

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: P995540

Luminaire Tested: 22D3X-LP-WD-50-L940.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-WD-50-L940.ies
Description: 2x2 D3X-LP AT 5000LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

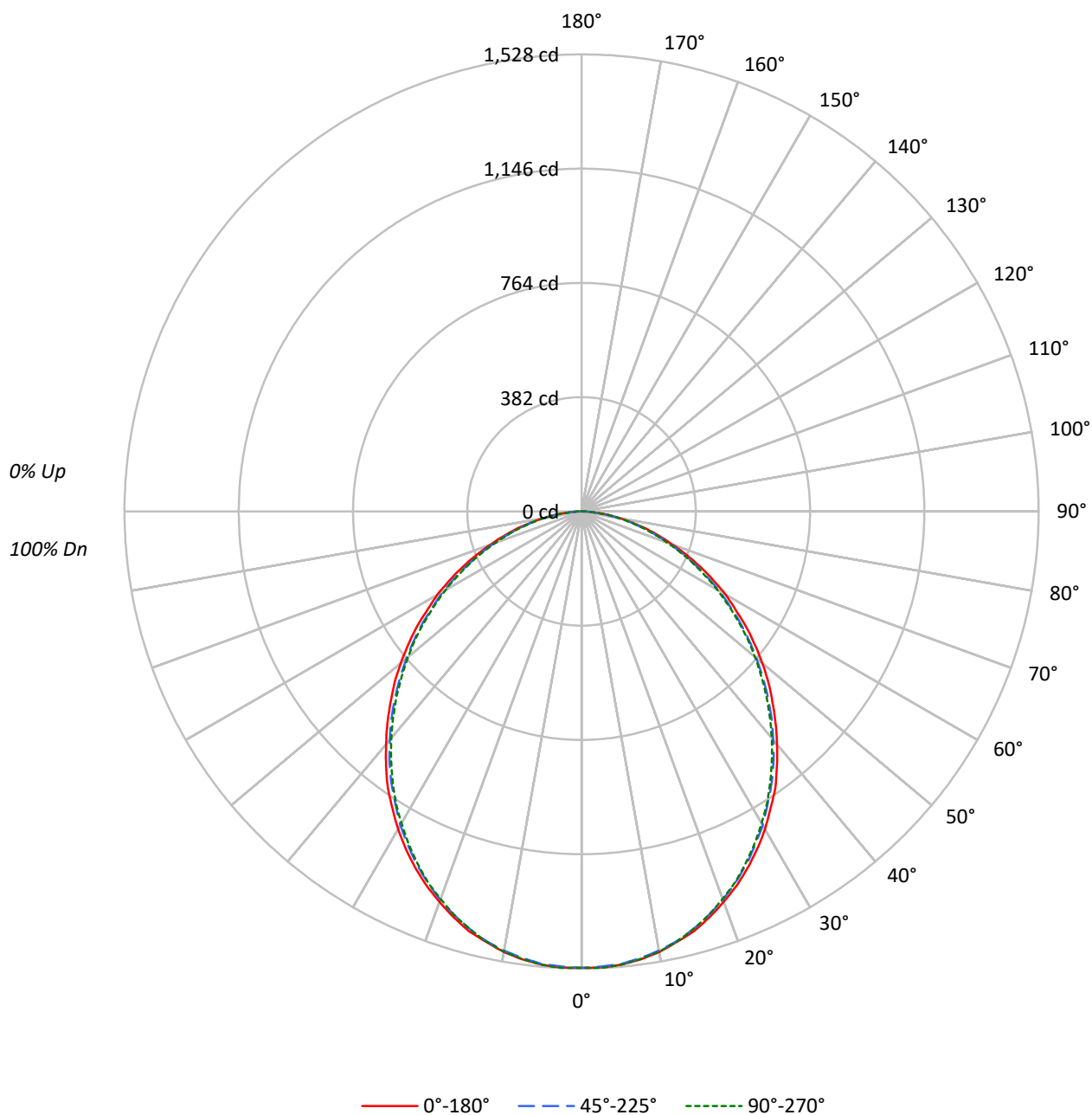
Lumens per Lamp: N/A
Luminaire Lumens: 3813.3 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	4106	4106	4106
5°	4110	4102	4110
10°	4087	4074	4083
15°	4048	4027	4027
20°	3978	3956	3948
25°	3904	3868	3854
30°	3811	3764	3741
35°	3710	3640	3615
40°	3572	3503	3476
45°	3436	3355	3326
50°	3302	3194	3169
55°	3152	3038	2995
60°	2994	2863	2822
65°	2787	2652	2623
70°	2547	2452	2392
75°	2323	2180	2197
80°	2002	1884	1908
85°	1550	1501	1408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	3.8
10°-20°	407.6	10.7
20°-30°	600.3	15.7
30°-40°	694.4	18.2
40°-50°	682.7	17.9
50°-60°	581.8	15.3
60°-70°	416.9	10.9
70°-80°	226.4	5.9
80°-90°	59.1	1.5
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°	1152.0	30.2
0°-40°	1846.4	48.4
0°-60°	3110.9	81.6
0°-90°	3813.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3813.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1521	1518	1518	1518	1521	144
15°	1453	1447	1445	1444	1445	409
25°	1315	1309	1303	1300	1298	605
35°	1129	1120	1108	1102	1100	704
45°	903	897	882	874	874	697
55°	672	660	648	640	638	600
65°	438	429	416	412	412	434
75°	223	216	210	207	211	236
85°	50	50	49	47	46	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1526.0	1526.0	1526.0	1526.0	1526.0
2.5°	1526.0	1524.5	1522.9	1524.5	1527.5
5°	1521.4	1518.4	1518.4	1518.4	1521.4
7.5°	1510.8	1507.7	1506.2	1507.7	1509.3
10°	1495.6	1492.5	1491.0	1492.5	1494.1
12.5°	1474.3	1472.8	1471.3	1471.3	1472.8
15°	1453.0	1447.0	1445.4	1443.9	1445.4
17.5°	1422.6	1421.1	1415.0	1415.0	1415.0
20°	1389.2	1386.2	1381.6	1378.6	1378.6
22.5°	1354.2	1351.2	1343.6	1340.6	1342.1
25°	1314.7	1308.6	1302.6	1299.5	1298.0
27.5°	1272.2	1266.1	1257.0	1252.4	1252.4
30°	1226.6	1222.0	1211.4	1205.3	1203.8
32.5°	1176.4	1173.4	1158.2	1155.1	1155.1
35°	1129.3	1120.2	1108.0	1101.9	1100.4
37.5°	1073.1	1067.0	1054.8	1047.2	1045.7
40°	1016.8	1009.2	997.1	991.0	989.5
42.5°	960.6	953.0	940.8	933.2	931.7
45°	902.8	896.7	881.5	873.9	873.9
47.5°	848.1	835.9	822.3	816.2	814.7
50°	788.8	778.2	763.0	756.9	756.9
52.5°	729.6	722.0	705.2	702.2	699.2
55°	671.8	659.6	647.5	639.9	638.4
57.5°	609.5	598.8	586.7	580.6	580.6
60°	556.3	542.6	532.0	524.4	524.4
62.5°	495.5	483.3	472.7	468.1	466.6
65°	437.7	428.6	416.5	411.9	411.9
67.5°	380.0	372.4	361.7	357.2	358.7
70°	323.7	319.2	311.6	305.5	304.0
72.5°	272.1	266.0	258.4	256.9	256.9
75°	223.4	215.8	209.7	206.7	211.3
77.5°	173.3	168.7	165.7	164.2	165.7
80°	129.2	123.1	121.6	123.1	123.1
82.5°	89.7	86.6	85.1	85.1	85.1
85°	50.2	50.2	48.6	47.1	45.6
87.5°	19.8	19.8	21.3	21.3	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)