

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: P297670

Luminaire Tested: **D3X-WD-31L92765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297670  
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-31L92765-LD5-UNV-14-T1-W2A-6500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2812.0 lumens  
Efficiency: N/A  
Efficacy: 95.0 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

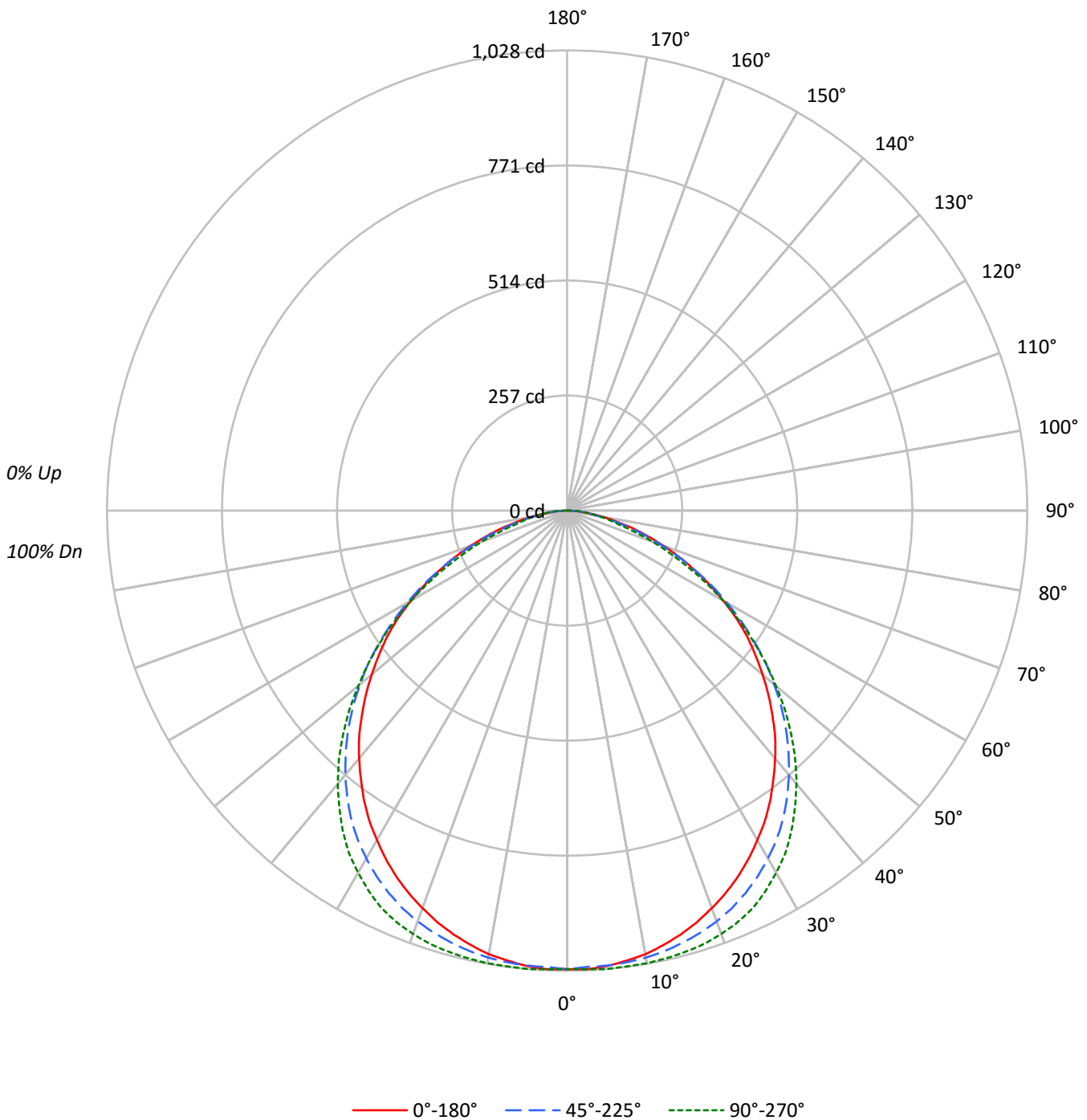
Input Watts (W): 29.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2756	2756	2756
5°	2760	2757	2777
10°	2751	2771	2806
15°	2731	2784	2843
20°	2707	2797	2883
25°	2680	2799	2911
30°	2641	2789	2902
35°	2598	2763	2870
40°	2540	2707	2800
45°	2469	2632	2694
50°	2386	2528	2549
55°	2303	2391	2379
60°	2168	2216	2162
65°	1998	2006	1894
70°	1788	1748	1590
75°	1553	1448	1227
80°	1244	1128	1128
85°	892	1047	1084



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.4	3.5
10°-20°	282.7	10.1
20°-30°	434.1	15.4
30°-40°	522.9	18.6
40°-50°	528.4	18.8
50°-60°	450.7	16.0
60°-70°	308.5	11.0
70°-80°	148.9	5.3
80°-90°	38.4	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°	814.3	29.0
0°-40°	1337.2	47.6
0°-60°	2316.2	82.4
0°-90°	2812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1022	1022	1020	1027	1028	97
15°	980	988	999	1017	1020	277
25°	902	916	943	970	980	416
35°	791	808	841	867	874	494
45°	649	666	692	708	708	500
55°	491	500	510	512	507	437
65°	314	318	315	304	298	311
75°	149	149	139	123	118	159
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°	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1025.5	1024.3	1020.5	1025.5	1025.5
5°	1021.8	1021.8	1020.5	1026.8	1028.0
7.5°	1014.2	1016.7	1018.0	1025.5	1026.8
10°	1006.7	1009.2	1014.2	1024.3	1026.8
12.5°	994.1	999.2	1007.9	1021.8	1024.3
15°	980.3	987.9	999.2	1016.7	1020.5
17.5°	964.0	974.1	989.1	1009.2	1015.5
20°	945.2	956.5	976.6	999.2	1006.7
22.5°	925.1	937.7	961.5	987.9	995.4
25°	902.5	916.3	942.7	970.3	980.3
27.5°	877.4	892.5	921.3	950.2	959.0
30°	849.8	866.1	897.5	926.4	933.9
32.5°	822.2	838.5	871.1	898.7	907.5
35°	790.8	808.4	841.0	867.4	873.6
37.5°	756.9	774.5	807.1	833.5	836.0
40°	723.0	740.6	770.7	794.6	797.1
42.5°	687.9	704.2	731.8	751.9	754.4
45°	648.9	666.5	691.6	707.9	707.9
47.5°	610.0	627.6	648.9	660.2	660.2
50°	569.9	586.2	603.8	610.0	608.8
52.5°	529.7	544.8	559.8	561.1	558.6
55°	490.8	499.6	509.6	512.1	507.1
57.5°	448.1	455.6	461.9	458.2	454.4
60°	402.9	410.5	411.7	405.4	401.7
62.5°	359.0	365.3	365.3	355.2	349.0
65°	313.8	317.6	315.1	303.8	297.5
67.5°	271.1	273.6	268.6	257.3	247.3
70°	227.2	228.5	222.2	208.4	202.1
72.5°	187.0	188.3	180.8	164.4	156.9
75°	149.4	149.4	139.3	123.0	118.0
77.5°	111.7	115.5	104.2	95.4	95.4
80°	80.3	84.1	72.8	74.1	72.8
82.5°	52.7	56.5	52.7	52.7	52.7
85°	28.9	31.4	33.9	35.1	35.1
87.5°	8.8	15.1	16.3	17.6	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)