

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: P601080

Luminaire Tested: 22D3X-LP-20-L830

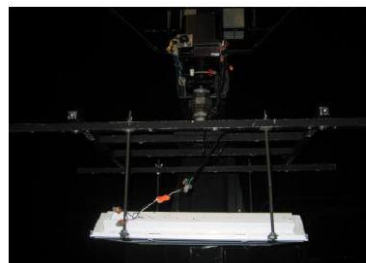
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601080  
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-L830  
Description: 2x2 D3X-LP AT 2000LM 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

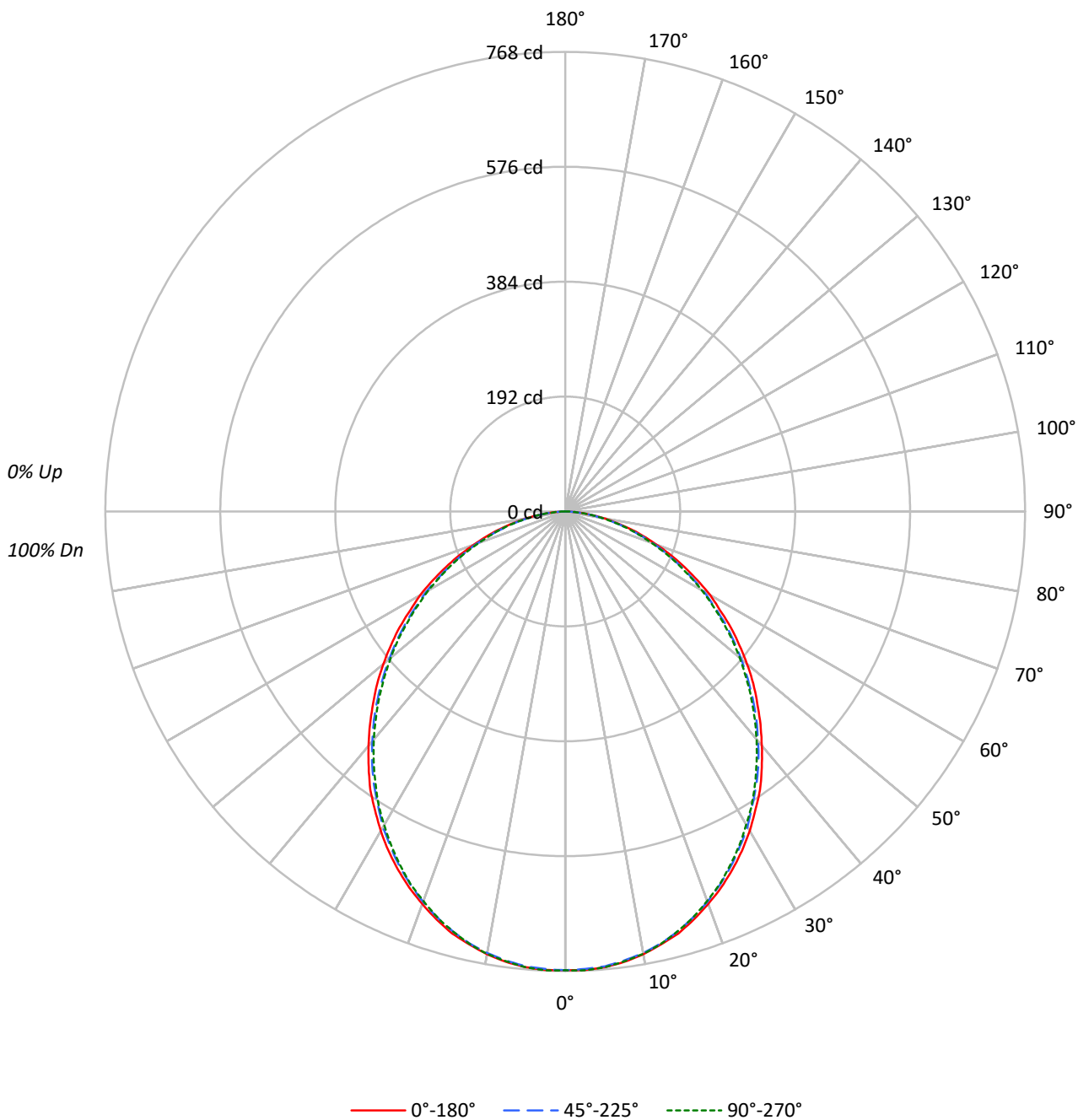
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1916.0 lumens  
Efficiency: N/A  
Efficacy: 119.0 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	
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°	2063	2063	2063
5°	2065	2061	2065
10°	2053	2047	2051
15°	2034	2023	2023
20°	1999	1988	1984
25°	1961	1943	1936
30°	1915	1891	1879
35°	1864	1829	1816
40°	1795	1760	1747
45°	1726	1686	1671
50°	1659	1605	1592
55°	1583	1526	1505
60°	1504	1439	1418
65°	1400	1332	1318
70°	1280	1232	1201
75°	1168	1096	1104
80°	1006	947	959
85°	778	753	707

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1726 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.4	3.8
10°-20°	204.8	10.7
20°-30°	301.6	15.7
30°-40°	348.9	18.2
40°-50°	343.0	17.9
50°-60°	292.3	15.3
60°-70°	209.5	10.9
70°-80°	113.8	5.9
80°-90°	29.7	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°	578.8	30.2
0°-40°	927.8	48.4
0°-60°	1563.1	81.6
0°-90°	1916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1916.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	764	763	763	763	764	73
15°	730	727	726	726	726	205
25°	661	658	654	653	652	304
35°	567	563	557	554	553	354
45°	454	451	443	439	439	350
55°	338	331	325	322	321	301
65°	220	215	209	207	207	218
75°	112	108	105	104	106	119
85°	25	25	24	24	23	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	766.7	766.7	766.7	766.7	766.7
2.5°	766.7	766.0	765.2	766.0	767.5
5°	764.4	762.9	762.9	762.9	764.4
7.5°	759.1	757.6	756.8	757.6	758.3
10°	751.5	749.9	749.2	749.9	750.7
12.5°	740.8	740.0	739.2	739.2	740.0
15°	730.1	727.0	726.3	725.5	726.3
17.5°	714.8	714.0	711.0	711.0	711.0
20°	698.0	696.5	694.2	692.7	692.7
22.5°	680.4	678.9	675.1	673.6	674.3
25°	660.6	657.5	654.5	652.9	652.2
27.5°	639.2	636.1	631.6	629.3	629.3
30°	616.3	614.0	608.7	605.6	604.8
32.5°	591.1	589.6	581.9	580.4	580.4
35°	567.4	562.8	556.7	553.7	552.9
37.5°	539.2	536.1	530.0	526.2	525.4
40°	510.9	507.1	501.0	497.9	497.2
42.5°	482.6	478.8	472.7	468.9	468.1
45°	453.6	450.6	442.9	439.1	439.1
47.5°	426.1	420.0	413.2	410.1	409.3
50°	396.4	391.0	383.4	380.3	380.3
52.5°	366.6	362.7	354.3	352.8	351.3
55°	337.5	331.4	325.3	321.5	320.7
57.5°	306.2	300.9	294.8	291.7	291.7
60°	279.5	272.6	267.3	263.5	263.5
62.5°	249.0	242.9	237.5	235.2	234.5
65°	219.9	215.4	209.2	207.0	207.0
67.5°	190.9	187.1	181.8	179.5	180.2
70°	162.7	160.4	156.6	153.5	152.7
72.5°	136.7	133.6	129.8	129.1	129.1
75°	112.3	108.4	105.4	103.9	106.2
77.5°	87.1	84.8	83.2	82.5	83.2
80°	64.9	61.9	61.1	61.9	61.9
82.5°	45.1	43.5	42.8	42.8	42.8
85°	25.2	25.2	24.4	23.7	22.9
87.5°	9.9	9.9	10.7	10.7	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)