

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: P995526

Luminaire Tested: 22D3X-LP-WD-45-L840.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995526
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-45-L840.ies
Description: 2x2 D3X-LP AT 4500LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

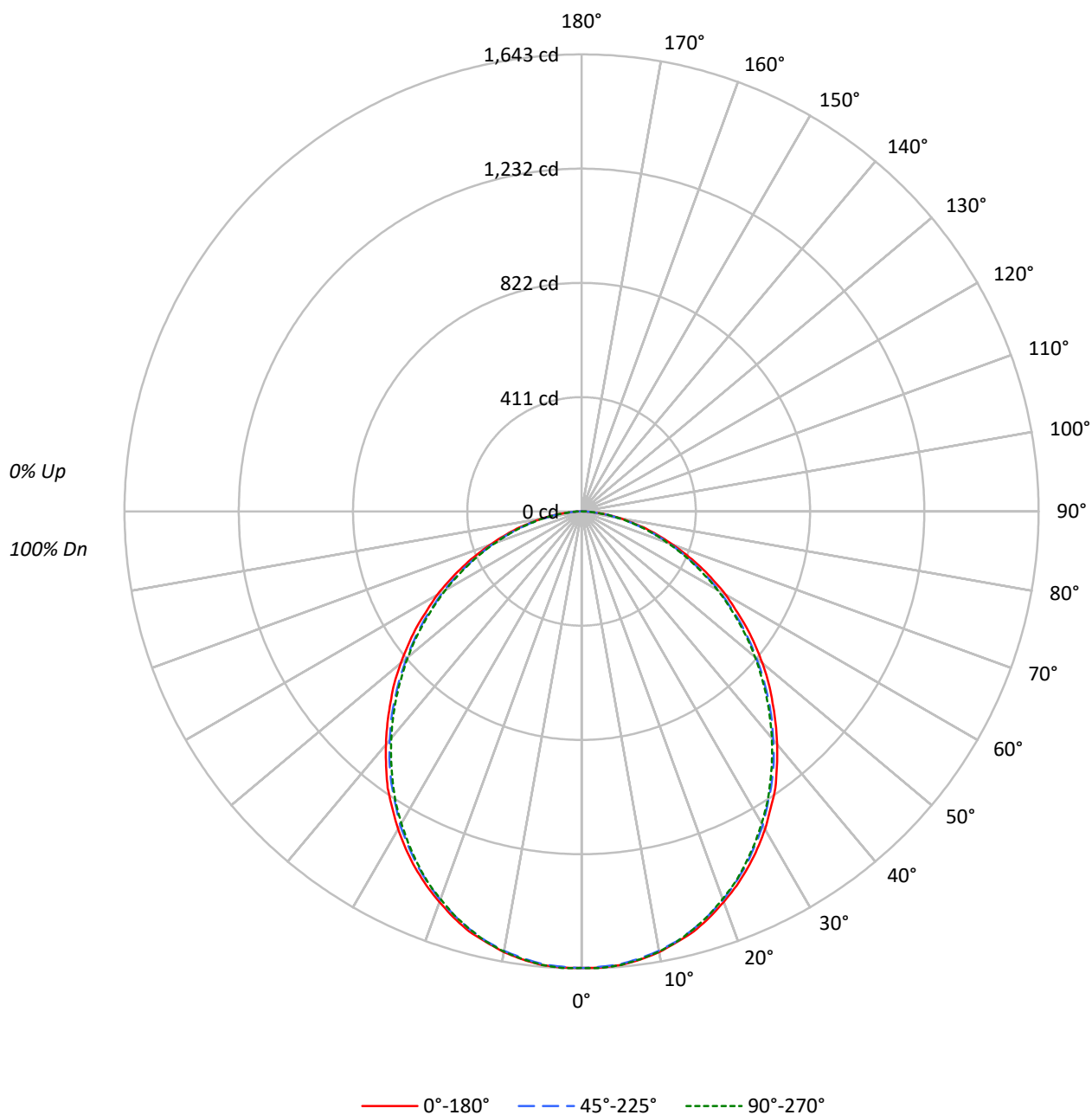
Lumens per Lamp: N/A
Luminaire Lumens: 4101.3 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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°	4416	4416	4416
5°	4420	4411	4420
10°	4395	4382	4391
15°	4354	4331	4331
20°	4279	4255	4246
25°	4198	4160	4145
30°	4099	4048	4023
35°	3990	3915	3888
40°	3842	3767	3738
45°	3695	3608	3577
50°	3552	3435	3408
55°	3390	3267	3221
60°	3220	3079	3035
65°	2998	2852	2821
70°	2740	2637	2572
75°	2498	2346	2362
80°	2152	2027	2052
85°	1664	1615	1513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3695 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	3.8
10°-20°	438.4	10.7
20°-30°	645.6	15.7
30°-40°	746.9	18.2
40°-50°	734.3	17.9
50°-60°	625.8	15.3
60°-70°	448.4	10.9
70°-80°	243.5	5.9
80°-90°	63.5	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°	1239.0	30.2
0°-40°	1985.9	48.4
0°-60°	3345.9	81.6
0°-90°	4101.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4101.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1636	1633	1633	1633	1636	155
15°	1563	1556	1555	1553	1555	440
25°	1414	1408	1401	1398	1396	651
35°	1215	1205	1192	1185	1184	757
45°	971	964	948	940	940	750
55°	722	710	696	688	687	645
65°	471	461	448	443	443	466
75°	240	232	226	222	227	254
85°	54	54	52	51	49	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1641.2	1641.2	1641.2	1641.2	1641.2
2.5°	1641.2	1639.6	1638.0	1639.6	1642.9
5°	1636.3	1633.1	1633.1	1633.1	1636.3
7.5°	1624.9	1621.6	1620.0	1621.6	1623.3
10°	1608.5	1605.3	1603.6	1605.3	1606.9
12.5°	1585.7	1584.0	1582.4	1582.4	1584.0
15°	1562.8	1556.2	1554.6	1553.0	1554.6
17.5°	1530.1	1528.4	1521.9	1521.9	1521.9
20°	1494.1	1490.8	1485.9	1482.7	1482.7
22.5°	1456.5	1453.2	1445.1	1441.8	1443.4
25°	1414.0	1407.5	1400.9	1397.7	1396.0
27.5°	1368.2	1361.7	1351.9	1347.0	1347.0
30°	1319.2	1314.3	1302.9	1296.3	1294.7
32.5°	1265.3	1262.0	1245.6	1242.4	1242.4
35°	1214.6	1204.8	1191.7	1185.2	1183.5
37.5°	1154.1	1147.6	1134.5	1126.3	1124.7
40°	1093.6	1085.4	1072.4	1065.8	1064.2
42.5°	1033.1	1025.0	1011.9	1003.7	1002.1
45°	971.0	964.5	948.1	940.0	940.0
47.5°	912.2	899.1	884.4	877.8	876.2
50°	848.4	837.0	820.6	814.1	814.1
52.5°	784.7	776.5	758.5	755.2	752.0
55°	722.5	709.5	696.4	688.2	686.6
57.5°	655.5	644.1	631.0	624.5	624.5
60°	598.3	583.6	572.1	564.0	564.0
62.5°	532.9	519.8	508.4	503.5	501.9
65°	470.8	461.0	447.9	443.0	443.0
67.5°	408.7	400.5	389.1	384.2	385.8
70°	348.2	343.3	335.1	328.6	326.9
72.5°	292.6	286.1	277.9	276.3	276.3
75°	240.3	232.1	225.6	222.3	227.2
77.5°	186.4	181.5	178.2	176.5	178.2
80°	138.9	132.4	130.8	132.4	132.4
82.5°	96.4	93.2	91.5	91.5	91.5
85°	53.9	53.9	52.3	50.7	49.0
87.5°	21.3	21.3	22.9	22.9	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)