

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: P995649

Luminaire Tested: 24D3X-LP-WD-70-L950.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995649
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-L950.ies
Description: 2x4 D3X-LP AT 7000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

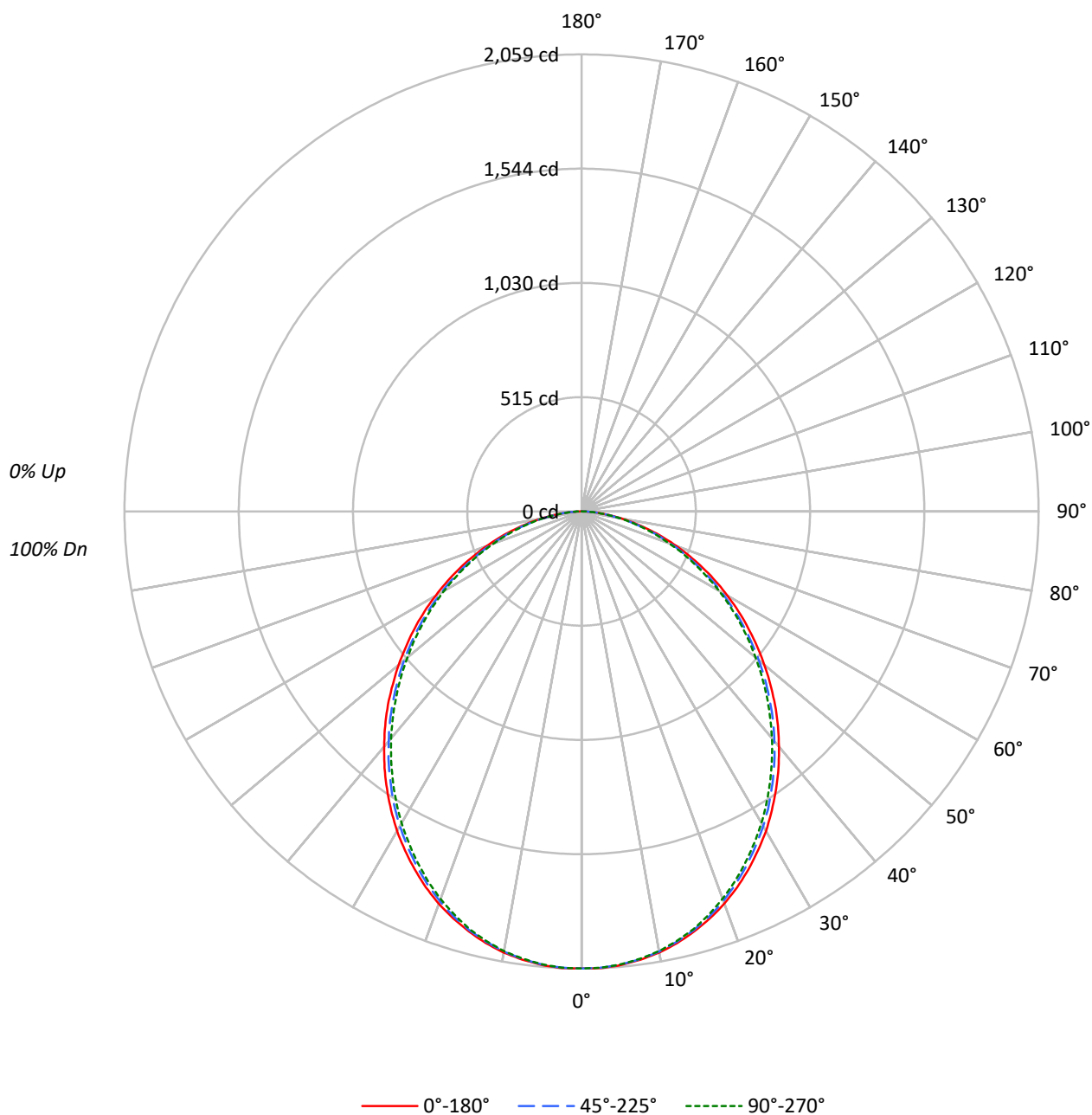
Lumens per Lamp: N/A
Luminaire Lumens: 5191.8 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	2770	2770	2770
5°	2771	2768	2765
10°	2757	2751	2748
15°	2730	2720	2713
20°	2693	2675	2659
25°	2642	2613	2592
30°	2583	2543	2519
35°	2509	2461	2434
40°	2430	2373	2344
45°	2347	2280	2246
50°	2251	2182	2143
55°	2152	2076	2038
60°	2041	1960	1923
65°	1921	1831	1794
70°	1787	1691	1649
75°	1622	1530	1506
80°	1405	1330	1337
85°	1159	1144	1068

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2347 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	3.7
10°-20°	550.4	10.6
20°-30°	811.1	15.6
30°-40°	939.0	18.1
40°-50°	927.0	17.9
50°-60°	794.0	15.3
60°-70°	574.1	11.1
70°-80°	316.5	6.1
80°-90°	85.2	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°	1556.0	30.0
0°-40°	2495.0	48.1
0°-60°	4216.0	81.2
0°-90°	5191.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5191.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2059	2059	2059	2059	2059	
5°	2051	2050	2049	2047	2047	195
15°	1960	1958	1953	1950	1948	552
25°	1779	1774	1760	1751	1746	819
35°	1528	1518	1498	1486	1482	955
45°	1233	1217	1198	1186	1181	950
55°	917	900	885	873	869	820
65°	604	590	575	566	564	598
75°	312	302	294	294	290	331
85°	75	75	74	69	69	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2059.1	2059.1	2059.1	2059.1	2059.1
2.5°	2059.1	2059.1	2057.1	2057.1	2057.1
5°	2051.3	2050.3	2049.3	2047.4	2047.4
7.5°	2036.6	2036.6	2033.7	2033.7	2031.8
10°	2018.1	2016.2	2013.2	2013.2	2011.3
12.5°	1991.8	1989.8	1985.9	1985.0	1982.0
15°	1959.6	1957.7	1952.8	1949.9	1947.9
17.5°	1922.6	1919.7	1913.8	1908.9	1905.0
20°	1880.7	1876.8	1868.0	1862.1	1857.3
22.5°	1832.9	1829.0	1816.3	1809.5	1804.6
25°	1779.3	1774.4	1759.8	1751.0	1746.1
27.5°	1721.7	1715.9	1699.3	1689.6	1684.7
30°	1662.3	1653.5	1636.9	1625.2	1621.3
32.5°	1596.0	1587.2	1570.6	1557.0	1553.1
35°	1527.7	1518.0	1498.5	1485.8	1481.9
37.5°	1457.5	1444.9	1427.3	1414.6	1408.8
40°	1383.4	1370.8	1351.3	1337.6	1334.7
42.5°	1309.3	1293.7	1277.2	1263.5	1257.7
45°	1233.3	1216.7	1198.2	1186.5	1180.6
47.5°	1153.4	1137.8	1121.2	1107.5	1102.7
50°	1075.4	1058.8	1042.2	1029.5	1023.7
52.5°	995.4	978.8	963.2	952.5	946.7
55°	917.4	899.9	885.2	872.6	868.7
57.5°	838.4	822.8	806.3	794.6	791.6
60°	758.5	744.9	728.3	717.6	714.6
62.5°	681.5	667.8	652.2	641.5	636.6
65°	603.5	589.8	575.2	566.4	563.5
67.5°	527.4	514.8	502.1	493.3	491.4
70°	454.3	441.6	429.9	422.1	419.2
72.5°	381.2	372.4	360.7	355.9	352.9
75°	312.0	302.2	294.4	293.5	289.6
77.5°	244.7	243.7	231.1	229.1	229.1
80°	181.3	178.4	171.6	169.6	172.6
82.5°	124.8	122.8	118.9	118.0	117.0
85°	75.1	75.1	74.1	69.2	69.2
87.5°	34.1	33.1	32.2	33.1	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)