

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: P601184

Luminaire Tested: 24D3X-LP-60-L840

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601184  
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-60-L840  
Description: 2x4 D3X-LP AT 6000LM 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

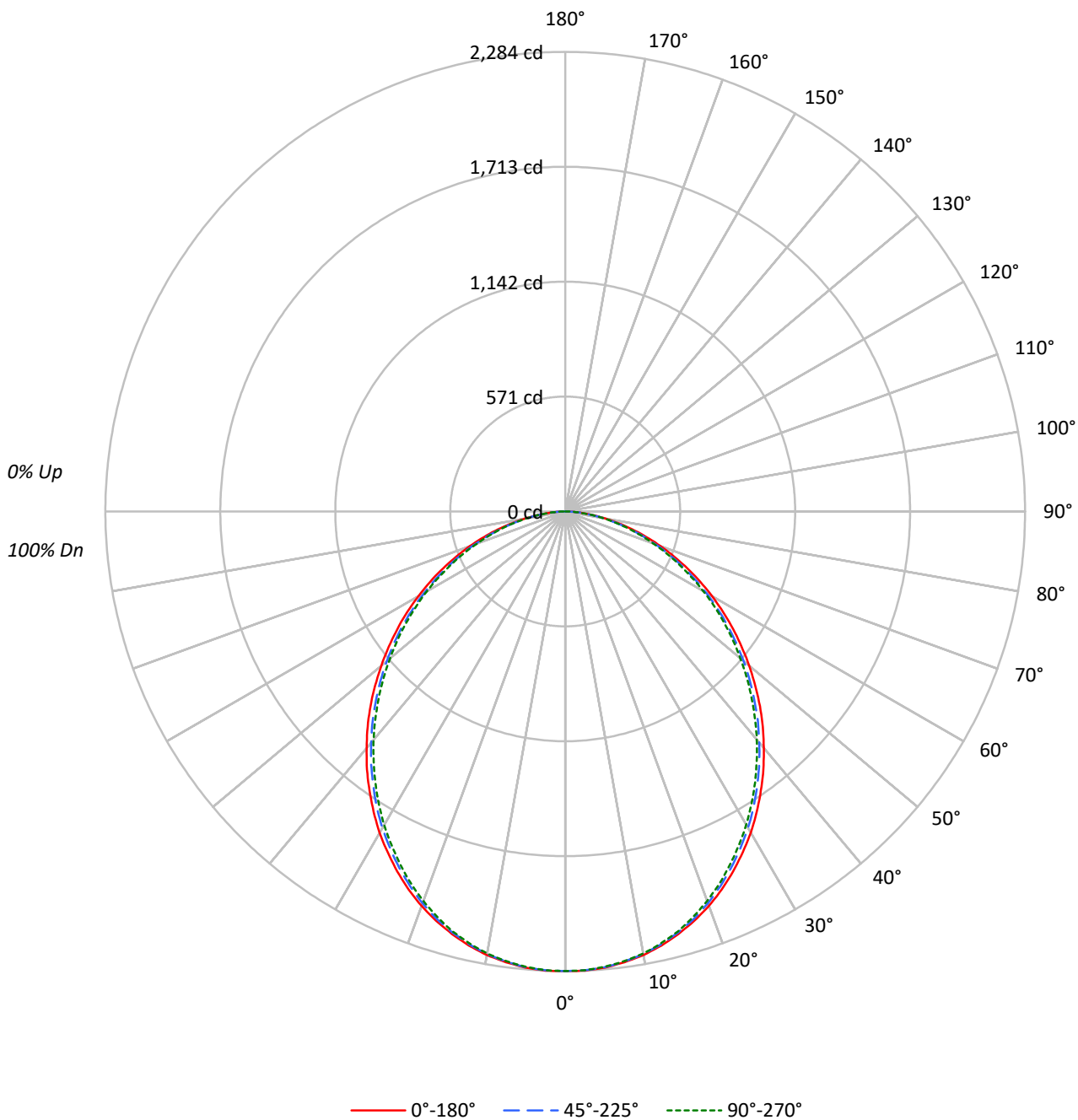
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5759.0 lumens  
Efficiency: N/A  
Efficacy: 128.3 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): 44.9  
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	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°	3073	3073	3073
5°	3073	3070	3067
10°	3058	3051	3048
15°	3028	3017	3010
20°	2987	2967	2950
25°	2930	2898	2875
30°	2865	2821	2794
35°	2783	2730	2700
40°	2695	2633	2600
45°	2603	2529	2492
50°	2497	2420	2377
55°	2387	2304	2260
60°	2264	2174	2133
65°	2131	2032	1990
70°	1983	1876	1829
75°	1799	1698	1670
80°	1558	1475	1483
85°	1286	1269	1186

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2603 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.7	3.7
10°-20°	610.5	10.6
20°-30°	899.7	15.6
30°-40°	1041.6	18.1
40°-50°	1028.3	17.9
50°-60°	880.8	15.3
60°-70°	636.8	11.1
70°-80°	351.0	6.1
80°-90°	94.5	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°	1726.0	30.0
0°-40°	2767.5	48.1
0°-60°	4676.6	81.2
0°-90°	5759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2284	2284	2284	2284	2284	
5°	2275	2274	2273	2271	2271	216
15°	2174	2172	2166	2163	2161	613
25°	1974	1968	1952	1942	1937	909
35°	1695	1684	1662	1648	1644	1060
45°	1368	1350	1329	1316	1310	1054
55°	1018	998	982	968	964	910
65°	669	654	638	628	625	664
75°	346	335	327	326	321	367
85°	83	83	82	77	77	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2284.0	2284.0	2284.0	2284.0	2284.0
2.5°	2284.0	2284.0	2281.9	2281.9	2281.9
5°	2275.4	2274.3	2273.2	2271.0	2271.0
7.5°	2259.1	2259.1	2255.9	2255.9	2253.7
10°	2238.6	2236.4	2233.2	2233.2	2231.0
12.5°	2209.4	2207.2	2202.9	2201.8	2198.6
15°	2173.7	2171.6	2166.1	2162.9	2160.7
17.5°	2132.6	2129.4	2122.9	2117.5	2113.2
20°	2086.1	2081.8	2072.1	2065.6	2060.2
22.5°	2033.1	2028.8	2014.7	2007.2	2001.8
25°	1973.6	1968.2	1952.0	1942.3	1936.9
27.5°	1909.8	1903.4	1885.0	1874.2	1868.7
30°	1843.9	1834.1	1815.8	1802.8	1798.5
32.5°	1770.3	1760.6	1742.2	1727.1	1722.7
35°	1694.6	1683.8	1662.2	1648.1	1643.8
37.5°	1616.8	1602.7	1583.2	1569.2	1562.7
40°	1534.6	1520.5	1498.9	1483.7	1480.5
42.5°	1452.4	1435.1	1416.7	1401.6	1395.1
45°	1368.0	1349.6	1329.1	1316.1	1309.6
47.5°	1279.4	1262.1	1243.7	1228.5	1223.1
50°	1192.8	1174.5	1156.1	1142.0	1135.5
52.5°	1104.2	1085.8	1068.5	1056.6	1050.1
55°	1017.6	998.2	982.0	967.9	963.6
57.5°	930.0	912.7	894.4	881.4	878.1
60°	841.4	826.2	807.8	795.9	792.7
62.5°	755.9	740.8	723.5	711.6	706.2
65°	669.4	654.3	638.1	628.3	625.1
67.5°	585.1	571.0	556.9	547.2	545.1
70°	504.0	489.9	476.9	468.3	465.0
72.5°	422.8	413.1	400.1	394.7	391.5
75°	346.1	335.2	326.6	325.5	321.2
77.5°	271.4	270.4	256.3	254.1	254.1
80°	201.1	197.9	190.3	188.2	191.4
82.5°	138.4	136.3	131.9	130.9	129.8
85°	83.3	83.3	82.2	76.8	76.8
87.5°	37.9	36.8	35.7	36.8	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)