

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: P296757

Luminaire Tested: **D3X-WD-80L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296757  
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-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8023.0 lumens  
Efficiency: N/A  
Efficacy: 125.9 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

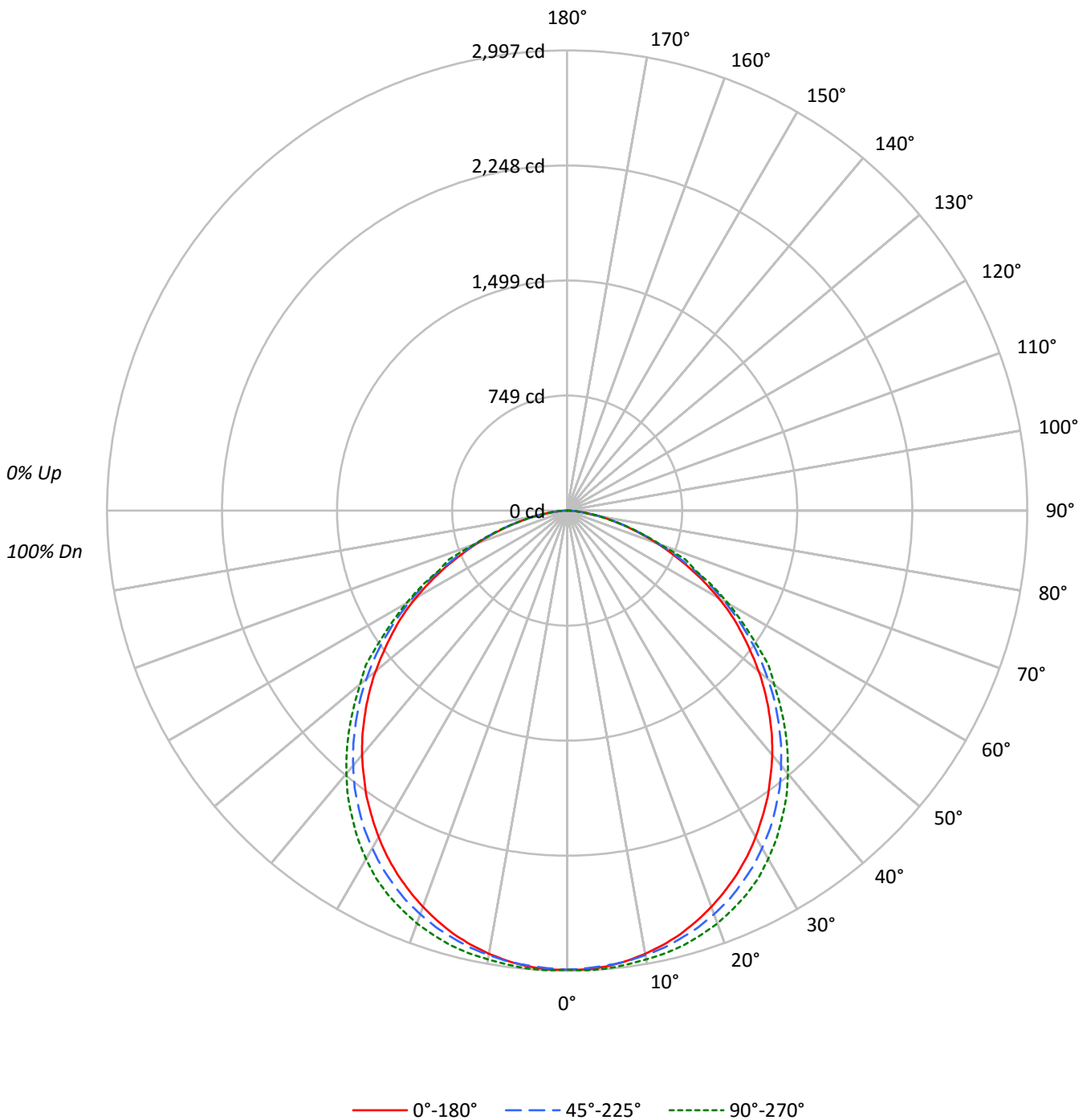
Input Watts (W): 63.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4024	4024	4024
5°	4024	4016	4044
10°	4004	4016	4055
15°	3978	4014	4082
20°	3932	4006	4097
25°	3880	3983	4098
30°	3815	3945	4070
35°	3740	3887	4010
40°	3651	3807	3929
45°	3538	3703	3818
50°	3410	3573	3682
55°	3255	3403	3505
60°	3067	3184	3261
65°	2786	2878	2933
70°	2446	2503	2537
75°	2065	2095	2110
80°	1650	1673	1628
85°	1112	1155	1112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.5	3.5
10°-20°	815.1	10.2
20°-30°	1236.8	15.4
30°-40°	1476.6	18.4
40°-50°	1494.8	18.6
50°-60°	1292.1	16.1
60°-70°	895.6	11.2
70°-80°	433.3	5.4
80°-90°	95.3	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°	2335.3	29.1
0°-40°	3811.9	47.5
0°-60°	6598.9	82.2
0°-90°	8023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8023.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2991	2991	2991	2991	2991	
5°	2979	2976	2974	2988	2994	283
15°	2856	2861	2882	2916	2930	805
25°	2614	2631	2683	2738	2761	1204
35°	2277	2297	2366	2427	2441	1422
45°	1860	1886	1946	1995	2006	1434
55°	1388	1402	1451	1511	1494	1240
65°	875	884	904	918	921	866
75°	397	400	403	400	406	426
85°	72	78	75	72	72	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2990.9	2990.9	2990.9	2990.9	2990.9
2.5°	2990.9	2988.0	2982.3	2990.9	2996.7
5°	2979.4	2976.5	2973.6	2988.0	2993.8
7.5°	2959.3	2959.3	2962.1	2976.5	2982.3
10°	2930.5	2933.3	2939.1	2962.1	2967.9
12.5°	2895.9	2901.7	2916.1	2942.0	2953.5
15°	2855.6	2861.4	2881.5	2916.1	2930.5
17.5°	2803.8	2815.3	2844.1	2884.4	2898.8
20°	2746.2	2760.6	2798.0	2844.1	2861.4
22.5°	2682.9	2697.3	2746.2	2795.2	2812.4
25°	2613.8	2631.1	2682.9	2737.6	2760.6
27.5°	2539.0	2559.1	2616.7	2674.3	2697.3
30°	2455.5	2478.5	2539.0	2599.4	2619.6
32.5°	2366.3	2389.3	2458.4	2515.9	2536.1
35°	2277.0	2297.2	2366.3	2426.7	2441.1
37.5°	2176.3	2199.3	2274.1	2325.9	2346.1
40°	2078.4	2101.4	2167.6	2219.4	2236.7
42.5°	1971.9	1994.9	2061.1	2110.1	2124.4
45°	1859.6	1885.5	1946.0	1994.9	2006.4
47.5°	1747.3	1767.5	1830.8	1874.0	1882.6
50°	1629.3	1649.5	1707.0	1750.2	1758.9
52.5°	1505.5	1537.2	1583.3	1614.9	1652.3
55°	1387.5	1401.9	1450.8	1511.3	1494.0
57.5°	1269.5	1278.1	1318.4	1344.3	1350.1
60°	1139.9	1151.5	1183.1	1197.5	1211.9
62.5°	1004.6	1013.3	1050.7	1065.1	1070.9
65°	875.1	883.7	903.9	918.3	921.2
67.5°	742.7	751.3	768.6	780.1	831.9
70°	621.8	627.5	636.2	659.2	644.8
72.5°	506.6	509.5	518.2	518.2	521.0
75°	397.3	400.1	403.0	400.1	405.9
77.5°	296.5	302.3	305.1	302.3	299.4
80°	213.0	218.8	215.9	210.1	210.1
82.5°	138.2	141.1	138.2	135.3	135.3
85°	72.0	77.7	74.8	72.0	72.0
87.5°	25.9	28.8	31.7	34.5	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)