

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: P601115

Luminaire Tested: 22D3X-LP-45-L940

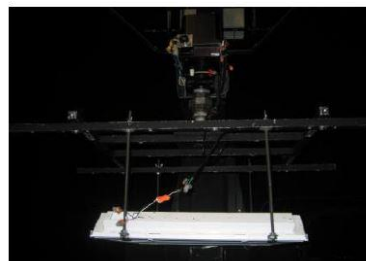
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601115  
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-45-L940  
Description: 2x2 D3X-LP AT 4500LM 4000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

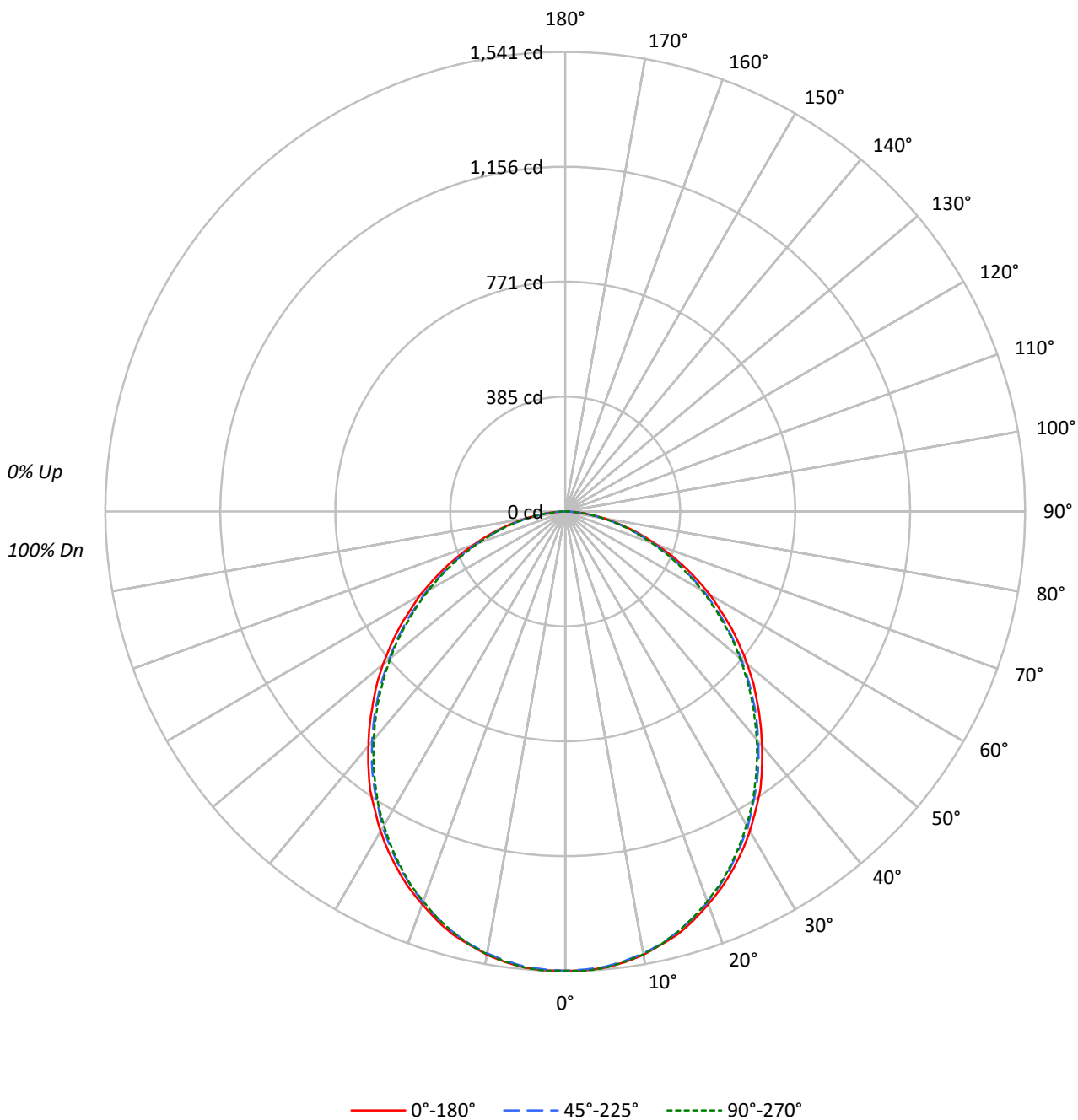
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3848.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 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): 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: 24 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	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°	4144	4144	4144
5°	4147	4139	4147
10°	4124	4111	4120
15°	4085	4064	4064
20°	4014	3993	3984
25°	3939	3903	3889
30°	3846	3798	3774
35°	3744	3673	3648
40°	3605	3534	3508
45°	3467	3385	3356
50°	3332	3223	3198
55°	3180	3065	3022
60°	3021	2889	2848
65°	2812	2676	2646
70°	2570	2474	2413
75°	2345	2201	2217
80°	2021	1901	1925
85°	1562	1516	1420

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3467 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.5	3.8
10°-20°	411.3	10.7
20°-30°	605.8	15.7
30°-40°	700.7	18.2
40°-50°	688.9	17.9
50°-60°	587.1	15.3
60°-70°	420.7	10.9
70°-80°	228.5	5.9
80°-90°	59.6	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°	1162.5	30.2
0°-40°	1863.2	48.4
0°-60°	3139.2	81.6
0°-90°	3848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3848.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1540	1540	1540	1540	1540	
5°	1535	1532	1532	1532	1535	146
15°	1466	1460	1459	1457	1459	413
25°	1327	1320	1314	1311	1310	611
35°	1140	1130	1118	1112	1110	711
45°	911	905	890	882	882	704
55°	678	666	653	646	644	605
65°	442	432	420	416	416	438
75°	226	218	212	209	213	238
85°	51	51	49	48	46	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1539.9	1539.9	1539.9	1539.9	1539.9
2.5°	1539.9	1538.3	1536.8	1538.3	1541.4
5°	1535.3	1532.2	1532.2	1532.2	1535.3
7.5°	1524.5	1521.5	1519.9	1521.5	1523.0
10°	1509.2	1506.1	1504.6	1506.1	1507.7
12.5°	1487.7	1486.2	1484.7	1484.7	1486.2
15°	1466.3	1460.1	1458.6	1457.1	1458.6
17.5°	1435.6	1434.0	1427.9	1427.9	1427.9
20°	1401.8	1398.8	1394.2	1391.1	1391.1
22.5°	1366.6	1363.5	1355.8	1352.8	1354.3
25°	1326.7	1320.5	1314.4	1311.3	1309.8
27.5°	1283.7	1277.6	1268.4	1263.8	1263.8
30°	1237.7	1233.1	1222.4	1216.3	1214.7
32.5°	1187.1	1184.0	1168.7	1165.6	1165.6
35°	1139.6	1130.4	1118.1	1112.0	1110.4
37.5°	1082.8	1076.7	1064.4	1056.7	1055.2
40°	1026.1	1018.4	1006.1	1000.0	998.5
42.5°	969.3	961.7	949.4	941.7	940.2
45°	911.0	904.9	889.6	881.9	881.9
47.5°	855.8	843.6	829.8	823.6	822.1
50°	796.0	785.3	769.9	763.8	763.8
52.5°	736.2	728.5	711.7	708.6	705.5
55°	677.9	665.6	653.4	645.7	644.2
57.5°	615.0	604.3	592.0	585.9	585.9
60°	561.3	547.5	536.8	529.1	529.1
62.5°	500.0	487.7	477.0	472.4	470.9
65°	441.7	432.5	420.2	415.6	415.6
67.5°	383.4	375.8	365.0	360.4	362.0
70°	326.7	322.1	314.4	308.3	306.7
72.5°	274.5	268.4	260.7	259.2	259.2
75°	225.5	217.8	211.7	208.6	213.2
77.5°	174.8	170.2	167.2	165.6	167.2
80°	130.4	124.2	122.7	124.2	124.2
82.5°	90.5	87.4	85.9	85.9	85.9
85°	50.6	50.6	49.1	47.5	46.0
87.5°	19.9	19.9	21.5	21.5	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)