

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: P601121

Luminaire Tested: 22D3X-LP-50-L940

Issue Date: 10/5/2023

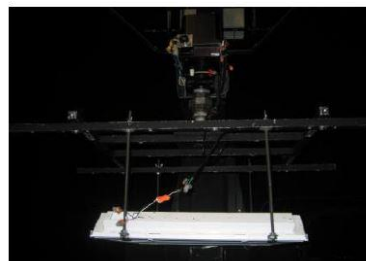
Test Information

Test Method: LM-79-2019
Report Number: P601121
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-L940
Description: 2x2 D3X-LP AT 5000LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

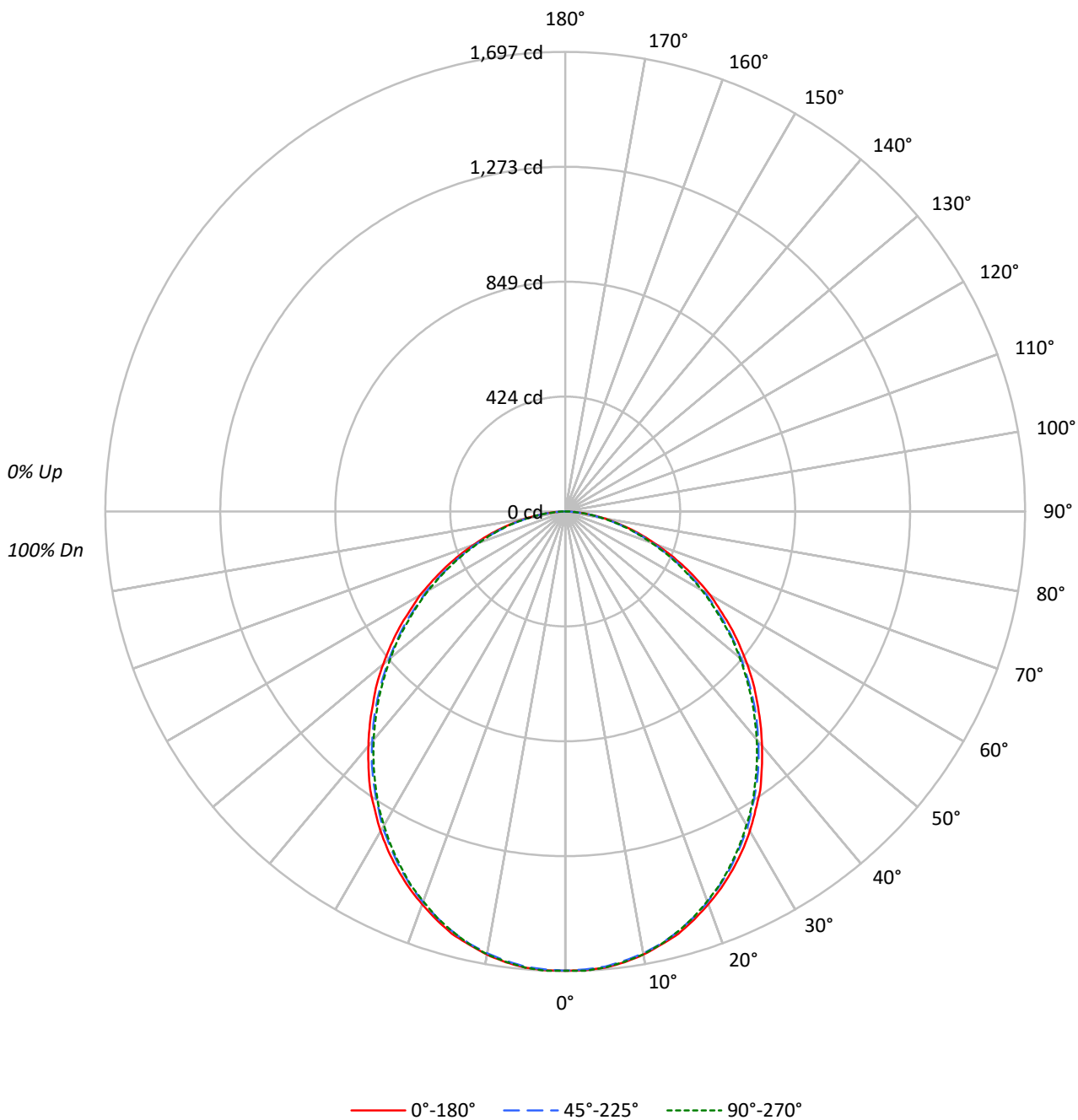
Lumens per Lamp: N/A
Luminaire Lumens: 4237.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P601121
CATALOG NUMBER: 22D3X-LP-50-L940

Luminous Intensity Polar Plot





TEST NUMBER: P601121
 CATALOG NUMBER: 22D3X-LP-50-L940

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°	4563	4563	4563
5°	4566	4557	4566
10°	4541	4527	4536
15°	4498	4474	4474
20°	4420	4396	4386
25°	4337	4297	4282
30°	4235	4182	4156
35°	4122	4044	4017
40°	3969	3892	3862
45°	3817	3728	3696
50°	3669	3549	3521
55°	3502	3375	3328
60°	3327	3181	3136
65°	3097	2946	2914
70°	2830	2724	2658
75°	2582	2424	2440
80°	2224	2094	2120
85°	1720	1667	1565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3817 cd/sqm



TEST NUMBER: P601121
 CATALOG NUMBER: 22D3X-LP-50-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	3.8
10°-20°	452.9	10.7
20°-30°	667.0	15.7
30°-40°	771.6	18.2
40°-50°	758.6	17.9
50°-60°	646.5	15.3
60°-70°	463.2	10.9
70°-80°	251.6	5.9
80°-90°	65.6	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°	1280.0	30.2
0°-40°	2051.6	48.4
0°-60°	3456.6	81.6
0°-90°	4237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1690	1687	1687	1687	1690	160
15°	1614	1608	1606	1604	1606	454
25°	1461	1454	1447	1444	1442	672
35°	1255	1245	1231	1224	1223	783
45°	1003	996	980	971	971	775
55°	746	733	719	711	709	666
65°	486	476	463	458	458	482
75°	248	240	233	230	235	262
85°	56	56	54	52	51	68
90°	0	0	0	0	0	



TEST NUMBER: P601121
 CATALOG NUMBER: 22D3X-LP-50-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1695.5	1695.5	1695.5	1695.5	1695.5
2.5°	1695.5	1693.9	1692.2	1693.9	1697.2
5°	1690.5	1687.1	1687.1	1687.1	1690.5
7.5°	1678.7	1675.3	1673.6	1675.3	1677.0
10°	1661.8	1658.4	1656.7	1658.4	1660.1
12.5°	1638.1	1636.4	1634.7	1634.7	1636.4
15°	1614.5	1607.7	1606.0	1604.3	1606.0
17.5°	1580.7	1579.0	1572.3	1572.3	1572.3
20°	1543.6	1540.2	1535.1	1531.7	1531.7
22.5°	1504.7	1501.3	1492.9	1489.5	1491.2
25°	1460.8	1454.0	1447.3	1443.9	1442.2
27.5°	1413.5	1406.8	1396.6	1391.6	1391.6
30°	1362.9	1357.8	1346.0	1339.2	1337.5
32.5°	1307.1	1303.7	1286.9	1283.5	1283.5
35°	1254.8	1244.6	1231.1	1224.4	1222.7
37.5°	1192.3	1185.5	1172.0	1163.6	1161.9
40°	1129.8	1121.4	1107.8	1101.1	1099.4
42.5°	1067.3	1058.9	1045.4	1036.9	1035.2
45°	1003.1	996.4	979.5	971.1	971.1
47.5°	942.3	928.8	913.6	906.9	905.2
50°	876.5	864.7	847.8	841.0	841.0
52.5°	810.6	802.2	783.6	780.2	776.8
55°	746.4	732.9	719.4	711.0	709.3
57.5°	677.2	665.4	651.9	645.1	645.1
60°	618.1	602.9	591.1	582.6	582.6
62.5°	550.5	537.0	525.2	520.1	518.5
65°	486.4	476.2	462.7	457.7	457.7
67.5°	422.2	413.8	401.9	396.9	398.6
70°	359.7	354.6	346.2	339.4	337.8
72.5°	302.3	295.5	287.1	285.4	285.4
75°	248.3	239.8	233.1	229.7	234.7
77.5°	192.5	187.5	184.1	182.4	184.1
80°	143.5	136.8	135.1	136.8	136.8
82.5°	99.6	96.3	94.6	94.6	94.6
85°	55.7	55.7	54.0	52.4	50.7
87.5°	22.0	22.0	23.6	23.6	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)