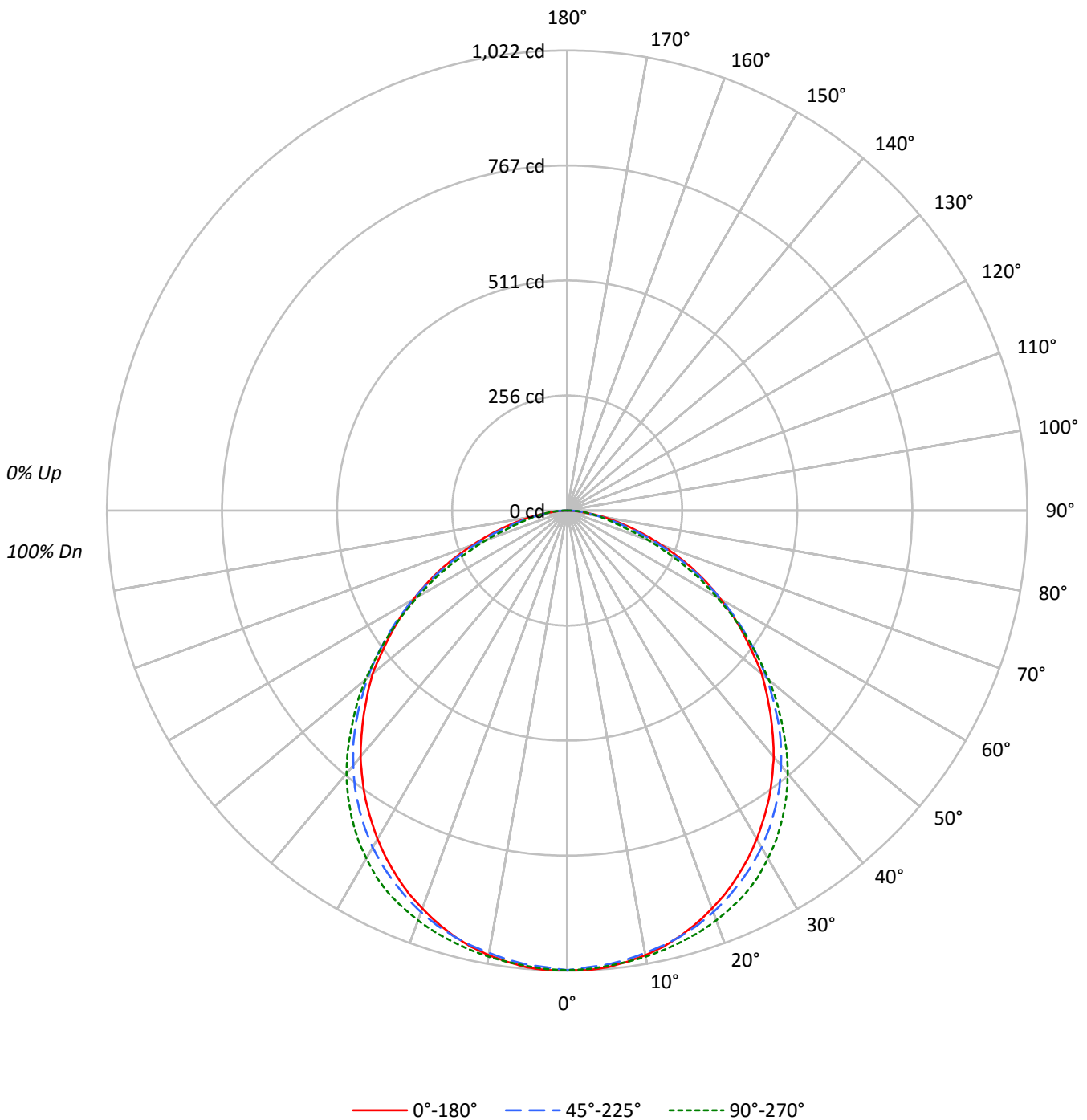
Input Watts (W): 28.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	2747	2747	2747
5°	2751	2734	2744
10°	2739	2726	2749
15°	2722	2725	2759
20°	2694	2718	2773
25°	2659	2703	2786
30°	2617	2685	2772
35°	2568	2647	2739
40°	2507	2596	2677
45°	2430	2522	2573
50°	2363	2424	2449
55°	2244	2289	2278
60°	2123	2123	2064
65°	1971	1924	1816
70°	1747	1671	1509
75°	1514	1376	1161
80°	1241	1072	1054
85°	824	976	1050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	3.6
10°-20°	277.0	10.2
20°-30°	421.0	15.5
30°-40°	504.1	18.6
40°-50°	508.5	18.7
50°-60°	433.1	16.0
60°-70°	296.1	10.9
70°-80°	141.8	5.2
80°-90°	35.9	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°	794.5	29.3
0°-40°	1298.6	47.8
0°-60°	2240.2	82.5
0°-90°	2714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2714.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1018	1017	1012	1017	1016	97
15°	977	975	978	989	990	275
25°	896	897	910	931	938	413
35°	782	784	806	829	834	488
45°	638	643	663	676	676	493
55°	478	481	488	489	486	428
65°	310	303	302	291	285	305
75°	146	143	132	115	112	156
85°	27	29	32	33	34	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1020.7	1020.7	1020.7	1020.7	1020.7
2.5°	1021.9	1020.7	1015.8	1020.7	1019.5
5°	1018.3	1017.0	1012.2	1017.0	1015.8
7.5°	1011.0	1009.8	1006.1	1011.0	1011.0
10°	1002.5	1000.1	997.6	1004.9	1006.1
12.5°	991.6	989.1	989.1	997.6	998.8
15°	977.0	974.6	978.2	989.1	990.3
17.5°	960.0	958.8	964.9	978.2	980.6
20°	940.6	939.4	949.1	964.9	968.5
22.5°	920.0	920.0	930.9	949.1	953.9
25°	895.7	896.9	910.2	930.9	938.2
27.5°	870.2	872.6	888.4	911.5	917.5
30°	842.3	845.9	864.1	886.0	892.0
32.5°	811.9	815.6	836.2	859.3	865.3
35°	781.6	784.0	805.9	828.9	833.8
37.5°	747.6	751.3	774.3	794.9	799.8
40°	713.6	717.3	739.1	758.5	762.2
42.5°	676.0	680.9	702.7	718.5	720.9
45°	638.4	643.2	662.7	676.0	676.0
47.5°	600.8	603.2	620.2	633.5	632.3
50°	564.4	563.1	578.9	585.0	585.0
52.5°	519.4	523.1	534.0	537.6	534.0
55°	478.2	480.6	487.9	489.1	485.5
57.5°	438.1	436.9	443.0	439.3	434.5
60°	394.4	394.4	394.4	390.8	383.5
62.5°	352.0	349.5	348.3	339.8	336.2
65°	309.5	303.4	302.2	291.3	285.2
67.5°	264.6	262.1	256.1	245.2	234.2
70°	222.1	219.7	212.4	199.0	191.8
72.5°	183.3	180.8	171.1	155.3	145.6
75°	145.6	143.2	132.3	115.3	111.7
77.5°	110.4	109.2	98.3	89.8	88.6
80°	80.1	78.9	69.2	69.2	68.0
82.5°	51.0	51.0	48.5	49.8	51.0
85°	26.7	29.1	31.6	32.8	34.0
87.5°	8.5	13.4	15.8	17.0	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)