

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: P296839

Luminaire Tested: **D3X-WD-74L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-74L82765-LD5-UNV-24-T1-W2A-6500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7294.0 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

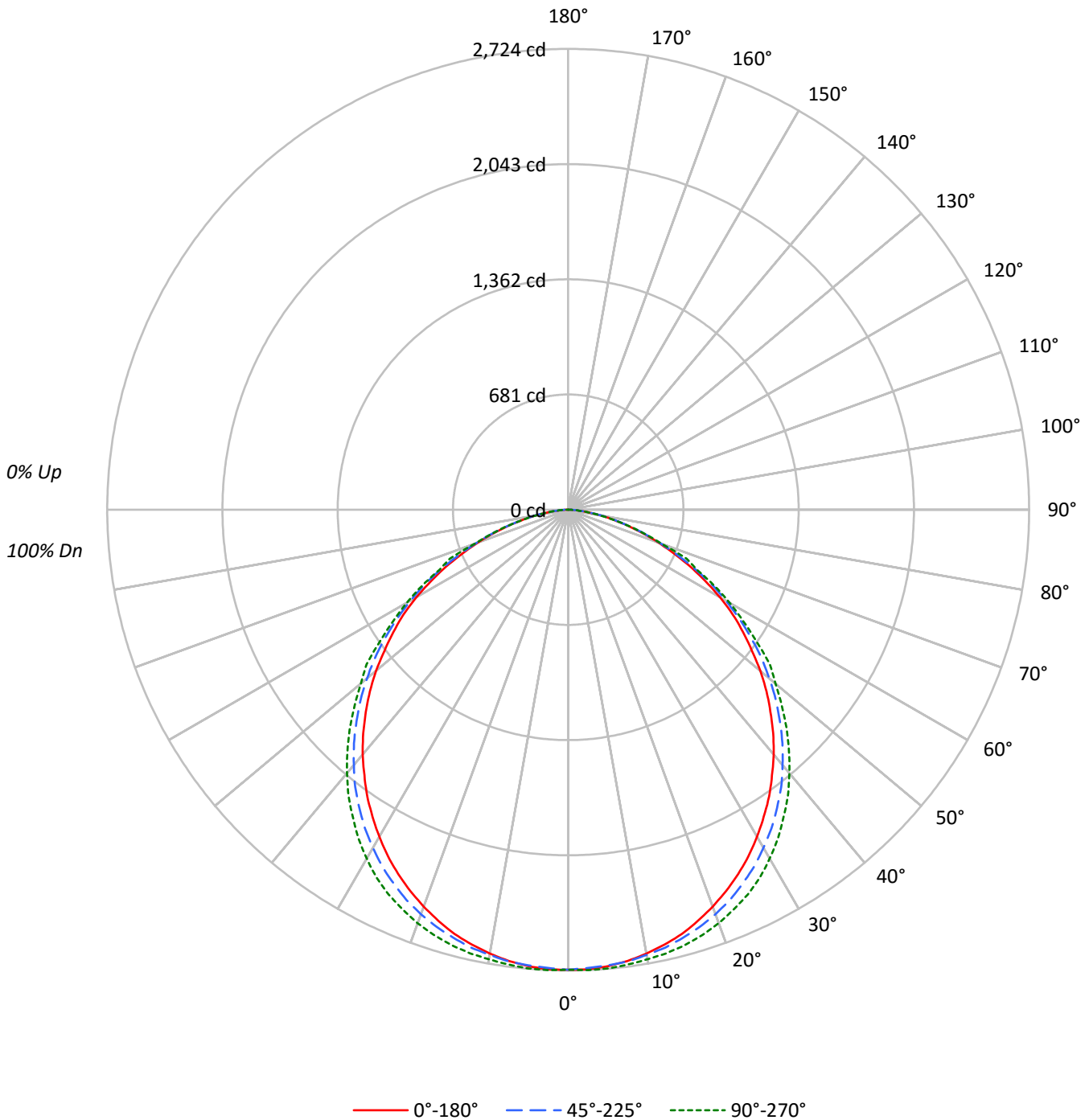
Input Watts (W): 57.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	94	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	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	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	3659	3659	3659
5°	3658	3651	3676
10°	3640	3651	3686
15°	3616	3649	3711
20°	3575	3642	3725
25°	3528	3621	3726
30°	3468	3586	3700
35°	3400	3533	3645
40°	3319	3461	3572
45°	3217	3366	3471
50°	3101	3248	3347
55°	2959	3094	3186
60°	2789	2894	2965
65°	2533	2616	2666
70°	2224	2275	2306
75°	1878	1905	1918
80°	1501	1521	1480
85°	1010	1050	1010



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.7	3.5
10°-20°	741.1	10.2
20°-30°	1124.4	15.4
30°-40°	1342.4	18.4
40°-50°	1359.0	18.6
50°-60°	1174.7	16.1
60°-70°	814.2	11.2
70°-80°	393.9	5.4
80°-90°	86.6	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°	2123.1	29.1
0°-40°	3465.5	47.5
0°-60°	5999.3	82.2
0°-90°	7294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7294.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2719	2719	2719	2719	2719	
5°	2709	2706	2703	2716	2722	257
15°	2596	2601	2620	2651	2664	732
25°	2376	2392	2439	2489	2510	1094
35°	2070	2088	2151	2206	2219	1293
45°	1691	1714	1769	1814	1824	1304
55°	1261	1274	1319	1374	1358	1127
65°	796	803	822	835	838	787
75°	361	364	366	364	369	388
85°	65	71	68	65	65	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2719.2	2719.2	2719.2	2719.2	2719.2
2.5°	2719.2	2716.5	2711.3	2719.2	2724.4
5°	2708.7	2706.1	2703.4	2716.5	2721.8
7.5°	2690.4	2690.4	2693.0	2706.1	2711.3
10°	2664.2	2666.8	2672.0	2693.0	2698.2
12.5°	2632.8	2638.0	2651.1	2674.7	2685.1
15°	2596.1	2601.4	2619.7	2651.1	2664.2
17.5°	2549.0	2559.5	2585.7	2622.3	2635.4
20°	2496.7	2509.8	2543.8	2585.7	2601.4
22.5°	2439.1	2452.2	2496.7	2541.2	2556.9
25°	2376.3	2392.0	2439.1	2488.8	2509.8
27.5°	2308.3	2326.6	2378.9	2431.3	2452.2
30°	2232.4	2253.3	2308.3	2363.2	2381.5
32.5°	2151.2	2172.2	2235.0	2287.3	2305.7
35°	2070.1	2088.4	2151.2	2206.2	2219.3
37.5°	1978.5	1999.5	2067.5	2114.6	2132.9
40°	1889.5	1910.5	1970.7	2017.8	2033.5
42.5°	1792.7	1813.6	1873.8	1918.3	1931.4
45°	1690.6	1714.2	1769.1	1813.6	1824.1
47.5°	1588.6	1606.9	1664.5	1703.7	1711.6
50°	1481.3	1499.6	1551.9	1591.2	1599.0
52.5°	1368.7	1397.5	1439.4	1468.2	1502.2
55°	1261.4	1274.5	1319.0	1374.0	1358.3
57.5°	1154.1	1162.0	1198.6	1222.2	1227.4
60°	1036.4	1046.8	1075.6	1088.7	1101.8
62.5°	913.4	921.2	955.2	968.3	973.6
65°	795.6	803.4	821.8	834.9	837.5
67.5°	675.2	683.1	698.8	709.2	756.3
70°	565.3	570.5	578.4	599.3	586.2
72.5°	460.6	463.2	471.1	471.1	473.7
75°	361.2	363.8	366.4	363.8	369.0
77.5°	269.6	274.8	277.4	274.8	272.2
80°	193.7	198.9	196.3	191.0	191.0
82.5°	125.6	128.2	125.6	123.0	123.0
85°	65.4	70.7	68.0	65.4	65.4
87.5°	23.6	26.2	28.8	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)