

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: P601164

Luminaire Tested: 24D3X-LP-45-L830

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601164  
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-45-L830  
Description: 2x4 D3X-LP AT 4500LM 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

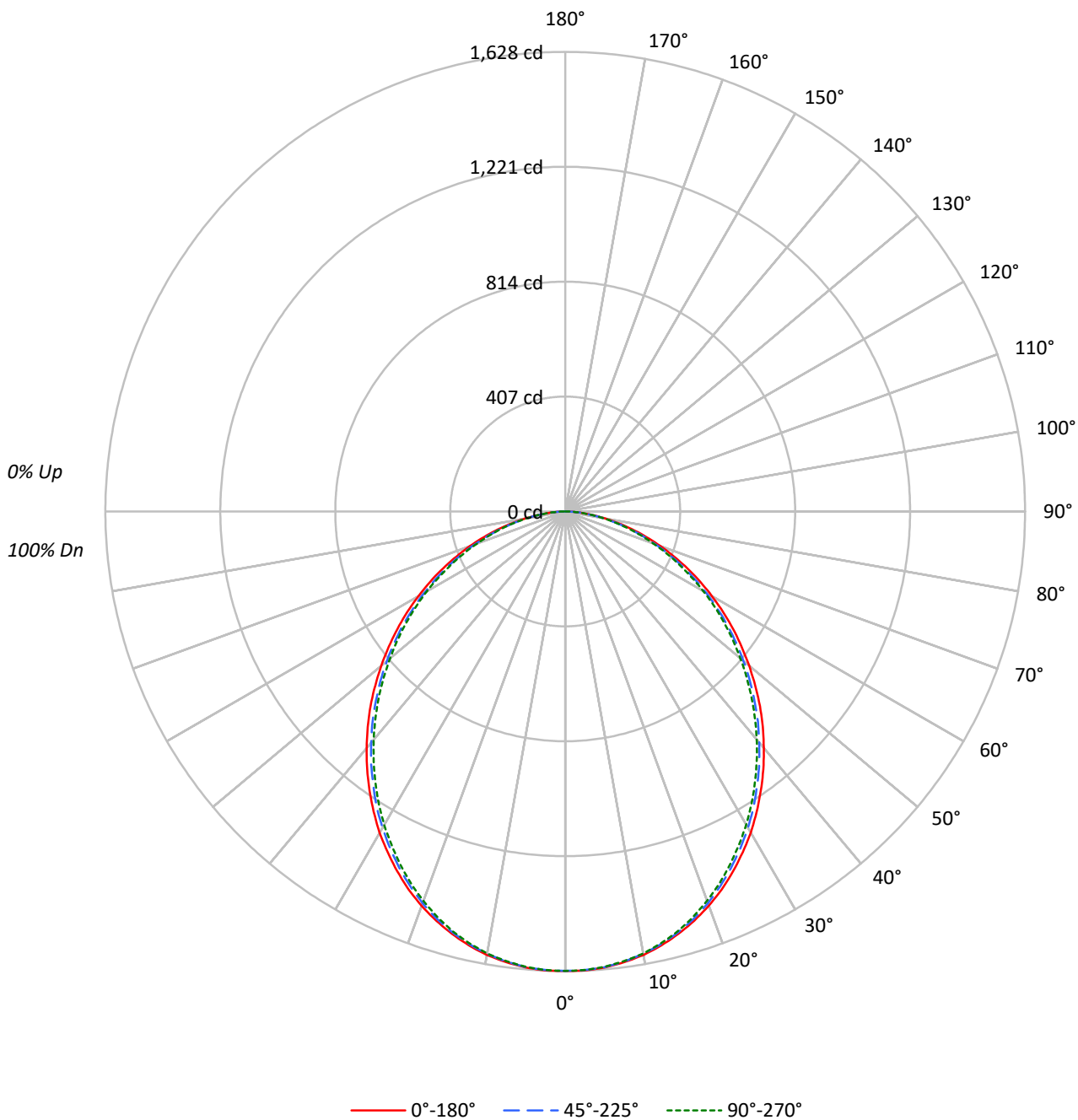
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4104.0 lumens  
Efficiency: N/A  
Efficacy: 124.4 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): 33  
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°	2190	2190	2190
5°	2190	2188	2186
10°	2180	2174	2172
15°	2158	2150	2145
20°	2129	2114	2102
25°	2088	2065	2049
30°	2041	2010	1991
35°	1984	1946	1924
40°	1921	1876	1853
45°	1855	1802	1776
50°	1779	1724	1694
55°	1701	1642	1611
60°	1614	1549	1520
65°	1519	1448	1418
70°	1413	1337	1304
75°	1282	1210	1190
80°	1110	1051	1057
85°	915	905	844

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1855 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.7	3.7
10°-20°	435.1	10.6
20°-30°	641.2	15.6
30°-40°	742.2	18.1
40°-50°	732.8	17.9
50°-60°	627.7	15.3
60°-70°	453.8	11.1
70°-80°	250.1	6.1
80°-90°	67.4	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°	1230.0	30.0
0°-40°	1972.2	48.1
0°-60°	3332.7	81.2
0°-90°	4104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4104.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1622	1621	1620	1618	1618	154
15°	1549	1548	1544	1541	1540	437
25°	1406	1403	1391	1384	1380	648
35°	1208	1200	1184	1174	1171	755
45°	975	962	947	938	933	751
55°	725	711	700	690	687	648
65°	477	466	455	448	445	473
75°	247	239	233	232	229	262
85°	59	59	59	55	55	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1627.6	1627.6	1627.6	1627.6	1627.6
2.5°	1627.6	1627.6	1626.1	1626.1	1626.1
5°	1621.5	1620.7	1619.9	1618.4	1618.4
7.5°	1609.9	1609.9	1607.6	1607.6	1606.1
10°	1595.3	1593.7	1591.4	1591.4	1589.9
12.5°	1574.5	1572.9	1569.8	1569.1	1566.8
15°	1549.0	1547.5	1543.6	1541.3	1539.8
17.5°	1519.8	1517.4	1512.8	1509.0	1505.9
20°	1486.6	1483.5	1476.6	1472.0	1468.1
22.5°	1448.9	1445.8	1435.8	1430.4	1426.5
25°	1406.5	1402.6	1391.1	1384.1	1380.3
27.5°	1361.0	1356.4	1343.3	1335.6	1331.7
30°	1314.0	1307.1	1293.9	1284.7	1281.6
32.5°	1261.6	1254.6	1241.5	1230.8	1227.7
35°	1207.6	1199.9	1184.5	1174.5	1171.4
37.5°	1152.1	1142.1	1128.3	1118.2	1113.6
40°	1093.6	1083.6	1068.1	1057.4	1055.0
42.5°	1035.0	1022.7	1009.6	998.8	994.2
45°	974.9	961.8	947.1	937.9	933.3
47.5°	911.7	899.4	886.3	875.5	871.6
50°	850.0	836.9	823.8	813.8	809.2
52.5°	786.9	773.7	761.4	752.9	748.3
55°	725.2	711.3	699.8	689.7	686.7
57.5°	662.8	650.4	637.3	628.1	625.8
60°	599.6	588.8	575.7	567.2	564.9
62.5°	538.7	527.9	515.6	507.1	503.2
65°	477.0	466.3	454.7	447.8	445.4
67.5°	416.9	406.9	396.9	390.0	388.4
70°	359.1	349.1	339.9	333.7	331.4
72.5°	301.3	294.4	285.1	281.3	279.0
75°	246.6	238.9	232.7	232.0	228.9
77.5°	193.4	192.7	182.6	181.1	181.1
80°	143.3	141.0	135.6	134.1	136.4
82.5°	98.6	97.1	94.0	93.3	92.5
85°	59.3	59.3	58.6	54.7	54.7
87.5°	27.0	26.2	25.4	26.2	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)