

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: METALUX

Report Number: P#

Luminaire Tested: 22D3X-LP-80-L927.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P#
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: METALUX
Catalog Number: 22D3X-LP-80-L927.ies
Description: 2x2 D3X-LP AT 8000LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

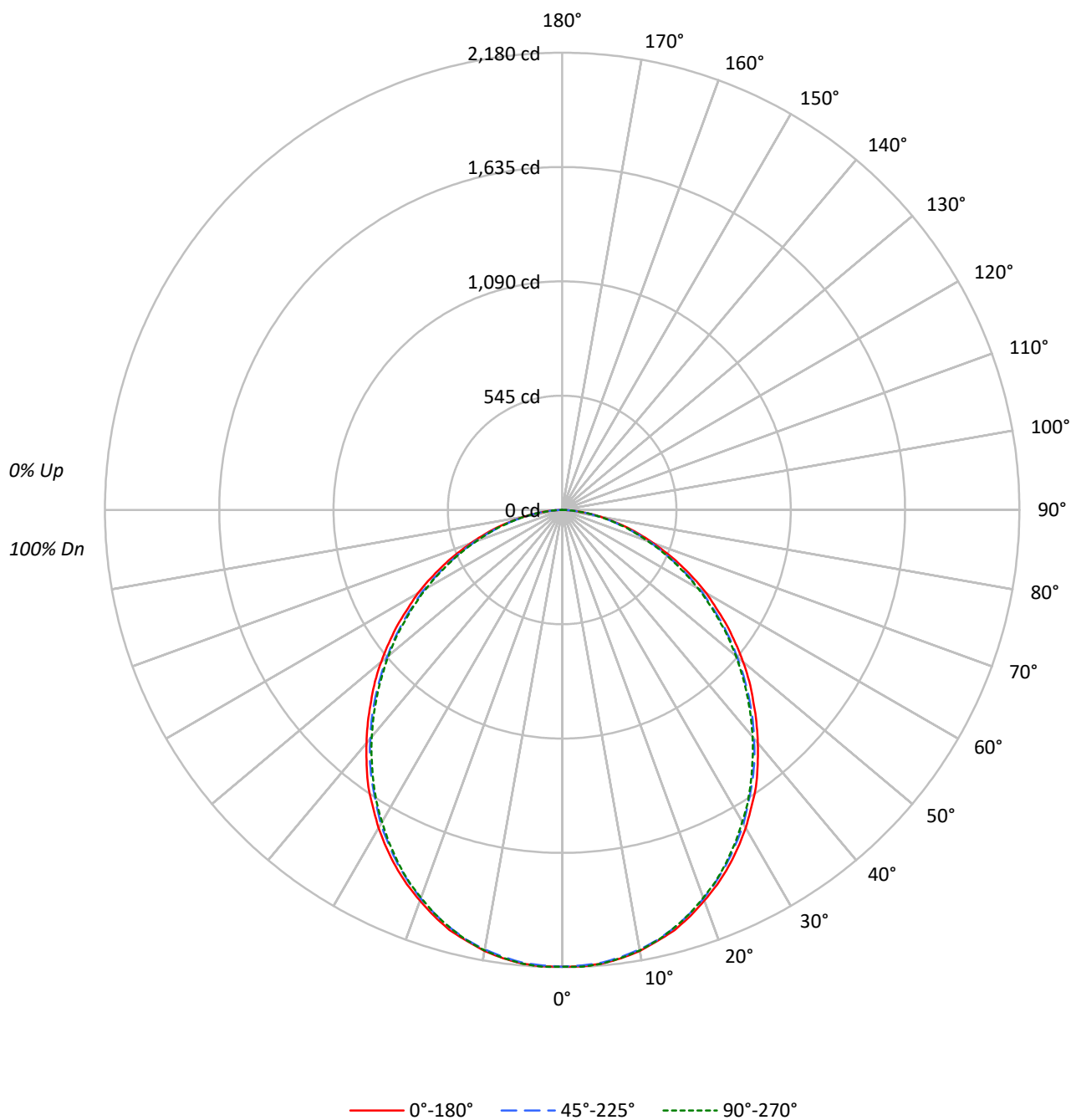
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5441.8 lumens
Efficiency: N/A
Efficacy: 74.1 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): 73.4
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

TEST NUMBER: P#
CATALOG NUMBER: 22D3X-LP-80-L927.ies

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-80-L927.ies

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		58
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48
8	62	49	40	34	60	48	40	34	47	39	34		45	39	34		44
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5860	5860	5860
5°	5865	5853	5865
10°	5832	5814	5826
15°	5777	5746	5746
20°	5677	5646	5634
25°	5571	5519	5500
30°	5439	5372	5338
35°	5294	5194	5159
40°	5097	4998	4960
45°	4903	4787	4746
50°	4713	4558	4522
55°	4498	4335	4274
60°	4272	4085	4027
65°	3978	3784	3743
70°	3635	3498	3413
75°	3315	3112	3135
80°	2858	2689	2723
85°	2211	2143	2010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4903 cd/sqm

TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-80-L927.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	3.8
10°-20°	581.6	10.7
20°-30°	856.6	15.7
30°-40°	991.0	18.2
40°-50°	974.2	17.9
50°-60°	830.3	15.3
60°-70°	594.9	10.9
70°-80°	323.1	5.9
80°-90°	84.3	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°	1644.0	30.2
0°-40°	2635.0	48.4
0°-60°	4439.5	81.6
0°-90°	5441.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5441.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2178	2178	2178	2178	2178	
5°	2171	2167	2167	2167	2171	206
15°	2074	2065	2063	2060	2063	584
25°	1876	1868	1859	1854	1852	864
35°	1612	1598	1581	1572	1570	1005
45°	1288	1280	1258	1247	1247	995
55°	959	941	924	913	911	856
65°	625	612	594	588	588	619
75°	319	308	299	295	302	337
85°	72	72	69	67	65	87
90°	0	0	0	0	0	

TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-80-L927.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2177.7	2177.7	2177.7	2177.7	2177.7
2.5°	2177.7	2175.5	2173.3	2175.5	2179.8
5°	2171.2	2166.8	2166.8	2166.8	2171.2
7.5°	2156.0	2151.6	2149.5	2151.6	2153.8
10°	2134.3	2129.9	2127.8	2129.9	2132.1
12.5°	2103.9	2101.7	2099.6	2099.6	2101.7
15°	2073.5	2064.9	2062.7	2060.5	2062.7
17.5°	2030.2	2028.0	2019.3	2019.3	2019.3
20°	1982.5	1978.1	1971.6	1967.3	1967.3
22.5°	1932.6	1928.2	1917.4	1913.0	1915.2
25°	1876.2	1867.5	1858.8	1854.5	1852.3
27.5°	1815.4	1806.8	1793.7	1787.2	1787.2
30°	1750.4	1743.9	1728.7	1720.0	1717.8
32.5°	1678.8	1674.5	1652.8	1648.4	1648.4
35°	1611.6	1598.5	1581.2	1572.5	1570.3
37.5°	1531.3	1522.6	1505.3	1494.4	1492.3
40°	1451.0	1440.2	1422.9	1414.2	1412.0
42.5°	1370.8	1360.0	1342.6	1331.8	1329.6
45°	1288.4	1279.7	1258.0	1247.2	1247.2
47.5°	1210.3	1192.9	1173.4	1164.7	1162.6
50°	1125.7	1110.5	1088.8	1080.2	1080.2
52.5°	1041.1	1030.3	1006.4	1002.1	997.7
55°	958.7	941.3	924.0	913.1	911.0
57.5°	869.8	854.6	837.2	828.6	828.6
60°	793.8	774.3	759.1	748.3	748.3
62.5°	707.1	689.7	674.6	668.0	665.9
65°	624.7	611.7	594.3	587.8	587.8
67.5°	542.2	531.4	516.2	509.7	511.9
70°	462.0	455.5	444.6	436.0	433.8
72.5°	388.2	379.6	368.7	366.6	366.6
75°	318.8	308.0	299.3	295.0	301.5
77.5°	247.3	240.8	236.4	234.3	236.4
80°	184.4	175.7	173.5	175.7	175.7
82.5°	128.0	123.6	121.5	121.5	121.5
85°	71.6	71.6	69.4	67.2	65.1
87.5°	28.2	28.2	30.4	30.4	32.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-80-L927.ies

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.1	18.7	17.5	19.0	19.3	16.9	18.5	17.2	18.8	19.1
	3H	18.8	20.2	19.2	20.5	20.9	18.5	19.9	18.9	20.3	20.6
	4H	19.4	20.7	19.8	21.1	21.5	19.1	20.4	19.5	20.8	21.2
	6H	19.8	21.0	20.2	21.4	21.8	19.5	20.8	19.9	21.1	21.5
	8H	19.9	21.1	20.4	21.5	21.9	19.6	20.8	20.1	21.2	21.6
	12H	20.0	21.1	20.4	21.5	22.0	19.7	20.8	20.1	21.2	21.7
4H	2H	17.7	19.0	18.1	19.4	19.7	17.5	18.8	17.9	19.2	19.5
	3H	19.5	20.7	19.9	21.1	21.5	19.3	20.4	19.7	20.8	21.2
	4H	20.3	21.3	20.7	21.7	22.1	20.0	21.0	20.4	21.4	21.9
	6H	20.8	21.7	21.2	22.1	22.6	20.5	21.4	21.0	21.9	22.3
	8H	21.0	21.8	21.4	22.2	22.7	20.7	21.5	21.2	22.0	22.4
	12H	21.1	21.8	21.6	22.3	22.8	20.8	21.6	21.3	22.0	22.5
8H	4H	20.5	21.3	21.0	21.8	22.2	20.3	21.1	20.7	21.5	22.0
	6H	21.1	21.8	21.6	22.3	22.8	20.9	21.6	21.4	22.1	22.6
	8H	21.4	22.0	21.9	22.5	23.0	21.2	21.8	21.7	22.3	22.8
	12H	21.6	22.1	22.1	22.6	23.2	21.3	21.9	21.8	22.4	22.9
12H	4H	20.5	21.3	21.0	21.7	22.2	20.3	21.0	20.8	21.5	22.0
	6H	21.2	21.8	21.7	22.3	22.8	21.0	21.6	21.5	22.1	22.6
	8H	21.5	22.0	22.0	22.5	23.1	21.3	21.8	21.8	22.3	22.9



(END OF REPORT)