

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: P995527

Luminaire Tested: 22D3X-LP-WD-45-L850.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995527
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-L850.ies
Description: 2x2 D3X-LP AT 4500LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

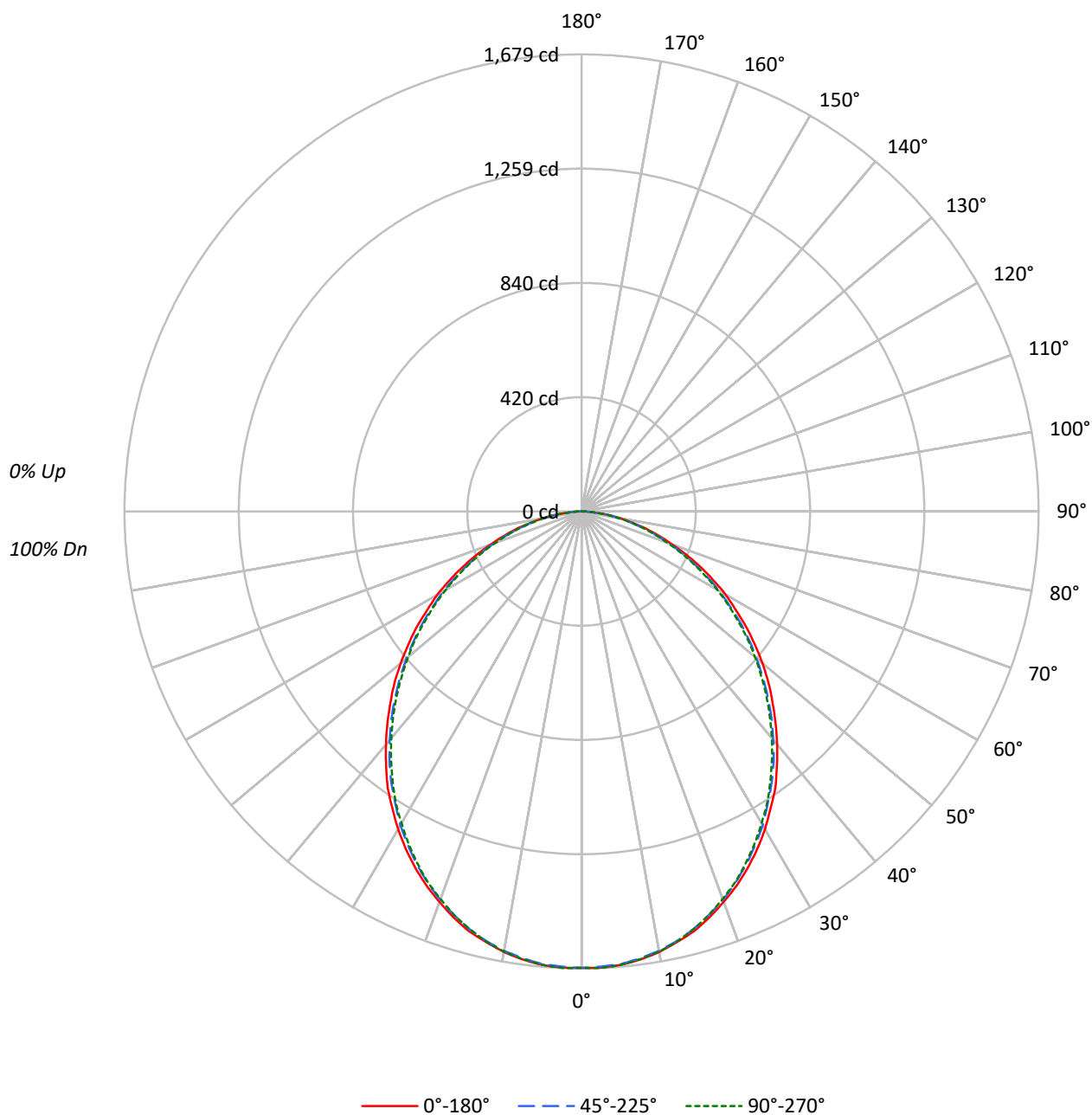
Lumens per Lamp: N/A
Luminaire Lumens: 4190.8 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4513	4513	4513
5°	4517	4508	4517
10°	4491	4477	4487
15°	4449	4425	4425
20°	4372	4348	4338
25°	4290	4250	4236
30°	4189	4137	4111
35°	4077	4000	3973
40°	3926	3849	3820
45°	3776	3687	3655
50°	3629	3510	3482
55°	3464	3339	3292
60°	3291	3146	3102
65°	3063	2914	2883
70°	2799	2694	2629
75°	2552	2397	2414
80°	2201	2070	2097
85°	1701	1652	1547

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3776 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	3.8
10°-20°	447.9	10.7
20°-30°	659.7	15.7
30°-40°	763.2	18.2
40°-50°	750.3	17.9
50°-60°	639.4	15.3
60°-70°	458.1	10.9
70°-80°	248.8	5.9
80°-90°	64.9	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°	1266.1	30.2
0°-40°	2029.2	48.4
0°-60°	3418.9	81.6
0°-90°	4190.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4190.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1677	1677	1677	1677	1677	
5°	1672	1669	1669	1669	1672	159
15°	1597	1590	1588	1587	1588	449
25°	1445	1438	1432	1428	1426	665
35°	1241	1231	1218	1211	1209	774
45°	992	986	969	960	960	766
55°	738	725	712	703	702	659
65°	481	471	458	453	453	477
75°	246	237	230	227	232	259
85°	55	55	54	52	50	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1677.0	1677.0	1677.0	1677.0	1677.0
2.5°	1677.0	1675.4	1673.7	1675.4	1678.7
5°	1672.0	1668.7	1668.7	1668.7	1672.0
7.5°	1660.3	1657.0	1655.3	1657.0	1658.7
10°	1643.6	1640.3	1638.6	1640.3	1642.0
12.5°	1620.3	1618.6	1616.9	1616.9	1618.6
15°	1596.9	1590.2	1588.5	1586.8	1588.5
17.5°	1563.5	1561.8	1555.1	1555.1	1555.1
20°	1526.7	1523.4	1518.4	1515.0	1515.0
22.5°	1488.3	1485.0	1476.6	1473.3	1474.9
25°	1444.9	1438.2	1431.5	1428.2	1426.5
27.5°	1398.1	1391.4	1381.4	1376.4	1376.4
30°	1348.0	1343.0	1331.3	1324.6	1322.9
32.5°	1292.9	1289.5	1272.8	1269.5	1269.5
35°	1241.1	1231.1	1217.7	1211.0	1209.3
37.5°	1179.3	1172.6	1159.2	1150.9	1149.2
40°	1117.5	1109.1	1095.8	1089.1	1087.4
42.5°	1055.7	1047.3	1034.0	1025.6	1023.9
45°	992.2	985.5	968.8	960.5	960.5
47.5°	932.1	918.7	903.7	897.0	895.3
50°	866.9	855.2	838.5	831.8	831.8
52.5°	801.8	793.4	775.0	771.7	768.4
55°	738.3	724.9	711.6	703.2	701.6
57.5°	669.8	658.1	644.8	638.1	638.1
60°	611.4	596.3	584.6	576.3	576.3
62.5°	544.5	531.2	519.5	514.5	512.8
65°	481.1	471.0	457.7	452.7	452.7
67.5°	417.6	409.2	397.5	392.5	394.2
70°	355.8	350.8	342.4	335.7	334.1
72.5°	299.0	292.3	284.0	282.3	282.3
75°	245.5	237.2	230.5	227.2	232.2
77.5°	190.4	185.4	182.1	180.4	182.1
80°	142.0	135.3	133.6	135.3	135.3
82.5°	98.6	95.2	93.5	93.5	93.5
85°	55.1	55.1	53.5	51.8	50.1
87.5°	21.7	21.7	23.4	23.4	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)