

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: P296871

Luminaire Tested: **D3X-WD-50L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296871  
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-50L93050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4301.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 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

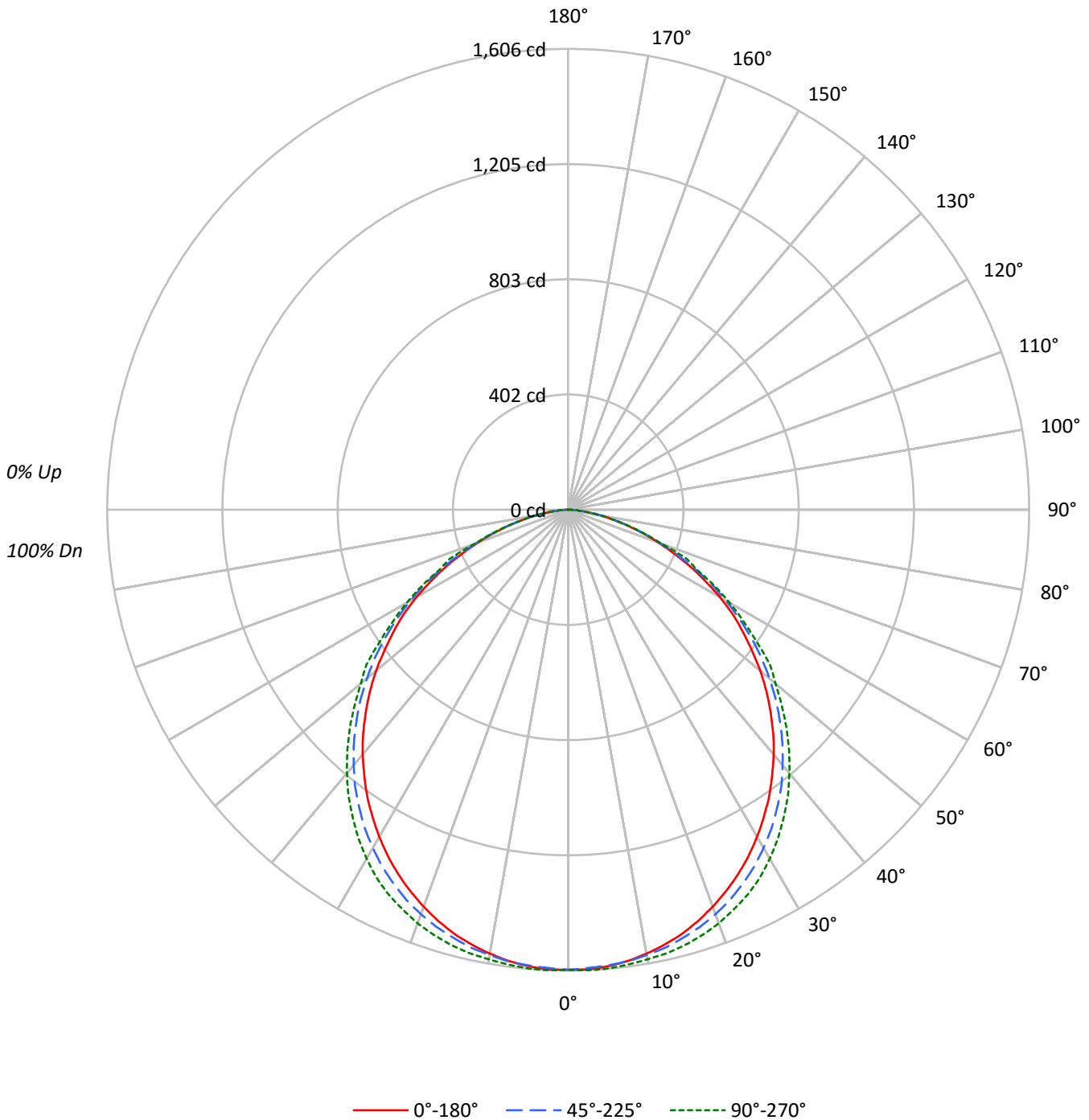
Input Watts (W): 35.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2157	2157	2157
5°	2157	2153	2168
10°	2146	2153	2174
15°	2132	2152	2188
20°	2108	2148	2196
25°	2080	2135	2197
30°	2045	2115	2182
35°	2005	2084	2149
40°	1957	2041	2106
45°	1897	1985	2047
50°	1828	1915	1974
55°	1745	1825	1879
60°	1644	1707	1748
65°	1493	1543	1572
70°	1311	1341	1360
75°	1107	1123	1131
80°	885	896	873
85°	596	619	596



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.0	3.5
10°-20°	437.0	10.2
20°-30°	663.0	15.4
30°-40°	791.6	18.4
40°-50°	801.4	18.6
50°-60°	692.7	16.1
60°-70°	480.1	11.2
70°-80°	232.3	5.4
80°-90°	51.1	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°	1251.9	29.1
0°-40°	2043.5	47.5
0°-60°	3537.6	82.2
0°-90°	4301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4301.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1597	1596	1594	1602	1605	152
15°	1531	1534	1545	1563	1571	431
25°	1401	1410	1438	1468	1480	645
35°	1221	1232	1268	1301	1309	763
45°	997	1011	1043	1069	1076	769
55°	744	752	778	810	801	665
65°	469	474	485	492	494	464
75°	213	214	216	214	218	229
85°	39	42	40	39	39	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1603.4	1603.4	1603.4	1603.4	1603.4
2.5°	1603.4	1601.8	1598.8	1603.4	1606.5
5°	1597.2	1595.7	1594.1	1601.8	1604.9
7.5°	1586.4	1586.4	1588.0	1595.7	1598.8
10°	1571.0	1572.5	1575.6	1588.0	1591.0
12.5°	1552.5	1555.5	1563.3	1577.1	1583.3
15°	1530.9	1533.9	1544.7	1563.3	1571.0
17.5°	1503.1	1509.2	1524.7	1546.3	1554.0
20°	1472.2	1479.9	1500.0	1524.7	1533.9
22.5°	1438.3	1446.0	1472.2	1498.4	1507.7
25°	1401.2	1410.5	1438.3	1467.6	1479.9
27.5°	1361.1	1371.9	1402.8	1433.6	1446.0
30°	1316.3	1328.7	1361.1	1393.5	1404.3
32.5°	1268.5	1280.9	1317.9	1348.8	1359.6
35°	1220.7	1231.5	1268.5	1300.9	1308.6
37.5°	1166.7	1179.0	1219.1	1246.9	1257.7
40°	1114.2	1126.5	1162.0	1189.8	1199.1
42.5°	1057.1	1069.4	1104.9	1131.2	1138.9
45°	996.9	1010.8	1043.2	1069.4	1075.6
47.5°	936.7	947.5	981.5	1004.6	1009.3
50°	873.4	884.3	915.1	938.3	942.9
52.5°	807.1	824.1	848.8	865.7	885.8
55°	743.8	751.5	777.8	810.2	800.9
57.5°	680.6	685.2	706.8	720.7	723.8
60°	611.1	617.3	634.3	642.0	649.7
62.5°	538.6	543.2	563.3	571.0	574.1
65°	469.1	473.8	484.6	492.3	493.8
67.5°	398.1	402.8	412.0	418.2	446.0
70°	333.3	336.4	341.0	353.4	345.7
72.5°	271.6	273.1	277.8	277.8	279.3
75°	213.0	214.5	216.0	214.5	217.6
77.5°	158.9	162.0	163.6	162.0	160.5
80°	114.2	117.3	115.7	112.7	112.7
82.5°	74.1	75.6	74.1	72.5	72.5
85°	38.6	41.7	40.1	38.6	38.6
87.5°	13.9	15.4	17.0	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)