

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: P258500

Luminaire Tested: **D3X-WO-50L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-50L830-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE  
Light Source: (252) 3000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4668.8 lumens  
Efficiency: N/A  
Efficacy: 123.5 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

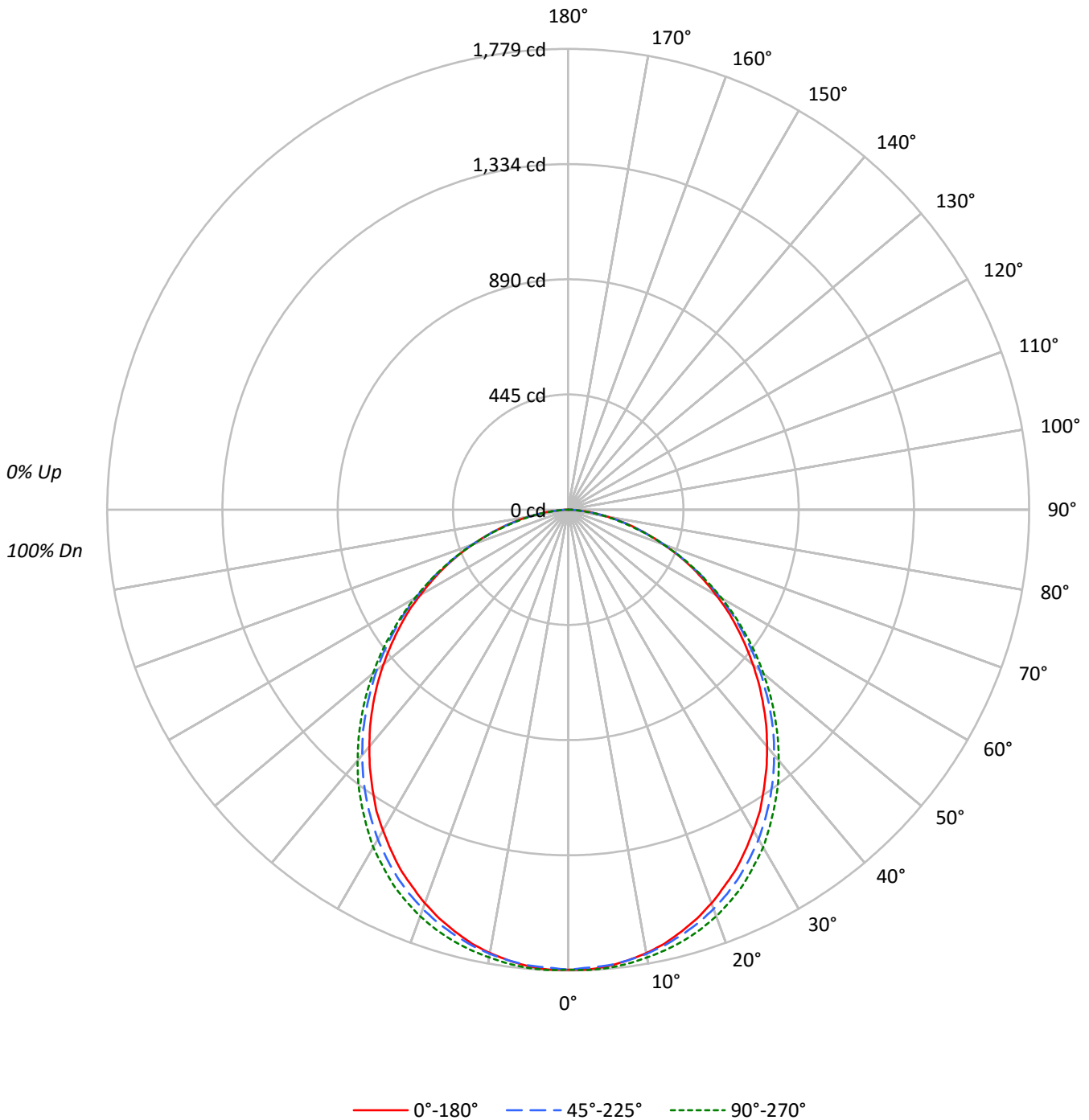
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P258500

CATALOG NUMBER: D3X-WO-50L830-LD5-UNV-24-T1-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P258500

CATALOG NUMBER: D3X-WO-50L830-LD5-UNV-24-T1-STD

**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°	2389	2389	2389
5°	2390	2385	2398
10°	2374	2379	2398
15°	2349	2366	2399
20°	2315	2349	2392
25°	2274	2321	2372
30°	2221	2282	2338
35°	2162	2232	2284
40°	2097	2171	2221
45°	2026	2101	2146
50°	1949	2021	2058
55°	1867	1926	1955
60°	1773	1820	1841
65°	1672	1698	1707
70°	1534	1553	1534
75°	1382	1373	1333
80°	1170	1158	1121
85°	874	849	753



TEST NUMBER: P258500

CATALOG NUMBER: D3X-WO-50L830-LD5-UNV-24-T1-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.1	3.6
10°-20°	480.3	10.3
20°-30°	720.1	15.4
30°-40°	848.0	18.2
40°-50°	848.1	18.2
50°-60°	731.8	15.7
60°-70°	526.6	11.3
70°-80°	279.3	6.0
80°-90°	66.6	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°	1368.4	29.3
0°-40°	2216.4	47.5
0°-60°	3796.3	81.3
0°-90°	4668.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4668.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1769	1768	1766	1772	1776	168
15°	1686	1691	1699	1716	1722	475
25°	1532	1541	1563	1590	1598	705
35°	1316	1332	1359	1382	1390	824
45°	1065	1079	1104	1123	1128	821
55°	796	804	821	835	834	712
65°	525	527	533	536	536	520
75°	266	263	264	258	256	283
85°	57	57	55	50	49	68
90°	0	0	0	0	0	



TEST NUMBER: P258500

CATALOG NUMBER: D3X-WO-50L830-LD5-UNV-24-T1-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1775.6	1775.6	1775.6	1775.6	1775.6
2.5°	1777.2	1774.1	1769.3	1775.6	1778.8
5°	1769.3	1767.8	1766.2	1772.5	1775.6
7.5°	1755.2	1756.8	1755.2	1764.6	1767.8
10°	1737.9	1739.5	1741.0	1752.0	1755.2
12.5°	1715.9	1717.4	1722.2	1736.3	1741.0
15°	1686.0	1690.7	1698.6	1715.9	1722.2
17.5°	1654.5	1660.8	1671.8	1692.3	1698.6
20°	1616.8	1624.7	1640.4	1662.4	1670.3
22.5°	1574.3	1582.2	1604.2	1627.8	1635.7
25°	1531.9	1541.3	1563.3	1590.1	1597.9
27.5°	1481.5	1494.1	1517.7	1544.4	1550.7
30°	1429.6	1440.6	1468.9	1494.1	1505.1
32.5°	1377.7	1388.7	1415.5	1440.6	1448.5
35°	1316.4	1332.1	1358.9	1382.4	1390.3
37.5°	1256.6	1270.8	1299.1	1322.7	1330.5
40°	1193.7	1206.3	1236.2	1258.2	1264.5
42.5°	1130.8	1143.4	1173.3	1190.6	1196.9
45°	1064.8	1078.9	1104.1	1122.9	1127.7
47.5°	998.7	1009.7	1033.3	1050.6	1056.9
50°	931.1	942.1	965.7	979.8	983.0
52.5°	863.4	871.3	893.3	905.9	910.6
55°	795.8	803.7	821.0	835.1	833.6
57.5°	731.3	734.5	751.8	761.2	761.2
60°	659.0	662.1	676.3	682.6	684.1
62.5°	591.4	596.1	607.1	608.7	608.7
65°	525.3	526.9	533.2	536.3	536.3
67.5°	459.2	457.7	464.0	464.0	462.4
70°	390.0	393.2	394.8	391.6	390.0
72.5°	327.1	325.6	325.6	324.0	324.0
75°	265.8	262.6	264.2	257.9	256.4
77.5°	209.2	204.5	202.9	199.7	196.6
80°	151.0	151.0	149.4	146.3	144.7
82.5°	100.7	100.7	99.1	95.9	92.8
85°	56.6	56.6	55.0	50.3	48.8
87.5°	18.9	18.9	18.9	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)