

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: P995648

Luminaire Tested: 24D3X-LP-WD-70-L940.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995648
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-L940.ies
Description: 2x4 D3X-LP AT 7000LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

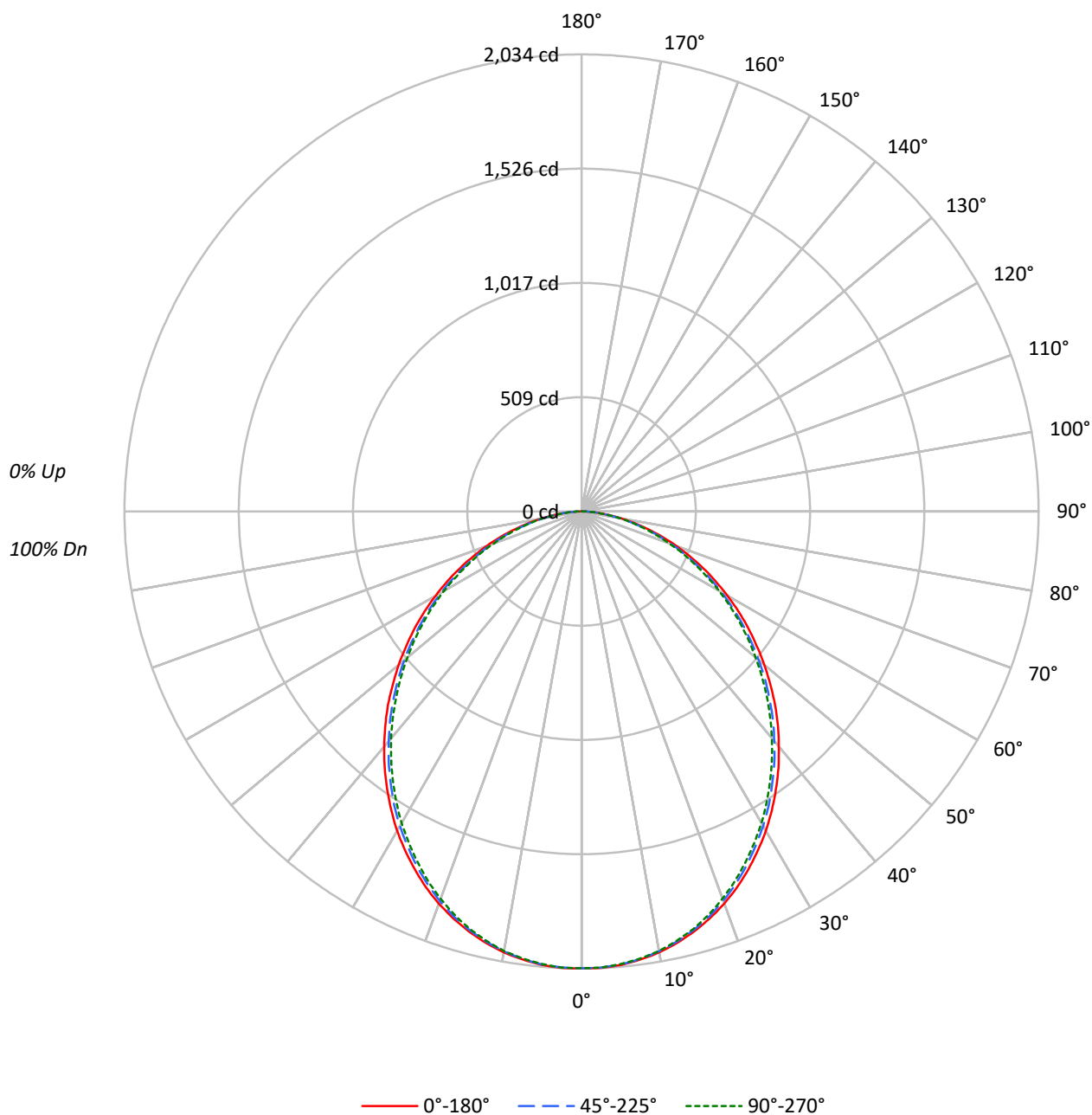
Lumens per Lamp: N/A
Luminaire Lumens: 5127.3 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P995648

CATALOG NUMBER: 24D3X-LP-WD-70-L940.ies

Luminous Intensity Polar Plot



TEST NUMBER: P995648

CATALOG NUMBER: 24D3X-LP-WD-70-L940.ies

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°	2736	2736	2736
5°	2736	2734	2731
10°	2723	2716	2714
15°	2696	2686	2680
20°	2659	2641	2626
25°	2609	2580	2560
30°	2550	2512	2488
35°	2478	2431	2404
40°	2400	2344	2315
45°	2318	2252	2219
50°	2223	2155	2116
55°	2125	2051	2012
60°	2016	1935	1899
65°	1897	1809	1772
70°	1765	1670	1629
75°	1602	1512	1487
80°	1388	1313	1320
85°	1144	1130	1056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2318 cd/sqm

TEST NUMBER: P995648

CATALOG NUMBER: 24D3X-LP-WD-70-L940.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	3.7
10°-20°	543.5	10.6
20°-30°	801.0	15.6
30°-40°	927.3	18.1
40°-50°	915.5	17.9
50°-60°	784.2	15.3
60°-70°	566.9	11.1
70°-80°	312.5	6.1
80°-90°	84.2	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°	1536.7	30.0
0°-40°	2464.0	48.1
0°-60°	4163.7	81.2
0°-90°	5127.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5127.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	2026	2025	2024	2022	2022	192
15°	1935	1933	1928	1926	1924	546
25°	1757	1752	1738	1729	1724	809
35°	1509	1499	1480	1467	1464	943
45°	1218	1202	1183	1172	1166	939
55°	906	889	874	862	858	810
65°	596	582	568	559	556	591
75°	308	298	291	290	286	327
85°	74	74	73	68	68	87
90°	0	0	0	0	0	

TEST NUMBER: P995648

CATALOG NUMBER: 24D3X-LP-WD-70-L940.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2033.5	2033.5	2033.5	2033.5	2033.5
2.5°	2033.5	2033.5	2031.6	2031.6	2031.6
5°	2025.8	2024.8	2023.9	2021.9	2021.9
7.5°	2011.3	2011.3	2008.5	2008.5	2006.5
10°	1993.1	1991.1	1988.2	1988.2	1986.3
12.5°	1967.1	1965.1	1961.3	1960.3	1957.4
15°	1935.3	1933.4	1928.5	1925.7	1923.7
17.5°	1898.7	1895.8	1890.0	1885.2	1881.4
20°	1857.3	1853.4	1844.8	1839.0	1834.2
22.5°	1810.1	1806.3	1793.7	1787.0	1782.2
25°	1757.2	1752.3	1737.9	1729.2	1724.4
27.5°	1700.4	1694.6	1678.2	1668.6	1663.8
30°	1641.6	1633.0	1616.6	1605.0	1601.2
32.5°	1576.1	1567.5	1551.1	1537.6	1533.8
35°	1508.7	1499.1	1479.9	1467.3	1463.5
37.5°	1439.4	1426.9	1409.6	1397.1	1391.3
40°	1366.3	1353.7	1334.5	1321.0	1318.1
42.5°	1293.1	1277.7	1261.3	1247.8	1242.0
45°	1218.0	1201.6	1183.3	1171.8	1166.0
47.5°	1139.0	1123.6	1107.3	1093.8	1089.0
50°	1062.0	1045.6	1029.3	1016.7	1011.0
52.5°	983.0	966.7	951.3	940.7	934.9
55°	906.0	888.7	874.2	861.7	857.9
57.5°	828.0	812.6	796.3	784.7	781.8
60°	749.1	735.6	719.2	708.6	705.8
62.5°	673.0	659.5	644.1	633.5	628.7
65°	596.0	582.5	568.1	559.4	556.5
67.5°	520.9	508.4	495.9	487.2	485.3
70°	448.7	436.2	424.6	416.9	414.0
72.5°	376.5	367.8	356.2	351.4	348.5
75°	308.1	298.5	290.8	289.8	286.0
77.5°	241.7	240.7	228.2	226.3	226.3
80°	179.1	176.2	169.5	167.5	170.4
82.5°	123.2	121.3	117.5	116.5	115.5
85°	74.1	74.1	73.2	68.4	68.4
87.5°	33.7	32.7	31.8	32.7	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)