

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: P296874

Luminaire Tested: **D3X-WD-55L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296874  
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-55L93050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4052.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

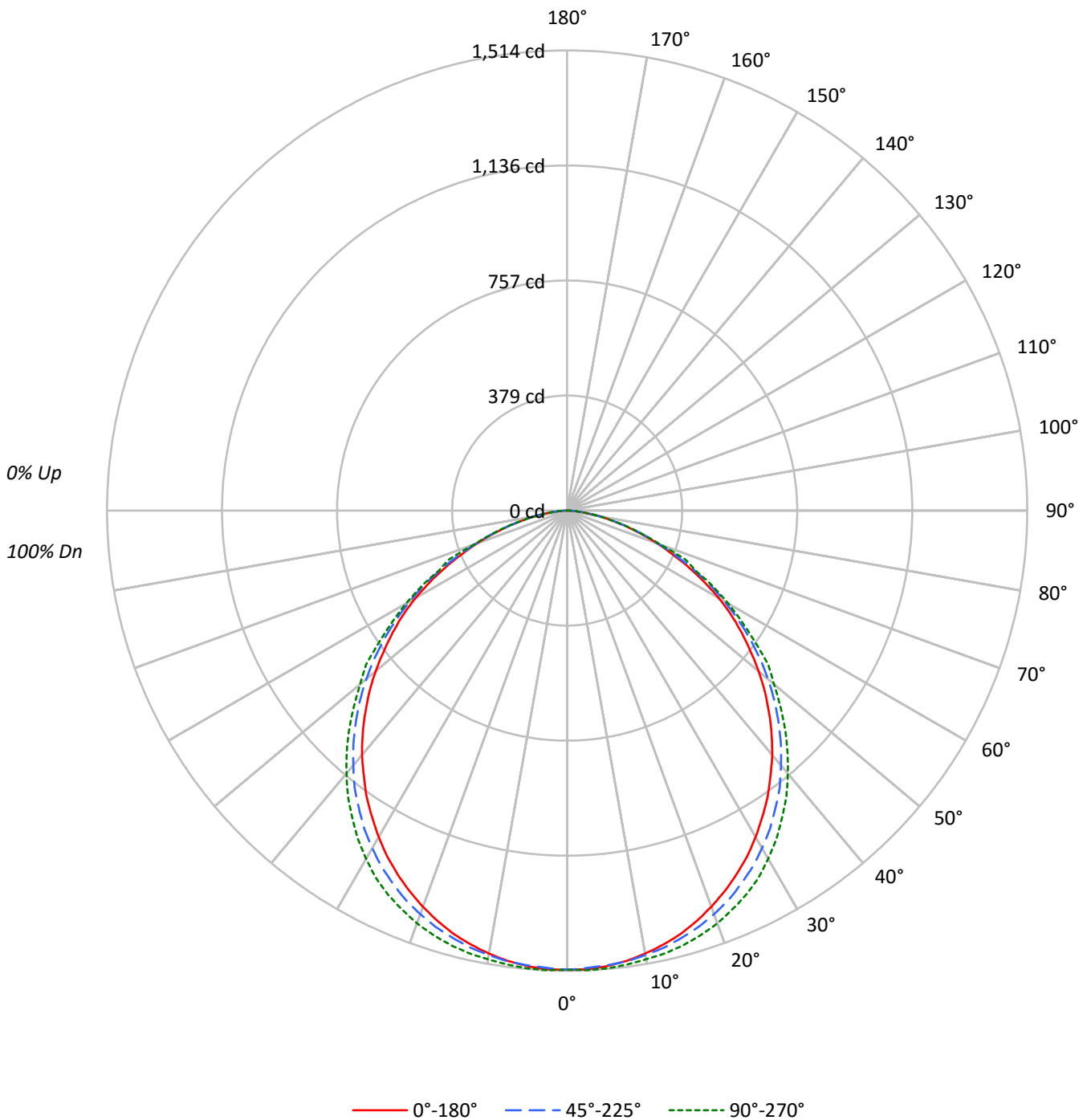
Input Watts (W): 39.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2032	2032	2032
5°	2032	2028	2042
10°	2022	2028	2048
15°	2009	2027	2062
20°	1986	2023	2069
25°	1960	2012	2070
30°	1927	1992	2055
35°	1889	1963	2025
40°	1844	1923	1984
45°	1787	1870	1928
50°	1723	1805	1859
55°	1644	1719	1770
60°	1549	1608	1647
65°	1407	1453	1481
70°	1235	1264	1281
75°	1043	1058	1066
80°	834	845	822
85°	560	584	560



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.2	3.5
10°-20°	411.7	10.2
20°-30°	624.6	15.4
30°-40°	745.7	18.4
40°-50°	755.0	18.6
50°-60°	652.6	16.1
60°-70°	452.3	11.2
70°-80°	218.8	5.4
80°-90°	48.1	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°	1179.5	29.1
0°-40°	1925.2	47.5
0°-60°	3332.8	82.2
0°-90°	4052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4052.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1511	1511	1511	1511	1511	
5°	1505	1503	1502	1509	1512	143
15°	1442	1445	1455	1473	1480	406
25°	1320	1329	1355	1383	1394	608
35°	1150	1160	1195	1226	1233	718
45°	939	952	983	1008	1013	724
55°	701	708	733	763	755	626
65°	442	446	456	464	465	437
75°	201	202	204	202	205	215
85°	36	39	38	36	36	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1510.6	1510.6	1510.6	1510.6	1510.6
2.5°	1510.6	1509.1	1506.2	1510.6	1513.5
5°	1504.7	1503.3	1501.8	1509.1	1512.0
7.5°	1494.6	1494.6	1496.0	1503.3	1506.2
10°	1480.0	1481.5	1484.4	1496.0	1498.9
12.5°	1462.6	1465.5	1472.8	1485.8	1491.7
15°	1442.2	1445.1	1455.3	1472.8	1480.0
17.5°	1416.1	1421.9	1436.4	1456.8	1464.0
20°	1387.0	1394.2	1413.1	1436.4	1445.1
22.5°	1355.0	1362.3	1387.0	1411.7	1420.4
25°	1320.1	1328.8	1355.0	1382.6	1394.2
27.5°	1282.3	1292.5	1321.6	1350.6	1362.3
30°	1240.1	1251.8	1282.3	1312.8	1323.0
32.5°	1195.1	1206.7	1241.6	1270.7	1280.8
35°	1150.0	1160.2	1195.1	1225.6	1232.9
37.5°	1099.1	1110.7	1148.5	1174.7	1184.9
40°	1049.7	1061.3	1094.8	1120.9	1129.6
42.5°	995.9	1007.5	1041.0	1065.7	1072.9
45°	939.2	952.3	982.8	1007.5	1013.3
47.5°	882.5	892.7	924.7	946.5	950.8
50°	822.9	833.1	862.1	883.9	888.3
52.5°	760.4	776.4	799.6	815.6	834.5
55°	700.8	708.0	732.7	763.3	754.6
57.5°	641.2	645.5	665.9	679.0	681.9
60°	575.7	581.5	597.5	604.8	612.1
62.5°	507.4	511.8	530.7	537.9	540.8
65°	442.0	446.3	456.5	463.8	465.2
67.5°	375.1	379.5	388.2	394.0	420.2
70°	314.0	316.9	321.3	332.9	325.7
72.5°	255.9	257.3	261.7	261.7	263.1
75°	200.6	202.1	203.5	202.1	205.0
77.5°	149.7	152.7	154.1	152.7	151.2
80°	107.6	110.5	109.0	106.1	106.1
82.5°	69.8	71.2	69.8	68.3	68.3
85°	36.3	39.3	37.8	36.3	36.3
87.5°	13.1	14.5	16.0	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)