

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: P601194

Luminaire Tested: 24D3X-LP-80-L830

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601194  
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-L830  
Description: 2x4 D3X-LP AT 8000LM 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

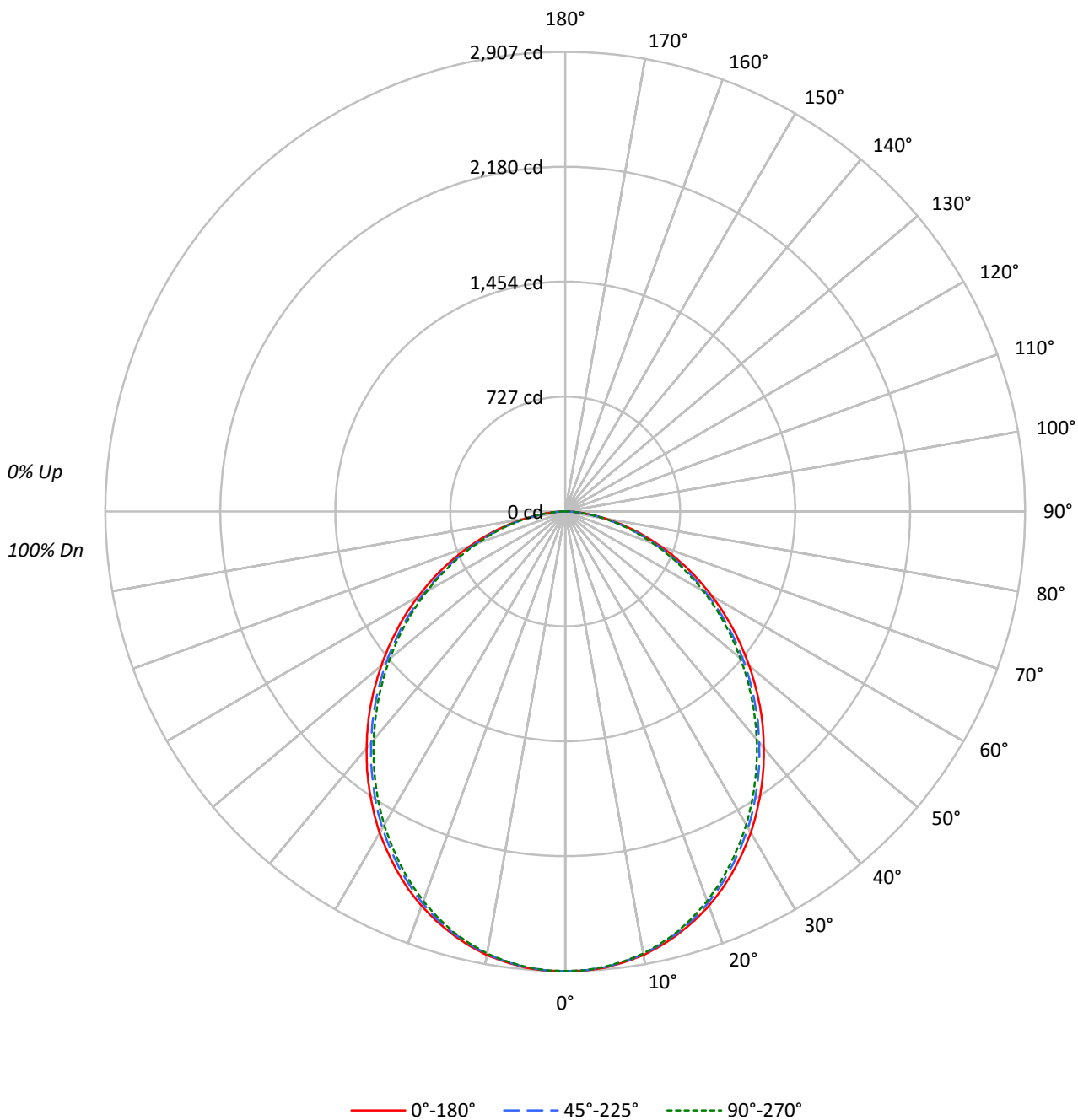
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7329.0 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: 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°	3911	3911	3911
5°	3911	3907	3904
10°	3892	3883	3879
15°	3853	3840	3830
20°	3801	3776	3754
25°	3729	3688	3659
30°	3646	3590	3556
35°	3542	3474	3436
40°	3430	3350	3309
45°	3313	3218	3171
50°	3177	3080	3025
55°	3038	2932	2877
60°	2881	2767	2715
65°	2712	2585	2533
70°	2523	2388	2328
75°	2289	2161	2125
80°	1984	1877	1888
85°	1636	1615	1508

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3313 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.5	3.7
10°-20°	777.0	10.6
20°-30°	1145.0	15.6
30°-40°	1325.5	18.1
40°-50°	1308.6	17.9
50°-60°	1120.9	15.3
60°-70°	810.4	11.1
70°-80°	446.7	6.1
80°-90°	120.3	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°	2196.5	30.0
0°-40°	3522.0	48.1
0°-60°	5951.6	81.2
0°-90°	7329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7329.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2907	2907	2907	2907	2907	
5°	2896	2894	2893	2890	2890	275
15°	2766	2764	2757	2752	2750	780
25°	2512	2505	2484	2472	2465	1156
35°	2157	2143	2115	2097	2092	1348
45°	1741	1718	1691	1675	1667	1342
55°	1295	1270	1250	1232	1226	1158
65°	852	833	812	800	796	845
75°	440	427	416	414	409	467
85°	106	106	105	98	98	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2906.7	2906.7	2906.7	2906.7	2906.7
2.5°	2906.7	2906.7	2903.9	2903.9	2903.9
5°	2895.7	2894.3	2892.9	2890.2	2890.2
7.5°	2875.0	2875.0	2870.9	2870.9	2868.1
10°	2848.9	2846.1	2842.0	2842.0	2839.2
12.5°	2811.7	2809.0	2803.5	2802.1	2798.0
15°	2766.3	2763.6	2756.7	2752.5	2749.8
17.5°	2714.0	2709.9	2701.6	2694.7	2689.2
20°	2654.8	2649.3	2636.9	2628.7	2621.8
22.5°	2587.4	2581.9	2564.0	2554.4	2547.5
25°	2511.7	2504.8	2484.2	2471.8	2464.9
27.5°	2430.5	2422.2	2398.8	2385.1	2378.2
30°	2346.5	2334.2	2310.8	2294.2	2288.7
32.5°	2253.0	2240.6	2217.2	2197.9	2192.4
35°	2156.6	2142.9	2115.3	2097.4	2091.9
37.5°	2057.5	2039.6	2014.9	1997.0	1988.7
40°	1952.9	1935.0	1907.5	1888.2	1884.1
42.5°	1848.3	1826.3	1802.9	1783.6	1775.4
45°	1741.0	1717.6	1691.4	1674.9	1666.7
47.5°	1628.1	1606.1	1582.7	1563.4	1556.6
50°	1518.0	1494.6	1471.2	1453.3	1445.1
52.5°	1405.2	1381.8	1359.8	1344.6	1336.4
55°	1295.1	1270.3	1249.7	1231.8	1226.3
57.5°	1183.6	1161.6	1138.2	1121.7	1117.5
60°	1070.7	1051.5	1028.1	1012.9	1008.8
62.5°	962.0	942.7	920.7	905.6	898.7
65°	851.9	832.6	812.0	799.6	795.5
67.5°	744.6	726.7	708.8	696.4	693.6
70°	641.3	623.5	606.9	595.9	591.8
72.5°	538.1	525.7	509.2	502.3	498.2
75°	440.4	426.6	415.6	414.3	408.8
77.5°	345.4	344.1	326.2	323.4	323.4
80°	256.0	251.9	242.2	239.5	243.6
82.5°	176.2	173.4	167.9	166.5	165.2
85°	106.0	106.0	104.6	97.7	97.7
87.5°	48.2	46.8	45.4	46.8	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)