

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: P601118

Luminaire Tested: 22D3X-LP-50-L840

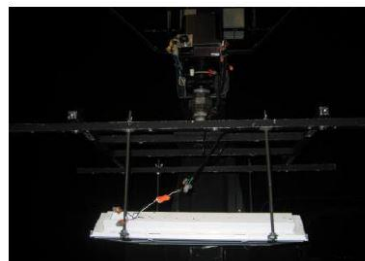
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601118  
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-50-L840  
Description: 2x2 D3X-LP AT 5000LM 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

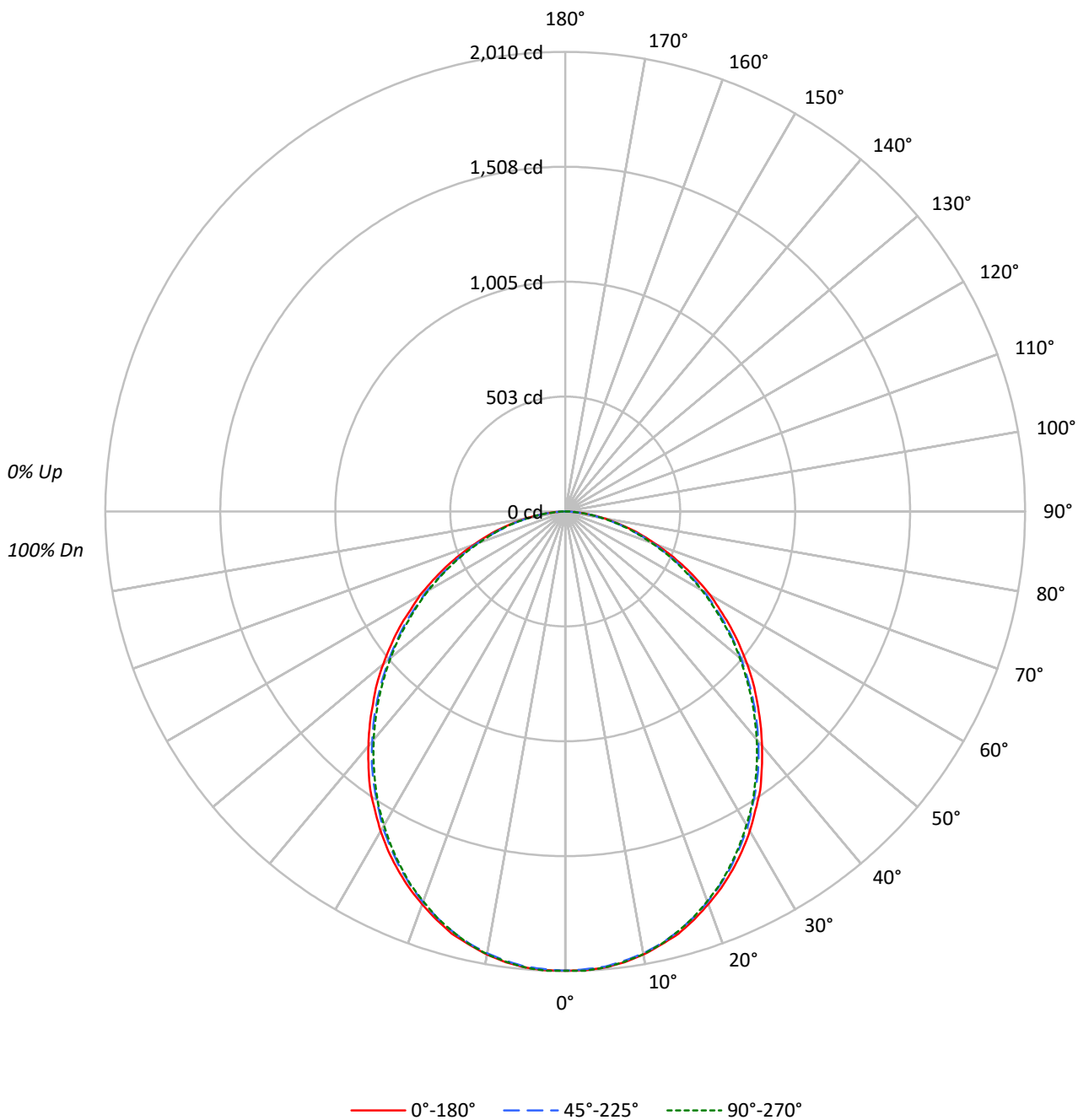
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5018.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 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): 41.9  
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	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°	5404	5404	5404
5°	5408	5397	5408
10°	5378	5361	5372
15°	5327	5299	5299
20°	5235	5206	5195
25°	5137	5089	5072
30°	5015	4953	4922
35°	4882	4790	4757
40°	4701	4609	4574
45°	4521	4415	4376
50°	4346	4203	4170
55°	4147	3997	3941
60°	3940	3767	3714
65°	3668	3489	3451
70°	3352	3226	3147
75°	3057	2870	2890
80°	2634	2479	2510
85°	2038	1976	1853

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4521 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.7	3.8
10°-20°	536.4	10.7
20°-30°	790.0	15.7
30°-40°	913.8	18.2
40°-50°	898.3	17.9
50°-60°	765.6	15.3
60°-70°	548.6	10.9
70°-80°	297.9	5.9
80°-90°	77.7	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°	1516.0	30.2
0°-40°	2429.8	48.4
0°-60°	4093.7	81.6
0°-90°	5018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5018.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	2002	1998	1998	1998	2002	190
15°	1912	1904	1902	1900	1902	538
25°	1730	1722	1714	1710	1708	796
35°	1486	1474	1458	1450	1448	927
45°	1188	1180	1160	1150	1150	918
55°	884	868	852	842	840	789
65°	576	564	548	542	542	571
75°	294	284	276	272	278	311
85°	66	66	64	62	60	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2008.1	2008.1	2008.1	2008.1	2008.1
2.5°	2008.1	2006.1	2004.1	2006.1	2010.1
5°	2002.1	1998.1	1998.1	1998.1	2002.1
7.5°	1988.1	1984.1	1982.1	1984.1	1986.1
10°	1968.1	1964.1	1962.1	1964.1	1966.1
12.5°	1940.1	1938.1	1936.1	1936.1	1938.1
15°	1912.1	1904.1	1902.1	1900.1	1902.1
17.5°	1872.1	1870.1	1862.1	1862.1	1862.1
20°	1828.1	1824.1	1818.1	1814.1	1814.1
22.5°	1782.1	1778.1	1768.1	1764.1	1766.1
25°	1730.1	1722.1	1714.1	1710.1	1708.1
27.5°	1674.1	1666.1	1654.1	1648.1	1648.1
30°	1614.1	1608.1	1594.1	1586.1	1584.1
32.5°	1548.1	1544.1	1524.1	1520.1	1520.1
35°	1486.1	1474.1	1458.1	1450.1	1448.1
37.5°	1412.1	1404.1	1388.1	1378.1	1376.1
40°	1338.1	1328.1	1312.1	1304.1	1302.1
42.5°	1264.0	1254.0	1238.0	1228.0	1226.0
45°	1188.0	1180.0	1160.0	1150.0	1150.0
47.5°	1116.0	1100.0	1082.0	1074.0	1072.0
50°	1038.0	1024.0	1004.0	996.0	996.0
52.5°	960.0	950.0	928.0	924.0	920.0
55°	884.0	868.0	852.0	842.0	840.0
57.5°	802.0	788.0	772.0	764.0	764.0
60°	732.0	714.0	700.0	690.0	690.0
62.5°	652.0	636.0	622.0	616.0	614.0
65°	576.0	564.0	548.0	542.0	542.0
67.5°	500.0	490.0	476.0	470.0	472.0
70°	426.0	420.0	410.0	402.0	400.0
72.5°	358.0	350.0	340.0	338.0	338.0
75°	294.0	284.0	276.0	272.0	278.0
77.5°	228.0	222.0	218.0	216.0	218.0
80°	170.0	162.0	160.0	162.0	162.0
82.5°	118.0	114.0	112.0	112.0	112.0
85°	66.0	66.0	64.0	62.0	60.0
87.5°	26.0	26.0	28.0	28.0	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)