

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: P601197

Luminaire Tested: 24D3X-LP-80-L930

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/6/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24D3X-LP-80-L930  
Description: 2x4 D3X-LP AT 8000LM 3000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

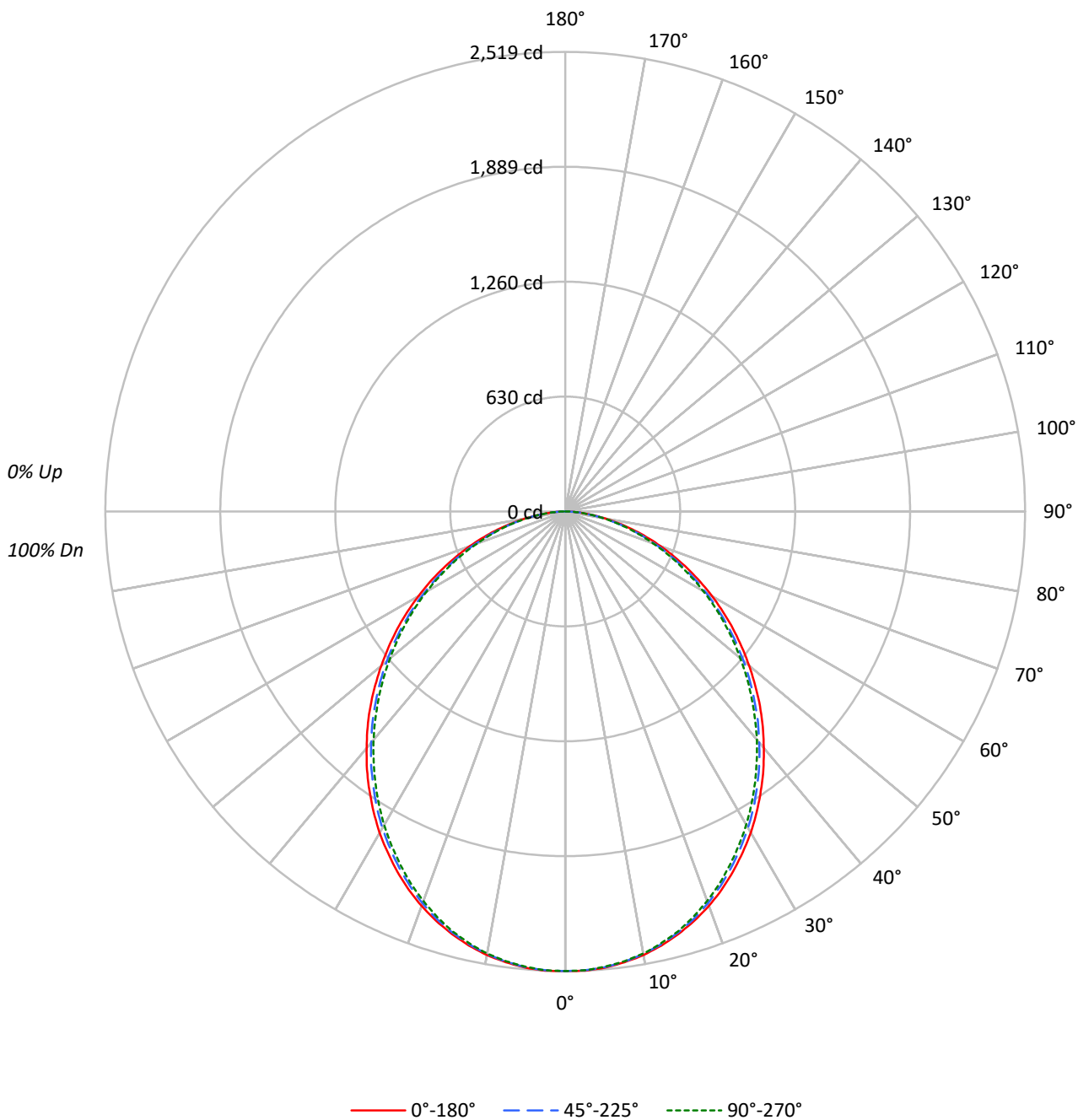
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6352.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.2  
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	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°	3390	3390	3390
5°	3390	3386	3383
10°	3373	3365	3362
15°	3340	3328	3320
20°	3295	3272	3254
25°	3232	3196	3172
30°	3160	3111	3082
35°	3070	3011	2978
40°	2973	2904	2868
45°	2871	2790	2749
50°	2754	2669	2622
55°	2633	2541	2493
60°	2497	2398	2353
65°	2351	2241	2195
70°	2186	2069	2018
75°	1984	1873	1842
80°	1719	1626	1636
85°	1417	1400	1308

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2871 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.9	3.7
10°-20°	673.4	10.6
20°-30°	992.4	15.6
30°-40°	1148.8	18.1
40°-50°	1134.2	17.9
50°-60°	971.5	15.3
60°-70°	702.4	11.1
70°-80°	387.2	6.1
80°-90°	104.3	1.6
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°	1903.7	30.0
0°-40°	3052.5	48.1
0°-60°	5158.2	81.2
0°-90°	6352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6352.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2519	2519	2519	2519	2519	
5°	2510	2508	2507	2505	2505	238
15°	2398	2395	2389	2386	2383	676
25°	2177	2171	2153	2142	2136	1002
35°	1869	1857	1833	1818	1813	1169
45°	1509	1489	1466	1452	1444	1163
55°	1122	1101	1083	1068	1063	1003
65°	738	722	704	693	689	732
75°	382	370	360	359	354	405
85°	92	92	91	85	85	108
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2519.2	2519.2	2519.2	2519.2	2519.2
2.5°	2519.2	2519.2	2516.8	2516.8	2516.8
5°	2509.7	2508.5	2507.3	2504.9	2504.9
7.5°	2491.8	2491.8	2488.2	2488.2	2485.8
10°	2469.1	2466.7	2463.1	2463.1	2460.8
12.5°	2436.9	2434.5	2429.7	2428.6	2425.0
15°	2397.5	2395.2	2389.2	2385.6	2383.2
17.5°	2352.2	2348.6	2341.5	2335.5	2330.7
20°	2300.9	2296.2	2285.4	2278.3	2272.3
22.5°	2242.5	2237.7	2222.2	2213.8	2207.9
25°	2176.9	2170.9	2153.0	2142.3	2136.3
27.5°	2106.5	2099.3	2079.1	2067.1	2061.2
30°	2033.7	2023.0	2002.7	1988.4	1983.6
32.5°	1952.6	1941.9	1921.6	1904.9	1900.1
35°	1869.1	1857.2	1833.3	1817.8	1813.1
37.5°	1783.2	1767.7	1746.3	1730.8	1723.6
40°	1692.6	1677.1	1653.2	1636.5	1633.0
42.5°	1601.9	1582.9	1562.6	1545.9	1538.7
45°	1508.9	1488.6	1466.0	1451.6	1444.5
47.5°	1411.1	1392.0	1371.7	1355.0	1349.1
50°	1315.7	1295.4	1275.1	1259.6	1252.4
52.5°	1217.9	1197.6	1178.5	1165.4	1158.2
55°	1122.4	1101.0	1083.1	1067.6	1062.8
57.5°	1025.8	1006.7	986.5	972.1	968.6
60°	928.0	911.3	891.0	877.9	874.3
62.5°	833.8	817.1	798.0	784.9	778.9
65°	738.3	721.6	703.8	693.0	689.4
67.5°	645.3	629.8	614.3	603.6	601.2
70°	555.8	540.3	526.0	516.5	512.9
72.5°	466.4	455.7	441.3	435.4	431.8
75°	381.7	369.8	360.2	359.0	354.3
77.5°	299.4	298.2	282.7	280.3	280.3
80°	221.9	218.3	209.9	207.5	211.1
82.5°	152.7	150.3	145.5	144.3	143.1
85°	91.8	91.8	90.7	84.7	84.7
87.5°	41.7	40.6	39.4	40.6	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)