

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-L950.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-L950.ies
Description: 2x2 D3X-LP AT 8000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

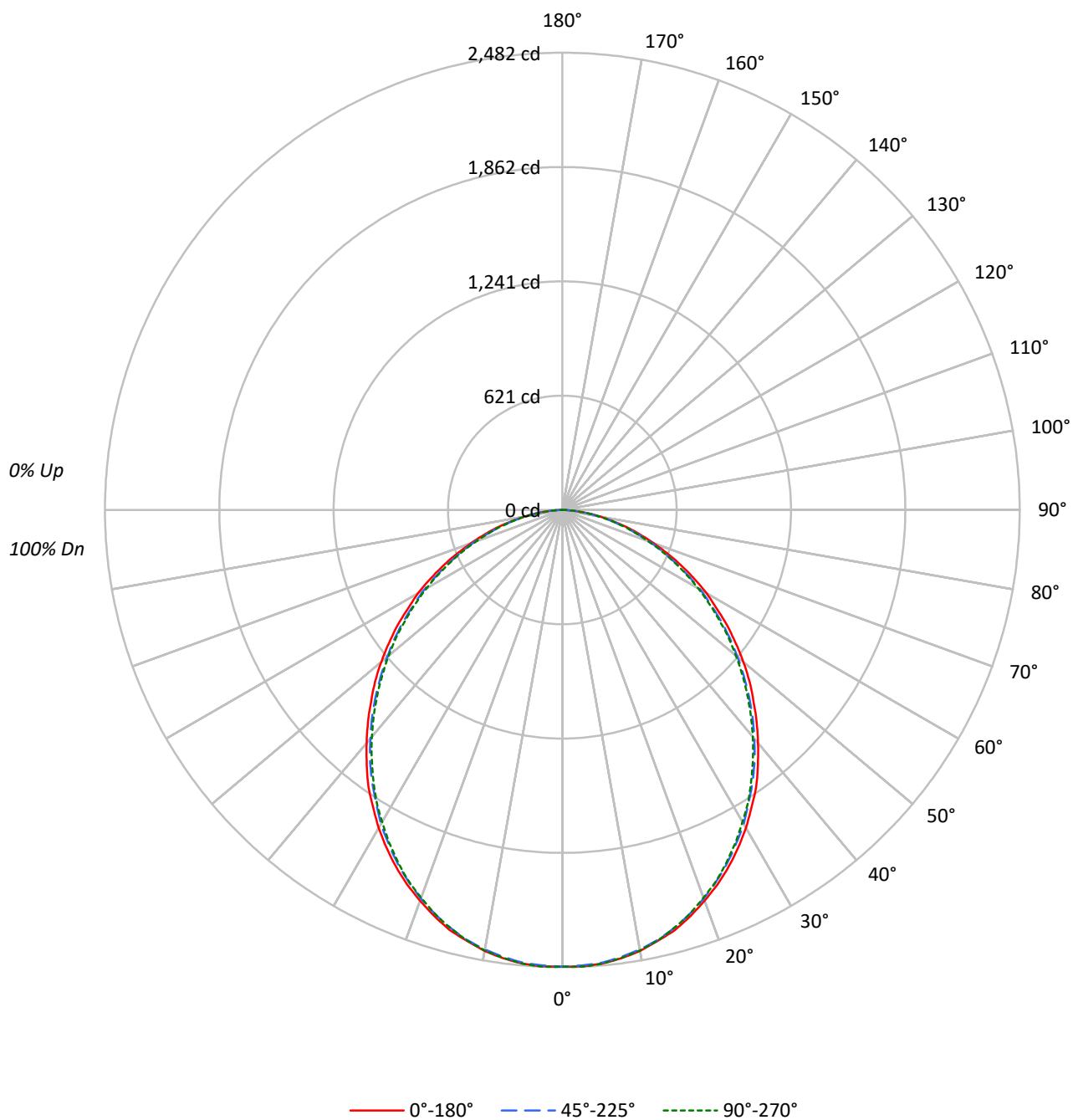
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6195.9 lumens
Efficiency: N/A
Efficacy: 84.4 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): 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

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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
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°	6672	6672	6672
5°	6678	6664	6678
10°	6640	6620	6633
15°	6577	6543	6543
20°	6464	6428	6414
25°	6343	6284	6262
30°	6192	6116	6078
35°	6028	5914	5874
40°	5804	5691	5648
45°	5582	5451	5404
50°	5366	5190	5148
55°	5121	4936	4866
60°	4865	4652	4585
65°	4528	4309	4262
70°	4139	3984	3886
75°	3774	3543	3569
80°	3253	3062	3099
85°	2516	2439	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	3.8
10°-20°	662.2	10.7
20°-30°	975.4	15.7
30°-40°	1128.3	18.2
40°-50°	1109.2	17.9
50°-60°	945.3	15.3
60°-70°	677.3	10.9
70°-80°	367.9	5.9
80°-90°	96.0	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°	1871.8	30.2
0°-40°	3000.1	48.4
0°-60°	5054.7	81.6
0°-90°	6195.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6195.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2479	2479	2479	2479	2479	
5°	2472	2467	2467	2467	2472	235
15°	2361	2351	2349	2346	2349	664
25°	2136	2126	2116	2112	2109	983
35°	1835	1820	1800	1790	1788	1144
45°	1467	1457	1432	1420	1420	1133
55°	1092	1072	1052	1040	1037	975
65°	711	696	677	669	669	705
75°	363	351	341	336	343	383
85°	82	82	79	77	74	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2479.4	2479.4	2479.4	2479.4	2479.4
2.5°	2479.4	2477.0	2474.5	2477.0	2481.9
5°	2472.0	2467.1	2467.1	2467.1	2472.0
7.5°	2454.7	2449.8	2447.3	2449.8	2452.3
10°	2430.1	2425.1	2422.6	2425.1	2427.6
12.5°	2395.5	2393.0	2390.5	2390.5	2393.0
15°	2360.9	2351.0	2348.6	2346.1	2348.6
17.5°	2311.5	2309.0	2299.2	2299.2	2299.2
20°	2257.2	2252.2	2244.8	2239.9	2239.9
22.5°	2200.4	2195.4	2183.1	2178.2	2180.6
25°	2136.2	2126.3	2116.4	2111.5	2109.0
27.5°	2067.0	2057.1	2042.3	2034.9	2034.9
30°	1992.9	1985.5	1968.2	1958.4	1955.9
32.5°	1911.4	1906.5	1881.8	1876.9	1876.9
35°	1834.9	1820.1	1800.3	1790.4	1788.0
37.5°	1743.5	1733.6	1713.9	1701.5	1699.1
40°	1652.1	1639.8	1620.0	1610.2	1607.7
42.5°	1560.8	1548.4	1528.7	1516.3	1513.8
45°	1466.9	1457.0	1432.3	1420.0	1420.0
47.5°	1378.0	1358.3	1336.0	1326.2	1323.7
50°	1281.7	1264.4	1239.7	1229.8	1229.8
52.5°	1185.4	1173.0	1145.9	1140.9	1136.0
55°	1091.5	1071.8	1052.0	1039.7	1037.2
57.5°	990.3	973.0	953.3	943.4	943.4
60°	903.9	881.6	864.3	852.0	852.0
62.5°	805.1	785.3	768.0	760.6	758.2
65°	711.2	696.4	676.7	669.3	669.3
67.5°	617.4	605.0	587.8	580.3	582.8
70°	526.0	518.6	506.3	496.4	493.9
72.5°	442.1	432.2	419.8	417.4	417.4
75°	363.0	350.7	340.8	335.9	343.3
77.5°	281.5	274.1	269.2	266.7	269.2
80°	209.9	200.0	197.6	200.0	200.0
82.5°	145.7	140.8	138.3	138.3	138.3
85°	81.5	81.5	79.0	76.6	74.1
87.5°	32.1	32.1	34.6	34.6	37.0
90°	0.0	0.0	0.0	0.0	0.0

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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	17.6	19.2	17.9	19.5	19.8	17.3	18.9	17.7	19.2	19.6
	3H	19.2	20.7	19.6	21.0	21.4	18.9	20.4	19.3	20.7	21.1
	4H	19.8	21.2	20.2	21.5	21.9	19.5	20.9	19.9	21.2	21.6
	6H	20.2	21.5	20.7	21.9	22.3	20.0	21.2	20.4	21.6	22.0
	8H	20.4	21.6	20.8	22.0	22.4	20.1	21.3	20.5	21.7	22.1
	12H	20.5	21.6	20.9	22.0	22.4	20.2	21.3	20.6	21.7	22.1
4H	2H	18.1	19.5	18.5	19.8	20.2	17.9	19.3	18.3	19.6	20.0
	3H	20.0	21.1	20.4	21.5	21.9	19.7	20.9	20.2	21.3	21.7
	4H	20.7	21.7	21.1	22.1	22.6	20.4	21.5	20.9	21.9	22.3
	6H	21.2	22.1	21.7	22.6	23.0	21.0	21.9	21.4	22.3	22.8
	8H	21.4	22.2	21.9	22.7	23.2	21.2	22.0	21.6	22.4	22.9
	12H	21.5	22.3	22.0	22.7	23.2	21.3	22.0	21.7	22.5	23.0
8H	4H	21.0	21.8	21.4	22.2	22.7	20.7	21.6	21.2	22.0	22.5
	6H	21.6	22.3	22.1	22.8	23.2	21.4	22.1	21.9	22.6	23.0
	8H	21.8	22.4	22.3	23.0	23.4	21.6	22.2	22.1	22.7	23.2
	12H	22.0	22.6	22.5	23.0	23.6	21.8	22.3	22.3	22.8	23.4
12H	4H	21.0	21.7	21.5	22.2	22.7	20.7	21.5	21.2	22.0	22.4
	6H	21.6	22.3	22.2	22.7	23.3	21.4	22.1	21.9	22.5	23.0
	8H	21.9	22.5	22.4	23.0	23.5	21.7	22.3	22.2	22.7	23.3

(END OF REPORT)