

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: P995549

Luminaire Tested: 22D3X-LP-WD-55-L940.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995549
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-55-L940.ies
Description: 2x2 D3X-LP AT 5500LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

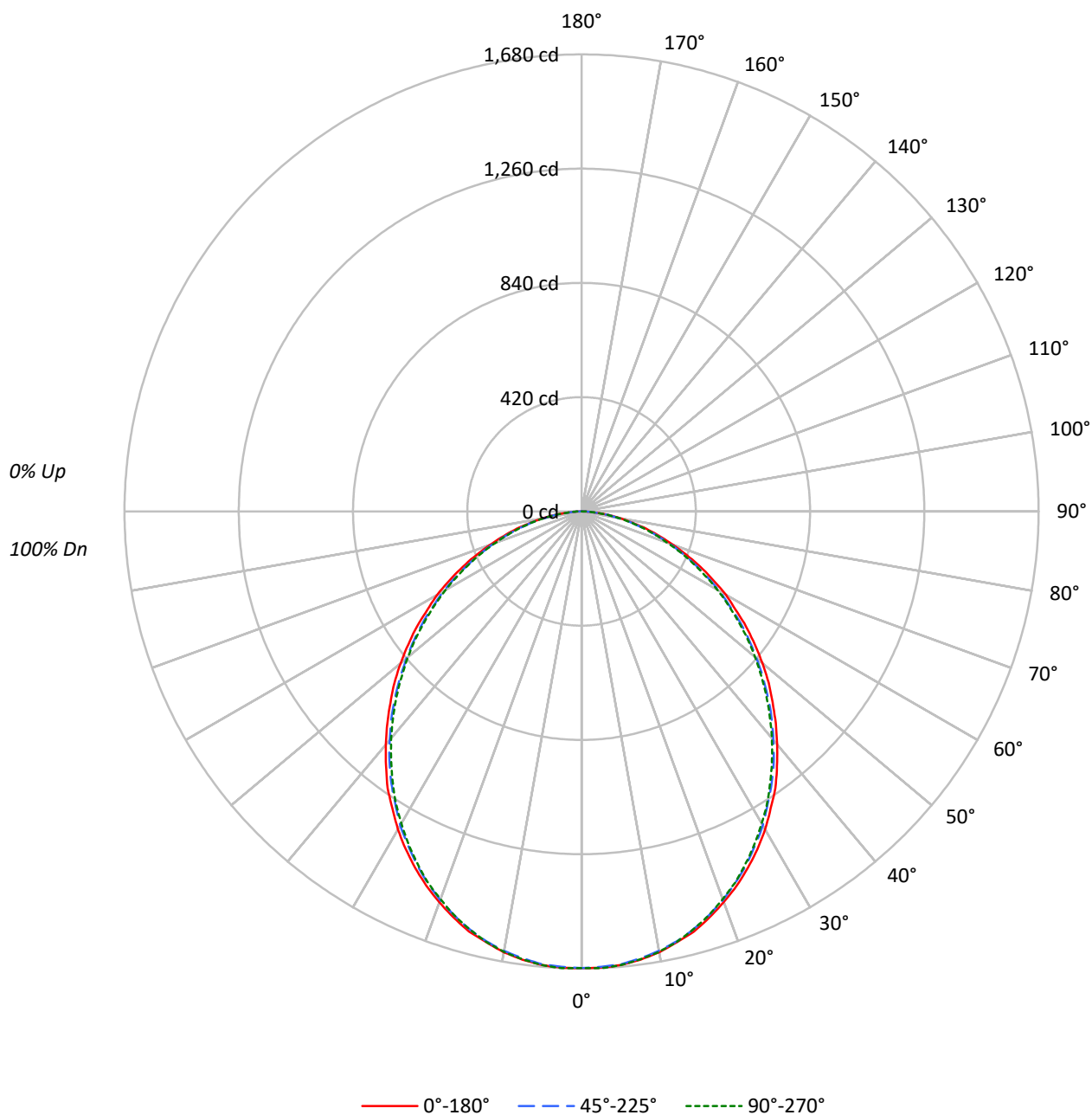
Lumens per Lamp: N/A
Luminaire Lumens: 4194.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.4
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°	4517	4517	4517
5°	4521	4512	4521
10°	4496	4482	4491
15°	4453	4430	4430
20°	4376	4353	4343
25°	4294	4255	4240
30°	4193	4141	4115
35°	4081	4004	3977
40°	3929	3853	3824
45°	3780	3691	3659
50°	3633	3514	3486
55°	3467	3342	3294
60°	3294	3150	3104
65°	3066	2917	2885
70°	2802	2697	2631
75°	2556	2399	2416
80°	2202	2073	2098
85°	1704	1652	1550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3780 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.8
10°-20°	448.4	10.7
20°-30°	660.4	15.7
30°-40°	763.9	18.2
40°-50°	751.0	17.9
50°-60°	640.0	15.3
60°-70°	458.6	10.9
70°-80°	249.1	5.9
80°-90°	65.0	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°	1267.3	30.2
0°-40°	2031.2	48.4
0°-60°	3422.3	81.6
0°-90°	4194.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4194.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1674	1670	1670	1670	1674	159
15°	1598	1592	1590	1588	1590	450
25°	1446	1440	1433	1430	1428	666
35°	1242	1232	1219	1212	1210	775
45°	993	986	970	961	961	767
55°	739	726	712	704	702	660
65°	482	472	458	453	453	477
75°	246	237	231	227	232	260
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°	1678.7	1678.7	1678.7	1678.7	1678.7
2.5°	1678.7	1677.0	1675.4	1677.0	1680.4
5°	1673.7	1670.3	1670.3	1670.3	1673.7
7.5°	1662.0	1658.6	1657.0	1658.6	1660.3
10°	1645.3	1641.9	1640.2	1641.9	1643.6
12.5°	1621.8	1620.2	1618.5	1618.5	1620.2
15°	1598.4	1591.8	1590.1	1588.4	1590.1
17.5°	1565.0	1563.3	1556.6	1556.6	1556.6
20°	1528.2	1524.9	1519.9	1516.5	1516.5
22.5°	1489.8	1486.4	1478.1	1474.7	1476.4
25°	1446.3	1439.6	1432.9	1429.6	1427.9
27.5°	1399.5	1392.8	1382.7	1377.7	1377.7
30°	1349.3	1344.3	1332.6	1325.9	1324.2
32.5°	1294.1	1290.8	1274.1	1270.7	1270.7
35°	1242.3	1232.3	1218.9	1212.2	1210.5
37.5°	1180.4	1173.7	1160.4	1152.0	1150.3
40°	1118.6	1110.2	1096.8	1090.1	1088.5
42.5°	1056.7	1048.3	1035.0	1026.6	1024.9
45°	993.2	986.5	969.8	961.4	961.4
47.5°	933.0	919.6	904.6	897.9	896.2
50°	867.8	856.1	839.3	832.7	832.7
52.5°	802.6	794.2	775.8	772.5	769.1
55°	739.0	725.7	712.3	703.9	702.2
57.5°	670.5	658.8	645.4	638.7	638.7
60°	612.0	596.9	585.2	576.8	576.8
62.5°	545.1	531.7	520.0	515.0	513.3
65°	481.5	471.5	458.1	453.1	453.1
67.5°	418.0	409.6	397.9	392.9	394.6
70°	356.1	351.1	342.8	336.1	334.4
72.5°	299.3	292.6	284.2	282.6	282.6
75°	245.8	237.4	230.7	227.4	232.4
77.5°	190.6	185.6	182.2	180.6	182.2
80°	142.1	135.4	133.8	135.4	135.4
82.5°	98.6	95.3	93.6	93.6	93.6
85°	55.2	55.2	53.5	51.8	50.2
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)