

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: P601085

Luminaire Tested: 22D3X-LP-20-L940

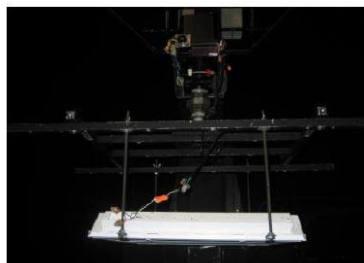
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601085  
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-20-L940  
Description: 2x2 D3X-LP AT 2000LM 4000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

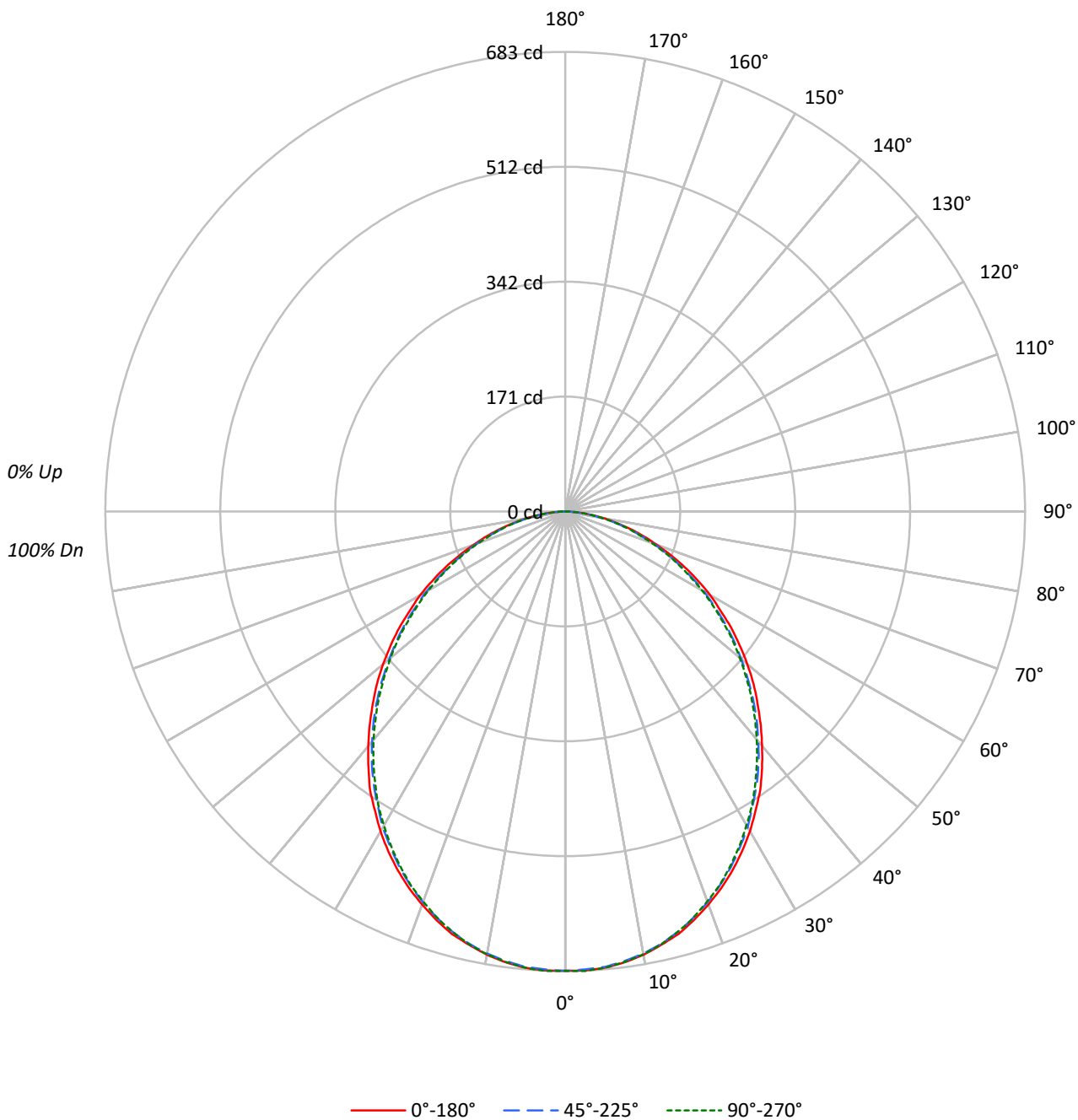
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1706.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 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): 16.1  
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°	1837	1837	1837
5°	1839	1835	1839
10°	1828	1823	1826
15°	1811	1802	1802
20°	1780	1770	1766
25°	1746	1730	1724
30°	1705	1684	1673
35°	1660	1628	1617
40°	1598	1567	1555
45°	1537	1501	1488
50°	1477	1429	1418
55°	1410	1359	1340
60°	1340	1281	1263
65°	1247	1186	1174
70°	1139	1097	1070
75°	1040	975	983
80°	896	843	854
85°	692	673	630

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1537 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.5	3.8
10°-20°	182.3	10.7
20°-30°	268.6	15.7
30°-40°	310.7	18.2
40°-50°	305.4	17.9
50°-60°	260.3	15.3
60°-70°	186.5	10.9
70°-80°	101.3	5.9
80°-90°	26.4	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°	515.4	30.2
0°-40°	826.0	48.4
0°-60°	1391.8	81.6
0°-90°	1706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	681	679	679	679	681	65
15°	650	647	647	646	647	183
25°	588	586	583	581	581	271
35°	505	501	496	493	492	315
45°	404	401	394	391	391	312
55°	301	295	290	286	286	268
65°	196	192	186	184	184	194
75°	100	97	94	92	94	106
85°	22	22	22	21	20	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	682.7	682.7	682.7	682.7	682.7
2.5°	682.7	682.0	681.3	682.0	683.4
5°	680.7	679.3	679.3	679.3	680.7
7.5°	675.9	674.5	673.9	674.5	675.2
10°	669.1	667.7	667.1	667.7	668.4
12.5°	659.6	658.9	658.2	658.2	658.9
15°	650.1	647.3	646.7	646.0	646.7
17.5°	636.5	635.8	633.1	633.1	633.1
20°	621.5	620.1	618.1	616.7	616.7
22.5°	605.9	604.5	601.1	599.7	600.4
25°	588.2	585.5	582.7	581.4	580.7
27.5°	569.1	566.4	562.3	560.3	560.3
30°	548.7	546.7	541.9	539.2	538.5
32.5°	526.3	524.9	518.1	516.8	516.8
35°	505.2	501.1	495.7	493.0	492.3
37.5°	480.1	477.3	471.9	468.5	467.8
40°	454.9	451.5	446.1	443.3	442.7
42.5°	429.7	426.3	420.9	417.5	416.8
45°	403.9	401.2	394.4	391.0	391.0
47.5°	379.4	374.0	367.9	365.1	364.5
50°	352.9	348.1	341.3	338.6	338.6
52.5°	326.4	323.0	315.5	314.2	312.8
55°	300.6	295.1	289.7	286.3	285.6
57.5°	272.7	267.9	262.5	259.8	259.8
60°	248.9	242.8	238.0	234.6	234.6
62.5°	221.7	216.2	211.5	209.4	208.8
65°	195.8	191.8	186.3	184.3	184.3
67.5°	170.0	166.6	161.8	159.8	160.5
70°	144.8	142.8	139.4	136.7	136.0
72.5°	121.7	119.0	115.6	114.9	114.9
75°	100.0	96.6	93.8	92.5	94.5
77.5°	77.5	75.5	74.1	73.4	74.1
80°	57.8	55.1	54.4	55.1	55.1
82.5°	40.1	38.8	38.1	38.1	38.1
85°	22.4	22.4	21.8	21.1	20.4
87.5°	8.8	8.8	9.5	9.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)