

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: P995646

Luminaire Tested: 24D3X-LP-WD-70-L930.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995646
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-70-L930.ies
Description: 2x4 D3X-LP AT 7000LM 3000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

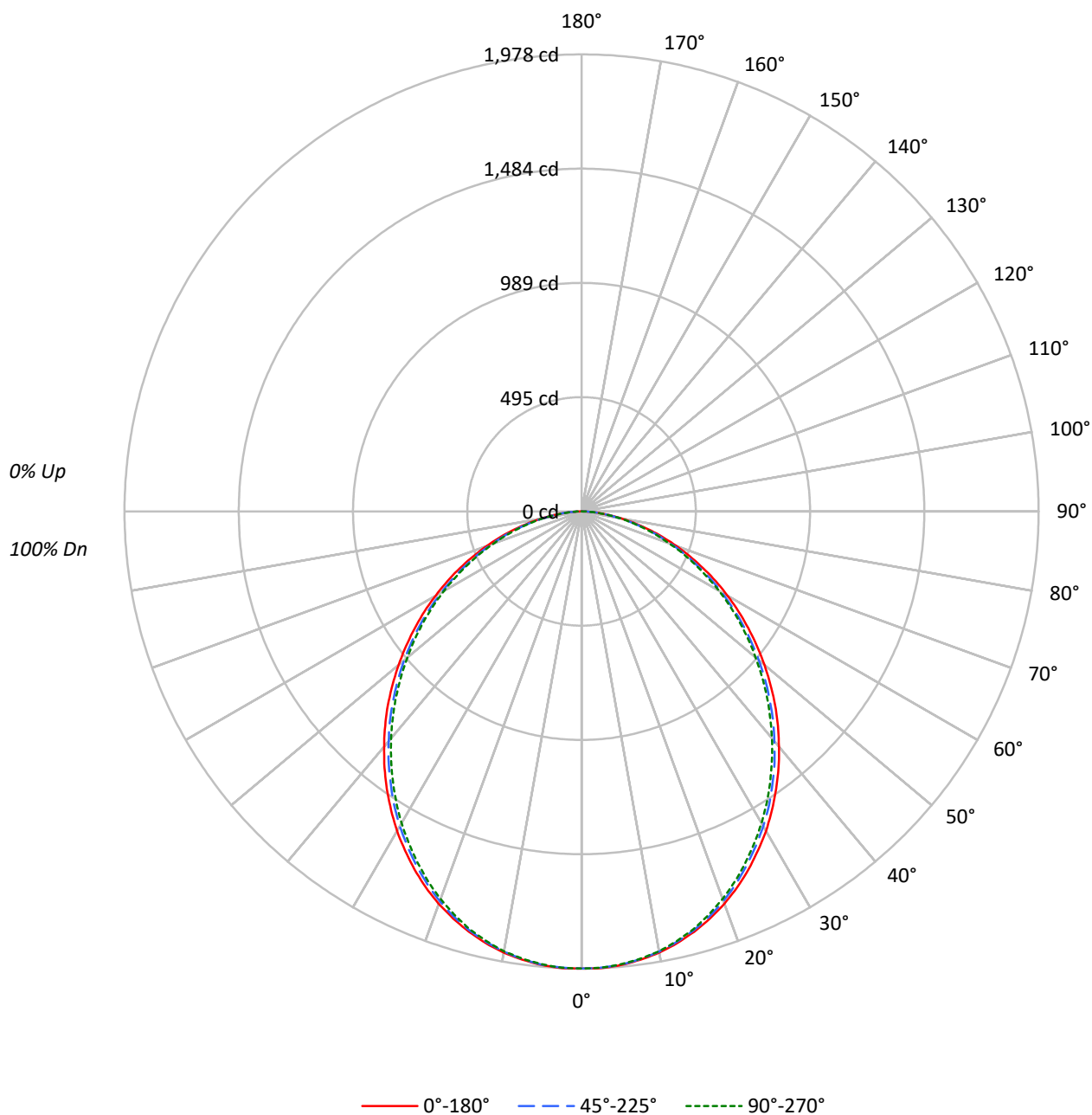
Lumens per Lamp: N/A
Luminaire Lumens: 4988.7 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 51.5
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: P995646

CATALOG NUMBER: 24D3X-LP-WD-70-L930.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	31	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°	2662	2662	2662
5°	2662	2660	2657
10°	2649	2643	2640
15°	2623	2614	2607
20°	2587	2570	2555
25°	2538	2510	2491
30°	2481	2444	2420
35°	2411	2365	2339
40°	2335	2281	2253
45°	2255	2191	2159
50°	2163	2096	2059
55°	2068	1995	1958
60°	1961	1883	1848
65°	1846	1760	1724
70°	1717	1625	1585
75°	1559	1471	1446
80°	1350	1278	1285
85°	1113	1099	1027

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2255 cd/sqm

TEST NUMBER: P995646

CATALOG NUMBER: 24D3X-LP-WD-70-L930.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	3.7
10°-20°	528.9	10.6
20°-30°	779.4	15.6
30°-40°	902.3	18.1
40°-50°	890.8	17.9
50°-60°	763.0	15.3
60°-70°	551.6	11.1
70°-80°	304.1	6.1
80°-90°	81.9	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°	1495.1	30.0
0°-40°	2397.4	48.1
0°-60°	4051.1	81.2
0°-90°	4988.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1971	1970	1969	1967	1967	187
15°	1883	1881	1876	1874	1872	531
25°	1710	1705	1691	1682	1678	787
35°	1468	1459	1440	1428	1424	918
45°	1185	1169	1151	1140	1134	913
55°	882	865	851	838	835	788
65°	580	567	553	544	542	575
75°	300	290	283	282	278	318
85°	72	72	71	66	66	85
90°	0	0	0	0	0	

TEST NUMBER: P995646

CATALOG NUMBER: 24D3X-LP-WD-70-L930.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	1978.5	1978.5	1976.6	1976.6	1976.6
5°	1971.0	1970.1	1969.2	1967.3	1967.3
7.5°	1957.0	1957.0	1954.2	1954.2	1952.3
10°	1939.2	1937.3	1934.5	1934.5	1932.6
12.5°	1913.9	1912.0	1908.3	1907.3	1904.5
15°	1883.0	1881.1	1876.4	1873.6	1871.7
17.5°	1847.4	1844.6	1838.9	1834.3	1830.5
20°	1807.1	1803.3	1794.9	1789.3	1784.6
22.5°	1761.2	1757.4	1745.3	1738.7	1734.0
25°	1709.7	1705.0	1690.9	1682.5	1677.8
27.5°	1654.4	1648.8	1632.8	1623.5	1618.8
30°	1597.2	1588.8	1572.9	1561.6	1557.9
32.5°	1533.5	1525.1	1509.2	1496.1	1492.3
35°	1468.0	1458.6	1439.9	1427.7	1423.9
37.5°	1400.5	1388.3	1371.5	1359.3	1353.7
40°	1329.3	1317.1	1298.4	1285.3	1282.5
42.5°	1258.1	1243.1	1227.2	1214.1	1208.5
45°	1185.1	1169.1	1151.3	1140.1	1134.5
47.5°	1108.2	1093.2	1077.3	1064.2	1059.5
50°	1033.3	1017.4	1001.4	989.3	983.6
52.5°	956.5	940.5	925.6	915.3	909.6
55°	881.5	864.7	850.6	838.4	834.7
57.5°	805.6	790.7	774.7	763.5	760.7
60°	728.8	715.7	699.8	689.5	686.7
62.5°	654.8	641.7	626.7	616.4	611.7
65°	579.9	566.8	552.7	544.3	541.5
67.5°	506.8	494.6	482.5	474.0	472.1
70°	436.5	424.4	413.1	405.6	402.8
72.5°	366.3	357.9	346.6	341.9	339.1
75°	299.8	290.4	282.9	282.0	278.2
77.5°	235.1	234.2	222.0	220.1	220.1
80°	174.2	171.4	164.9	163.0	165.8
82.5°	119.9	118.0	114.3	113.4	112.4
85°	72.1	72.1	71.2	66.5	66.5
87.5°	32.8	31.9	30.9	31.9	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)