

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: P297403

Luminaire Tested: **D3X-WO-80L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-80L82765-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8048.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

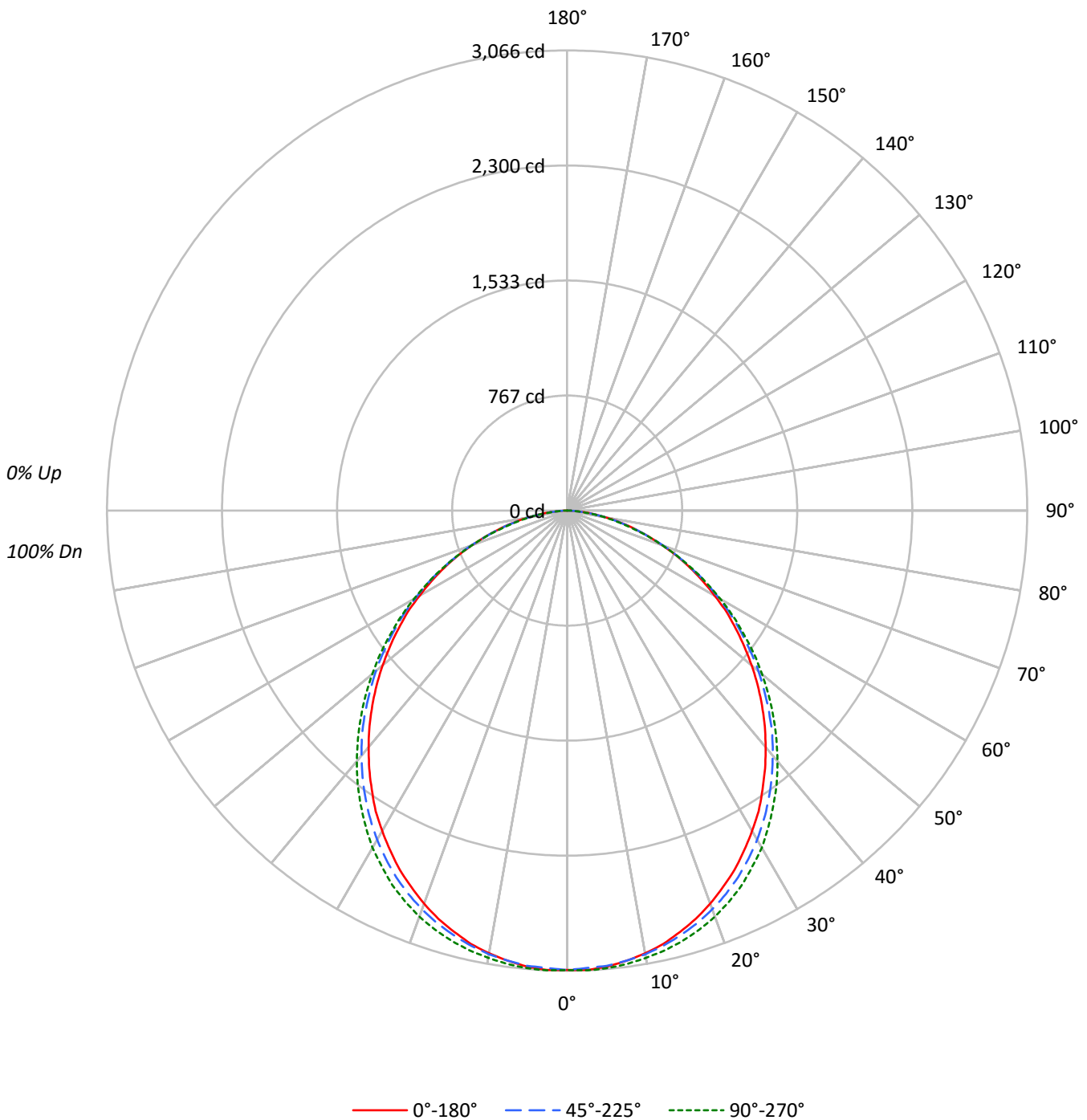
Input Watts (W): 61.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	4118	4118	4118
5°	4119	4112	4134
10°	4093	4100	4134
15°	4048	4079	4135
20°	3991	4049	4123
25°	3920	4001	4089
30°	3829	3934	4031
35°	3727	3847	3937
40°	3614	3743	3828
45°	3492	3621	3699
50°	3360	3484	3547
55°	3218	3320	3371
60°	3057	3137	3173
65°	2883	2926	2943
70°	2645	2677	2645
75°	2382	2368	2297
80°	2017	1996	1932
85°	1507	1465	1297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.8	3.6
10°-20°	827.8	10.3
20°-30°	1241.2	15.4
30°-40°	1461.7	18.2
40°-50°	1462.0	18.2
50°-60°	1261.4	15.7
60°-70°	907.7	11.3
70°-80°	481.5	6.0
80°-90°	114.8	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°	2358.9	29.3
0°-40°	3820.6	47.5
0°-60°	6544.0	81.3
0°-90°	8048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8048.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3061	3061	3061	3061	3061	
5°	3050	3047	3044	3055	3061	289
15°	2906	2914	2928	2958	2969	820
25°	2641	2657	2695	2741	2754	1215
35°	2269	2296	2342	2383	2397	1420
45°	1835	1860	1903	1936	1944	1416
55°	1372	1385	1415	1440	1437	1228
65°	906	908	919	924	924	896
75°	458	453	456	445	442	487
85°	98	98	95	87	84	118
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3060.8	3060.8	3060.8	3060.8	3060.8
2.5°	3063.5	3058.1	3050.0	3060.8	3066.2
5°	3050.0	3047.2	3044.5	3055.4	3060.8
7.5°	3025.6	3028.3	3025.6	3041.8	3047.2
10°	2995.7	2998.4	3001.2	3020.1	3025.6
12.5°	2957.8	2960.5	2968.6	2993.0	3001.2
15°	2906.3	2914.4	2928.0	2957.8	2968.6
17.5°	2852.1	2862.9	2881.9	2917.1	2928.0
20°	2787.0	2800.5	2827.7	2865.6	2879.2
22.5°	2713.8	2727.3	2765.3	2806.0	2819.5
25°	2640.6	2656.9	2694.8	2740.9	2754.5
27.5°	2553.8	2575.5	2616.2	2662.3	2673.1
30°	2464.4	2483.3	2532.1	2575.5	2594.5
32.5°	2374.9	2393.9	2440.0	2483.3	2496.9
35°	2269.2	2296.3	2342.4	2383.0	2396.6
37.5°	2166.1	2190.5	2239.3	2280.0	2293.6
40°	2057.7	2079.4	2130.9	2168.9	2179.7
42.5°	1949.3	1971.0	2022.5	2052.3	2063.1
45°	1835.4	1859.8	1903.2	1935.7	1943.8
47.5°	1721.5	1740.5	1781.2	1811.0	1821.8
50°	1605.0	1623.9	1664.6	1689.0	1694.4
52.5°	1488.4	1501.9	1539.9	1561.6	1569.7
55°	1371.8	1385.4	1415.2	1439.6	1436.9
57.5°	1260.6	1266.1	1295.9	1312.2	1312.2
60°	1135.9	1141.4	1165.8	1176.6	1179.3
62.5°	1019.4	1027.5	1046.5	1049.2	1049.2
65°	905.5	908.2	919.1	924.5	924.5
67.5°	791.6	788.9	799.8	799.8	797.1
70°	672.3	677.8	680.5	675.1	672.3
72.5°	563.9	561.2	561.2	558.5	558.5
75°	458.2	452.7	455.5	444.6	441.9
77.5°	360.6	352.4	349.7	344.3	338.9
80°	260.3	260.3	257.6	252.1	249.4
82.5°	173.5	173.5	170.8	165.4	160.0
85°	97.6	97.6	94.9	86.8	84.0
87.5°	32.5	32.5	32.5	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)