

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: P297291

Luminaire Tested: **D3X-WO-50L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297291  
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-50L83050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5241.0 lumens  
Efficiency: N/A  
Efficacy: 146.4 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

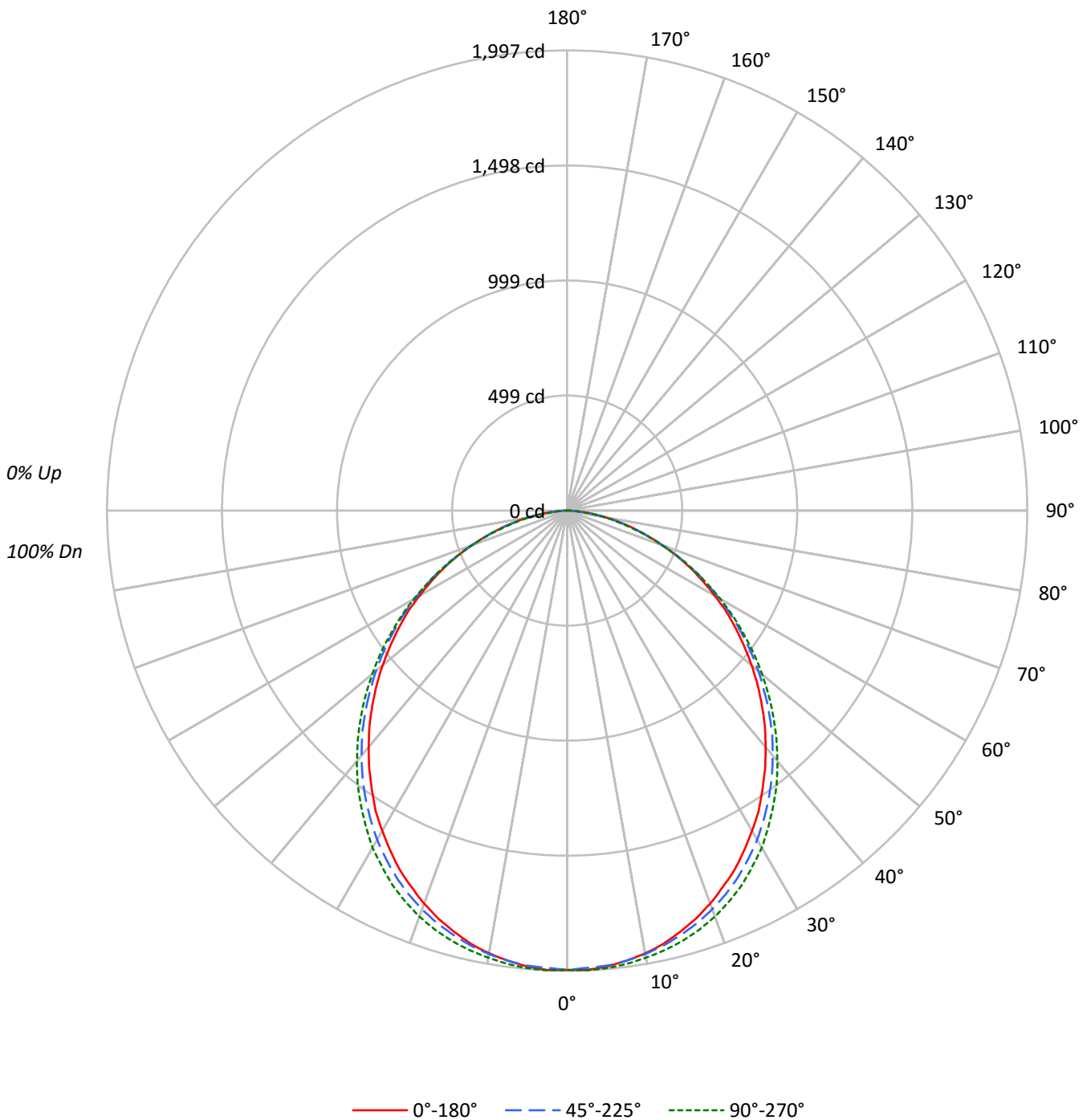
Input Watts (W): 35.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2682	2682	2682
5°	2683	2678	2692
10°	2665	2670	2692
15°	2636	2656	2693
20°	2599	2637	2685
25°	2553	2605	2663
30°	2493	2562	2625
35°	2427	2506	2564
40°	2354	2437	2493
45°	2274	2358	2409
50°	2188	2269	2310
55°	2095	2162	2195
60°	1991	2043	2067
65°	1877	1905	1917
70°	1722	1743	1722
75°	1551	1542	1496
80°	1313	1299	1258
85°	982	954	844



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.7	3.6
10°-20°	539.1	10.3
20°-30°	808.3	15.4
30°-40°	951.9	18.2
40°-50°	952.1	18.2
50°-60°	821.5	15.7
60°-70°	591.1	11.3
70°-80°	313.5	6.0
80°-90°	74.8	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°	1536.1	29.3
0°-40°	2488.0	47.5
0°-60°	4261.6	81.3
0°-90°	5241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5241.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1993	1993	1993	1993	1993	
5°	1986	1984	1983	1990	1993	188
15°	1893	1898	1907	1926	1933	534
25°	1720	1730	1755	1785	1794	791
35°	1478	1495	1525	1552	1561	924
45°	1195	1211	1239	1261	1266	922
55°	893	902	922	938	936	799
65°	590	591	598	602	602	583
75°	298	295	297	290	288	317
85°	64	64	62	56	55	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1993.2	1993.2	1993.2	1993.2	1993.2
2.5°	1995.0	1991.5	1986.2	1993.2	1996.8
5°	1986.2	1984.4	1982.7	1989.7	1993.2
7.5°	1970.3	1972.1	1970.3	1980.9	1984.4
10°	1950.9	1952.6	1954.4	1966.8	1970.3
12.5°	1926.2	1927.9	1933.2	1949.1	1954.4
15°	1892.6	1897.9	1906.7	1926.2	1933.2
17.5°	1857.3	1864.4	1876.7	1899.7	1906.7
20°	1814.9	1823.8	1841.4	1866.1	1875.0
22.5°	1767.3	1776.1	1800.8	1827.3	1836.1
25°	1719.6	1730.2	1754.9	1784.9	1793.7
27.5°	1663.1	1677.2	1703.7	1733.7	1740.8
30°	1604.8	1617.2	1649.0	1677.2	1689.6
32.5°	1546.6	1558.9	1588.9	1617.2	1626.0
35°	1477.7	1495.4	1525.4	1551.9	1560.7
37.5°	1410.6	1426.5	1458.3	1484.8	1493.6
40°	1340.0	1354.1	1387.7	1412.4	1419.5
42.5°	1269.4	1283.5	1317.1	1336.5	1343.5
45°	1195.2	1211.1	1239.4	1260.6	1265.9
47.5°	1121.1	1133.5	1159.9	1179.4	1186.4
50°	1045.2	1057.5	1084.0	1099.9	1103.4
52.5°	969.3	978.1	1002.8	1016.9	1022.2
55°	893.3	902.2	921.6	937.5	935.7
57.5°	821.0	824.5	843.9	854.5	854.5
60°	739.7	743.3	759.2	766.2	768.0
62.5°	663.8	669.1	681.5	683.2	683.2
65°	589.7	591.4	598.5	602.0	602.0
67.5°	515.5	513.8	520.8	520.8	519.1
70°	437.8	441.4	443.1	439.6	437.8
72.5°	367.2	365.5	365.5	363.7	363.7
75°	298.4	294.8	296.6	289.5	287.8
77.5°	234.8	229.5	227.7	224.2	220.7
80°	169.5	169.5	167.7	164.2	162.4
82.5°	113.0	113.0	111.2	107.7	104.2
85°	63.6	63.6	61.8	56.5	54.7
87.5°	21.2	21.2	21.2	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)