

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: P601174

Luminaire Tested: 24D3X-LP-50-L935

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601174  
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-50-L935  
Description: 2x4 D3X-LP AT 5000LM 3500K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

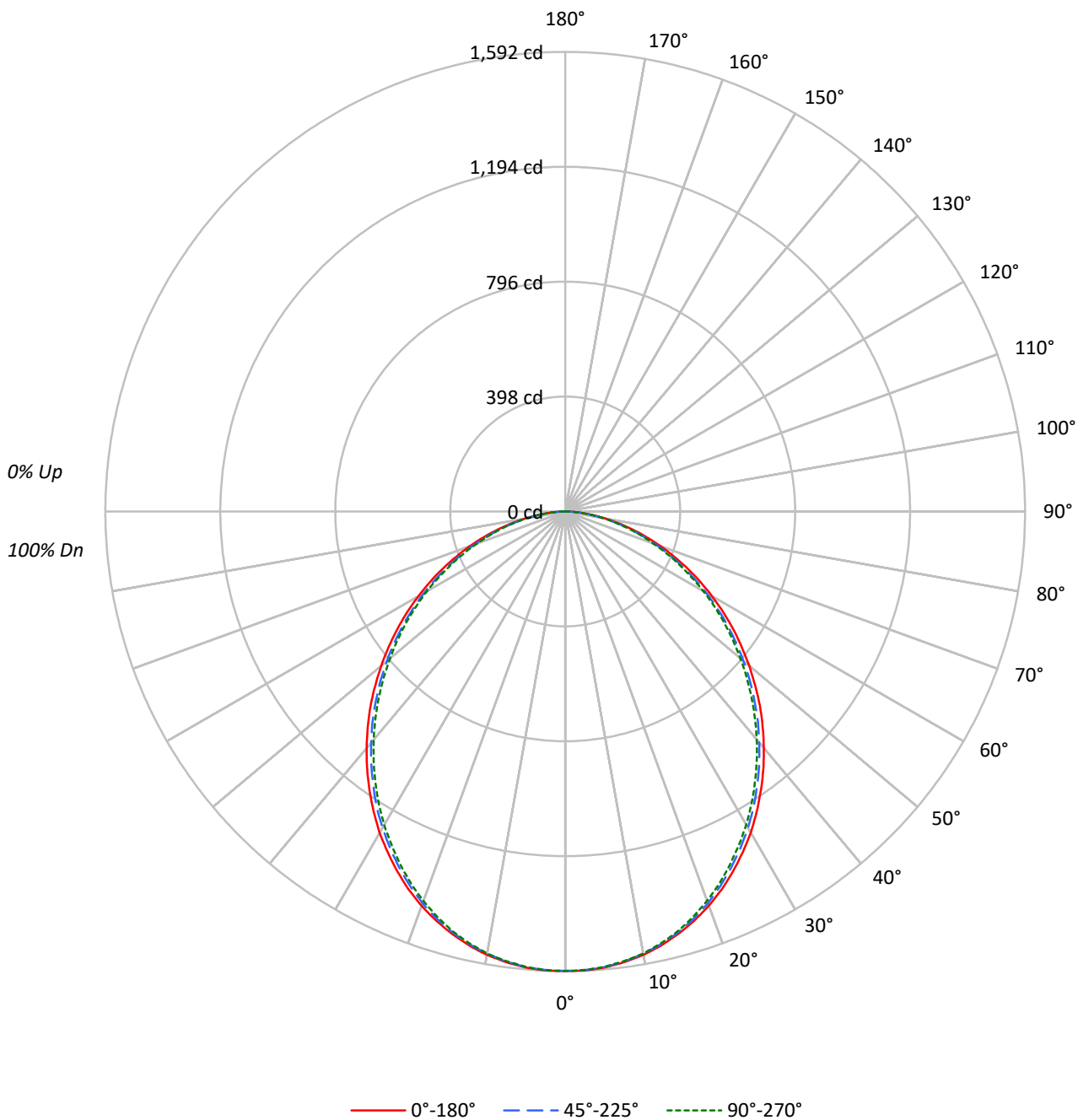
Lumens per Lamp: N/A  
Luminaire Lumens: 4013.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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



TEST NUMBER: P601174  
CATALOG NUMBER: 24D3X-LP-50-L935

### Luminous Intensity Polar Plot





TEST NUMBER: P601174  
 CATALOG NUMBER: 24D3X-LP-50-L935

**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°	2141	2141	2141
5°	2141	2139	2137
10°	2131	2126	2124
15°	2110	2103	2097
20°	2081	2067	2056
25°	2042	2019	2004
30°	1996	1966	1947
35°	1940	1902	1881
40°	1878	1835	1812
45°	1814	1762	1737
50°	1740	1686	1656
55°	1663	1605	1575
60°	1578	1515	1486
65°	1485	1415	1387
70°	1382	1307	1275
75°	1253	1183	1163
80°	1086	1027	1034
85°	895	885	826

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1814 cd/sqm



TEST NUMBER: P601174  
 CATALOG NUMBER: 24D3X-LP-50-L935

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.3	3.7
10°-20°	425.4	10.6
20°-30°	626.9	15.6
30°-40°	725.8	18.1
40°-50°	716.5	17.9
50°-60°	613.7	15.3
60°-70°	443.7	11.1
70°-80°	244.6	6.1
80°-90°	65.9	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°	1202.7	30.0
0°-40°	1928.5	48.1
0°-60°	3258.8	81.2
0°-90°	4013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4013.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1586	1585	1584	1582	1582	150
15°	1515	1513	1509	1507	1506	427
25°	1375	1372	1360	1353	1350	633
35°	1181	1173	1158	1148	1145	738
45°	953	940	926	917	913	735
55°	709	696	684	674	671	634
65°	466	456	445	438	436	462
75°	241	234	228	227	224	256
85°	58	58	57	54	54	68
90°	0	0	0	0	0	



TEST NUMBER: P601174  
 CATALOG NUMBER: 24D3X-LP-50-L935

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1591.6	1591.6	1591.6	1591.6	1591.6
2.5°	1591.6	1591.6	1590.1	1590.1	1590.1
5°	1585.5	1584.8	1584.0	1582.5	1582.5
7.5°	1574.2	1574.2	1572.0	1572.0	1570.5
10°	1559.9	1558.4	1556.1	1556.1	1554.6
12.5°	1539.6	1538.1	1535.0	1534.3	1532.0
15°	1514.7	1513.2	1509.4	1507.2	1505.6
17.5°	1486.1	1483.8	1479.3	1475.5	1472.5
20°	1453.7	1450.6	1443.9	1439.3	1435.6
22.5°	1416.7	1413.7	1403.9	1398.6	1394.9
25°	1375.3	1371.5	1360.2	1353.4	1349.7
27.5°	1330.8	1326.3	1313.5	1306.0	1302.2
30°	1284.9	1278.1	1265.3	1256.2	1253.2
32.5°	1233.6	1226.8	1214.0	1203.5	1200.5
35°	1180.9	1173.3	1158.2	1148.5	1145.4
37.5°	1126.6	1116.8	1103.2	1093.4	1088.9
40°	1069.3	1059.5	1044.5	1033.9	1031.6
42.5°	1012.1	1000.0	987.2	976.6	972.1
45°	953.3	940.5	926.1	917.1	912.6
47.5°	891.5	879.4	866.6	856.1	852.3
50°	831.2	818.4	805.6	795.8	791.3
52.5°	769.4	756.6	744.5	736.2	731.7
55°	709.1	695.6	684.2	674.5	671.4
57.5°	648.1	636.0	623.2	614.2	611.9
60°	586.3	575.7	562.9	554.6	552.4
62.5°	526.8	516.2	504.1	495.9	492.1
65°	466.5	455.9	444.6	437.8	435.6
67.5°	407.7	397.9	388.1	381.3	379.8
70°	351.2	341.4	332.3	326.3	324.0
72.5°	294.6	287.9	278.8	275.1	272.8
75°	241.1	233.6	227.6	226.8	223.8
77.5°	189.1	188.4	178.6	177.1	177.1
80°	140.2	137.9	132.6	131.1	133.4
82.5°	96.5	95.0	91.9	91.2	90.4
85°	58.0	58.0	57.3	53.5	53.5
87.5°	26.4	25.6	24.9	25.6	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)