

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: P995622

Luminaire Tested: 24D3X-LP-WD-50-L950.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995622
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-L950.ies
Description: 2x4 D3X-LP AT 5000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

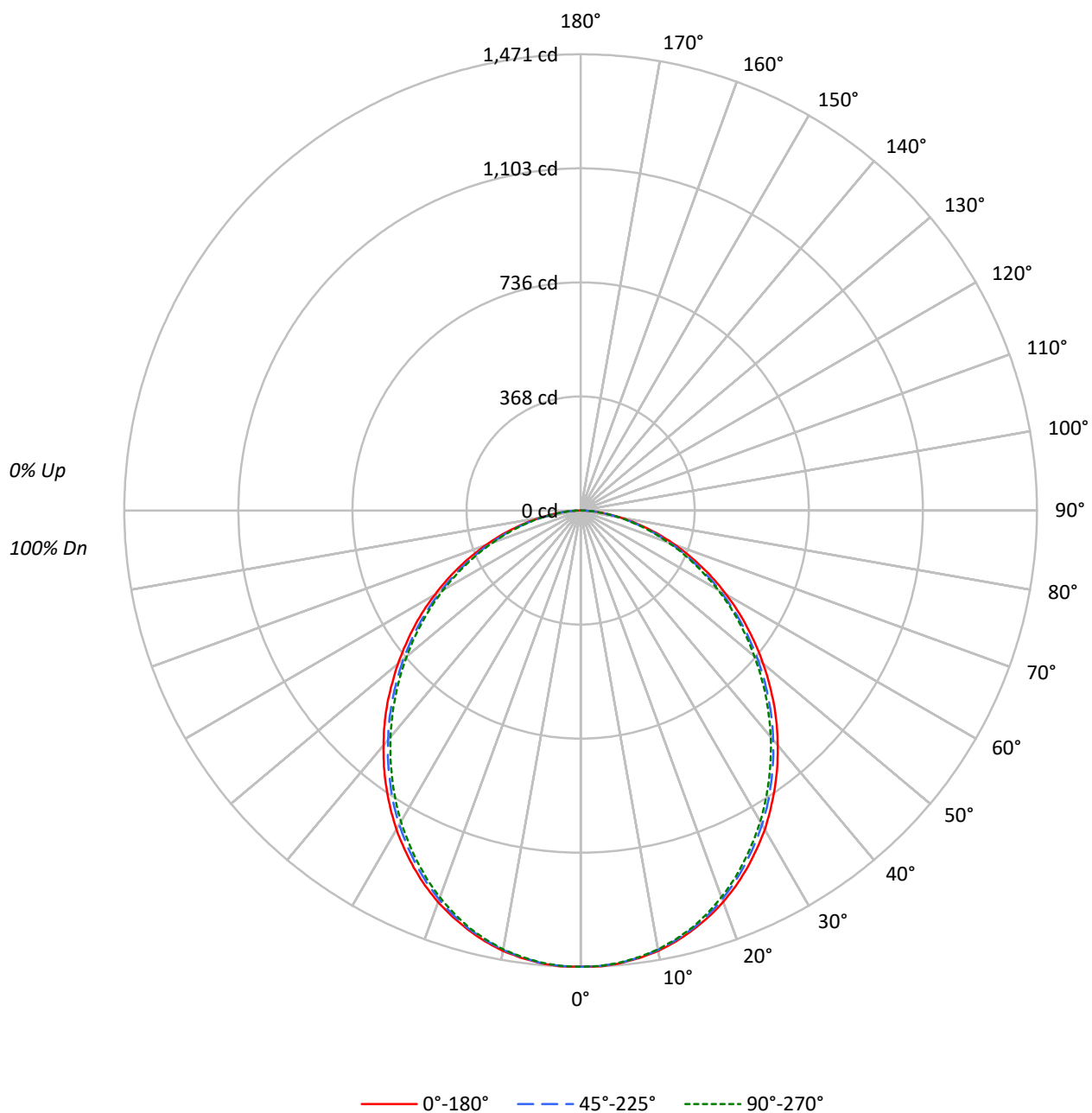
Lumens per Lamp: N/A
Luminaire Lumens: 3709.2 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1979	1979	1979
5°	1979	1977	1976
10°	1970	1965	1963
15°	1950	1943	1939
20°	1924	1911	1900
25°	1887	1866	1852
30°	1845	1817	1800
35°	1793	1759	1739
40°	1736	1696	1675
45°	1677	1629	1605
50°	1608	1559	1531
55°	1537	1484	1456
60°	1458	1400	1374
65°	1373	1309	1282
70°	1277	1209	1178
75°	1159	1094	1076
80°	1004	950	955
85°	827	817	764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1677 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.7
10°-20°	393.2	10.6
20°-30°	579.5	15.6
30°-40°	670.9	18.1
40°-50°	662.3	17.9
50°-60°	567.3	15.3
60°-70°	410.1	11.1
70°-80°	226.1	6.1
80°-90°	60.9	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°	1111.7	30.0
0°-40°	1782.5	48.1
0°-60°	3012.1	81.2
0°-90°	3709.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3709.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1466	1465	1464	1463	1463	139
15°	1400	1399	1395	1393	1392	395
25°	1271	1268	1257	1251	1248	585
35°	1092	1084	1071	1062	1059	682
45°	881	869	856	848	844	679
55°	655	643	632	623	621	586
65°	431	421	411	405	403	427
75°	223	216	210	210	207	237
85°	54	54	53	50	50	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1471.1	1471.1	1471.1	1471.1	1471.1
2.5°	1471.1	1471.1	1469.7	1469.7	1469.7
5°	1465.5	1464.8	1464.1	1462.7	1462.7
7.5°	1455.1	1455.1	1453.0	1453.0	1451.6
10°	1441.8	1440.4	1438.3	1438.3	1436.9
12.5°	1423.0	1421.6	1418.8	1418.1	1416.1
15°	1400.0	1398.6	1395.2	1393.1	1391.7
17.5°	1373.6	1371.5	1367.3	1363.8	1361.0
20°	1343.6	1340.8	1334.6	1330.4	1326.9
22.5°	1309.5	1306.7	1297.6	1292.8	1289.3
25°	1271.2	1267.7	1257.2	1251.0	1247.5
27.5°	1230.1	1225.9	1214.1	1207.1	1203.6
30°	1187.6	1181.3	1169.5	1161.1	1158.3
32.5°	1140.2	1134.0	1122.1	1112.4	1109.6
35°	1091.5	1084.5	1070.6	1061.5	1058.7
37.5°	1041.3	1032.3	1019.7	1010.7	1006.5
40°	988.4	979.3	965.4	955.6	953.6
42.5°	935.4	924.3	912.5	902.7	898.5
45°	881.1	869.3	856.0	847.7	843.5
47.5°	824.0	812.9	801.0	791.3	787.8
50°	768.3	756.4	744.6	735.5	731.4
52.5°	711.2	699.3	688.2	680.5	676.3
55°	655.4	642.9	632.5	623.4	620.6
57.5°	599.0	587.9	576.0	567.7	565.6
60°	541.9	532.2	520.3	512.6	510.6
62.5°	486.9	477.1	466.0	458.3	454.8
65°	431.2	421.4	411.0	404.7	402.6
67.5°	376.8	367.8	358.7	352.4	351.1
70°	324.6	315.5	307.2	301.6	299.5
72.5°	272.3	266.1	257.7	254.2	252.1
75°	222.9	215.9	210.4	209.7	206.9
77.5°	174.8	174.1	165.1	163.7	163.7
80°	129.6	127.5	122.6	121.2	123.3
82.5°	89.2	87.8	85.0	84.3	83.6
85°	53.6	53.6	52.9	49.5	49.5
87.5°	24.4	23.7	23.0	23.7	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)