

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: P296754

Luminaire Tested: **D3X-WD-80L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296754  
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-80L83050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7152.0 lumens  
Efficiency: N/A  
Efficacy: 118.0 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

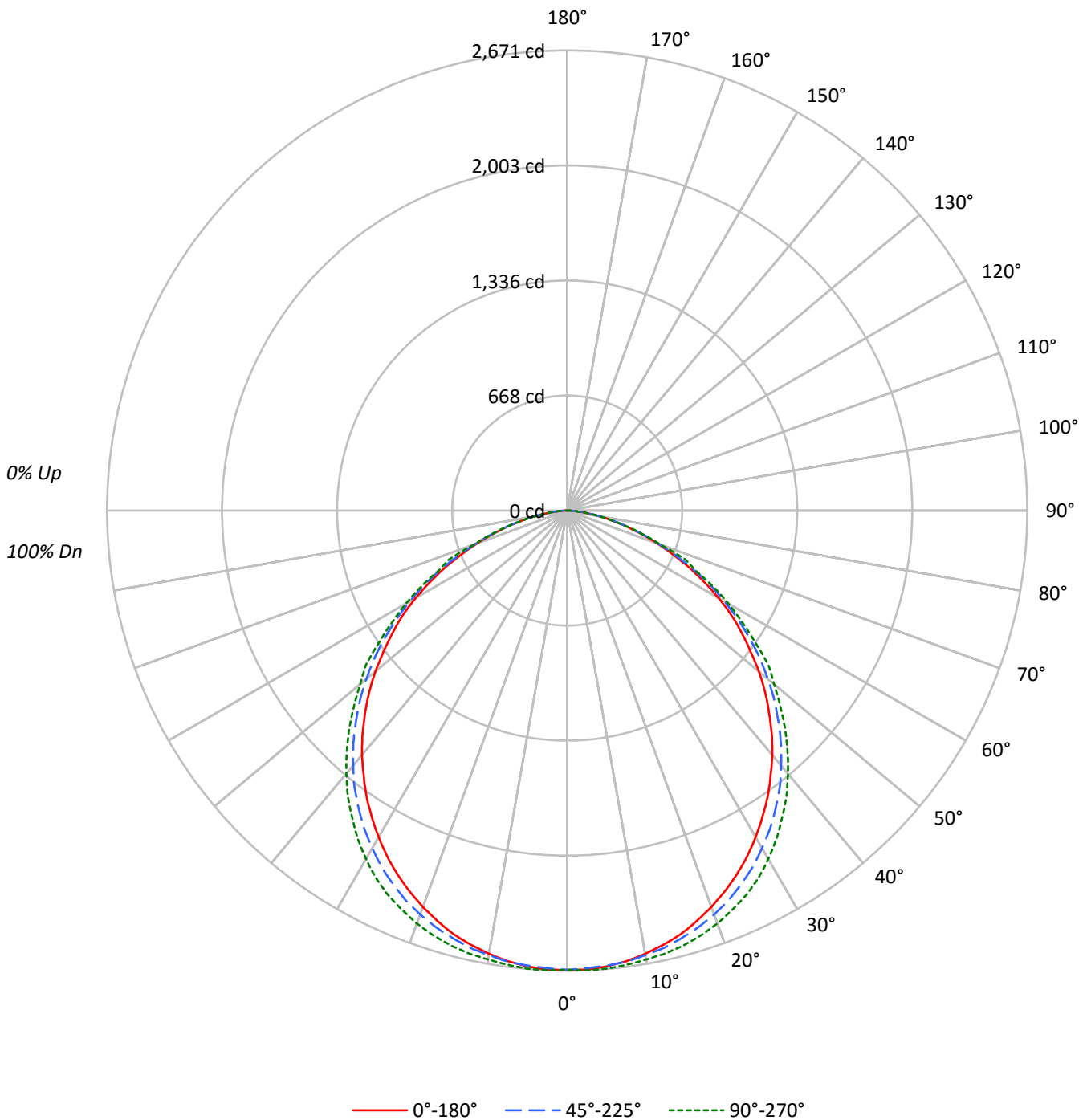
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3587	3587	3587
5°	3587	3580	3605
10°	3569	3580	3615
15°	3546	3578	3639
20°	3505	3571	3652
25°	3459	3551	3653
30°	3401	3516	3628
35°	3334	3465	3574
40°	3254	3394	3502
45°	3154	3301	3403
50°	3040	3185	3282
55°	2902	3034	3124
60°	2735	2838	2907
65°	2484	2565	2614
70°	2181	2231	2261
75°	1841	1868	1881
80°	1471	1492	1451
85°	991	1030	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.7	3.5
10°-20°	726.6	10.2
20°-30°	1102.5	15.4
30°-40°	1316.3	18.4
40°-50°	1332.6	18.6
50°-60°	1151.8	16.1
60°-70°	798.3	11.2
70°-80°	386.3	5.4
80°-90°	84.9	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°	2081.8	29.1
0°-40°	3398.1	47.5
0°-60°	5882.5	82.2
0°-90°	7152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7152.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2656	2653	2651	2664	2669	252
15°	2546	2551	2569	2600	2612	717
25°	2330	2345	2392	2440	2461	1073
35°	2030	2048	2109	2163	2176	1268
45°	1658	1681	1735	1778	1789	1279
55°	1237	1250	1293	1347	1332	1105
65°	780	788	806	819	821	772
75°	354	357	359	357	362	380
85°	64	69	67	64	64	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2666.2	2666.2	2666.2	2666.2	2666.2
2.5°	2666.2	2663.6	2658.5	2666.2	2671.3
5°	2655.9	2653.4	2650.8	2663.6	2668.8
7.5°	2638.0	2638.0	2640.6	2653.4	2658.5
10°	2612.3	2614.9	2620.0	2640.6	2645.7
12.5°	2581.5	2586.7	2599.5	2622.6	2632.9
15°	2545.6	2550.7	2568.7	2599.5	2612.3
17.5°	2499.4	2509.7	2535.3	2571.3	2584.1
20°	2448.1	2460.9	2494.3	2535.3	2550.7
22.5°	2391.6	2404.5	2448.1	2491.7	2507.1
25°	2330.1	2345.4	2391.6	2440.4	2460.9
27.5°	2263.3	2281.3	2332.6	2383.9	2404.5
30°	2188.9	2209.4	2263.3	2317.2	2335.2
32.5°	2109.4	2129.9	2191.5	2242.8	2260.8
35°	2029.8	2047.8	2109.4	2163.3	2176.1
37.5°	1940.0	1960.5	2027.2	2073.4	2091.4
40°	1852.7	1873.3	1932.3	1978.5	1993.9
42.5°	1757.8	1778.3	1837.4	1881.0	1893.8
45°	1657.7	1680.8	1734.7	1778.3	1788.6
47.5°	1557.6	1575.6	1632.1	1670.6	1678.3
50°	1452.4	1470.4	1521.7	1560.2	1567.9
52.5°	1342.1	1370.3	1411.4	1439.6	1473.0
55°	1236.9	1249.7	1293.3	1347.2	1331.8
57.5°	1131.7	1139.4	1175.3	1198.4	1203.5
60°	1016.2	1026.5	1054.7	1067.5	1080.3
62.5°	895.6	903.3	936.6	949.5	954.6
65°	780.1	787.8	805.8	818.6	821.2
67.5°	662.1	669.8	685.2	695.4	741.6
70°	554.3	559.4	567.1	587.6	574.8
72.5°	451.6	454.2	461.9	461.9	464.5
75°	354.1	356.7	359.3	356.7	361.8
77.5°	264.3	269.4	272.0	269.4	266.9
80°	189.9	195.0	192.5	187.3	187.3
82.5°	123.2	125.7	123.2	120.6	120.6
85°	64.2	69.3	66.7	64.2	64.2
87.5°	23.1	25.7	28.2	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)