

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: P296753

Luminaire Tested: **D3X-WD-74L83050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296753  
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-74L83050-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7397.0 lumens  
Efficiency: N/A  
Efficacy: 128.0 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

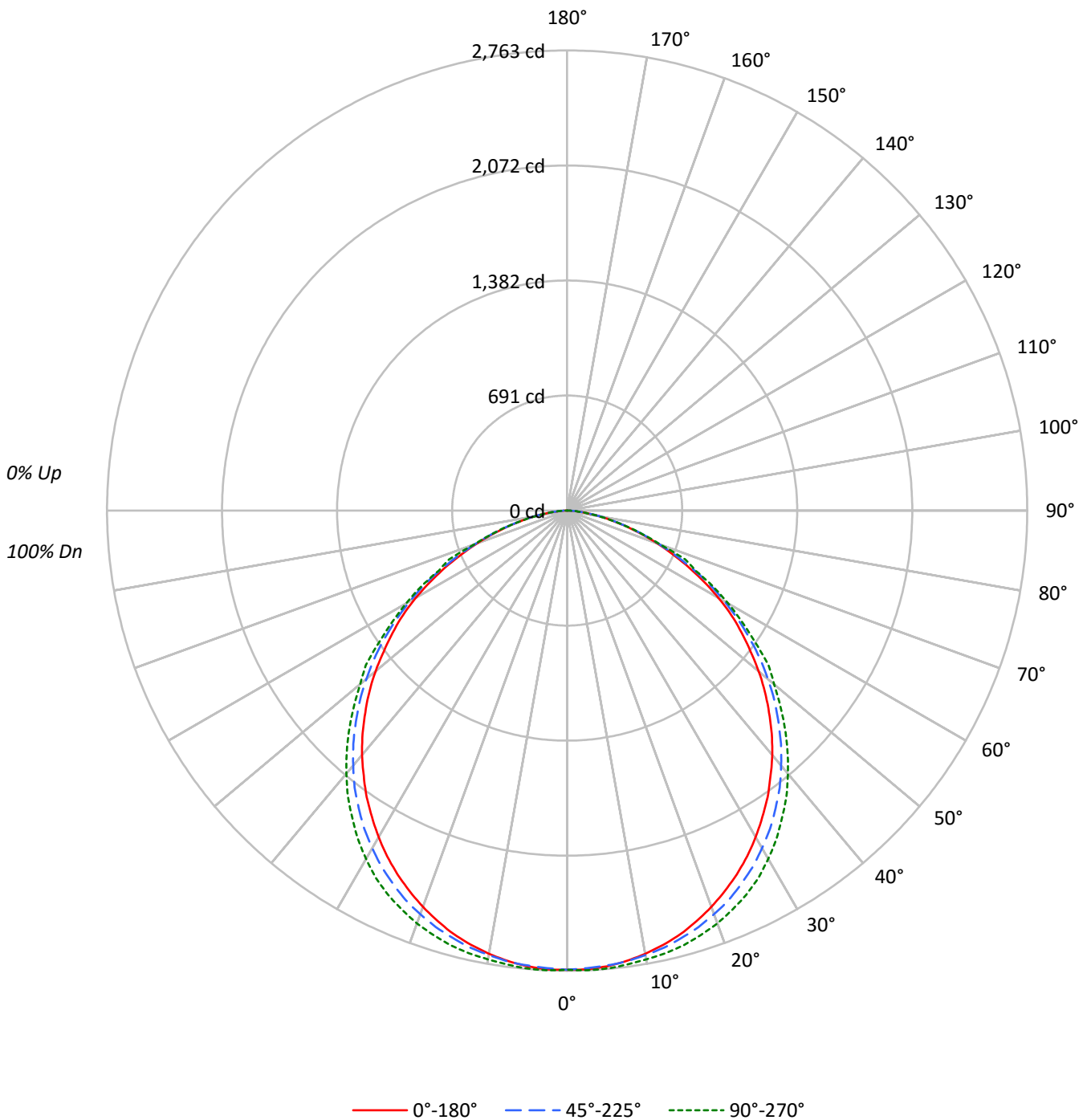
Input Watts (W): 57.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

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

	0°	45°	90°
0°	3710	3710	3710
5°	3710	3703	3728
10°	3691	3702	3738
15°	3667	3701	3763
20°	3625	3694	3777
25°	3578	3672	3779
30°	3517	3637	3752
35°	3448	3583	3697
40°	3366	3510	3622
45°	3262	3414	3520
50°	3144	3294	3394
55°	3001	3138	3231
60°	2828	2935	3007
65°	2569	2653	2704
70°	2255	2307	2339
75°	1904	1932	1945
80°	1522	1543	1501
85°	1025	1065	1025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.3	3.5
10°-20°	751.5	10.2
20°-30°	1140.3	15.4
30°-40°	1361.3	18.4
40°-50°	1378.2	18.6
50°-60°	1191.3	16.1
60°-70°	825.7	11.2
70°-80°	399.5	5.4
80°-90°	87.8	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°	2153.1	29.1
0°-40°	3514.5	47.5
0°-60°	6084.0	82.2
0°-90°	7397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7397.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2758	2758	2758	2758	2758	
5°	2747	2744	2742	2755	2760	261
15°	2633	2638	2657	2688	2702	742
25°	2410	2426	2474	2524	2545	1110
35°	2099	2118	2182	2237	2251	1311
45°	1714	1738	1794	1839	1850	1322
55°	1279	1292	1338	1393	1377	1143
65°	807	815	833	847	849	798
75°	366	369	372	369	374	393
85°	66	72	69	66	66	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2757.5	2757.5	2757.5	2757.5	2757.5
2.5°	2757.5	2754.9	2749.6	2757.5	2762.9
5°	2746.9	2744.3	2741.6	2754.9	2760.2
7.5°	2728.4	2728.4	2731.0	2744.3	2749.6
10°	2701.8	2704.5	2709.8	2731.0	2736.3
12.5°	2670.0	2675.3	2688.5	2712.4	2723.0
15°	2632.8	2638.1	2656.7	2688.5	2701.8
17.5°	2585.0	2595.7	2622.2	2659.3	2672.6
20°	2532.0	2545.2	2579.7	2622.2	2638.1
22.5°	2473.6	2486.8	2532.0	2577.1	2593.0
25°	2409.9	2425.8	2473.6	2524.0	2545.2
27.5°	2340.9	2359.4	2412.5	2465.6	2486.8
30°	2263.9	2285.1	2340.9	2396.6	2415.2
32.5°	2181.6	2202.9	2266.6	2319.6	2338.2
35°	2099.3	2117.9	2181.6	2237.4	2250.6
37.5°	2006.5	2027.7	2096.7	2144.5	2163.0
40°	1916.2	1937.5	1998.5	2046.3	2062.2
42.5°	1818.0	1839.3	1900.3	1945.4	1958.7
45°	1714.5	1738.4	1794.1	1839.3	1849.9
47.5°	1611.0	1629.6	1688.0	1727.8	1735.7
50°	1502.2	1520.8	1573.8	1613.7	1621.6
52.5°	1388.1	1417.3	1459.7	1488.9	1523.4
55°	1279.2	1292.5	1337.6	1393.4	1377.4
57.5°	1170.4	1178.4	1215.6	1239.4	1244.7
60°	1051.0	1061.6	1090.8	1104.1	1117.4
62.5°	926.3	934.2	968.7	982.0	987.3
65°	806.8	814.8	833.4	846.6	849.3
67.5°	684.7	692.7	708.6	719.2	767.0
70°	573.3	578.6	586.5	607.8	594.5
72.5°	467.1	469.8	477.7	477.7	480.4
75°	366.3	368.9	371.6	368.9	374.2
77.5°	273.4	278.7	281.3	278.7	276.0
80°	196.4	201.7	199.1	193.7	193.7
82.5°	127.4	130.0	127.4	124.7	124.7
85°	66.4	71.7	69.0	66.4	66.4
87.5°	23.9	26.5	29.2	31.8	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)