

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: P601179

Luminaire Tested: 24D3X-LP-55-L930

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601179  
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-55-L930  
Description: 2x4 D3X-LP AT 5500LM 3000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

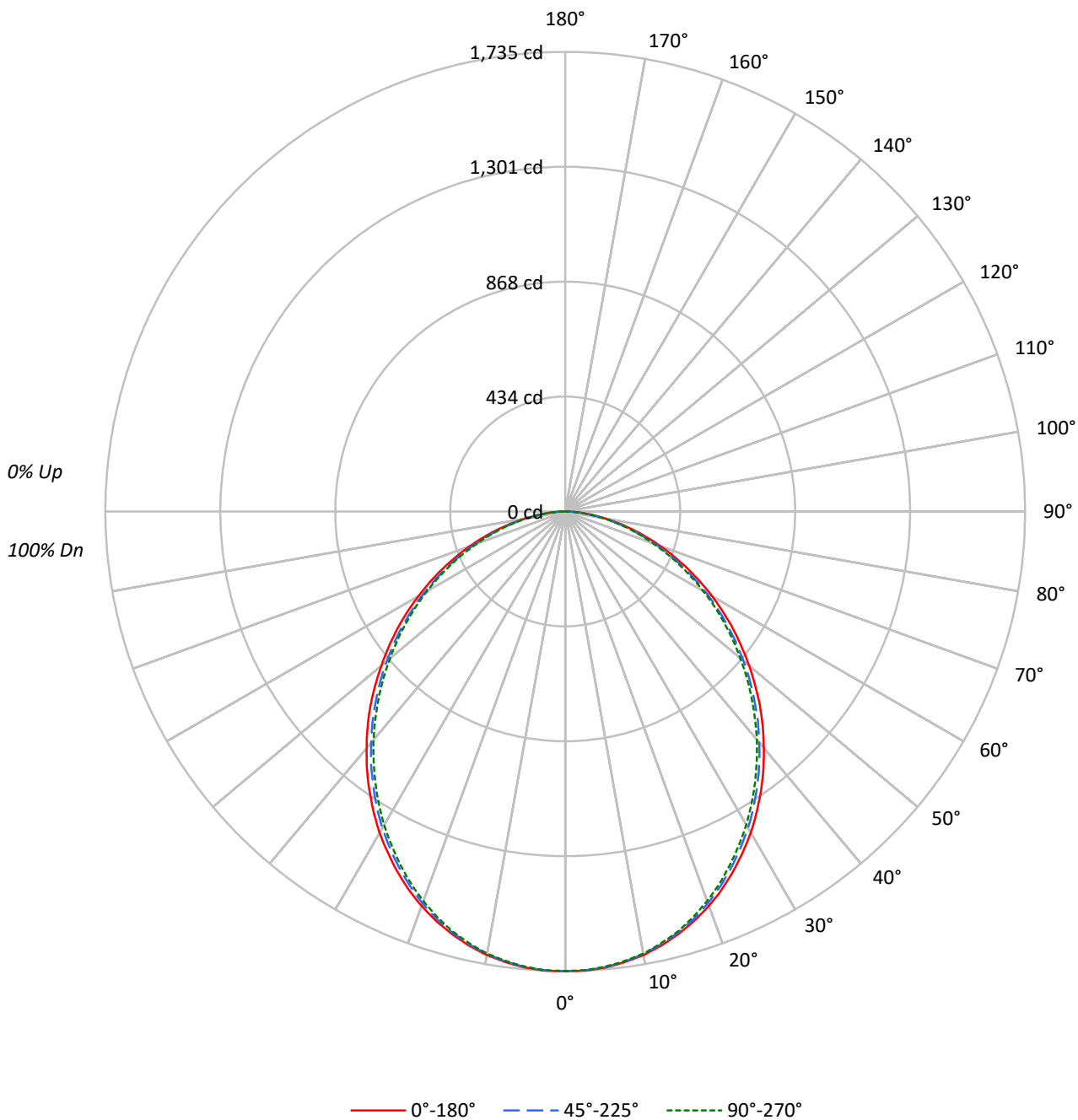
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4375.0 lumens  
Efficiency: N/A  
Efficacy: 106.2 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): 41.2  
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°	2335	2335	2335
5°	2335	2332	2330
10°	2323	2318	2316
15°	2300	2292	2287
20°	2269	2254	2241
25°	2226	2201	2184
30°	2176	2143	2123
35°	2115	2074	2051
40°	2048	2000	1975
45°	1978	1921	1893
50°	1897	1838	1806
55°	1814	1750	1717
60°	1720	1651	1621
65°	1619	1543	1512
70°	1506	1425	1390
75°	1367	1290	1268
80°	1184	1120	1127
85°	977	963	900

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1978 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.9	3.7
10°-20°	463.8	10.6
20°-30°	683.5	15.6
30°-40°	791.3	18.1
40°-50°	781.2	17.9
50°-60°	669.1	15.3
60°-70°	483.8	11.1
70°-80°	266.7	6.1
80°-90°	71.8	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°	1311.2	30.0
0°-40°	2102.5	48.1
0°-60°	3552.8	81.2
0°-90°	4375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4375.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1729	1728	1727	1725	1725	164
15°	1651	1650	1646	1643	1642	466
25°	1499	1495	1483	1476	1471	690
35°	1287	1279	1263	1252	1249	805
45°	1039	1025	1010	1000	995	801
55°	773	758	746	735	732	691
65°	508	497	485	477	475	504
75°	263	255	248	247	244	279
85°	63	63	62	58	58	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1735.1	1735.1	1735.1	1735.1	1735.1
2.5°	1735.1	1735.1	1733.5	1733.5	1733.5
5°	1728.6	1727.7	1726.9	1725.3	1725.3
7.5°	1716.2	1716.2	1713.8	1713.8	1712.1
10°	1700.6	1699.0	1696.5	1696.5	1694.9
12.5°	1678.4	1676.8	1673.5	1672.7	1670.2
15°	1651.3	1649.7	1645.6	1643.1	1641.5
17.5°	1620.1	1617.6	1612.7	1608.6	1605.3
20°	1584.8	1581.5	1574.1	1569.2	1565.1
22.5°	1544.5	1541.2	1530.6	1524.8	1520.7
25°	1499.3	1495.2	1482.9	1475.5	1471.4
27.5°	1450.9	1445.9	1432.0	1423.8	1419.6
30°	1400.8	1393.4	1379.4	1369.5	1366.2
32.5°	1344.9	1337.5	1323.5	1312.0	1308.7
35°	1287.4	1279.2	1262.7	1252.1	1248.8
37.5°	1228.2	1217.5	1202.8	1192.1	1187.1
40°	1165.8	1155.1	1138.7	1127.2	1124.7
42.5°	1103.4	1090.2	1076.2	1064.7	1059.8
45°	1039.3	1025.3	1009.7	999.8	994.9
47.5°	971.9	958.8	944.8	933.3	929.2
50°	906.2	892.2	878.2	867.6	862.6
52.5°	838.8	824.8	811.7	802.7	797.7
55°	773.1	758.3	746.0	735.3	732.0
57.5°	706.5	693.4	679.4	669.6	667.1
60°	639.2	627.7	613.7	604.7	602.2
62.5°	574.3	562.8	549.6	540.6	536.5
65°	508.5	497.0	484.7	477.3	474.9
67.5°	444.5	433.8	423.1	415.7	414.1
70°	382.8	372.2	362.3	355.7	353.3
72.5°	321.2	313.8	304.0	299.9	297.4
75°	262.9	254.7	248.1	247.3	244.0
77.5°	206.2	205.4	194.7	193.1	193.1
80°	152.8	150.3	144.6	143.0	145.4
82.5°	105.2	103.5	100.2	99.4	98.6
85°	63.3	63.3	62.4	58.3	58.3
87.5°	28.8	27.9	27.1	27.9	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)