

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: P995651

Luminaire Tested: 24D3X-LP-WD-80-L835.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995651
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-80-L835.ies
Description: 2x4 D3X-LP AT 8000LM 3500K 80CRI
Light Source: -
Ballast/Driver: -

Summary

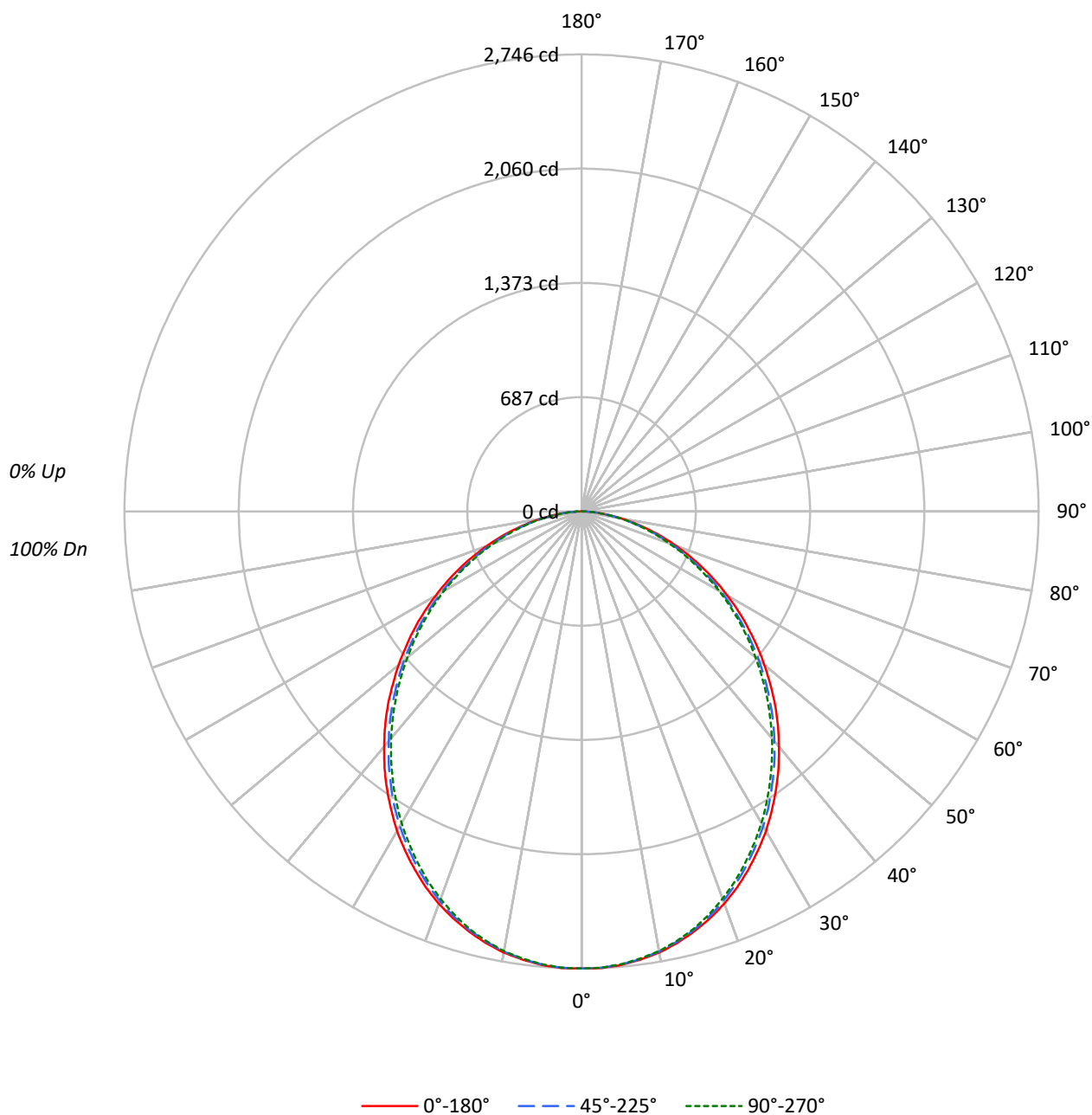
Lumens per Lamp: N/A
Luminaire Lumens: 6923.7 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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: P995651

CATALOG NUMBER: 24D3X-LP-WD-80-L835.ies

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°	3695	3695	3695
5°	3695	3691	3688
10°	3677	3668	3665
15°	3640	3628	3618
20°	3591	3567	3546
25°	3523	3484	3457
30°	3444	3392	3359
35°	3347	3282	3246
40°	3240	3165	3126
45°	3130	3040	2996
50°	3002	2909	2858
55°	2870	2769	2717
60°	2722	2613	2565
65°	2562	2442	2393
70°	2384	2256	2199
75°	2163	2041	2007
80°	1874	1773	1783
85°	1545	1525	1425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3130 cd/sqm

TEST NUMBER: P995651

CATALOG NUMBER: 24D3X-LP-WD-80-L835.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	3.7
10°-20°	734.0	10.6
20°-30°	1081.7	15.6
30°-40°	1252.2	18.1
40°-50°	1236.3	17.9
50°-60°	1058.9	15.3
60°-70°	765.6	11.1
70°-80°	422.0	6.1
80°-90°	113.6	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°	2075.0	30.0
0°-40°	3327.3	48.1
0°-60°	5622.4	81.2
0°-90°	6923.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6923.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2746	2746	2746	2746	2746	
5°	2736	2734	2733	2730	2730	260
15°	2613	2611	2604	2600	2598	737
25°	2373	2366	2347	2335	2329	1093
35°	2037	2024	1998	1981	1976	1274
45°	1645	1623	1598	1582	1574	1267
55°	1224	1200	1180	1164	1158	1094
65°	805	787	767	755	752	798
75°	416	403	393	391	386	441
85°	100	100	99	92	92	118
90°	0	0	0	0	0	

TEST NUMBER: P995651

CATALOG NUMBER: 24D3X-LP-WD-80-L835.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2745.9	2745.9	2745.9	2745.9	2745.9
2.5°	2745.9	2745.9	2743.3	2743.3	2743.3
5°	2735.5	2734.2	2732.9	2730.3	2730.3
7.5°	2716.0	2716.0	2712.1	2712.1	2709.5
10°	2691.3	2688.7	2684.8	2684.8	2682.2
12.5°	2656.2	2653.6	2648.4	2647.1	2643.2
15°	2613.3	2610.7	2604.2	2600.3	2597.7
17.5°	2563.9	2560.0	2552.2	2545.7	2540.5
20°	2508.0	2502.8	2491.1	2483.3	2476.8
22.5°	2444.3	2439.1	2422.2	2413.1	2406.6
25°	2372.8	2366.3	2346.8	2335.1	2328.6
27.5°	2296.1	2288.3	2266.2	2253.2	2246.7
30°	2216.8	2205.1	2183.0	2167.4	2162.2
32.5°	2128.4	2116.7	2094.6	2076.4	2071.2
35°	2037.4	2024.4	1998.3	1981.4	1976.2
37.5°	1943.7	1926.8	1903.4	1886.5	1878.7
40°	1844.9	1828.0	1802.0	1783.8	1779.9
42.5°	1746.1	1725.3	1703.2	1685.0	1677.2
45°	1644.7	1622.6	1597.9	1582.3	1574.5
47.5°	1538.1	1517.3	1495.2	1477.0	1470.5
50°	1434.1	1412.0	1389.9	1373.0	1365.2
52.5°	1327.5	1305.4	1284.6	1270.3	1262.5
55°	1223.5	1200.0	1180.5	1163.6	1158.4
57.5°	1118.1	1097.3	1075.2	1059.6	1055.7
60°	1011.5	993.3	971.2	956.9	953.0
62.5°	908.8	890.6	869.8	855.5	849.0
65°	804.8	786.6	767.1	755.4	751.5
67.5°	703.4	686.5	669.6	657.9	655.3
70°	605.9	589.0	573.4	563.0	559.1
72.5°	508.4	496.7	481.1	474.6	470.7
75°	416.1	403.1	392.6	391.3	386.1
77.5°	326.3	325.0	308.1	305.5	305.5
80°	241.8	237.9	228.8	226.2	230.1
82.5°	166.4	163.8	158.6	157.3	156.0
85°	100.1	100.1	98.8	92.3	92.3
87.5°	45.5	44.2	42.9	44.2	48.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)