

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P601104

Luminaire Tested: 22D3X-LP-40-L830

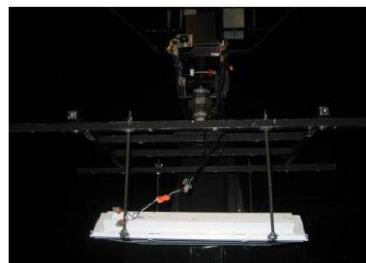
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/5/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 22D3X-LP-40-L830  
Description: 2x2 D3X-LP AT 4000LM 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

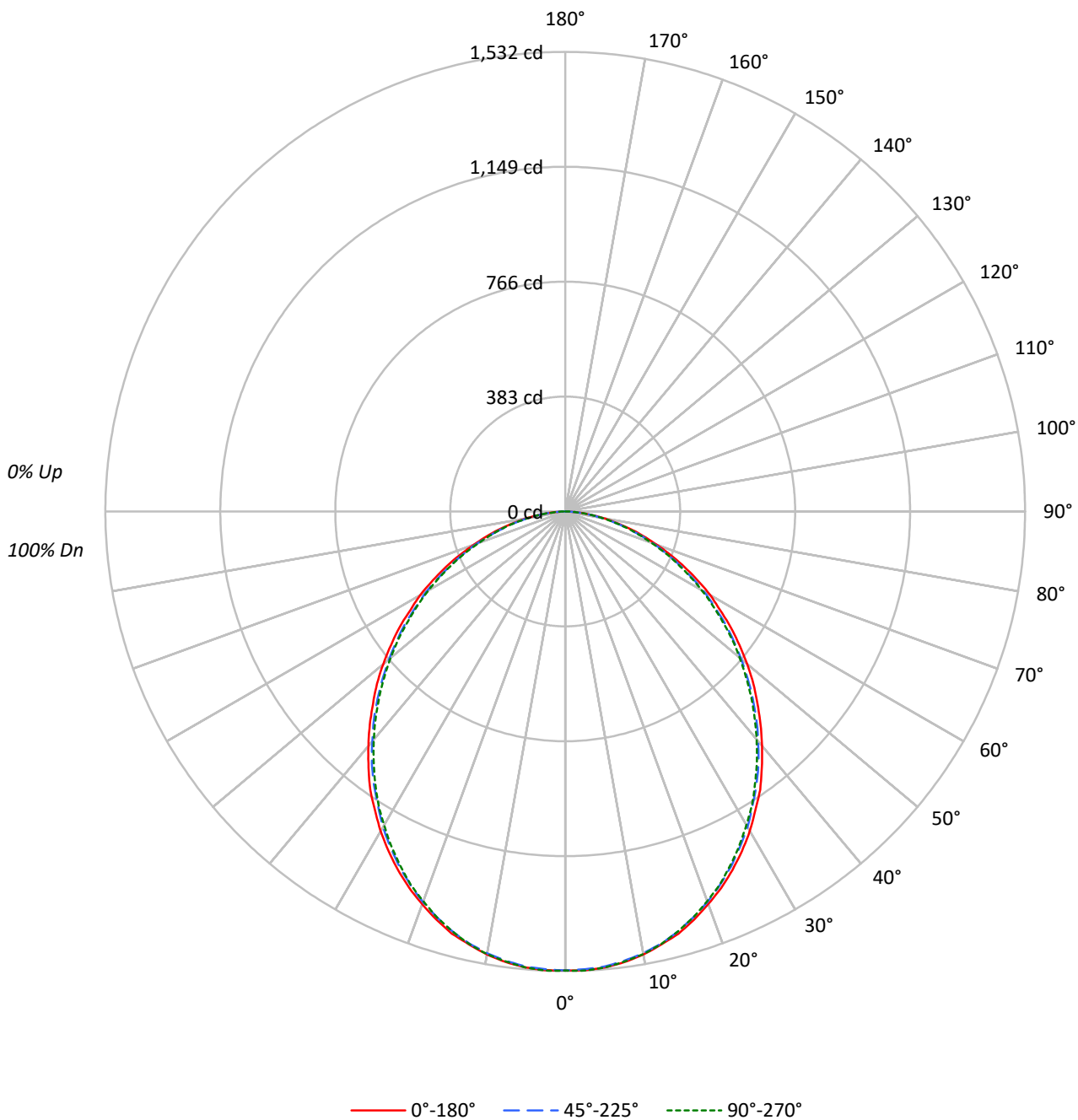
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3824.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 32.6  
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: 24 FT



TEST NUMBER: P601104  
CATALOG NUMBER: 22D3X-LP-40-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P601104  
 CATALOG NUMBER: 22D3X-LP-40-L830

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4118	4118	4118
5°	4121	4113	4121
10°	4098	4086	4094
15°	4059	4038	4038
20°	3989	3968	3959
25°	3915	3878	3865
30°	3822	3775	3751
35°	3720	3650	3625
40°	3582	3512	3485
45°	3446	3364	3335
50°	3311	3203	3177
55°	3161	3046	3004
60°	3002	2871	2830
65°	2795	2659	2630
70°	2554	2459	2398
75°	2330	2187	2203
80°	2008	1889	1914
85°	1553	1507	1411

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3446 cd/sqm



TEST NUMBER: P601104  
 CATALOG NUMBER: 22D3X-LP-40-L830

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.5	3.8
10°-20°	408.7	10.7
20°-30°	602.0	15.7
30°-40°	696.4	18.2
40°-50°	684.6	17.9
50°-60°	583.4	15.3
60°-70°	418.0	10.9
70°-80°	227.0	5.9
80°-90°	59.2	1.5
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°	1155.2	30.2
0°-40°	1851.6	48.4
0°-60°	3119.7	81.6
0°-90°	3824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3824.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1526	1523	1523	1523	1526	145
15°	1457	1451	1450	1448	1450	410
25°	1318	1312	1306	1303	1302	607
35°	1132	1123	1111	1105	1104	706
45°	905	899	884	876	876	699
55°	674	662	649	642	640	602
65°	439	430	418	413	413	435
75°	224	216	210	207	212	237
85°	50	50	49	47	46	61
90°	0	0	0	0	0	



TEST NUMBER: P601104  
 CATALOG NUMBER: 22D3X-LP-40-L830

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1530.3	1530.3	1530.3	1530.3	1530.3
2.5°	1530.3	1528.7	1527.2	1528.7	1531.8
5°	1525.7	1522.6	1522.6	1522.6	1525.7
7.5°	1515.0	1512.0	1510.5	1512.0	1513.5
10°	1499.8	1496.7	1495.2	1496.7	1498.3
12.5°	1478.4	1476.9	1475.4	1475.4	1476.9
15°	1457.1	1451.0	1449.5	1448.0	1449.5
17.5°	1426.6	1425.1	1419.0	1419.0	1419.0
20°	1393.1	1390.0	1385.5	1382.4	1382.4
22.5°	1358.0	1355.0	1347.4	1344.3	1345.8
25°	1318.4	1312.3	1306.2	1303.2	1301.6
27.5°	1275.7	1269.6	1260.5	1255.9	1255.9
30°	1230.0	1225.4	1214.8	1208.7	1207.1
32.5°	1179.7	1176.7	1161.4	1158.4	1158.4
35°	1132.5	1123.3	1111.1	1105.0	1103.5
37.5°	1076.1	1070.0	1057.8	1050.2	1048.6
40°	1019.7	1012.1	999.9	993.8	992.2
42.5°	963.3	955.7	943.5	935.8	934.3
45°	905.4	899.3	884.0	876.4	876.4
47.5°	850.5	838.3	824.6	818.5	817.0
50°	791.0	780.4	765.1	759.0	759.0
52.5°	731.6	724.0	707.2	704.2	701.1
55°	673.7	661.5	649.3	641.7	640.2
57.5°	611.2	600.5	588.3	582.2	582.2
60°	557.8	544.1	533.5	525.8	525.8
62.5°	496.9	484.7	474.0	469.4	467.9
65°	439.0	429.8	417.6	413.1	413.1
67.5°	381.0	373.4	362.8	358.2	359.7
70°	324.6	320.1	312.5	306.4	304.8
72.5°	272.8	266.7	259.1	257.6	257.6
75°	224.1	216.4	210.3	207.3	211.9
77.5°	173.8	169.2	166.1	164.6	166.1
80°	129.6	123.5	121.9	123.5	123.5
82.5°	89.9	86.9	85.4	85.4	85.4
85°	50.3	50.3	48.8	47.2	45.7
87.5°	19.8	19.8	21.3	21.3	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)