

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: P601196

Luminaire Tested: 24D3X-LP-80-L840

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601196  
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-L840  
Description: 2x4 D3X-LP AT 8000LM 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

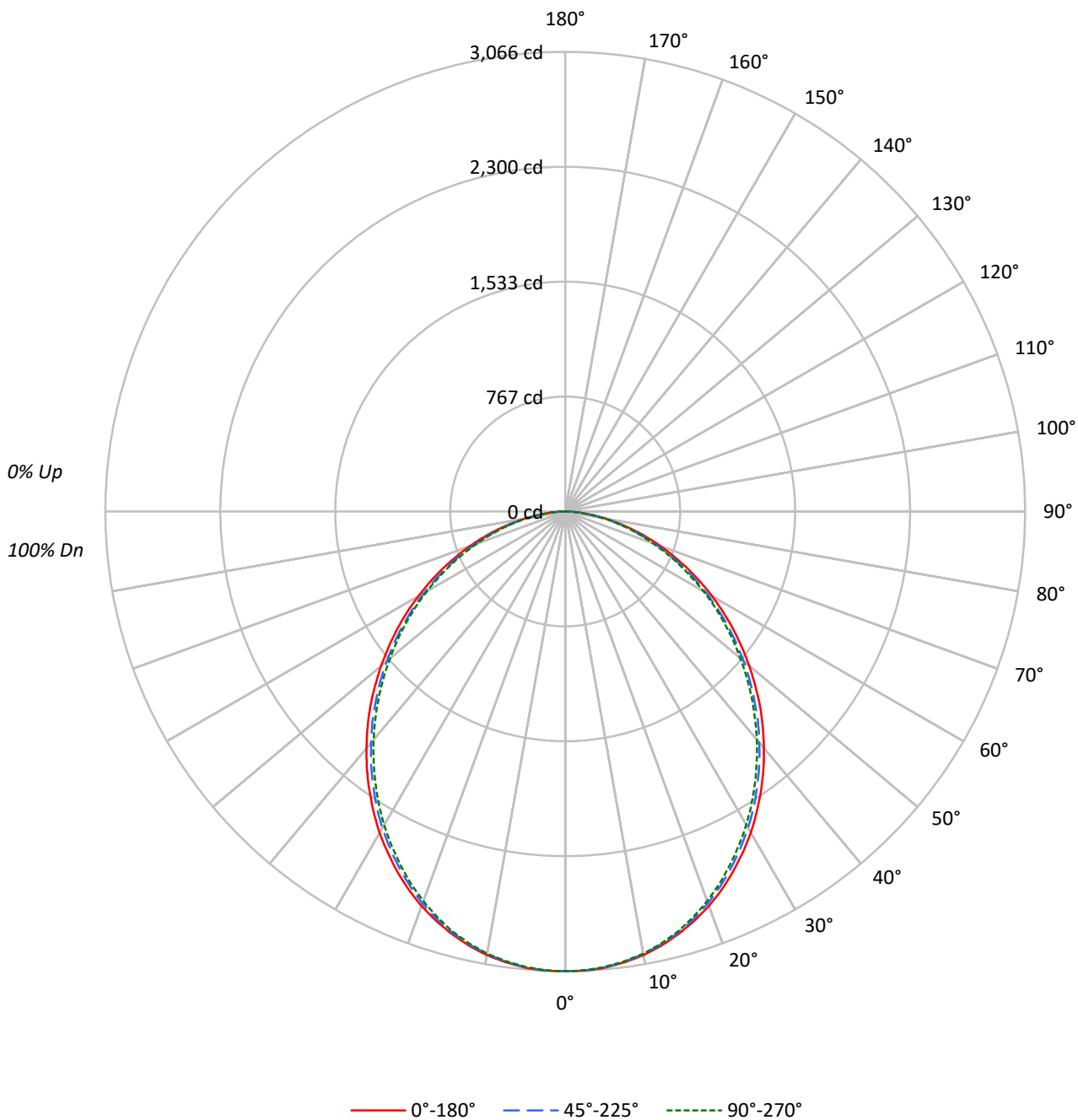
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7732.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 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	31	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°	4126	4126	4126
5°	4126	4122	4118
10°	4106	4096	4092
15°	4065	4051	4041
20°	4010	3983	3960
25°	3934	3891	3861
30°	3846	3787	3751
35°	3737	3665	3625
40°	3619	3535	3491
45°	3495	3395	3346
50°	3352	3249	3191
55°	3205	3093	3035
60°	3040	2919	2864
65°	2862	2727	2672
70°	2662	2519	2456
75°	2415	2280	2242
80°	2093	1980	1991
85°	1726	1703	1592

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3495 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.6	3.7
10°-20°	819.7	10.6
20°-30°	1208.0	15.6
30°-40°	1398.4	18.1
40°-50°	1380.6	17.9
50°-60°	1182.5	15.3
60°-70°	855.0	11.1
70°-80°	471.3	6.1
80°-90°	126.9	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°	2317.3	30.0
0°-40°	3715.7	48.1
0°-60°	6278.8	81.2
0°-90°	7732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7732.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3066	3066	3066	3066	3066	
5°	3055	3053	3052	3049	3049	290
15°	2918	2916	2908	2904	2901	823
25°	2650	2642	2621	2608	2600	1220
35°	2275	2261	2232	2213	2207	1423
45°	1837	1812	1784	1767	1758	1415
55°	1366	1340	1318	1300	1294	1221
65°	899	878	857	844	839	891
75°	465	450	438	437	431	493
85°	112	112	110	103	103	132
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3066.5	3066.5	3066.5	3066.5	3066.5
2.5°	3066.5	3066.5	3063.6	3063.6	3063.6
5°	3054.9	3053.4	3052.0	3049.1	3049.1
7.5°	3033.1	3033.1	3028.8	3028.8	3025.9
10°	3005.5	3002.6	2998.3	2998.3	2995.4
12.5°	2966.3	2963.4	2957.6	2956.2	2951.8
15°	2918.4	2915.5	2908.3	2903.9	2901.0
17.5°	2863.2	2858.9	2850.2	2842.9	2837.1
20°	2800.8	2795.0	2781.9	2773.2	2766.0
22.5°	2729.7	2723.9	2705.0	2694.8	2687.6
25°	2649.8	2642.5	2620.8	2607.7	2600.4
27.5°	2564.1	2555.4	2530.7	2516.2	2509.0
30°	2475.6	2462.5	2437.8	2420.4	2414.6
32.5°	2376.8	2363.8	2339.1	2318.8	2313.0
35°	2275.2	2260.7	2231.6	2212.8	2207.0
37.5°	2170.7	2151.8	2125.7	2106.8	2098.1
40°	2060.3	2041.4	2012.4	1992.1	1987.7
42.5°	1950.0	1926.7	1902.1	1881.7	1873.0
45°	1836.7	1812.0	1784.4	1767.0	1758.3
47.5°	1717.7	1694.4	1669.7	1649.4	1642.2
50°	1601.5	1576.8	1552.1	1533.3	1524.5
52.5°	1482.4	1457.8	1434.5	1418.6	1409.8
55°	1366.3	1340.1	1318.4	1299.5	1293.7
57.5°	1248.7	1225.4	1200.8	1183.3	1179.0
60°	1129.6	1109.3	1084.6	1068.6	1064.3
62.5°	1014.9	994.6	971.4	955.4	948.1
65°	898.8	878.4	856.6	843.6	839.2
67.5°	785.5	766.6	747.8	734.7	731.8
70°	676.6	657.7	640.3	628.7	624.3
72.5°	567.7	554.6	537.2	530.0	525.6
75°	464.6	450.1	438.5	437.0	431.2
77.5°	364.4	363.0	344.1	341.2	341.2
80°	270.1	265.7	255.5	252.6	257.0
82.5°	185.8	182.9	177.1	175.7	174.2
85°	111.8	111.8	110.3	103.1	103.1
87.5°	50.8	49.4	47.9	49.4	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)