

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: P995627

Luminaire Tested: 24D3X-LP-WD-55-L927.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-WD-55-L927.ies
Description: 2x4 D3X-LP AT 5500LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

Summary

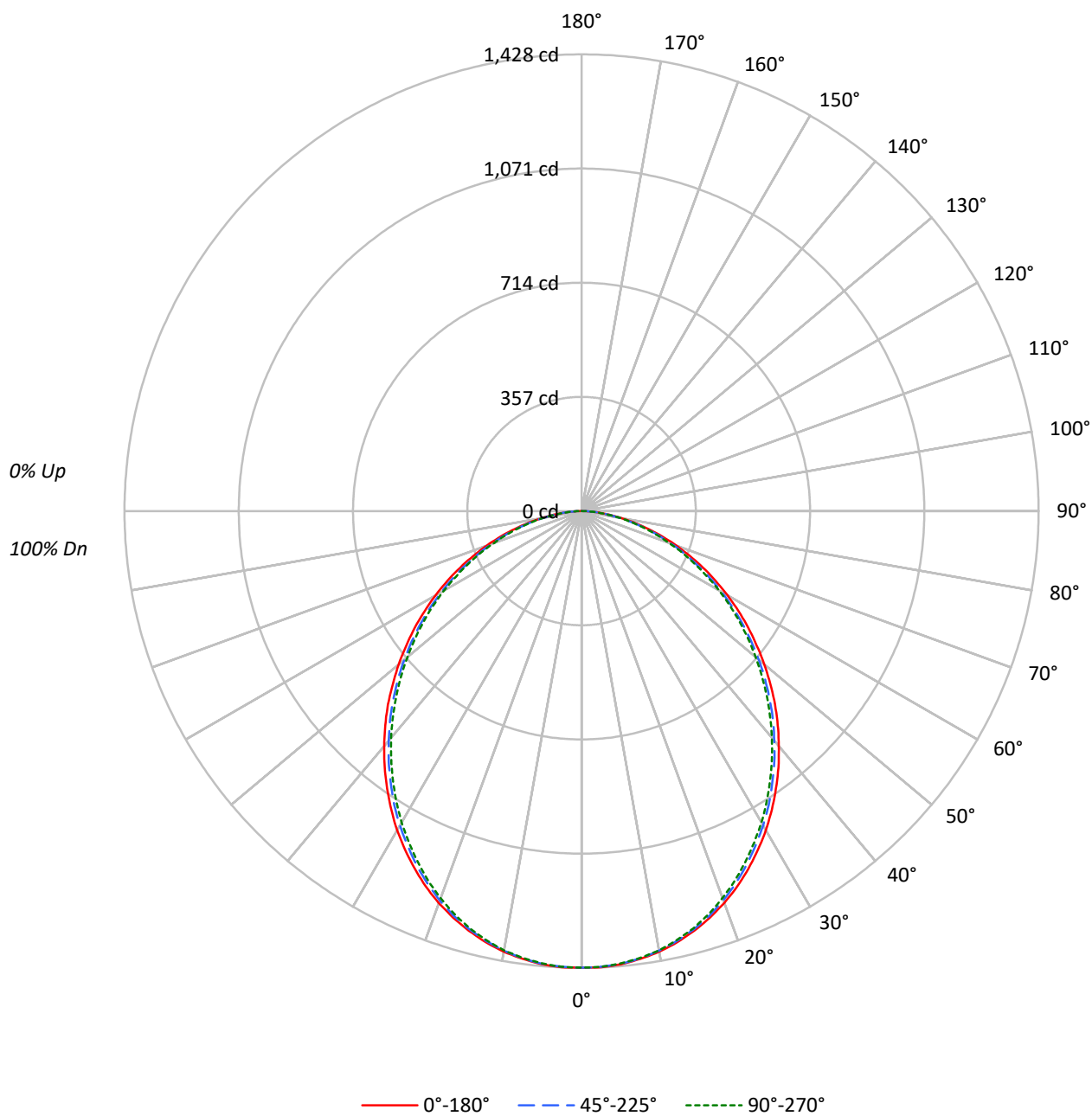
Lumens per Lamp: N/A
Luminaire Lumens: 3599.5 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P995627

CATALOG NUMBER: 24D3X-LP-WD-55-L927.ies

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35		35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32		32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1921	1921	1921
5°	1921	1919	1917
10°	1912	1907	1905
15°	1892	1886	1881
20°	1867	1854	1844
25°	1831	1811	1797
30°	1791	1763	1746
35°	1740	1706	1688
40°	1685	1645	1625
45°	1627	1581	1558
50°	1561	1513	1486
55°	1492	1440	1413
60°	1415	1359	1333
65°	1332	1270	1244
70°	1239	1173	1144
75°	1124	1061	1044
80°	974	922	927
85°	803	794	741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1627 cd/sqm

TEST NUMBER: P995627

CATALOG NUMBER: 24D3X-LP-WD-55-L927.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	3.7
10°-20°	381.6	10.6
20°-30°	562.4	15.6
30°-40°	651.0	18.1
40°-50°	642.7	17.9
50°-60°	550.5	15.3
60°-70°	398.0	11.1
70°-80°	219.4	6.1
80°-90°	59.1	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°	1078.8	30.0
0°-40°	1729.8	48.1
0°-60°	2923.0	81.2
0°-90°	3599.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3599.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1422	1422	1421	1420	1420	135
15°	1359	1357	1354	1352	1350	383
25°	1234	1230	1220	1214	1211	568
35°	1059	1052	1039	1030	1027	662
45°	855	844	831	823	819	659
55°	636	624	614	605	602	569
65°	418	409	399	393	391	415
75°	216	210	204	204	201	230
85°	52	52	51	48	48	61
90°	0	0	0	0	0	

TEST NUMBER: P995627

CATALOG NUMBER: 24D3X-LP-WD-55-L927.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.6	1427.6	1427.6	1427.6	1427.6
2.5°	1427.6	1427.6	1426.2	1426.2	1426.2
5°	1422.2	1421.5	1420.8	1419.5	1419.5
7.5°	1412.0	1412.0	1410.0	1410.0	1408.6
10°	1399.2	1397.8	1395.8	1395.8	1394.5
12.5°	1380.9	1379.6	1376.9	1376.2	1374.2
15°	1358.6	1357.3	1353.9	1351.9	1350.5
17.5°	1332.9	1330.9	1326.9	1323.5	1320.8
20°	1303.9	1301.2	1295.1	1291.0	1287.7
22.5°	1270.8	1268.1	1259.3	1254.5	1251.2
25°	1233.6	1230.2	1220.1	1214.0	1210.6
27.5°	1193.7	1189.6	1178.2	1171.4	1168.0
30°	1152.5	1146.4	1134.9	1126.8	1124.1
32.5°	1106.5	1100.4	1088.9	1079.5	1076.8
35°	1059.2	1052.4	1038.9	1030.1	1027.4
37.5°	1010.5	1001.7	989.6	980.8	976.7
40°	959.1	950.4	936.8	927.4	925.4
42.5°	907.8	897.0	885.5	876.0	872.0
45°	855.1	843.6	830.7	822.6	818.6
47.5°	799.6	788.8	777.3	767.9	764.5
50°	745.6	734.1	722.6	713.8	709.7
52.5°	690.1	678.6	667.8	660.4	656.3
55°	636.1	623.9	613.7	605.0	602.3
57.5°	581.3	570.5	559.0	550.9	548.9
60°	525.9	516.4	504.9	497.5	495.5
62.5°	472.5	463.0	452.2	444.8	441.4
65°	418.4	408.9	398.8	392.7	390.7
67.5°	365.7	356.9	348.1	342.0	340.7
70°	315.0	306.2	298.1	292.7	290.7
72.5°	264.3	258.2	250.1	246.7	244.7
75°	216.3	209.5	204.1	203.5	200.8
77.5°	169.7	169.0	160.2	158.8	158.8
80°	125.7	123.7	119.0	117.6	119.6
82.5°	86.5	85.2	82.5	81.8	81.1
85°	52.0	52.0	51.4	48.0	48.0
87.5°	23.7	23.0	22.3	23.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)