

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: P258388

Luminaire Tested: **D3X-WD-55L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-55L830-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF  
Light Source: (252) 3000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4869.2 lumens  
Efficiency: N/A  
Efficacy: 114.0 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

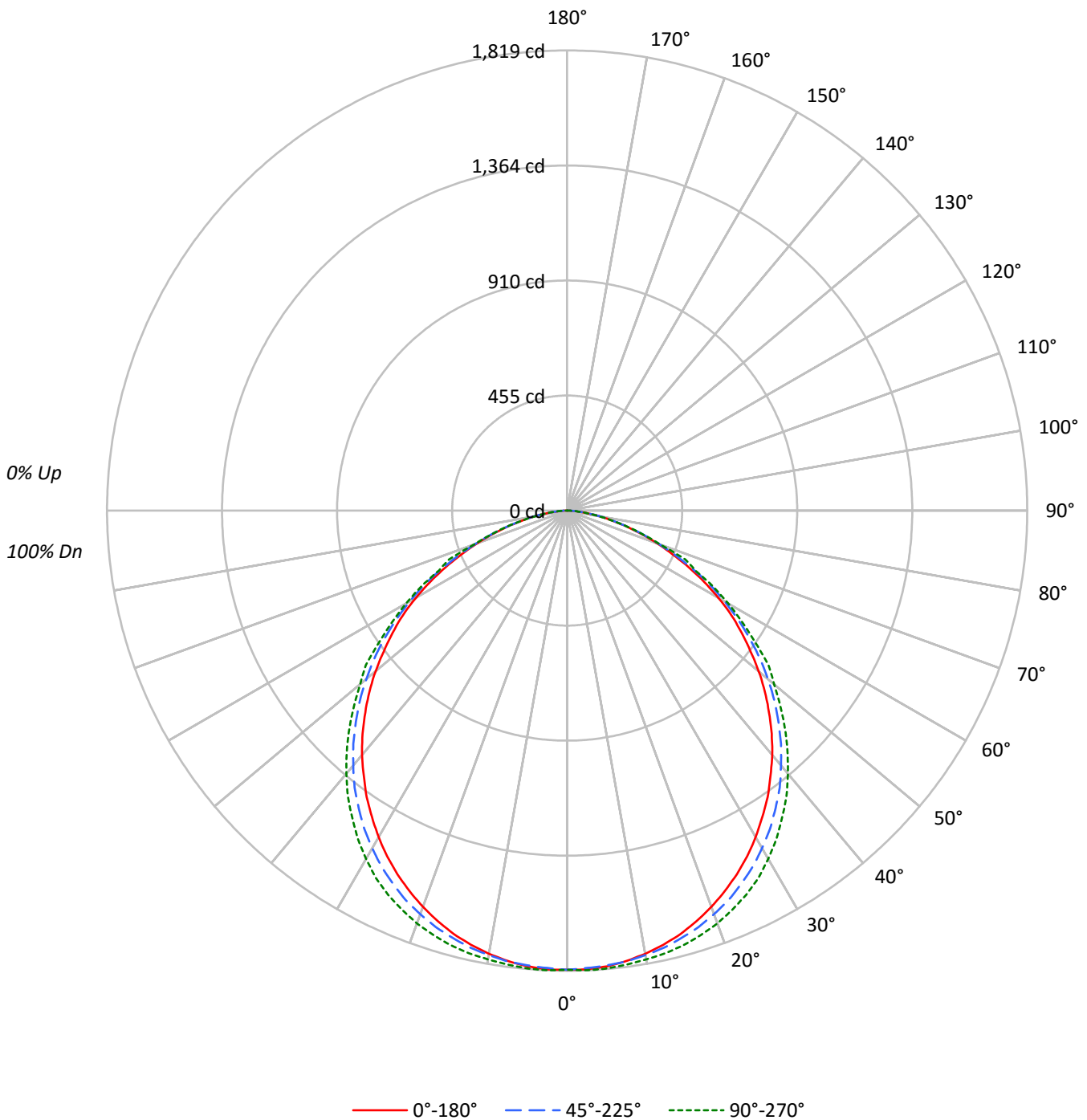
Input Watts (W): 42.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P258388

CATALOG NUMBER: D3X-WD-55L830-LD5-UNV-24-T1-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P258388

CATALOG NUMBER: D3X-WD-55L830-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	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°	2442	2442	2442
5°	2442	2437	2454
10°	2430	2437	2461
15°	2414	2436	2477
20°	2386	2432	2487
25°	2355	2417	2487
30°	2315	2394	2470
35°	2270	2359	2433
40°	2216	2311	2384
45°	2148	2247	2317
50°	2070	2169	2235
55°	1975	2065	2127
60°	1862	1932	1979
65°	1691	1747	1780
70°	1485	1519	1539
75°	1253	1272	1280
80°	1002	1015	988
85°	675	701	675



TEST NUMBER: P258388

CATALOG NUMBER: D3X-WD-55L830-LD5-UNV-24-T1-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.0	3.5
10°-20°	494.7	10.2
20°-30°	750.6	15.4
30°-40°	896.1	18.4
40°-50°	907.2	18.6
50°-60°	784.2	16.1
60°-70°	543.5	11.2
70°-80°	263.0	5.4
80°-90°	57.8	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°	1417.3	29.1
0°-40°	2313.5	47.5
0°-60°	4004.9	82.2
0°-90°	4869.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4869.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1815	1815	1815	1815	1815	
5°	1808	1806	1805	1814	1817	172
15°	1733	1737	1749	1770	1778	488
25°	1586	1597	1628	1662	1675	731
35°	1382	1394	1436	1473	1482	863
45°	1129	1144	1181	1211	1218	870
55°	842	851	880	917	907	753
65°	531	536	549	557	559	526
75°	241	243	245	243	246	259
85°	44	47	45	44	44	57
90°	0	0	0	0	0	



TEST NUMBER: P258388

CATALOG NUMBER: D3X-WD-55L830-LD5-UNV-24-T1-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1815.2	1815.2	1815.2	1815.2	1815.2
2.5°	1815.2	1813.5	1810.0	1815.2	1818.7
5°	1808.2	1806.5	1804.7	1813.5	1817.0
7.5°	1796.0	1796.0	1797.7	1806.5	1810.0
10°	1778.5	1780.3	1783.8	1797.7	1801.2
12.5°	1757.6	1761.1	1769.8	1785.5	1792.5
15°	1733.1	1736.6	1748.8	1769.8	1778.5
17.5°	1701.7	1708.6	1726.1	1750.6	1759.3
20°	1666.7	1675.4	1698.2	1726.1	1736.6
22.5°	1628.3	1637.0	1666.7	1696.4	1706.9
25°	1586.3	1596.8	1628.3	1661.5	1675.4
27.5°	1540.9	1553.2	1588.1	1623.0	1637.0
30°	1490.3	1504.2	1540.9	1577.6	1589.8
32.5°	1436.1	1450.1	1492.0	1526.9	1539.2
35°	1381.9	1394.2	1436.1	1472.8	1481.5
37.5°	1320.8	1334.8	1380.2	1411.6	1423.9
40°	1261.4	1275.4	1315.5	1347.0	1357.5
42.5°	1196.7	1210.7	1250.9	1280.6	1289.3
45°	1128.6	1144.3	1181.0	1210.7	1217.7
47.5°	1060.5	1072.7	1111.1	1137.3	1142.6
50°	988.8	1001.1	1036.0	1062.2	1067.5
52.5°	913.7	932.9	960.9	980.1	1002.8
55°	842.1	850.8	880.5	917.2	906.7
57.5°	770.5	775.7	800.2	815.9	819.4
60°	691.8	698.8	718.0	726.8	735.5
62.5°	609.7	615.0	637.7	646.4	649.9
65°	531.1	536.4	548.6	557.3	559.1
67.5°	450.7	456.0	466.5	473.5	504.9
70°	377.4	380.9	386.1	400.1	391.3
72.5°	307.5	309.2	314.5	314.5	316.2
75°	241.1	242.8	244.6	242.8	246.3
77.5°	179.9	183.4	185.2	183.4	181.7
80°	129.3	132.8	131.0	127.5	127.5
82.5°	83.9	85.6	83.9	82.1	82.1
85°	43.7	47.2	45.4	43.7	43.7
87.5°	15.7	17.5	19.2	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)