

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: P297559

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-31L83050-LD5-UNV-14-T1-W2A-3000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2800.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

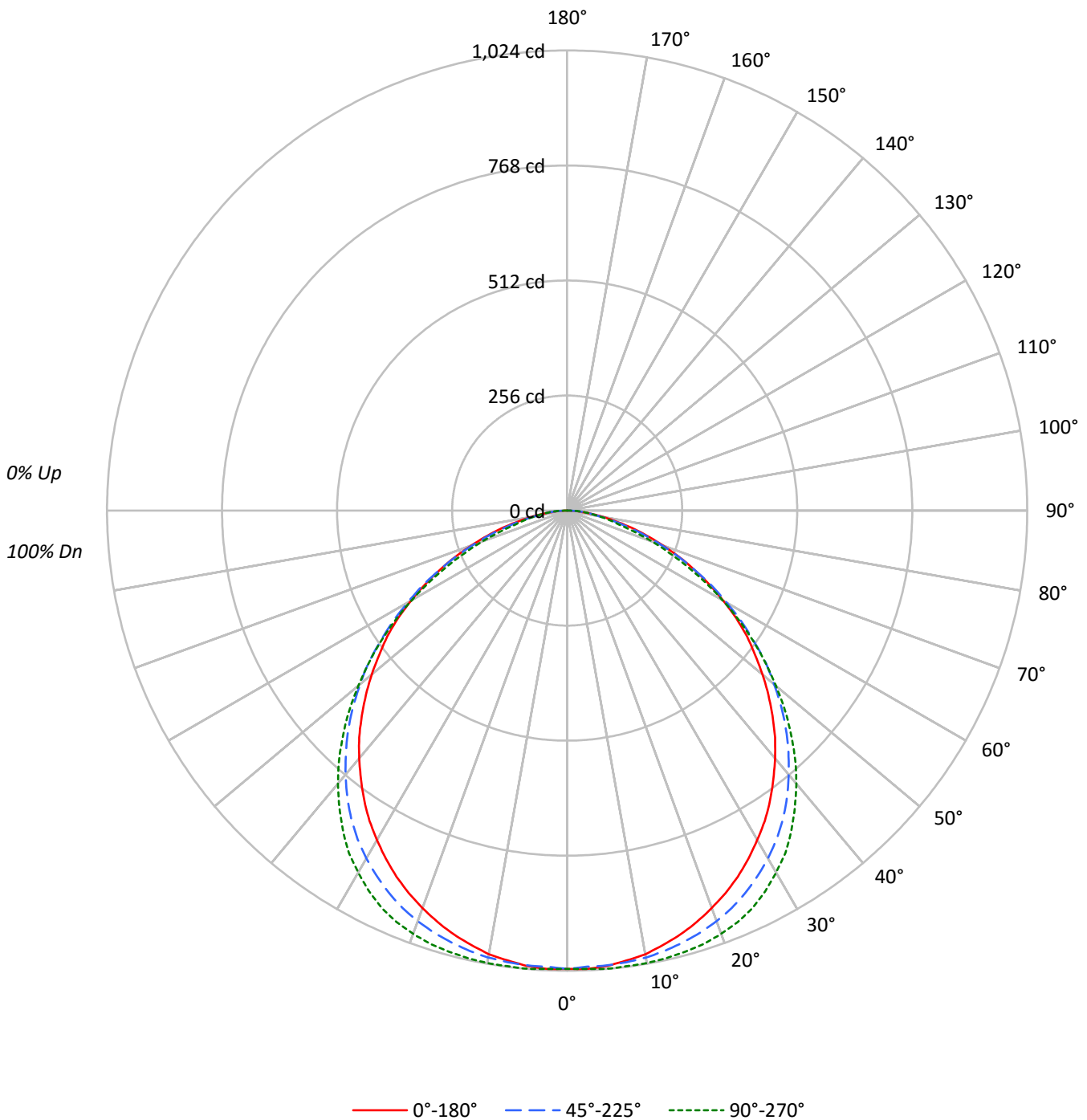
Input Watts (W): 28.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	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	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	25

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

	0°	45°	90°
0°	2745	2745	2745
5°	2748	2745	2765
10°	2739	2760	2794
15°	2719	2772	2831
20°	2695	2785	2871
25°	2668	2787	2898
30°	2629	2777	2889
35°	2587	2751	2858
40°	2529	2696	2788
45°	2459	2621	2683
50°	2375	2517	2538
55°	2293	2381	2369
60°	2159	2207	2153
65°	1990	1997	1886
70°	1780	1740	1583
75°	1546	1442	1222
80°	1240	1124	1124
85°	886	1041	1081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	3.5
10°-20°	281.5	10.1
20°-30°	432.3	15.4
30°-40°	520.6	18.6
40°-50°	526.1	18.8
50°-60°	448.8	16.0
60°-70°	307.2	11.0
70°-80°	148.2	5.3
80°-90°	38.2	1.4
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°	810.8	29.0
0°-40°	1331.5	47.6
0°-60°	2306.3	82.4
0°-90°	2800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1017	1017	1016	1022	1024	97
15°	976	984	995	1012	1016	275
25°	899	912	939	966	976	414
35°	787	805	837	864	870	492
45°	646	664	689	705	705	498
55°	489	497	507	510	505	435
65°	312	316	314	302	296	310
75°	149	149	139	122	118	158
85°	29	31	34	35	35	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1019.9	1019.9	1019.9	1019.9	1019.9
2.5°	1021.1	1019.9	1016.1	1021.1	1021.1
5°	1017.4	1017.4	1016.1	1022.4	1023.6
7.5°	1009.9	1012.4	1013.6	1021.1	1022.4
10°	1002.4	1004.9	1009.9	1019.9	1022.4
12.5°	989.9	994.9	1003.6	1017.4	1019.9
15°	976.1	983.6	994.9	1012.4	1016.1
17.5°	959.9	969.9	984.9	1004.9	1011.1
20°	941.1	952.4	972.4	994.9	1002.4
22.5°	921.2	933.6	957.4	983.6	991.1
25°	898.7	912.4	938.6	966.1	976.1
27.5°	873.7	888.7	917.4	946.1	954.9
30°	846.2	862.4	893.7	922.4	929.9
32.5°	818.7	834.9	867.4	894.9	903.7
35°	787.4	804.9	837.4	863.7	869.9
37.5°	753.7	771.2	803.7	829.9	832.4
40°	719.9	737.4	767.4	791.2	793.7
42.5°	684.9	701.2	728.7	748.7	751.2
45°	646.2	663.7	688.7	704.9	704.9
47.5°	607.4	624.9	646.2	657.4	657.4
50°	567.4	583.7	601.2	607.4	606.2
52.5°	527.4	542.4	557.4	558.7	556.2
55°	488.7	497.4	507.4	509.9	504.9
57.5°	446.2	453.7	460.0	456.2	452.5
60°	401.2	408.7	410.0	403.7	400.0
62.5°	357.5	363.7	363.7	353.7	347.5
65°	312.5	316.2	313.7	302.5	296.2
67.5°	270.0	272.5	267.5	256.2	246.2
70°	226.2	227.5	221.2	207.5	201.2
72.5°	186.2	187.5	180.0	163.7	156.2
75°	148.7	148.7	138.7	122.5	117.5
77.5°	111.2	115.0	103.7	95.0	95.0
80°	80.0	83.7	72.5	73.7	72.5
82.5°	52.5	56.2	52.5	52.5	52.5
85°	28.7	31.2	33.7	35.0	35.0
87.5°	8.7	15.0	16.2	17.5	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)