

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: P601162

Luminaire Tested: 24D3X-LP-40-L935

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601162  
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-40-L935  
Description: 2x4 D3X-LP AT 4000LM 3500K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

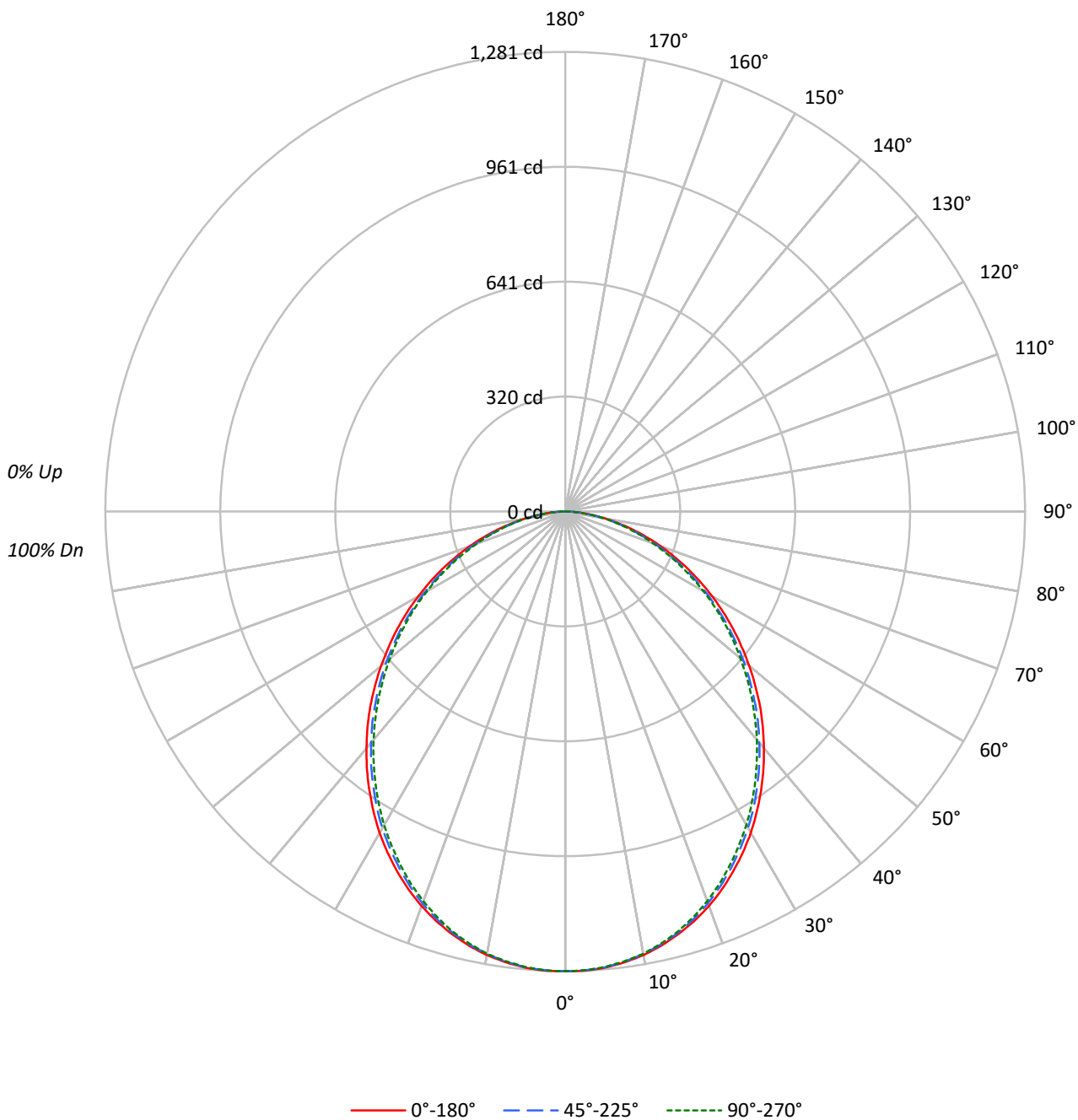
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3231.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 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): 29.4  
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°	1724	1724	1724
5°	1724	1722	1721
10°	1716	1712	1710
15°	1699	1693	1689
20°	1676	1665	1655
25°	1644	1626	1613
30°	1607	1583	1568
35°	1562	1532	1515
40°	1512	1477	1459
45°	1460	1419	1398
50°	1401	1358	1334
55°	1339	1292	1268
60°	1270	1220	1197
65°	1196	1140	1117
70°	1112	1053	1026
75°	1010	952	937
80°	875	828	832
85°	721	712	665

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1460 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.0	3.7
10°-20°	342.5	10.6
20°-30°	504.8	15.6
30°-40°	584.4	18.1
40°-50°	576.9	17.9
50°-60°	494.2	15.3
60°-70°	357.3	11.1
70°-80°	196.9	6.1
80°-90°	53.0	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°	968.3	30.0
0°-40°	1552.7	48.1
0°-60°	2623.8	81.2
0°-90°	3231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1277	1276	1275	1274	1274	121
15°	1220	1218	1215	1214	1212	344
25°	1107	1104	1095	1090	1087	510
35°	951	945	932	925	922	594
45°	768	757	746	738	735	591
55°	571	560	551	543	541	510
65°	376	367	358	352	351	372
75°	194	188	183	183	180	206
85°	47	47	46	43	43	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1281.4	1281.4	1281.4	1281.4	1281.4
2.5°	1281.4	1281.4	1280.2	1280.2	1280.2
5°	1276.6	1276.0	1275.3	1274.1	1274.1
7.5°	1267.5	1267.5	1265.6	1265.6	1264.4
10°	1255.9	1254.7	1252.9	1252.9	1251.7
12.5°	1239.6	1238.3	1235.9	1235.3	1233.5
15°	1219.5	1218.3	1215.3	1213.5	1212.2
17.5°	1196.5	1194.7	1191.0	1188.0	1185.6
20°	1170.4	1168.0	1162.5	1158.9	1155.8
22.5°	1140.7	1138.2	1130.3	1126.1	1123.1
25°	1107.3	1104.3	1095.1	1089.7	1086.7
27.5°	1071.5	1067.8	1057.5	1051.5	1048.4
30°	1034.5	1029.0	1018.7	1011.4	1009.0
32.5°	993.2	987.8	977.4	968.9	966.5
35°	950.7	944.7	932.5	924.7	922.2
37.5°	907.1	899.2	888.3	880.4	876.7
40°	861.0	853.1	840.9	832.4	830.6
42.5°	814.8	805.1	794.8	786.3	782.7
45°	767.5	757.2	745.7	738.4	734.8
47.5°	717.8	708.1	697.7	689.2	686.2
50°	669.2	658.9	648.6	640.7	637.1
52.5°	619.5	609.2	599.5	592.8	589.1
55°	570.9	560.0	550.9	543.0	540.6
57.5°	521.8	512.1	501.8	494.5	492.7
60°	472.0	463.5	453.2	446.6	444.7
62.5°	424.1	415.6	405.9	399.2	396.2
65°	375.6	367.1	358.0	352.5	350.7
67.5°	328.2	320.4	312.5	307.0	305.8
70°	282.7	274.8	267.6	262.7	260.9
72.5°	237.2	231.8	224.5	221.5	219.6
75°	194.2	188.1	183.2	182.6	180.2
77.5°	152.3	151.7	143.8	142.6	142.6
80°	112.9	111.0	106.8	105.6	107.4
82.5°	77.7	76.4	74.0	73.4	72.8
85°	46.7	46.7	46.1	43.1	43.1
87.5°	21.2	20.6	20.0	20.6	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)