

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: P995621

Luminaire Tested: 24D3X-LP-WD-50-L940.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995621
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-50-L940.ies
Description: 2x4 D3X-LP AT 5000LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

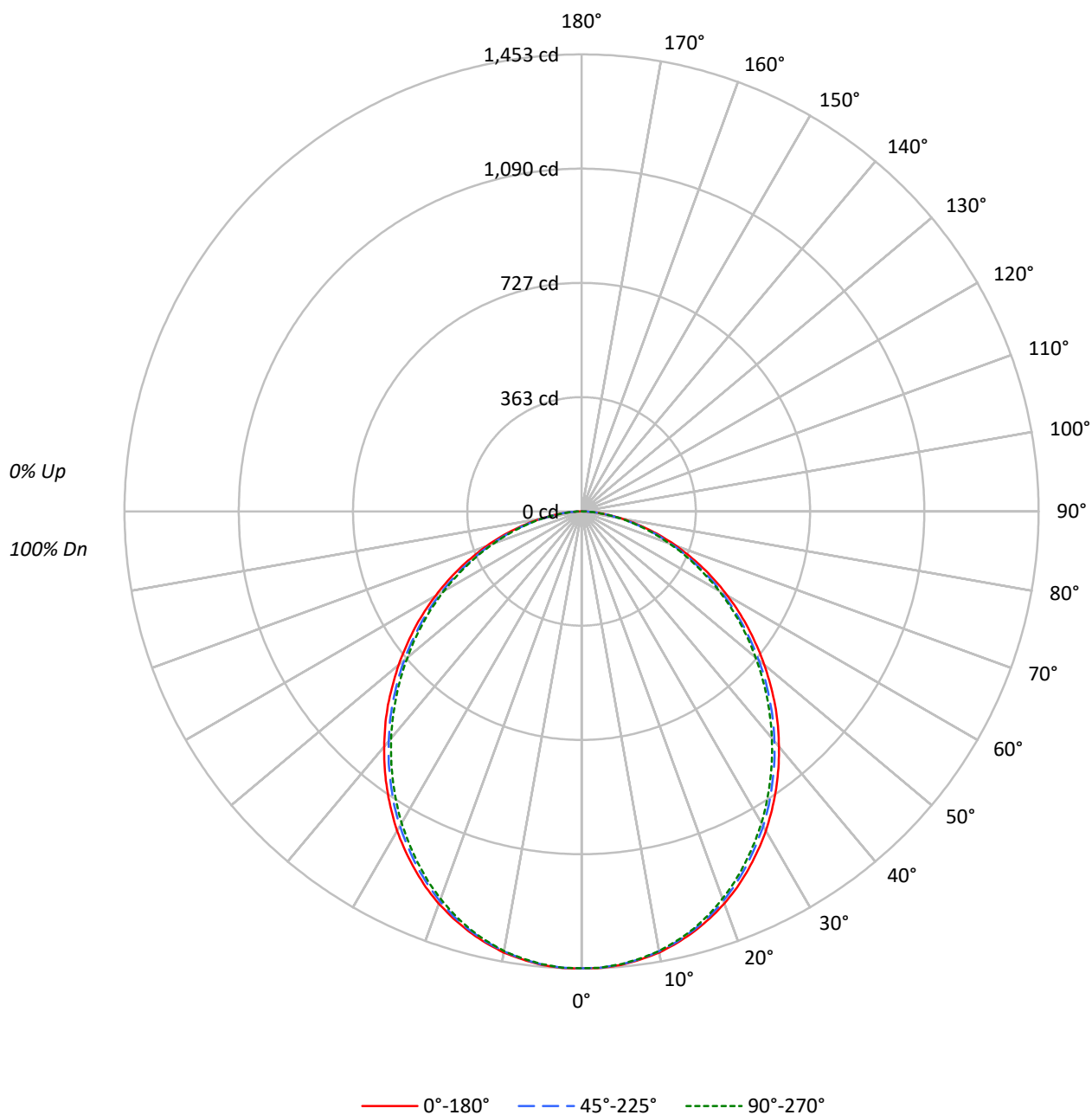
Lumens per Lamp: N/A
Luminaire Lumens: 3663.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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					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°	1955	1955	1955
5°	1955	1953	1951
10°	1945	1941	1939
15°	1926	1919	1914
20°	1900	1887	1876
25°	1864	1843	1829
30°	1822	1794	1777
35°	1770	1736	1717
40°	1714	1675	1654
45°	1656	1609	1585
50°	1588	1539	1512
55°	1518	1465	1438
60°	1440	1383	1357
65°	1356	1292	1266
70°	1261	1193	1164
75°	1144	1080	1062
80°	991	938	944
85°	818	807	753

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1656 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.7
10°-20°	388.3	10.6
20°-30°	572.3	15.6
30°-40°	662.5	18.1
40°-50°	654.1	17.9
50°-60°	560.2	15.3
60°-70°	405.0	11.1
70°-80°	223.3	6.1
80°-90°	60.1	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°	1097.8	30.0
0°-40°	1760.3	48.1
0°-60°	2974.6	81.2
0°-90°	3663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1447	1447	1446	1444	1444	137
15°	1383	1381	1378	1376	1374	390
25°	1255	1252	1242	1235	1232	578
35°	1078	1071	1057	1048	1046	674
45°	870	858	845	837	833	670
55°	647	635	625	616	613	579
65°	426	416	406	400	398	422
75°	220	213	208	207	204	234
85°	53	53	52	49	49	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.7	1452.7	1452.7	1452.7	1452.7
2.5°	1452.7	1452.7	1451.4	1451.4	1451.4
5°	1447.2	1446.6	1445.9	1444.5	1444.5
7.5°	1436.9	1436.9	1434.9	1434.9	1433.5
10°	1423.9	1422.5	1420.4	1420.4	1419.0
12.5°	1405.3	1403.9	1401.2	1400.5	1398.4
15°	1382.6	1381.2	1377.8	1375.7	1374.3
17.5°	1356.4	1354.4	1350.3	1346.8	1344.1
20°	1326.9	1324.1	1317.9	1313.8	1310.4
22.5°	1293.2	1290.4	1281.5	1276.7	1273.2
25°	1255.3	1251.9	1241.6	1235.4	1231.9
27.5°	1214.7	1210.6	1198.9	1192.1	1188.6
30°	1172.8	1166.6	1154.9	1146.7	1143.9
32.5°	1126.0	1119.8	1108.1	1098.5	1095.8
35°	1077.9	1071.0	1057.2	1048.3	1045.5
37.5°	1028.3	1019.4	1007.0	998.1	993.9
40°	976.1	967.1	953.4	943.7	941.7
42.5°	923.8	912.8	901.1	891.5	887.3
45°	870.1	858.4	845.4	837.1	833.0
47.5°	813.7	802.7	791.0	781.4	778.0
50°	758.7	747.0	735.3	726.4	722.2
52.5°	702.3	690.6	679.6	672.0	667.9
55°	647.3	634.9	624.6	615.6	612.9
57.5°	591.6	580.5	568.9	560.6	558.5
60°	535.2	525.5	513.8	506.3	504.2
62.5°	480.8	471.2	460.2	452.6	449.2
65°	425.8	416.2	405.8	399.6	397.6
67.5°	372.1	363.2	354.2	348.1	346.7
70°	320.5	311.6	303.3	297.8	295.8
72.5°	269.0	262.8	254.5	251.1	249.0
75°	220.1	213.2	207.7	207.0	204.3
77.5°	172.7	172.0	163.0	161.6	161.6
80°	127.9	125.9	121.1	119.7	121.8
82.5°	88.0	86.7	83.9	83.2	82.5
85°	53.0	53.0	52.3	48.8	48.8
87.5°	24.1	23.4	22.7	23.4	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)