

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-25-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-25-L950.ies
Description: 2x2 D3X-LP AT 2500LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

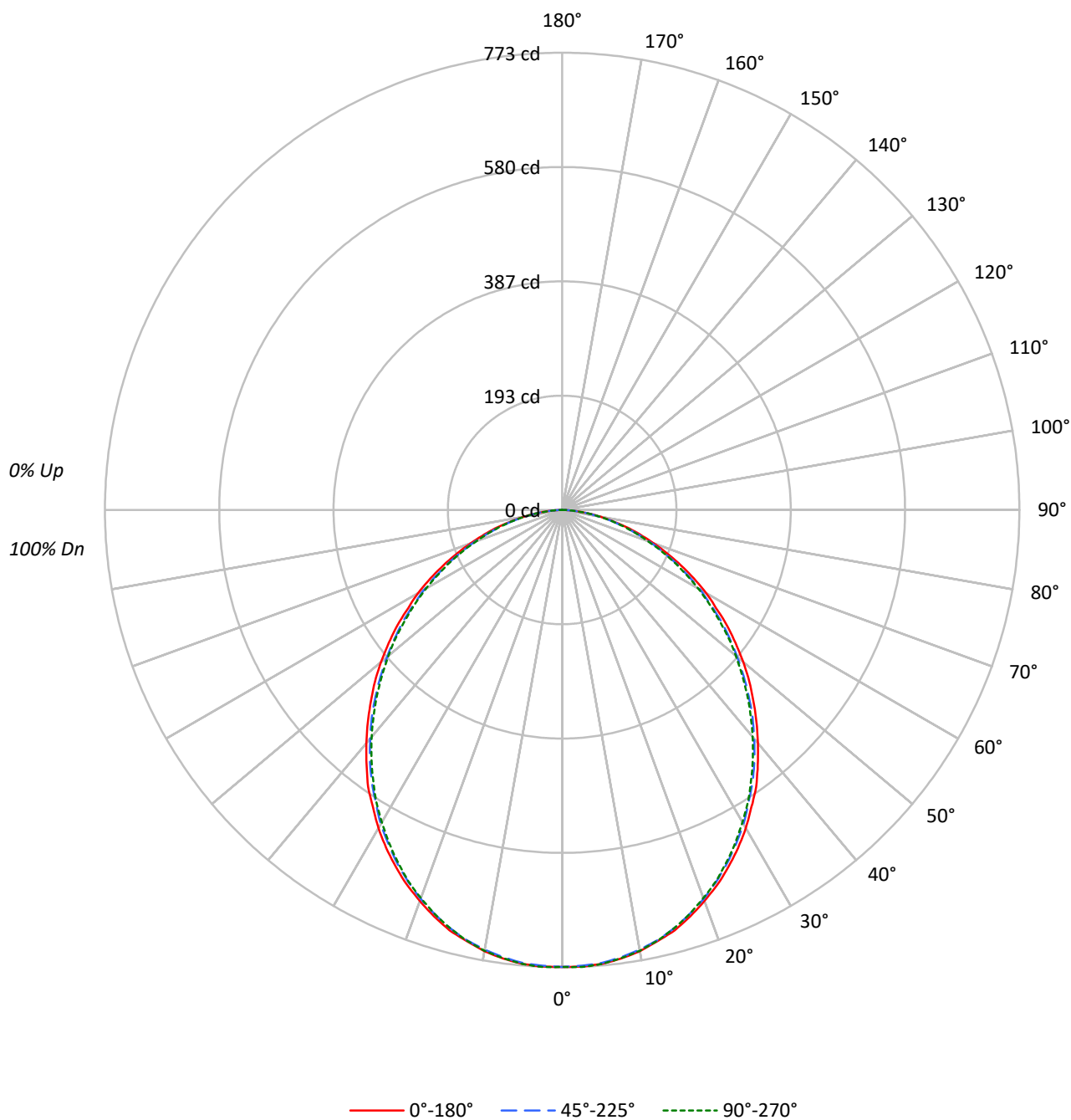
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1930.8 lumens
Efficiency: N/A
Efficacy: 97.0 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): 19.9
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: P#
CATALOG NUMBER: 22D3X-LP-25-L950.ies

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°	2079	2079	2079
5°	2081	2077	2081
10°	2069	2063	2067
15°	2050	2039	2039
20°	2014	2003	1999
25°	1977	1958	1951
30°	1930	1906	1894
35°	1878	1843	1830
40°	1808	1773	1760
45°	1740	1698	1684
50°	1672	1617	1604
55°	1596	1538	1516
60°	1516	1449	1429
65°	1411	1343	1328
70°	1290	1242	1211
75°	1176	1104	1112
80°	1013	955	965
85°	784	760	713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1740 cd/sqm

TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-25-L950.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.8
10°-20°	206.4	10.7
20°-30°	303.9	15.7
30°-40°	351.6	18.2
40°-50°	345.7	17.9
50°-60°	294.6	15.3
60°-70°	211.1	10.9
70°-80°	114.6	5.9
80°-90°	29.9	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°	583.3	30.2
0°-40°	934.9	48.4
0°-60°	1575.1	81.6
0°-90°	1930.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1930.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	770	769	769	769	770	73
15°	736	733	732	731	732	207
25°	666	663	660	658	657	306
35°	572	567	561	558	557	357
45°	457	454	446	442	442	353
55°	340	334	328	324	323	304
65°	222	217	211	209	209	220
75°	113	109	106	105	107	119
85°	25	25	25	24	23	31
90°	0	0	0	0	0	

TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-25-L950.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.6	772.6	772.6	772.6	772.6
2.5°	772.6	771.9	771.1	771.9	773.4
5°	770.3	768.8	768.8	768.8	770.3
7.5°	764.9	763.4	762.6	763.4	764.2
10°	757.3	755.7	754.9	755.7	756.5
12.5°	746.5	745.7	744.9	744.9	745.7
15°	735.7	732.6	731.9	731.1	731.9
17.5°	720.3	719.5	716.5	716.5	716.5
20°	703.4	701.8	699.5	698.0	698.0
22.5°	685.7	684.1	680.3	678.8	679.5
25°	665.7	662.6	659.5	658.0	657.2
27.5°	644.1	641.0	636.4	634.1	634.1
30°	621.0	618.7	613.3	610.3	609.5
32.5°	595.6	594.1	586.4	584.9	584.9
35°	571.8	567.2	561.0	557.9	557.2
37.5°	543.3	540.2	534.1	530.2	529.5
40°	514.8	511.0	504.8	501.8	501.0
42.5°	486.4	482.5	476.4	472.5	471.7
45°	457.1	454.0	446.3	442.5	442.5
47.5°	429.4	423.3	416.3	413.3	412.5
50°	399.4	394.0	386.3	383.2	383.2
52.5°	369.4	365.5	357.1	355.5	354.0
55°	340.1	334.0	327.8	324.0	323.2
57.5°	308.6	303.2	297.1	294.0	294.0
60°	281.7	274.7	269.3	265.5	265.5
62.5°	250.9	244.7	239.3	237.0	236.3
65°	221.6	217.0	210.9	208.6	208.6
67.5°	192.4	188.5	183.2	180.8	181.6
70°	163.9	161.6	157.8	154.7	153.9
72.5°	137.8	134.7	130.8	130.1	130.1
75°	113.1	109.3	106.2	104.7	107.0
77.5°	87.7	85.4	83.9	83.1	83.9
80°	65.4	62.3	61.6	62.3	62.3
82.5°	45.4	43.9	43.1	43.1	43.1
85°	25.4	25.4	24.6	23.9	23.1
87.5°	10.0	10.0	10.8	10.8	11.5
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	13.5	15.1	13.9	15.4	15.7	13.3	14.9	13.6	15.2	15.5
	3H	15.2	16.6	15.6	16.9	17.3	14.9	16.3	15.3	16.7	17.0
	4H	15.8	17.1	16.2	17.5	17.9	15.5	16.8	15.9	17.2	17.6
	6H	16.2	17.4	16.6	17.8	18.2	15.9	17.2	16.3	17.5	17.9
	8H	16.3	17.5	16.7	17.9	18.3	16.0	17.2	16.5	17.6	18.0
	12H	16.4	17.5	16.8	17.9	18.4	16.1	17.2	16.5	17.6	18.1
4H	2H	14.1	15.4	14.5	15.8	16.1	13.9	15.2	14.3	15.6	15.9
	3H	15.9	17.1	16.3	17.5	17.9	15.7	16.8	16.1	17.2	17.6
	4H	16.7	17.7	17.1	18.1	18.5	16.4	17.4	16.8	17.8	18.3
	6H	17.2	18.1	17.6	18.5	19.0	16.9	17.8	17.4	18.3	18.7
	8H	17.4	18.2	17.8	18.6	19.1	17.1	17.9	17.6	18.4	18.8
	12H	17.5	18.2	18.0	18.7	19.2	17.2	18.0	17.7	18.4	18.9
8H	4H	16.9	17.7	17.4	18.2	18.6	16.7	17.5	17.1	17.9	18.4
	6H	17.5	18.2	18.0	18.7	19.2	17.3	18.0	17.8	18.5	19.0
	8H	17.8	18.4	18.3	18.9	19.4	17.6	18.2	18.1	18.7	19.2
	12H	18.0	18.5	18.5	19.0	19.6	17.7	18.3	18.2	18.8	19.3
12H	4H	16.9	17.7	17.4	18.1	18.6	16.7	17.4	17.2	17.9	18.4
	6H	17.6	18.2	18.1	18.7	19.2	17.4	18.0	17.9	18.5	19.0
	8H	17.9	18.4	18.4	18.9	19.5	17.7	18.2	18.2	18.7	19.3

(END OF REPORT)