

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: P995618

Luminaire Tested: 24D3X-LP-WD-50-L927.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995618
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-L927.ies
Description: 2x4 D3X-LP AT 5000LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

Summary

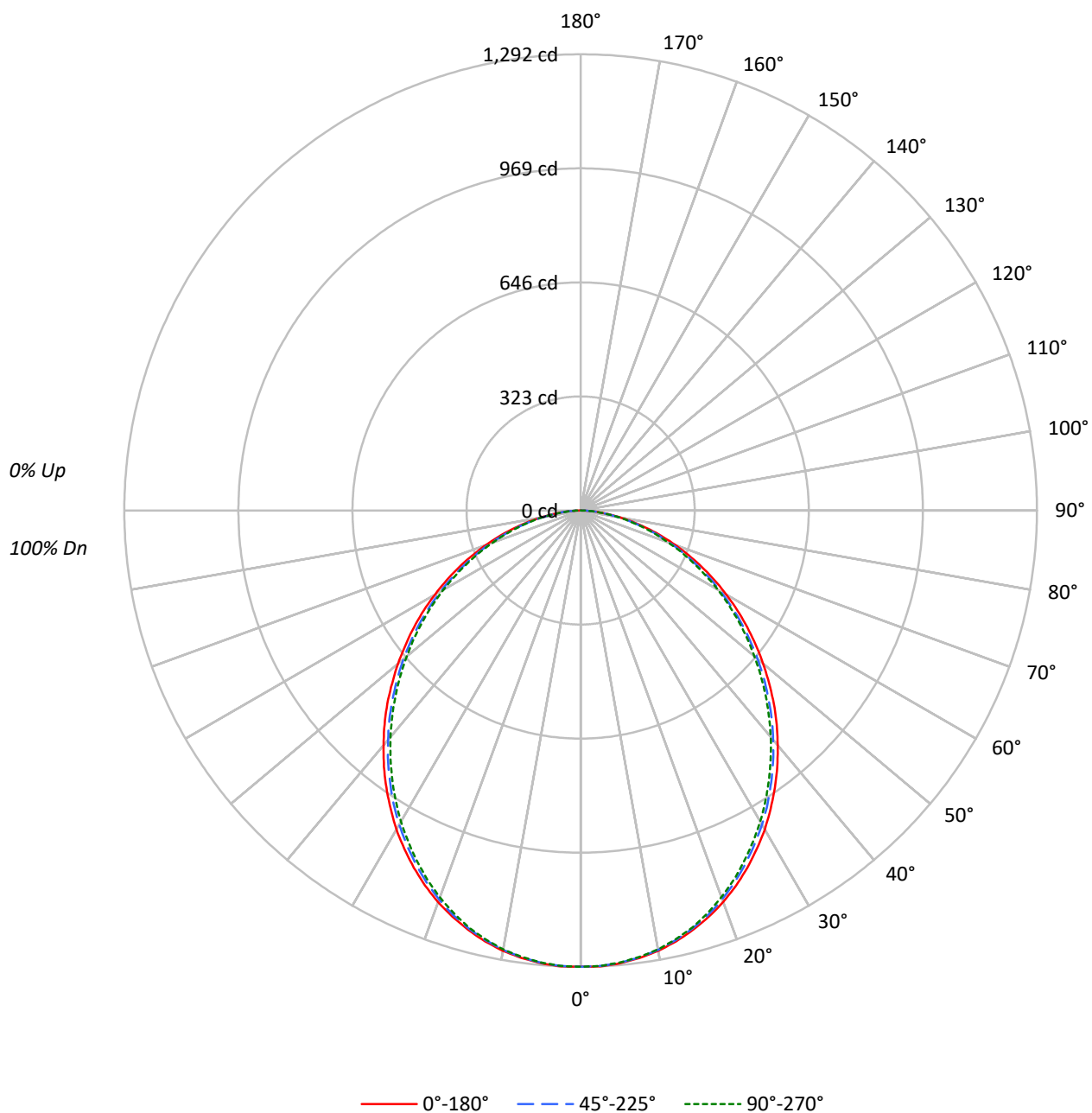
Lumens per Lamp: N/A
Luminaire Lumens: 3257.7 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1738	1738	1738
5°	1738	1737	1735
10°	1730	1726	1724
15°	1713	1707	1703
20°	1690	1678	1669
25°	1658	1639	1627
30°	1620	1596	1581
35°	1575	1544	1527
40°	1525	1489	1471
45°	1473	1431	1410
50°	1412	1369	1344
55°	1350	1303	1279
60°	1281	1230	1207
65°	1206	1149	1126
70°	1122	1061	1035
75°	1018	960	945
80°	882	834	839
85°	727	718	670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1473 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	3.7
10°-20°	345.4	10.6
20°-30°	509.0	15.6
30°-40°	589.2	18.1
40°-50°	581.7	17.9
50°-60°	498.2	15.3
60°-70°	360.2	11.1
70°-80°	198.6	6.1
80°-90°	53.5	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°	976.4	30.0
0°-40°	1565.5	48.1
0°-60°	2645.5	81.2
0°-90°	3257.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3257.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1287	1286	1286	1285	1285	122
15°	1230	1228	1225	1224	1222	347
25°	1116	1113	1104	1099	1096	514
35°	959	952	940	932	930	599
45°	774	764	752	744	741	596
55°	576	565	556	548	545	515
65°	379	370	361	355	354	375
75°	196	190	185	184	182	208
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°	1292.0	1292.0	1292.0	1292.0	1292.0
2.5°	1292.0	1292.0	1290.8	1290.8	1290.8
5°	1287.1	1286.5	1285.9	1284.7	1284.7
7.5°	1278.0	1278.0	1276.1	1276.1	1274.9
10°	1266.3	1265.1	1263.3	1263.3	1262.1
12.5°	1249.8	1248.6	1246.1	1245.5	1243.7
15°	1229.6	1228.4	1225.3	1223.5	1222.3
17.5°	1206.4	1204.5	1200.9	1197.8	1195.4
20°	1180.1	1177.6	1172.1	1168.5	1165.4
22.5°	1150.1	1147.7	1139.7	1135.4	1132.4
25°	1116.5	1113.4	1104.2	1098.7	1095.7
27.5°	1080.4	1076.7	1066.3	1060.2	1057.1
30°	1043.0	1037.5	1027.1	1019.8	1017.3
32.5°	1001.4	995.9	985.5	977.0	974.5
35°	958.6	952.5	940.3	932.3	929.9
37.5°	914.6	906.6	895.6	887.7	884.0
40°	868.1	860.1	847.9	839.3	837.5
42.5°	821.6	811.8	801.4	792.8	789.2
45°	773.9	763.5	751.8	744.5	740.8
47.5°	723.7	713.9	703.5	695.0	691.9
50°	674.8	664.4	654.0	646.0	642.3
52.5°	624.6	614.2	604.4	597.7	594.0
55°	575.7	564.6	555.5	547.5	545.1
57.5°	526.1	516.3	505.9	498.6	496.7
60°	475.9	467.4	457.0	450.3	448.4
62.5°	427.6	419.1	409.3	402.5	399.5
65°	378.7	370.1	360.9	355.4	353.6
67.5°	331.0	323.0	315.1	309.5	308.3
70°	285.1	277.1	269.8	264.9	263.1
72.5°	239.2	233.7	226.3	223.3	221.5
75°	195.8	189.6	184.7	184.1	181.7
77.5°	153.6	152.9	145.0	143.8	143.8
80°	113.8	112.0	107.7	106.4	108.3
82.5°	78.3	77.1	74.6	74.0	73.4
85°	47.1	47.1	46.5	43.4	43.4
87.5°	21.4	20.8	20.2	20.8	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)