

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: P601120

Luminaire Tested: 22D3X-LP-50-L935

Issue Date: 10/5/2023

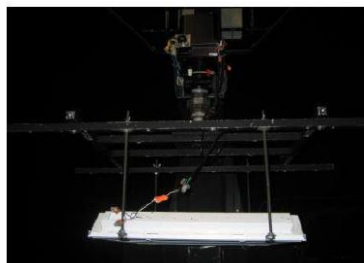
Test Information

Test Method: LM-79-2019
Report Number: P601120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-50-L935
Description: 2x2 D3X-LP AT 5000LM 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

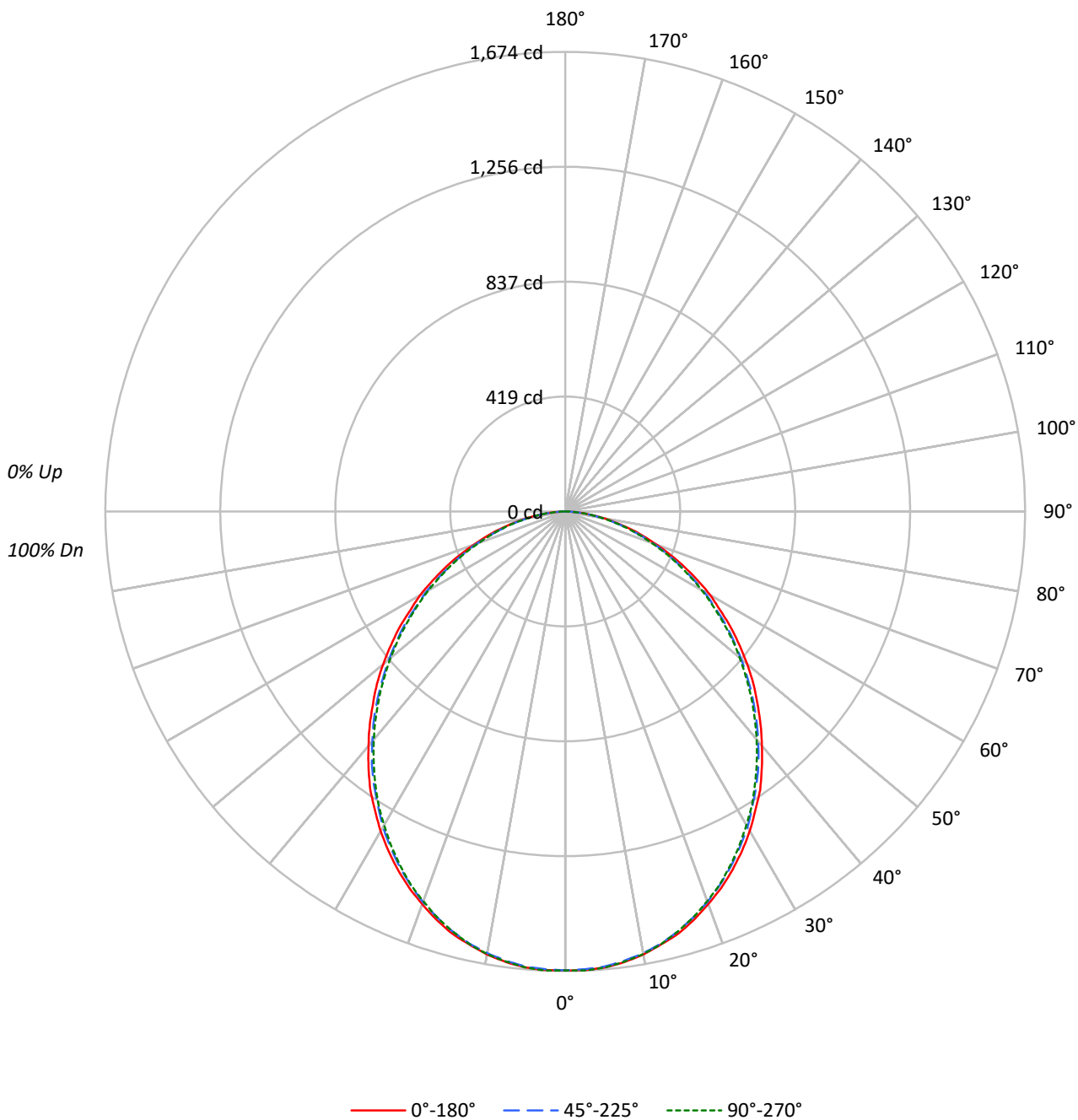
Lumens per Lamp: N/A
Luminaire Lumens: 4178.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4499	4499	4499
5°	4503	4494	4503
10°	4477	4464	4473
15°	4435	4412	4412
20°	4359	4335	4325
25°	4277	4237	4222
30°	4176	4124	4098
35°	4065	3988	3961
40°	3914	3837	3808
45°	3765	3676	3644
50°	3618	3500	3472
55°	3453	3328	3281
60°	3280	3137	3092
65°	3054	2905	2874
70°	2791	2686	2621
75°	2545	2389	2407
80°	2193	2064	2091
85°	1698	1646	1544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	3.8
10°-20°	446.6	10.7
20°-30°	657.7	15.7
30°-40°	760.8	18.2
40°-50°	748.0	17.9
50°-60°	637.4	15.3
60°-70°	456.7	10.9
70°-80°	248.1	5.9
80°-90°	64.7	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°	1262.2	30.2
0°-40°	2023.0	48.4
0°-60°	3408.5	81.6
0°-90°	4178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1667	1664	1664	1664	1667	158
15°	1592	1585	1584	1582	1584	448
25°	1440	1434	1427	1424	1422	663
35°	1237	1227	1214	1207	1206	772
45°	989	982	966	958	958	764
55°	736	723	709	701	699	657
65°	480	470	456	451	451	475
75°	245	236	230	226	232	259
85°	55	55	53	52	50	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1671.9	1671.9	1671.9	1671.9	1671.9
2.5°	1671.9	1670.3	1668.6	1670.3	1673.6
5°	1666.9	1663.6	1663.6	1663.6	1666.9
7.5°	1655.3	1651.9	1650.3	1651.9	1653.6
10°	1638.6	1635.3	1633.6	1635.3	1637.0
12.5°	1615.3	1613.6	1612.0	1612.0	1613.6
15°	1592.0	1585.3	1583.7	1582.0	1583.7
17.5°	1558.7	1557.0	1550.4	1550.4	1550.4
20°	1522.1	1518.7	1513.7	1510.4	1510.4
22.5°	1483.8	1480.4	1472.1	1468.8	1470.4
25°	1440.5	1433.8	1427.1	1423.8	1422.1
27.5°	1393.8	1387.2	1377.2	1372.2	1372.2
30°	1343.9	1338.9	1327.2	1320.6	1318.9
32.5°	1288.9	1285.6	1268.9	1265.6	1265.6
35°	1237.3	1227.3	1214.0	1207.3	1205.7
37.5°	1175.7	1169.0	1155.7	1147.4	1145.7
40°	1114.1	1105.7	1092.4	1085.8	1084.1
42.5°	1052.5	1044.1	1030.8	1022.5	1020.8
45°	989.2	982.5	965.9	957.5	957.5
47.5°	929.2	915.9	900.9	894.3	892.6
50°	864.3	852.6	836.0	829.3	829.3
52.5°	799.3	791.0	772.7	769.4	766.0
55°	736.0	722.7	709.4	701.1	699.4
57.5°	667.8	656.1	642.8	636.1	636.1
60°	609.5	594.5	582.8	574.5	574.5
62.5°	542.9	529.6	517.9	512.9	511.2
65°	479.6	469.6	456.3	451.3	451.3
67.5°	416.3	408.0	396.3	391.3	393.0
70°	354.7	349.7	341.4	334.7	333.1
72.5°	298.1	291.4	283.1	281.4	281.4
75°	244.8	236.5	229.8	226.5	231.5
77.5°	189.8	184.8	181.5	179.8	181.5
80°	141.5	134.9	133.2	134.9	134.9
82.5°	98.3	94.9	93.3	93.3	93.3
85°	55.0	55.0	53.3	51.6	50.0
87.5°	21.6	21.6	23.3	23.3	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)