

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: P297309

Luminaire Tested: **D3X-WO-74L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297309  
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-74L83050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7025.0 lumens  
Efficiency: N/A  
Efficacy: 127.7 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

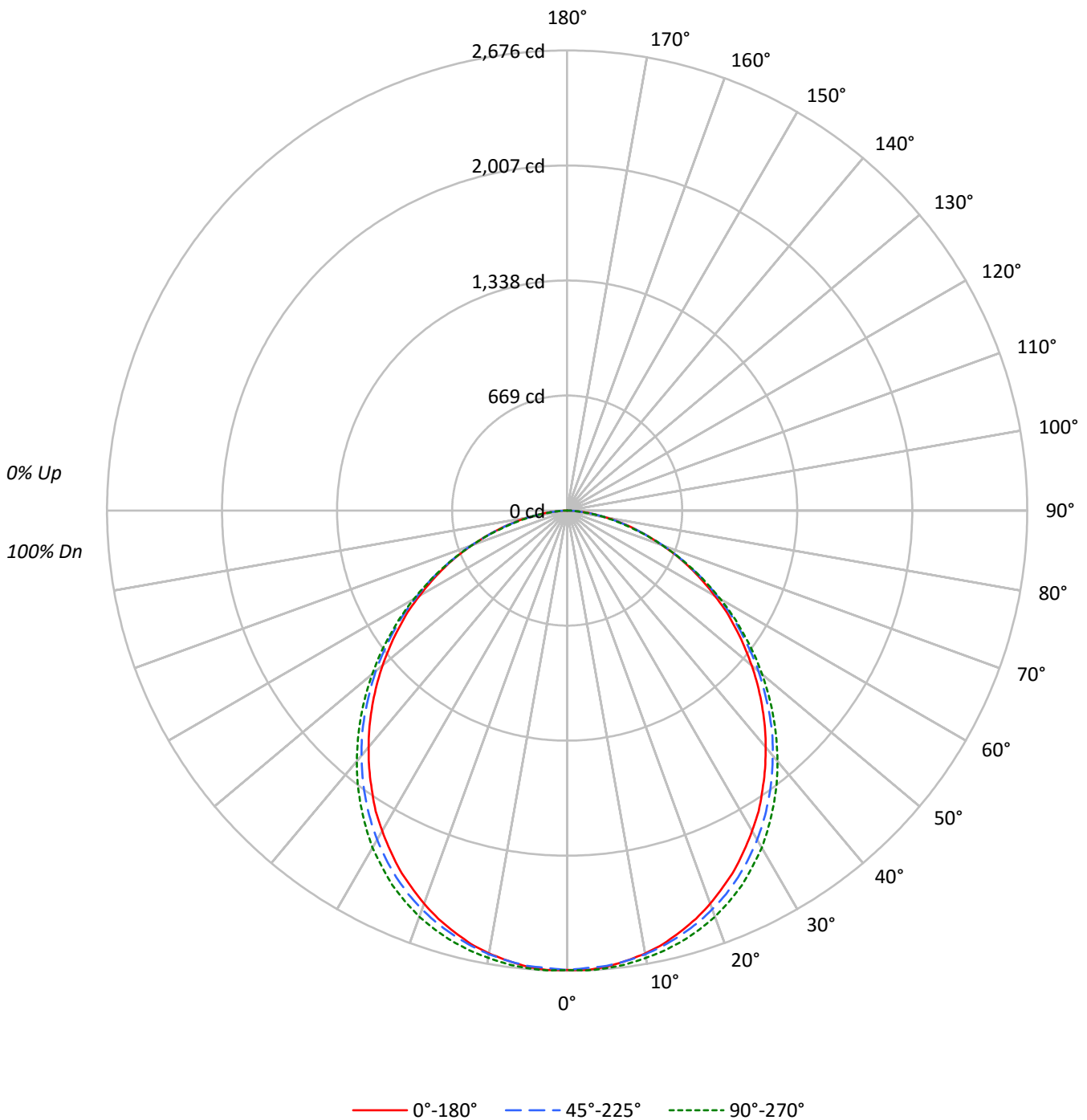
Input Watts (W): 55  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3595	3595	3595
5°	3596	3589	3608
10°	3573	3579	3608
15°	3534	3560	3610
20°	3483	3534	3599
25°	3422	3492	3569
30°	3342	3434	3519
35°	3253	3358	3436
40°	3155	3267	3342
45°	3048	3161	3229
50°	2932	3041	3096
55°	2809	2898	2942
60°	2668	2738	2770
65°	2516	2554	2569
70°	2309	2337	2309
75°	2079	2067	2005
80°	1760	1742	1687
85°	1315	1278	1133



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.0	3.6
10°-20°	722.6	10.3
20°-30°	1083.4	15.4
30°-40°	1275.9	18.2
40°-50°	1276.2	18.2
50°-60°	1101.1	15.7
60°-70°	792.3	11.3
70°-80°	420.3	6.0
80°-90°	100.2	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°	2059.0	29.3
0°-40°	3335.0	47.5
0°-60°	5712.2	81.3
0°-90°	7025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7025.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2672	2672	2672	2672	2672	
5°	2662	2660	2658	2667	2672	253
15°	2537	2544	2556	2582	2591	715
25°	2305	2319	2352	2392	2404	1060
35°	1981	2004	2045	2080	2092	1239
45°	1602	1623	1661	1690	1697	1236
55°	1197	1209	1235	1257	1254	1072
65°	790	793	802	807	807	782
75°	400	395	398	388	386	425
85°	85	85	83	76	73	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2671.7	2671.7	2671.7	2671.7	2671.7
2.5°	2674.1	2669.4	2662.3	2671.7	2676.5
5°	2662.3	2659.9	2657.5	2667.0	2671.7
7.5°	2641.0	2643.3	2641.0	2655.2	2659.9
10°	2614.9	2617.3	2619.7	2636.2	2641.0
12.5°	2581.8	2584.2	2591.3	2612.6	2619.7
15°	2536.8	2543.9	2555.8	2581.8	2591.3
17.5°	2489.5	2499.0	2515.6	2546.3	2555.8
20°	2432.7	2444.6	2468.2	2501.4	2513.2
22.5°	2368.8	2380.7	2413.8	2449.3	2461.1
25°	2304.9	2319.1	2352.3	2392.5	2404.3
27.5°	2229.2	2248.1	2283.6	2323.9	2333.3
30°	2151.1	2167.7	2210.3	2248.1	2264.7
32.5°	2073.0	2089.6	2129.8	2167.7	2179.5
35°	1980.7	2004.4	2044.6	2080.1	2092.0
37.5°	1890.8	1912.1	1954.7	1990.2	2002.0
40°	1796.1	1815.1	1860.0	1893.2	1902.6
42.5°	1701.5	1720.4	1765.4	1791.4	1800.9
45°	1602.1	1623.4	1661.3	1689.7	1696.8
47.5°	1502.7	1519.3	1554.8	1580.8	1590.3
50°	1400.9	1417.5	1453.0	1474.3	1479.0
52.5°	1299.2	1311.0	1344.2	1363.1	1370.2
55°	1197.4	1209.3	1235.3	1256.6	1254.2
57.5°	1100.4	1105.1	1131.2	1145.4	1145.4
60°	991.5	996.3	1017.6	1027.0	1029.4
62.5°	889.8	896.9	913.5	915.8	915.8
65°	790.4	792.8	802.2	807.0	807.0
67.5°	691.0	688.6	698.1	698.1	695.7
70°	586.9	591.6	594.0	589.2	586.9
72.5°	492.2	489.9	489.9	487.5	487.5
75°	399.9	395.2	397.6	388.1	385.7
77.5°	314.7	307.6	305.3	300.5	295.8
80°	227.2	227.2	224.8	220.1	217.7
82.5°	151.5	151.5	149.1	144.4	139.6
85°	85.2	85.2	82.8	75.7	73.4
87.5°	28.4	28.4	28.4	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)