

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: P601191

Luminaire Tested: 24D3X-LP-70-L930

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601191  
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-70-L930  
Description: 2x4 D3X-LP AT 7000LM 3000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

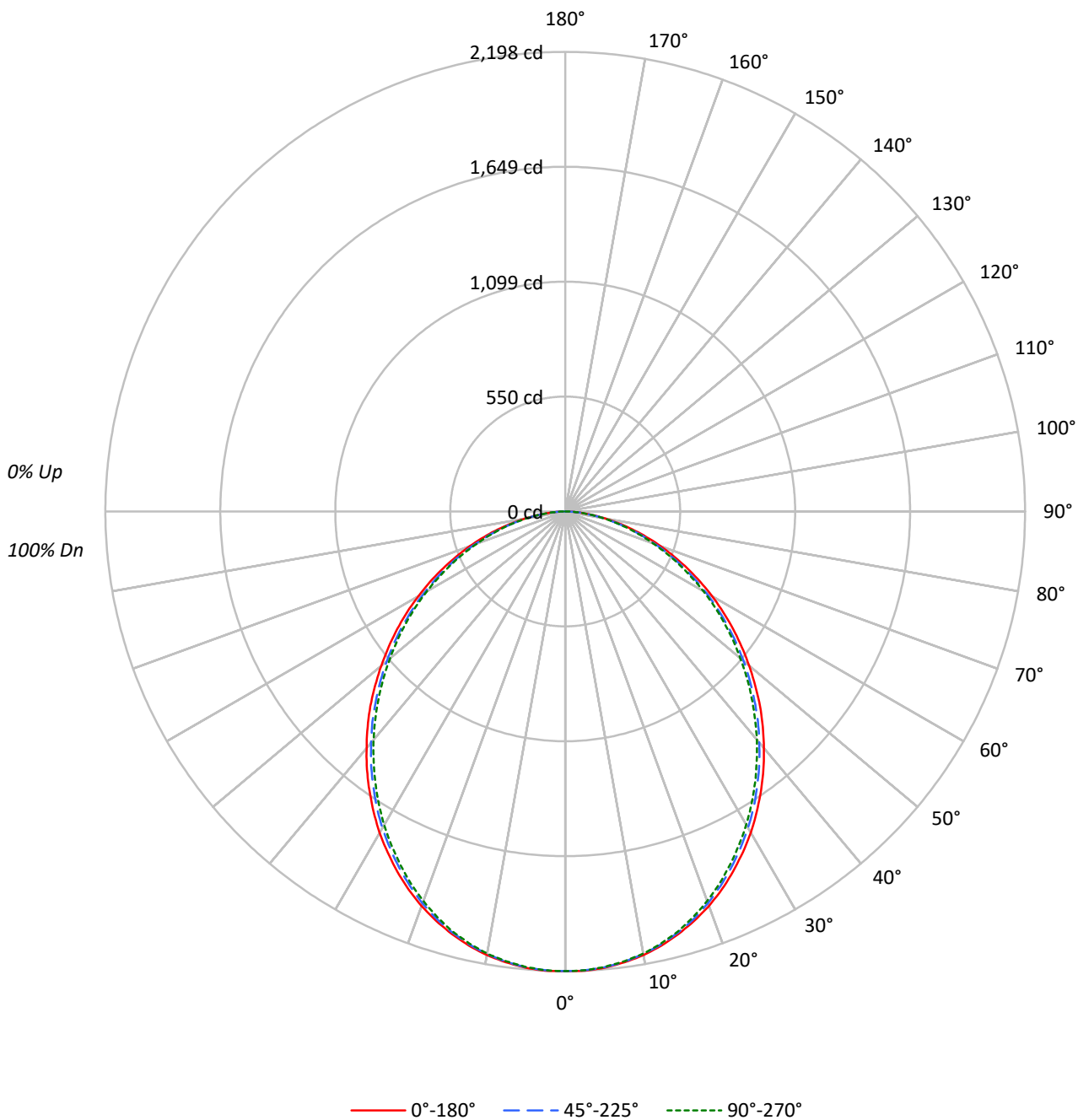
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5543.0 lumens  
Efficiency: N/A  
Efficacy: 107.6 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): 51.5  
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	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°	2958	2958	2958
5°	2958	2955	2952
10°	2944	2937	2934
15°	2914	2904	2897
20°	2875	2856	2839
25°	2820	2789	2768
30°	2757	2715	2689
35°	2679	2628	2599
40°	2594	2534	2503
45°	2505	2434	2398
50°	2403	2329	2288
55°	2298	2217	2175
60°	2179	2092	2053
65°	2051	1955	1915
70°	1908	1806	1761
75°	1732	1634	1607
80°	1500	1420	1427
85°	1237	1221	1141

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2505 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.6	3.7
10°-20°	587.6	10.6
20°-30°	866.0	15.6
30°-40°	1002.5	18.1
40°-50°	989.7	17.9
50°-60°	847.7	15.3
60°-70°	612.9	11.1
70°-80°	337.9	6.1
80°-90°	91.0	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°	1661.2	30.0
0°-40°	2663.8	48.1
0°-60°	4501.2	81.2
0°-90°	5543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2190	2189	2188	2186	2186	208
15°	2092	2090	2085	2082	2080	590
25°	1900	1894	1879	1869	1864	875
35°	1631	1621	1600	1586	1582	1020
45°	1317	1299	1279	1267	1260	1015
55°	980	961	945	932	927	876
65°	644	630	614	605	602	639
75°	333	323	314	313	309	353
85°	80	80	79	74	74	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2198.4	2198.4	2198.4	2198.4	2198.4
2.5°	2198.4	2198.4	2196.3	2196.3	2196.3
5°	2190.0	2189.0	2187.9	2185.9	2185.9
7.5°	2174.4	2174.4	2171.3	2171.3	2169.2
10°	2154.6	2152.6	2149.4	2149.4	2147.4
12.5°	2126.5	2124.5	2120.3	2119.2	2116.1
15°	2092.2	2090.1	2084.9	2081.8	2079.7
17.5°	2052.6	2049.5	2043.3	2038.1	2033.9
20°	2007.9	2003.7	1994.3	1988.1	1982.9
22.5°	1956.9	1952.7	1939.2	1931.9	1926.7
25°	1899.6	1894.4	1878.8	1869.4	1864.2
27.5°	1838.2	1832.0	1814.3	1803.9	1798.7
30°	1774.7	1765.3	1747.7	1735.2	1731.0
32.5°	1703.9	1694.6	1676.9	1662.3	1658.1
35°	1631.1	1620.7	1599.8	1586.3	1582.2
37.5°	1556.1	1542.6	1523.9	1510.3	1504.1
40°	1477.0	1463.5	1442.7	1428.1	1425.0
42.5°	1397.9	1381.3	1363.6	1349.0	1342.7
45°	1316.7	1299.0	1279.3	1266.8	1260.5
47.5°	1231.4	1214.7	1197.0	1182.4	1177.2
50°	1148.1	1130.4	1112.7	1099.2	1092.9
52.5°	1062.7	1045.1	1028.4	1016.9	1010.7
55°	979.5	960.7	945.1	931.6	927.4
57.5°	895.2	878.5	860.8	848.3	845.2
60°	809.8	795.2	777.5	766.1	763.0
62.5°	727.6	713.0	696.4	684.9	679.7
65°	644.3	629.7	614.1	604.8	601.6
67.5°	563.1	549.6	536.1	526.7	524.6
70°	485.1	471.5	459.0	450.7	447.6
72.5°	407.0	397.6	385.1	379.9	376.8
75°	333.1	322.7	314.3	313.3	309.1
77.5°	261.3	260.2	246.7	244.6	244.6
80°	193.6	190.5	183.2	181.1	184.2
82.5°	133.2	131.2	127.0	125.9	124.9
85°	80.1	80.1	79.1	73.9	73.9
87.5°	36.4	35.4	34.3	35.4	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)