

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: P601136

Luminaire Tested: 22D3X-LP-70-L840

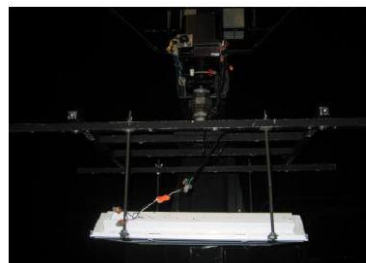
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601136  
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-70-L840  
Description: 2x2 D3X-LP AT 7000LM 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

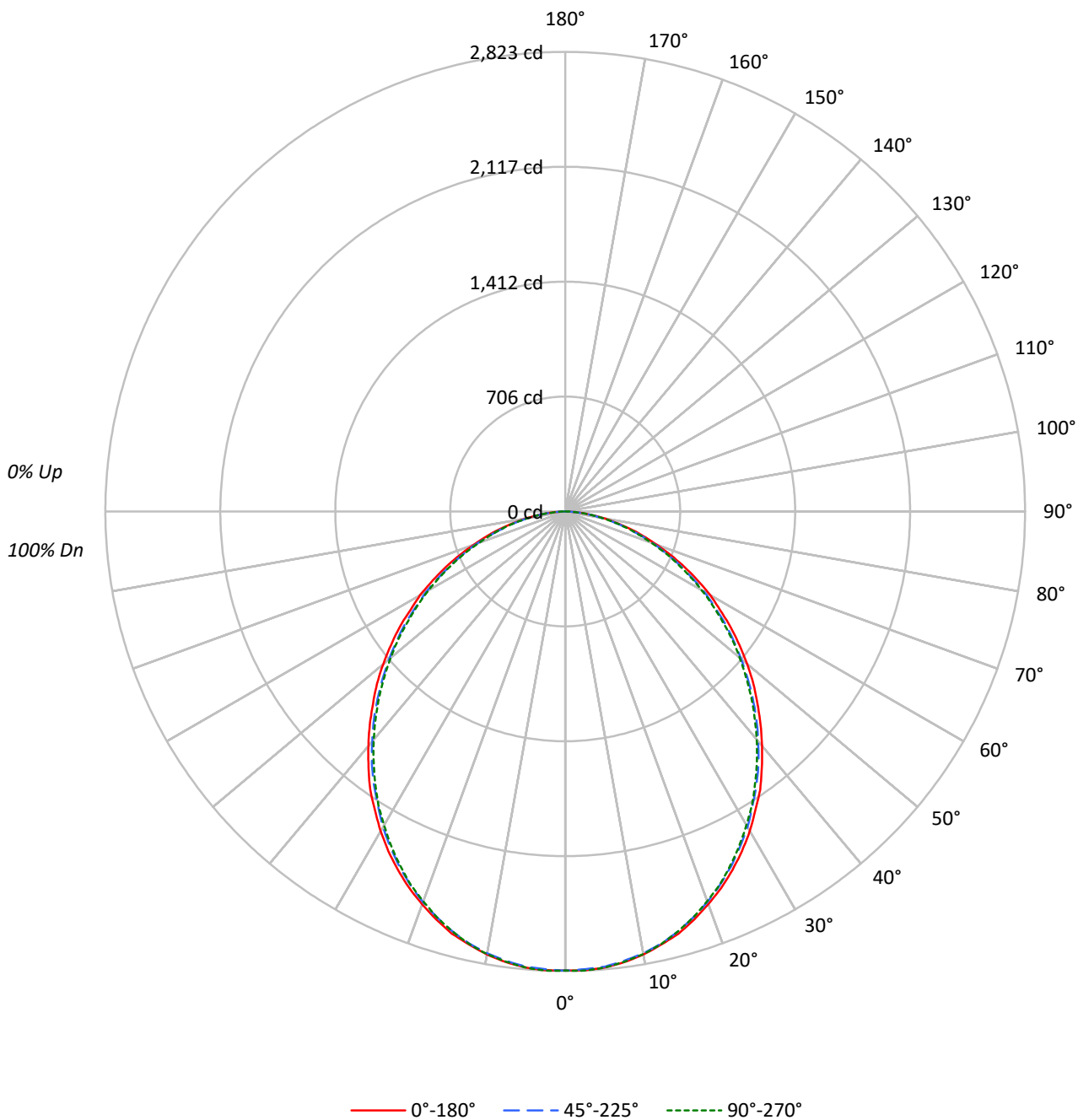
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7047.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 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): 63.9  
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	
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°	7589	7589	7589
5°	7595	7580	7595
10°	7552	7529	7544
15°	7481	7442	7442
20°	7352	7312	7296
25°	7214	7147	7122
30°	7043	6956	6912
35°	6856	6727	6681
40°	6601	6473	6423
45°	6349	6200	6146
50°	6103	5903	5856
55°	5825	5613	5535
60°	5533	5291	5215
65°	5151	4900	4847
70°	4707	4530	4420
75°	4293	4030	4059
80°	3699	3482	3526
85°	2862	2776	2603

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6349 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.4	3.8
10°-20°	753.2	10.7
20°-30°	1109.3	15.7
30°-40°	1283.3	18.2
40°-50°	1261.6	17.9
50°-60°	1075.2	15.3
60°-70°	770.4	10.9
70°-80°	418.4	5.9
80°-90°	109.2	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°	2128.9	30.2
0°-40°	3412.2	48.4
0°-60°	5749.0	81.6
0°-90°	7047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7047.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2820	2820	2820	2820	2820	
5°	2812	2806	2806	2806	2812	267
15°	2685	2674	2671	2668	2671	756
25°	2430	2418	2407	2402	2399	1118
35°	2087	2070	2048	2036	2034	1301
45°	1668	1657	1629	1615	1615	1289
55°	1242	1219	1196	1182	1180	1109
65°	809	792	770	761	761	801
75°	413	399	388	382	390	436
85°	93	93	90	87	84	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2820.0	2820.0	2820.0	2820.0	2820.0
2.5°	2820.0	2817.2	2814.4	2817.2	2822.8
5°	2811.6	2806.0	2806.0	2806.0	2811.6
7.5°	2791.9	2786.3	2783.5	2786.3	2789.1
10°	2763.9	2758.2	2755.4	2758.2	2761.0
12.5°	2724.5	2721.7	2718.9	2718.9	2721.7
15°	2685.2	2674.0	2671.2	2668.4	2671.2
17.5°	2629.0	2626.2	2615.0	2615.0	2615.0
20°	2567.2	2561.6	2553.2	2547.6	2547.6
22.5°	2502.6	2497.0	2483.0	2477.4	2480.2
25°	2429.6	2418.4	2407.1	2401.5	2398.7
27.5°	2351.0	2339.7	2322.9	2314.5	2314.5
30°	2266.7	2258.3	2238.6	2227.4	2224.6
32.5°	2174.0	2168.4	2140.3	2134.7	2134.7
35°	2086.9	2070.1	2047.6	2036.4	2033.6
37.5°	1983.0	1971.8	1949.3	1935.3	1932.5
40°	1879.1	1865.0	1842.6	1831.3	1828.5
42.5°	1775.2	1761.1	1738.6	1724.6	1721.8
45°	1668.4	1657.2	1629.1	1615.1	1615.1
47.5°	1567.3	1544.8	1519.6	1508.3	1505.5
50°	1457.8	1438.1	1410.0	1398.8	1398.8
52.5°	1348.2	1334.2	1303.3	1297.7	1292.0
55°	1241.5	1219.0	1196.5	1182.5	1179.7
57.5°	1126.3	1106.7	1084.2	1073.0	1073.0
60°	1028.0	1002.7	983.1	969.0	969.0
62.5°	915.7	893.2	873.5	865.1	862.3
65°	808.9	792.1	769.6	761.2	761.2
67.5°	702.2	688.2	668.5	660.1	662.9
70°	598.3	589.8	575.8	564.6	561.8
72.5°	502.8	491.5	477.5	474.7	474.7
75°	412.9	398.8	387.6	382.0	390.4
77.5°	320.2	311.8	306.2	303.4	306.2
80°	238.7	227.5	224.7	227.5	227.5
82.5°	165.7	160.1	157.3	157.3	157.3
85°	92.7	92.7	89.9	87.1	84.3
87.5°	36.5	36.5	39.3	39.3	42.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)