

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: P258505

Luminaire Tested: **D3X-WO-50L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258505  
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-50L940-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE  
Light Source: (252) 4000 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4295.6 lumens  
Efficiency: N/A  
Efficacy: 113.6 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

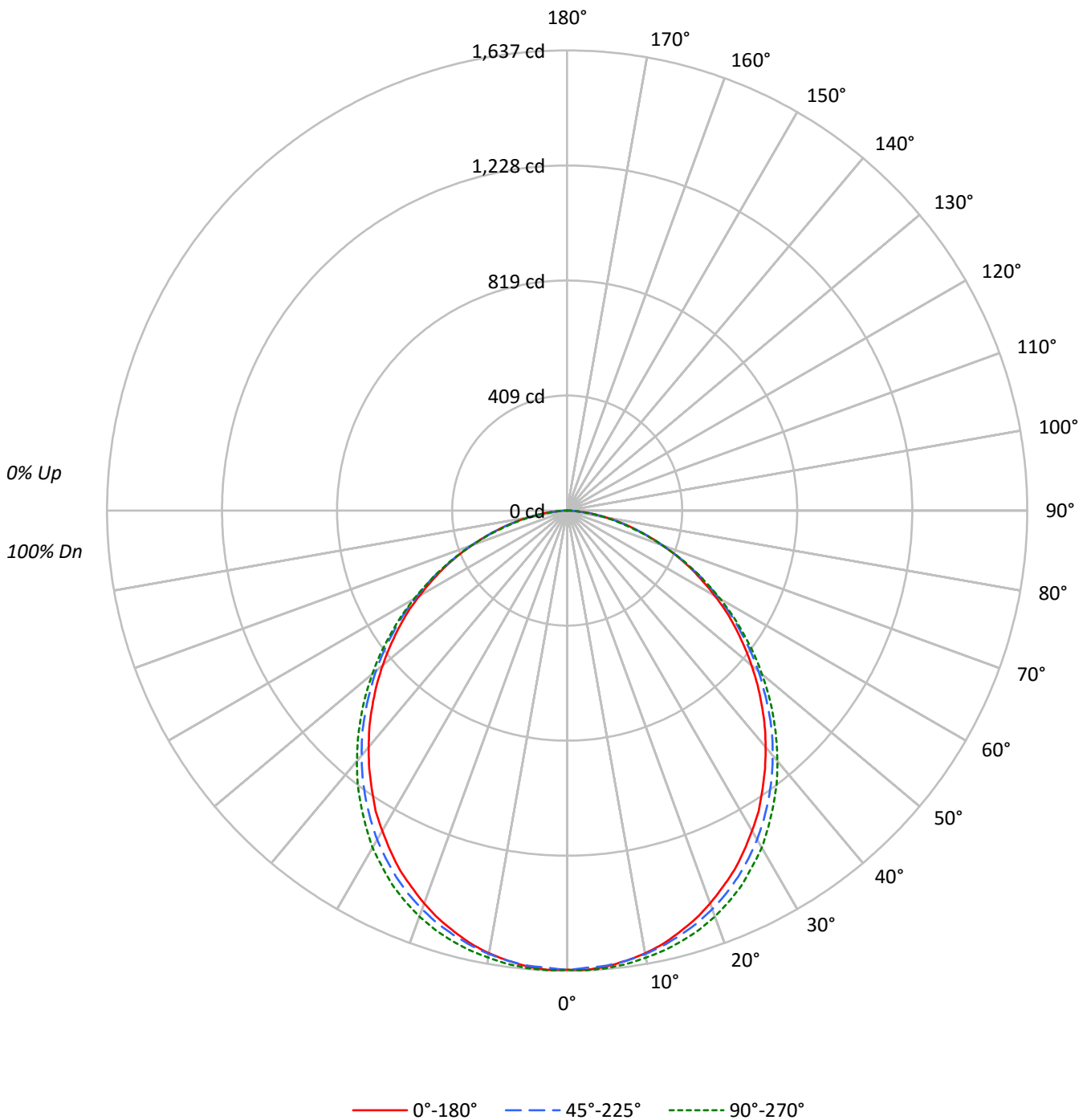
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2198	2198	2198
5°	2199	2195	2207
10°	2185	2189	2206
15°	2161	2177	2207
20°	2130	2161	2200
25°	2092	2135	2183
30°	2043	2100	2151
35°	1989	2054	2101
40°	1929	1998	2043
45°	1864	1933	1974
50°	1793	1860	1893
55°	1718	1772	1799
60°	1632	1674	1694
65°	1539	1562	1571
70°	1412	1429	1412
75°	1271	1264	1226
80°	1076	1065	1031
85°	804	781	693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.7	3.6
10°-20°	441.9	10.3
20°-30°	662.5	15.4
30°-40°	780.2	18.2
40°-50°	780.3	18.2
50°-60°	673.3	15.7
60°-70°	484.5	11.3
70°-80°	257.0	6.0
80°-90°	61.3	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°	1259.0	29.3
0°-40°	2039.2	47.5
0°-60°	3492.9	81.3
0°-90°	4295.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4295.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1628	1626	1625	1631	1634	154
15°	1551	1556	1563	1579	1584	437
25°	1409	1418	1438	1463	1470	648
35°	1211	1226	1250	1272	1279	758
45°	980	993	1016	1033	1038	756
55°	732	739	755	768	767	655
65°	483	485	490	493	493	478
75°	244	242	243	237	236	260
85°	52	52	51	46	45	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1633.7	1633.7	1633.7	1633.7	1633.7
2.5°	1635.1	1632.2	1627.9	1633.7	1636.6
5°	1627.9	1626.5	1625.0	1630.8	1633.7
7.5°	1614.9	1616.3	1614.9	1623.6	1626.5
10°	1599.0	1600.4	1601.9	1612.0	1614.9
12.5°	1578.7	1580.2	1584.5	1597.5	1601.9
15°	1551.2	1555.6	1562.8	1578.7	1584.5
17.5°	1522.3	1528.1	1538.2	1557.0	1562.8
20°	1487.5	1494.8	1509.2	1529.5	1536.7
22.5°	1448.5	1455.7	1476.0	1497.7	1504.9
25°	1409.4	1418.1	1438.3	1462.9	1470.2
27.5°	1363.1	1374.7	1396.4	1421.0	1426.8
30°	1315.3	1325.5	1351.5	1374.7	1384.8
32.5°	1267.6	1277.7	1302.3	1325.5	1332.7
35°	1211.2	1225.6	1250.2	1271.9	1279.2
37.5°	1156.2	1169.2	1195.2	1216.9	1224.2
40°	1098.3	1109.9	1137.4	1157.6	1163.4
42.5°	1040.4	1052.0	1079.5	1095.4	1101.2
45°	979.6	992.7	1015.8	1033.2	1037.5
47.5°	918.9	929.0	950.7	966.6	972.4
50°	856.6	866.8	888.5	901.5	904.4
52.5°	794.4	801.7	821.9	833.5	837.8
55°	732.2	739.4	755.3	768.4	766.9
57.5°	672.9	675.8	691.7	700.4	700.4
60°	606.3	609.2	622.2	628.0	629.5
62.5°	544.1	548.4	558.6	560.0	560.0
65°	483.3	484.8	490.5	493.4	493.4
67.5°	422.5	421.1	426.9	426.9	425.4
70°	358.9	361.8	363.2	360.3	358.9
72.5°	301.0	299.5	299.5	298.1	298.1
75°	244.5	241.7	243.1	237.3	235.9
77.5°	192.5	188.1	186.7	183.8	180.9
80°	138.9	138.9	137.5	134.6	133.1
82.5°	92.6	92.6	91.2	88.3	85.4
85°	52.1	52.1	50.6	46.3	44.9
87.5°	17.4	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)