

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: P995611

Luminaire Tested: 24D3X-LP-WD-45-L935.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995611
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-45-L935.ies
Description: 2x4 D3X-LP AT 4500LM 3500K 90CRI
Light Source: -
Ballast/Driver: -

Summary

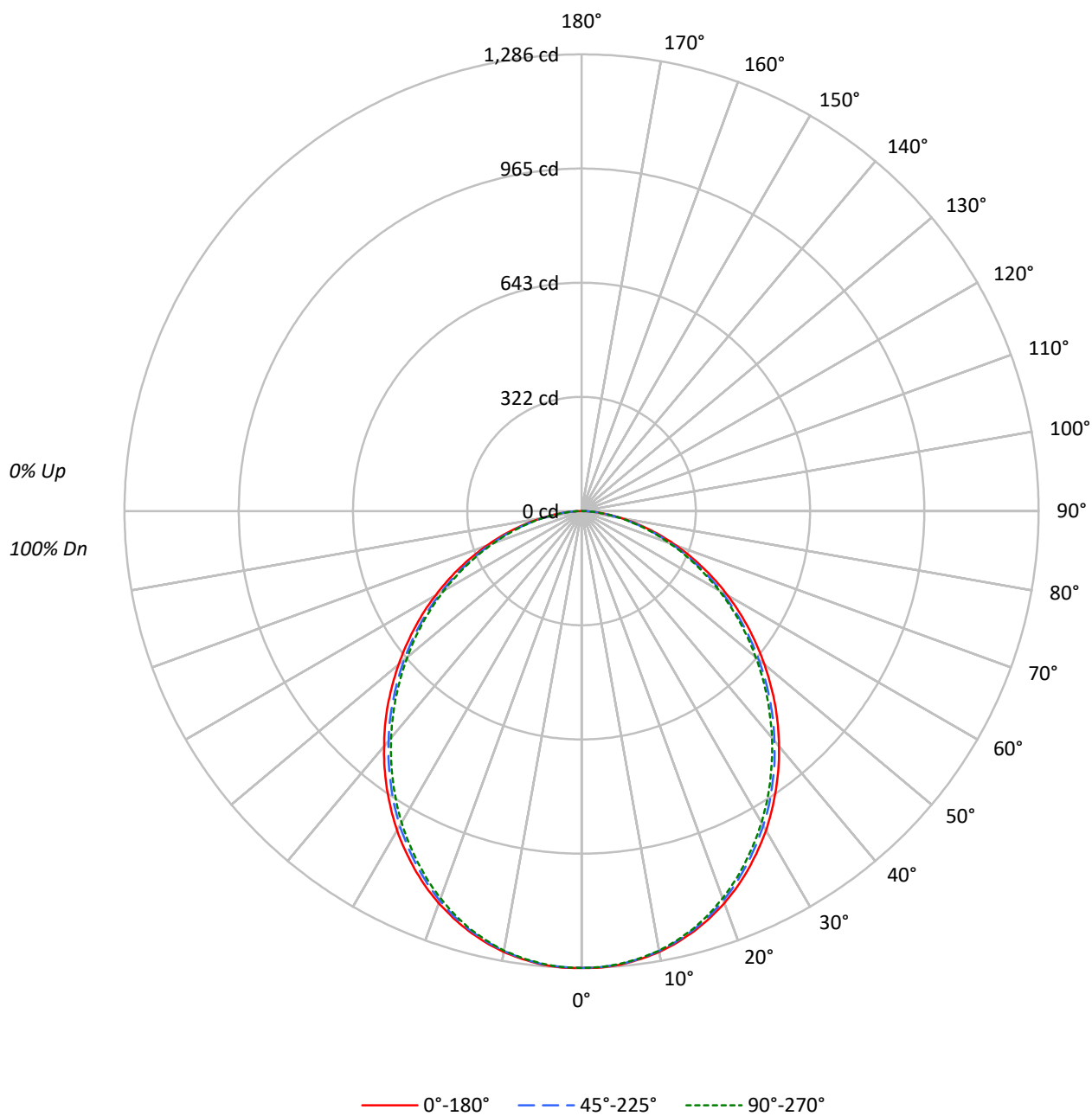
Lumens per Lamp: N/A
Luminaire Lumens: 3243.6 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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: P995611

CATALOG NUMBER: 24D3X-LP-WD-45-L935.ies

Luminous Intensity Polar Plot



TEST NUMBER: P995611

CATALOG NUMBER: 24D3X-LP-WD-45-L935.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°	1731	1731	1731
5°	1731	1729	1728
10°	1723	1718	1717
15°	1705	1699	1695
20°	1682	1671	1661
25°	1650	1632	1620
30°	1613	1589	1574
35°	1568	1538	1521
40°	1518	1483	1465
45°	1466	1424	1404
50°	1406	1363	1339
55°	1345	1297	1273
60°	1275	1224	1202
65°	1200	1144	1121
70°	1116	1057	1030
75°	1013	956	940
80°	878	831	835
85°	724	715	667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1466 cd/sqm

TEST NUMBER: P995611

CATALOG NUMBER: 24D3X-LP-WD-45-L935.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.7
10°-20°	343.9	10.6
20°-30°	506.7	15.6
30°-40°	586.6	18.1
40°-50°	579.2	17.9
50°-60°	496.1	15.3
60°-70°	358.7	11.1
70°-80°	197.7	6.1
80°-90°	53.2	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°	972.1	30.0
0°-40°	1558.8	48.1
0°-60°	2634.0	81.2
0°-90°	3243.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1282	1281	1280	1279	1279	122
15°	1224	1223	1220	1218	1217	345
25°	1112	1109	1099	1094	1091	512
35°	954	948	936	928	926	597
45°	770	760	749	741	738	594
55°	573	562	553	545	543	512
65°	377	368	359	354	352	374
75°	195	189	184	183	181	207
85°	47	47	46	43	43	55
90°	0	0	0	0	0	

TEST NUMBER: P995611

CATALOG NUMBER: 24D3X-LP-WD-45-L935.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.4	1286.4	1286.4	1286.4	1286.4
2.5°	1286.4	1286.4	1285.2	1285.2	1285.2
5°	1281.5	1280.9	1280.3	1279.1	1279.1
7.5°	1272.4	1272.4	1270.6	1270.6	1269.4
10°	1260.8	1259.6	1257.8	1257.8	1256.6
12.5°	1244.4	1243.2	1240.7	1240.1	1238.3
15°	1224.3	1223.1	1220.0	1218.2	1217.0
17.5°	1201.1	1199.3	1195.7	1192.6	1190.2
20°	1174.9	1172.5	1167.0	1163.4	1160.3
22.5°	1145.1	1142.7	1134.7	1130.5	1127.4
25°	1111.6	1108.6	1099.4	1093.9	1090.9
27.5°	1075.7	1072.0	1061.7	1055.6	1052.5
30°	1038.5	1033.0	1022.7	1015.4	1012.9
32.5°	997.1	991.6	981.3	972.7	970.3
35°	954.5	948.4	936.2	928.3	925.8
37.5°	910.6	902.7	891.7	883.8	880.1
40°	864.3	856.4	844.2	835.7	833.9
42.5°	818.0	808.3	797.9	789.4	785.7
45°	770.5	760.2	748.6	741.3	737.6
47.5°	720.6	710.8	700.5	691.9	688.9
50°	671.8	661.5	651.1	643.2	639.6
52.5°	621.9	611.5	601.8	595.1	591.4
55°	573.2	562.2	553.1	545.1	542.7
57.5°	523.8	514.1	503.7	496.4	494.6
60°	473.9	465.4	455.0	448.3	446.5
62.5°	425.8	417.2	407.5	400.8	397.7
65°	377.0	368.5	359.4	353.9	352.1
67.5°	329.5	321.6	313.7	308.2	307.0
70°	283.8	275.9	268.6	263.7	261.9
72.5°	238.2	232.7	225.4	222.3	220.5
75°	194.9	188.8	183.9	183.3	180.9
77.5°	152.9	152.3	144.4	143.1	143.1
80°	113.3	111.5	107.2	106.0	107.8
82.5°	78.0	76.7	74.3	73.7	73.1
85°	46.9	46.9	46.3	43.2	43.2
87.5°	21.3	20.7	20.1	20.7	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)