

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: P297312

Luminaire Tested: **D3X-WO-74L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297312  
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-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7880.0 lumens  
Efficiency: N/A  
Efficacy: 136.3 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

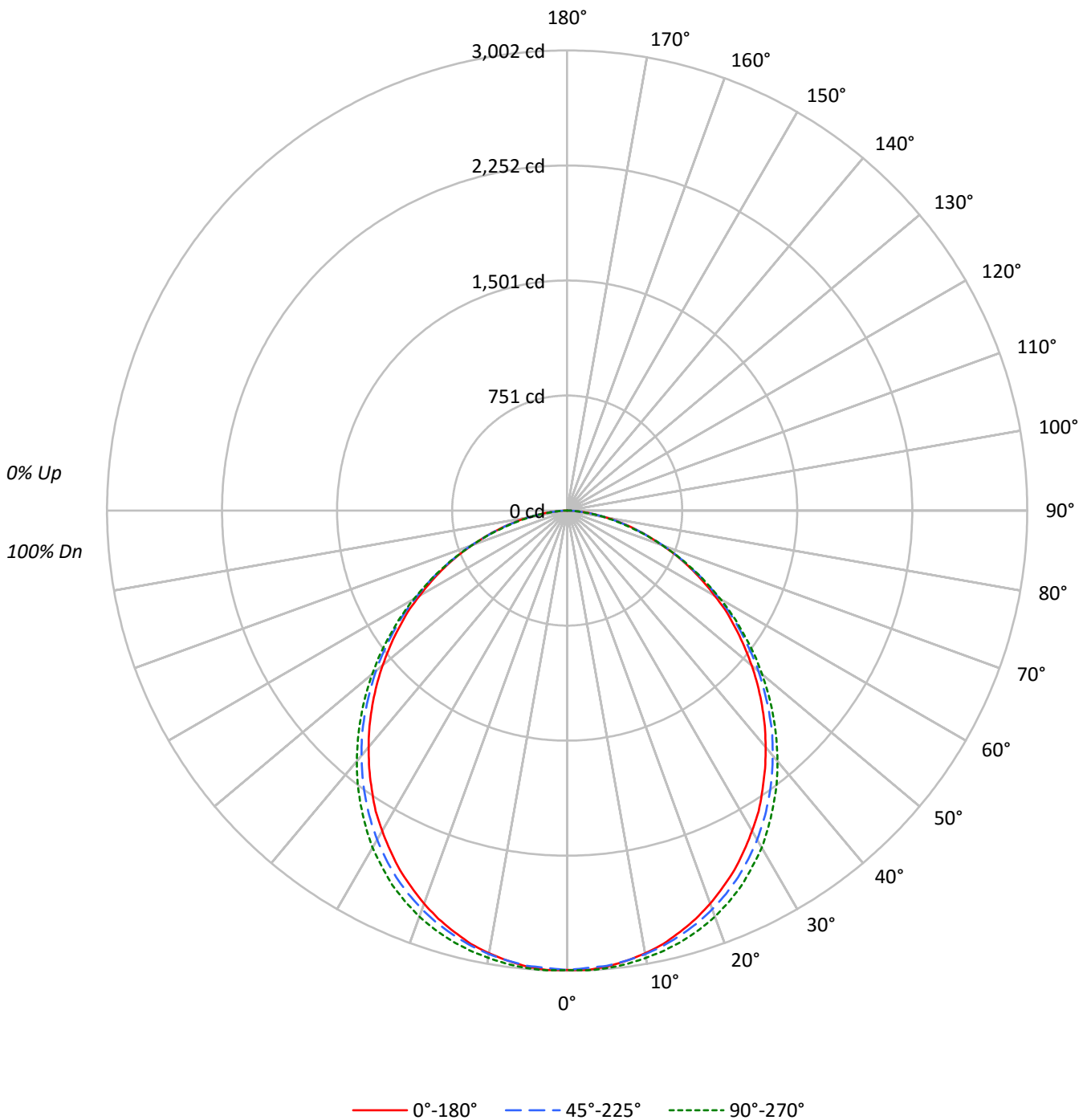
Input Watts (W): 57.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	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	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	4032	4032	4032
5°	4033	4026	4048
10°	4007	4015	4047
15°	3964	3993	4049
20°	3907	3964	4036
25°	3838	3917	4004
30°	3749	3852	3947
35°	3649	3767	3854
40°	3539	3665	3749
45°	3420	3546	3622
50°	3289	3412	3473
55°	3151	3250	3300
60°	2993	3071	3107
65°	2823	2865	2882
70°	2590	2621	2590
75°	2332	2319	2249
80°	1974	1954	1892
85°	1476	1434	1271



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.7	3.6
10°-20°	810.6	10.3
20°-30°	1215.3	15.4
30°-40°	1431.2	18.2
40°-50°	1431.5	18.2
50°-60°	1235.1	15.7
60°-70°	888.7	11.3
70°-80°	471.4	6.0
80°-90°	112.4	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°	2309.6	29.3
0°-40°	3740.9	47.5
0°-60°	6407.4	81.3
0°-90°	7880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7880.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2997	2997	2997	2997	2997	
5°	2986	2984	2981	2992	2997	283
15°	2846	2854	2867	2896	2907	802
25°	2586	2601	2639	2684	2697	1189
35°	2222	2248	2294	2333	2347	1390
45°	1797	1821	1863	1895	1903	1386
55°	1343	1356	1386	1410	1407	1202
65°	887	889	900	905	905	877
75°	449	443	446	435	433	477
85°	96	96	93	85	82	116
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2996.9	2996.9	2996.9	2996.9	2996.9
2.5°	2999.6	2994.3	2986.3	2996.9	3002.2
5°	2986.3	2983.6	2981.0	2991.6	2996.9
7.5°	2962.4	2965.1	2962.4	2978.3	2983.6
10°	2933.2	2935.9	2938.5	2957.1	2962.4
12.5°	2896.0	2898.7	2906.7	2930.5	2938.5
15°	2845.6	2853.6	2866.8	2896.0	2906.7
17.5°	2792.5	2803.1	2821.7	2856.2	2866.8
20°	2728.8	2742.1	2768.6	2805.8	2819.1
22.5°	2657.1	2670.4	2707.6	2747.4	2760.7
25°	2585.5	2601.4	2638.6	2683.7	2697.0
27.5°	2500.5	2521.8	2561.6	2606.7	2617.3
30°	2412.9	2431.5	2479.3	2521.8	2540.3
32.5°	2325.3	2343.9	2389.0	2431.5	2444.8
35°	2221.8	2248.3	2293.5	2333.3	2346.6
37.5°	2120.9	2144.8	2192.6	2232.4	2245.7
40°	2014.8	2036.0	2086.4	2123.6	2134.2
42.5°	1908.6	1929.8	1980.2	2009.4	2020.1
45°	1797.1	1821.0	1863.4	1895.3	1903.3
47.5°	1685.6	1704.2	1744.0	1773.2	1783.8
50°	1571.5	1590.0	1629.9	1653.7	1659.1
52.5°	1457.3	1470.6	1507.7	1529.0	1536.9
55°	1343.2	1356.4	1385.6	1409.5	1406.9
57.5°	1234.3	1239.6	1268.8	1284.8	1284.8
60°	1112.2	1117.5	1141.4	1152.0	1154.7
62.5°	998.1	1006.0	1024.6	1027.3	1027.3
65°	886.6	889.3	899.9	905.2	905.2
67.5°	775.1	772.5	783.1	783.1	780.4
70°	658.3	663.6	666.3	661.0	658.3
72.5°	552.1	549.5	549.5	546.8	546.8
75°	448.6	443.3	446.0	435.3	432.7
77.5°	353.0	345.1	342.4	337.1	331.8
80°	254.8	254.8	252.2	246.9	244.2
82.5°	169.9	169.9	167.2	161.9	156.6
85°	95.6	95.6	92.9	84.9	82.3
87.5°	31.9	31.9	31.9	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)