

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: P258502

Luminaire Tested: **D3X-WO-50L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258502  
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-50L840-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE  
Light Source: (252) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4863.1 lumens  
Efficiency: N/A  
Efficacy: 128.7 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

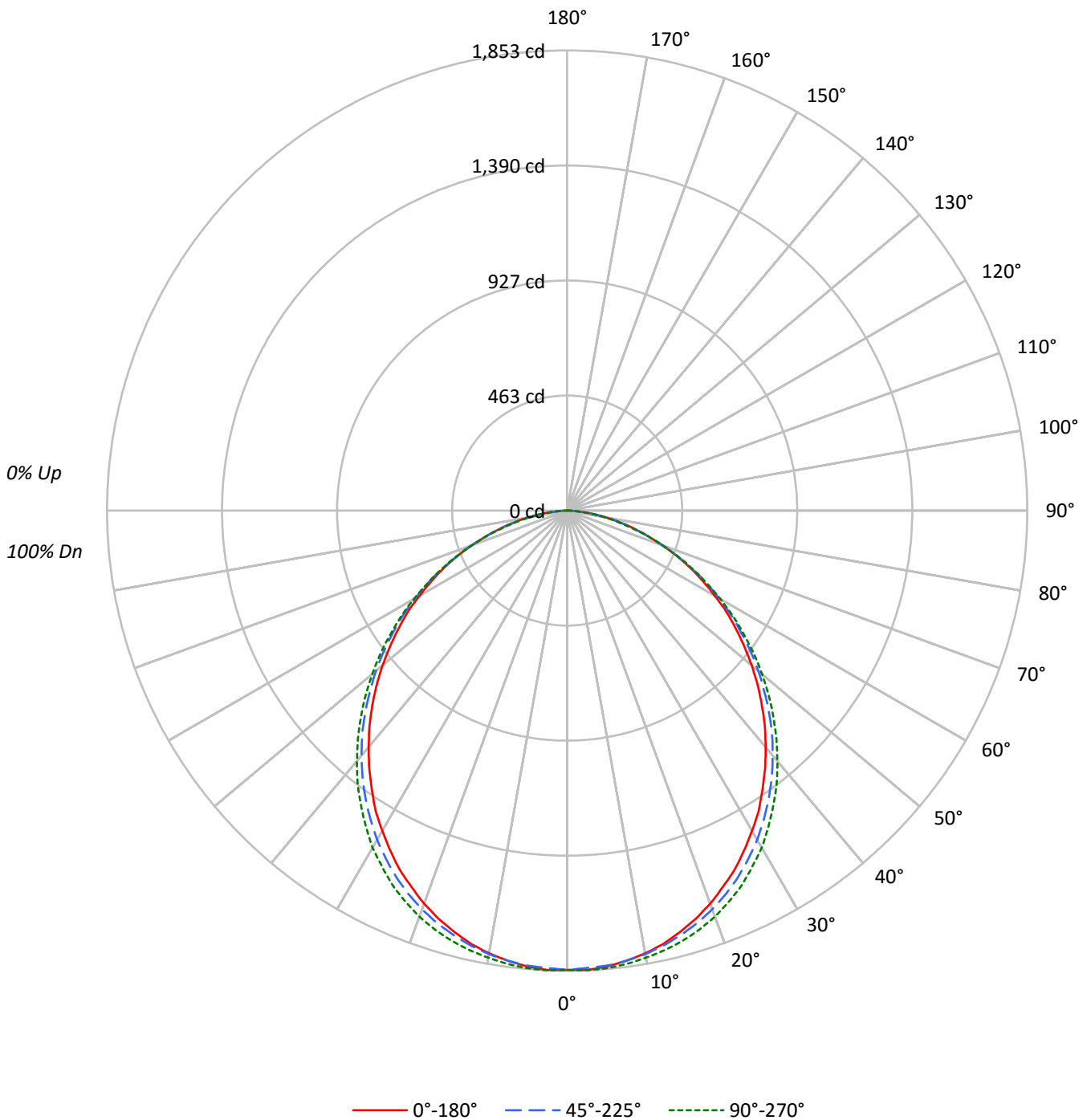
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2488	2488	2488
5°	2489	2485	2498
10°	2473	2478	2498
15°	2446	2465	2499
20°	2411	2446	2491
25°	2369	2417	2471
30°	2314	2377	2436
35°	2252	2325	2379
40°	2184	2262	2313
45°	2110	2188	2235
50°	2030	2106	2143
55°	1944	2006	2037
60°	1847	1896	1918
65°	1742	1768	1778
70°	1598	1618	1598
75°	1439	1431	1388
80°	1219	1206	1168
85°	911	885	784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.1	3.6
10°-20°	500.2	10.3
20°-30°	750.0	15.4
30°-40°	883.3	18.2
40°-50°	883.4	18.2
50°-60°	762.2	15.7
60°-70°	548.5	11.3
70°-80°	290.9	6.0
80°-90°	69.4	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°	1425.4	29.3
0°-40°	2308.7	47.5
0°-60°	3954.3	81.3
0°-90°	4863.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4863.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1843	1841	1840	1846	1850	175
15°	1756	1761	1769	1787	1794	495
25°	1596	1605	1628	1656	1664	734
35°	1371	1388	1415	1440	1448	858
45°	1109	1124	1150	1170	1175	856
55°	829	837	855	870	868	742
65°	547	549	555	559	559	541
75°	277	274	275	269	267	295
85°	59	59	57	52	51	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1849.5	1849.5	1849.5	1849.5	1849.5
2.5°	1851.2	1847.9	1843.0	1849.5	1852.8
5°	1843.0	1841.3	1839.7	1846.2	1849.5
7.5°	1828.2	1829.9	1828.2	1838.1	1841.3
10°	1810.2	1811.8	1813.5	1825.0	1828.2
12.5°	1787.3	1788.9	1793.8	1808.6	1813.5
15°	1756.1	1761.1	1769.3	1787.3	1793.8
17.5°	1723.4	1729.9	1741.4	1762.7	1769.3
20°	1684.1	1692.3	1708.6	1731.6	1739.8
22.5°	1639.8	1648.0	1671.0	1695.5	1703.7
25°	1595.6	1605.4	1628.4	1656.2	1664.4
27.5°	1543.2	1556.3	1580.9	1608.7	1615.3
30°	1489.1	1500.6	1530.1	1556.3	1567.8
32.5°	1435.1	1446.5	1474.4	1500.6	1508.8
35°	1371.2	1387.6	1415.4	1440.0	1448.2
37.5°	1308.9	1323.7	1353.2	1377.7	1385.9
40°	1243.4	1256.5	1287.6	1310.6	1317.1
42.5°	1177.9	1191.0	1222.1	1240.1	1246.7
45°	1109.1	1123.8	1150.0	1169.7	1174.6
47.5°	1040.3	1051.7	1076.3	1094.3	1100.9
50°	969.8	981.3	1005.9	1020.6	1023.9
52.5°	899.4	907.6	930.5	943.6	948.5
55°	828.9	837.1	855.1	869.9	868.2
57.5°	761.8	765.0	783.1	792.9	792.9
60°	686.4	689.7	704.4	711.0	712.6
62.5°	616.0	620.9	632.3	634.0	634.0
65°	547.2	548.8	555.3	558.6	558.6
67.5°	478.4	476.7	483.3	483.3	481.6
70°	406.3	409.5	411.2	407.9	406.3
72.5°	340.7	339.1	339.1	337.5	337.5
75°	276.9	273.6	275.2	268.7	267.0
77.5°	217.9	213.0	211.3	208.1	204.8
80°	157.3	157.3	155.6	152.4	150.7
82.5°	104.8	104.8	103.2	99.9	96.7
85°	59.0	59.0	57.3	52.4	50.8
87.5°	19.7	19.7	19.7	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)