

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: P995619

Luminaire Tested: 24D3X-LP-WD-50-L930.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995619
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-L930.ies
Description: 2x4 D3X-LP AT 5000LM 3000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

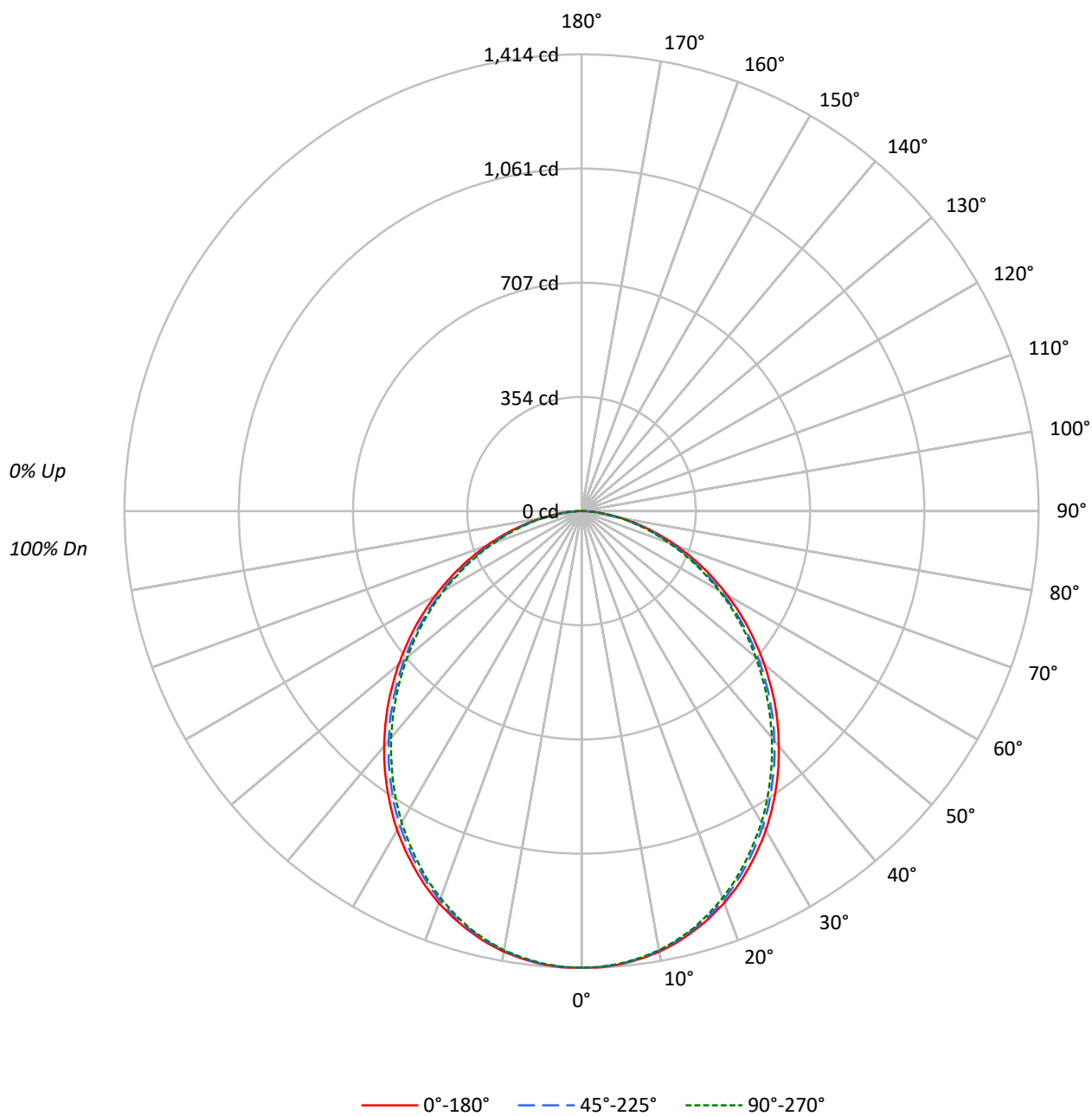
Lumens per Lamp: N/A
Luminaire Lumens: 3564.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1902	1902	1902
5°	1902	1900	1898
10°	1893	1888	1886
15°	1874	1867	1863
20°	1849	1836	1825
25°	1813	1793	1780
30°	1773	1746	1729
35°	1723	1690	1671
40°	1668	1629	1609
45°	1611	1565	1542
50°	1545	1497	1471
55°	1477	1426	1399
60°	1401	1345	1320
65°	1319	1257	1231
70°	1227	1161	1132
75°	1114	1051	1033
80°	965	913	918
85°	795	786	733

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.7
10°-20°	377.8	10.6
20°-30°	556.8	15.6
30°-40°	644.6	18.1
40°-50°	636.4	17.9
50°-60°	545.1	15.3
60°-70°	394.1	11.1
70°-80°	217.2	6.1
80°-90°	58.5	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°	1068.1	30.0
0°-40°	1712.7	48.1
0°-60°	2894.2	81.2
0°-90°	3564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1408	1408	1407	1406	1406	134
15°	1345	1344	1340	1338	1337	379
25°	1221	1218	1208	1202	1199	562
35°	1049	1042	1029	1020	1017	656
45°	847	835	822	814	810	652
55°	630	618	608	599	596	563
65°	414	405	395	389	387	411
75°	214	208	202	201	199	227
85°	52	52	51	48	48	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1413.5	1413.5	1413.5	1413.5	1413.5
2.5°	1413.5	1413.5	1412.1	1412.1	1412.1
5°	1408.1	1407.5	1406.8	1405.5	1405.5
7.5°	1398.1	1398.1	1396.1	1396.1	1394.7
10°	1385.4	1384.0	1382.0	1382.0	1380.7
12.5°	1367.3	1366.0	1363.3	1362.6	1360.6
15°	1345.2	1343.9	1340.5	1338.5	1337.2
17.5°	1319.8	1317.8	1313.8	1310.4	1307.7
20°	1291.0	1288.3	1282.3	1278.3	1274.9
22.5°	1258.2	1255.5	1246.8	1242.2	1238.8
25°	1221.4	1218.1	1208.0	1202.0	1198.7
27.5°	1181.9	1177.9	1166.5	1159.8	1156.5
30°	1141.1	1135.1	1123.7	1115.7	1113.0
32.5°	1095.6	1089.6	1078.2	1068.8	1066.1
35°	1048.7	1042.0	1028.7	1020.0	1017.3
37.5°	1000.5	991.8	979.8	971.1	967.1
40°	949.7	941.0	927.6	918.2	916.2
42.5°	898.8	888.1	876.7	867.4	863.3
45°	846.6	835.2	822.5	814.5	810.5
47.5°	791.7	781.0	769.7	760.3	756.9
50°	738.2	726.8	715.4	706.7	702.7
52.5°	683.3	671.9	661.2	653.9	649.9
55°	629.8	617.7	607.7	599.0	596.3
57.5°	575.6	564.9	553.5	545.4	543.4
60°	520.7	511.3	499.9	492.6	490.6
62.5°	467.8	458.4	447.7	440.4	437.0
65°	414.3	404.9	394.9	388.8	386.8
67.5°	362.1	353.4	344.7	338.6	337.3
70°	311.9	303.2	295.1	289.8	287.8
72.5°	261.7	255.7	247.6	244.3	242.3
75°	214.2	207.5	202.1	201.4	198.8
77.5°	168.0	167.3	158.6	157.3	157.3
80°	124.5	122.5	117.8	116.5	118.5
82.5°	85.7	84.3	81.7	81.0	80.3
85°	51.5	51.5	50.9	47.5	47.5
87.5°	23.4	22.8	22.1	22.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)