

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: P601142

Luminaire Tested: 22D3X-LP-80-L840

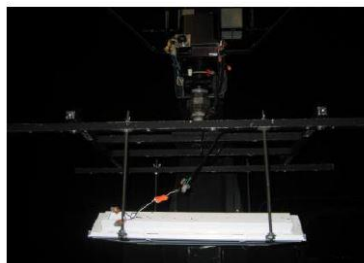
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601142  
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-80-L840  
Description: 2x2 D3X-LP AT 8000LM 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

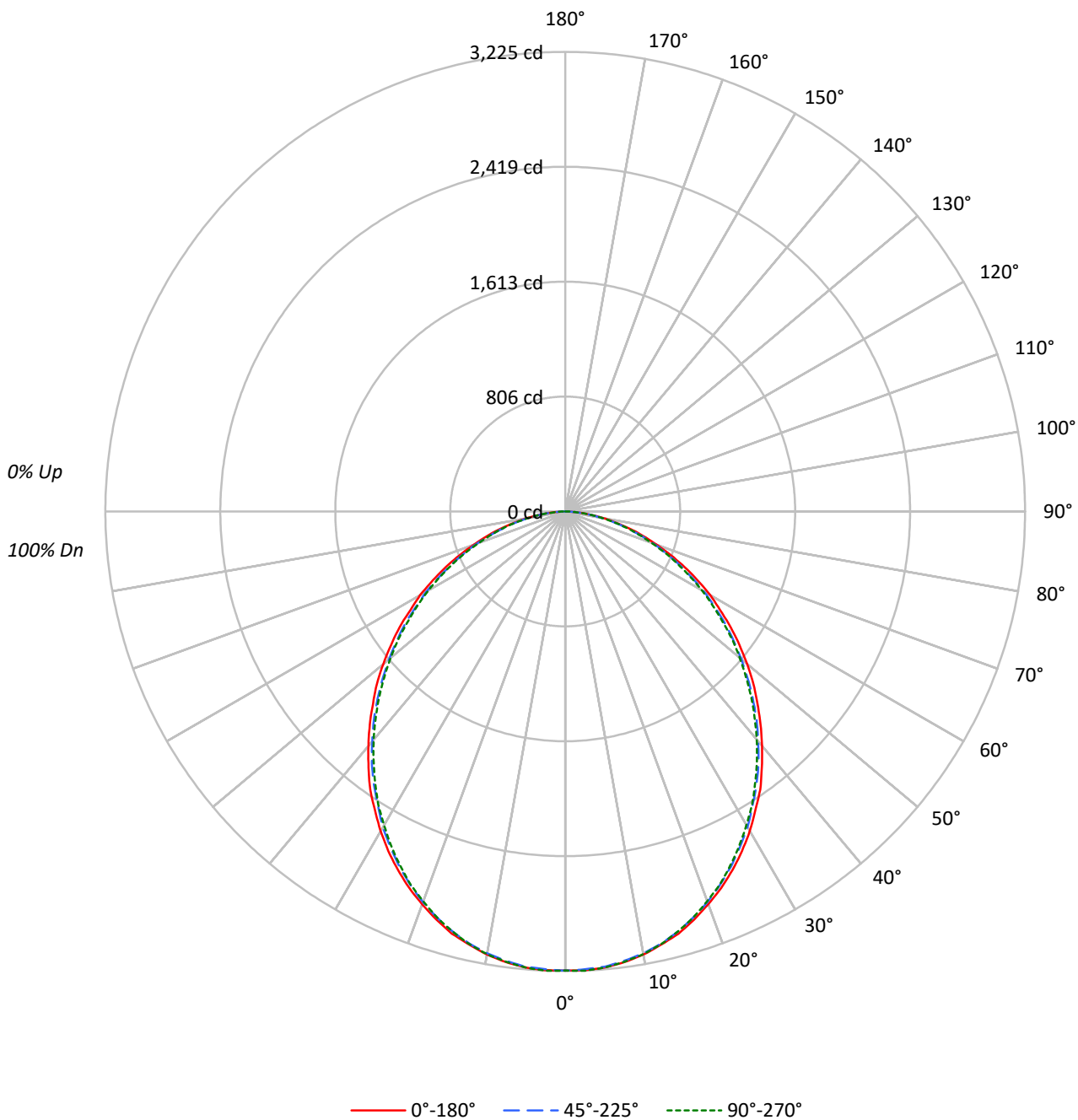
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8051.0 lumens  
Efficiency: N/A  
Efficacy: 109.7 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): 73.4  
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°	8670	8670	8670
5°	8677	8660	8677
10°	8628	8602	8619
15°	8547	8502	8502
20°	8399	8353	8335
25°	8242	8166	8137
30°	8047	7947	7897
35°	7833	7685	7632
40°	7541	7395	7338
45°	7254	7083	7022
50°	6972	6744	6690
55°	6655	6413	6323
60°	6321	6044	5958
65°	5885	5599	5537
70°	5378	5176	5050
75°	4904	4604	4637
80°	4228	3978	4028
85°	3270	3171	2973

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7254 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.3	3.8
10°-20°	860.5	10.7
20°-30°	1267.4	15.7
30°-40°	1466.1	18.2
40°-50°	1441.4	17.9
50°-60°	1228.4	15.3
60°-70°	880.2	10.9
70°-80°	478.0	5.9
80°-90°	124.7	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°	2432.3	30.2
0°-40°	3898.4	48.4
0°-60°	6568.1	81.6
0°-90°	8051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8051.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3222	3222	3222	3222	3222	
5°	3212	3206	3206	3206	3212	305
15°	3068	3055	3052	3048	3052	863
25°	2776	2763	2750	2744	2740	1278
35°	2384	2365	2339	2326	2323	1487
45°	1906	1893	1861	1845	1845	1472
55°	1418	1393	1367	1351	1348	1266
65°	924	905	879	870	870	915
75°	472	456	443	436	446	498
85°	106	106	103	100	96	129
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3221.8	3221.8	3221.8	3221.8	<i>3221.8</i>
2.5°	<i>3221.8</i>	<i>3218.6</i>	<i>3215.4</i>	<i>3218.6</i>	<i>3225.0</i>
5°	3212.2	3205.8	3205.8	3205.8	<i>3212.2</i>
7.5°	3189.7	3183.3	3180.1	3183.3	<i>3186.5</i>
10°	3157.6	3151.2	3148.0	3151.2	<i>3154.4</i>
12.5°	3112.7	3109.5	3106.3	3106.3	<i>3109.5</i>
15°	3067.8	3054.9	3051.7	3048.5	<i>3051.7</i>
17.5°	3003.6	3000.4	2987.6	2987.6	<i>2987.6</i>
20°	2933.0	2926.6	2917.0	2910.5	<i>2910.5</i>
22.5°	2859.2	2852.8	2836.7	2830.3	<i>2833.5</i>
25°	2775.8	2762.9	2750.1	2743.7	<i>2740.5</i>
27.5°	2685.9	2673.1	2653.8	2644.2	<i>2644.2</i>
30°	2589.6	2580.0	2557.6	2544.7	<i>2541.5</i>
32.5°	2483.7	2477.3	2445.2	2438.8	<i>2438.8</i>
35°	2384.3	2365.0	2339.3	2326.5	<i>2323.3</i>
37.5°	2265.5	2252.7	2227.0	2211.0	<i>2207.8</i>
40°	2146.8	2130.8	2105.1	2092.3	<i>2089.0</i>
42.5°	2028.1	2012.0	1986.4	1970.3	<i>1967.1</i>
45°	1906.1	1893.3	1861.2	1845.2	<i>1845.2</i>
47.5°	1790.6	1764.9	1736.1	1723.2	<i>1720.0</i>
50°	1665.5	1643.0	1610.9	1598.1	<i>1598.1</i>
52.5°	1540.3	1524.3	1489.0	1482.5	<i>1476.1</i>
55°	1418.4	1392.7	1367.0	1351.0	<i>1347.8</i>
57.5°	1286.8	1264.3	1238.7	1225.8	<i>1225.8</i>
60°	1174.5	1145.6	1123.1	1107.1	<i>1107.1</i>
62.5°	1046.1	1020.5	998.0	988.4	<i>985.2</i>
65°	924.2	904.9	879.3	869.6	<i>869.6</i>
67.5°	802.2	786.2	763.7	754.1	<i>757.3</i>
70°	683.5	673.9	657.8	645.0	<i>641.8</i>
72.5°	574.4	561.6	545.5	542.3	<i>542.3</i>
75°	471.7	455.7	442.8	436.4	<i>446.0</i>
77.5°	365.8	356.2	349.8	346.6	<i>349.8</i>
80°	272.8	259.9	256.7	259.9	<i>259.9</i>
82.5°	189.3	182.9	179.7	179.7	<i>179.7</i>
85°	105.9	105.9	102.7	99.5	<i>96.3</i>
87.5°	41.7	41.7	44.9	44.9	<i>48.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)