

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-40-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-40-L950.ies
Description: 2x2 D3X-LP AT 4000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

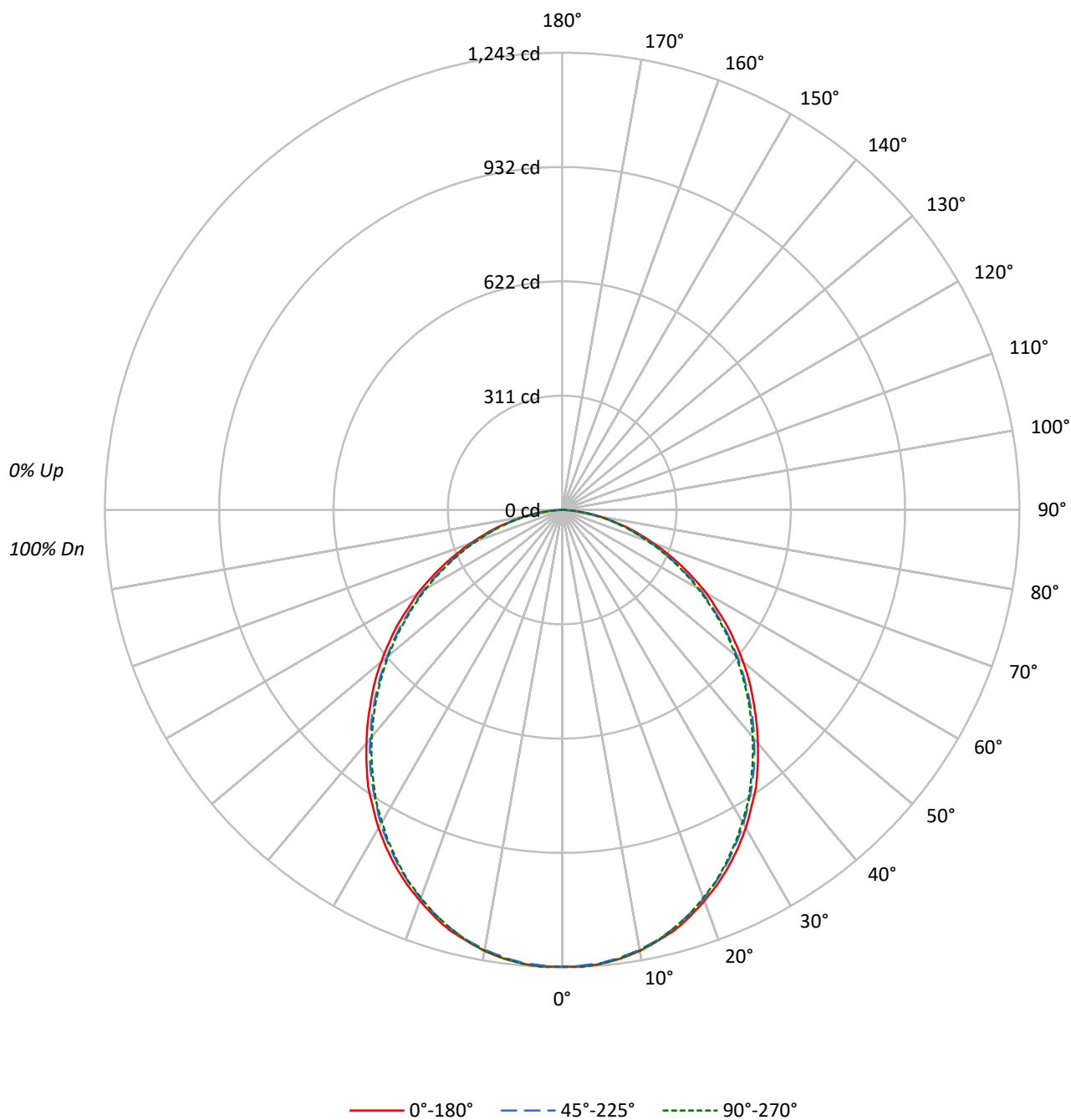
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3103.6 lumens
Efficiency: N/A
Efficacy: 95.2 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): 32.6
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°	3342	3342	3342
5°	3345	3338	3345
10°	3326	3316	3323
15°	3295	3277	3277
20°	3238	3220	3213
25°	3177	3148	3137
30°	3102	3063	3044
35°	3019	2962	2942
40°	2907	2851	2829
45°	2796	2731	2707
50°	2688	2600	2579
55°	2565	2472	2438
60°	2437	2330	2297
65°	2269	2158	2134
70°	2073	1995	1947
75°	1890	1775	1787
80°	1629	1534	1553
85°	1260	1223	1145

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2796 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.8
10°-20°	331.7	10.7
20°-30°	488.6	15.7
30°-40°	565.2	18.2
40°-50°	555.6	17.9
50°-60°	473.5	15.3
60°-70°	339.3	10.9
70°-80°	184.3	5.9
80°-90°	48.1	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°	937.6	30.2
0°-40°	1502.8	48.4
0°-60°	2531.9	81.6
0°-90°	3103.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3103.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1238	1236	1236	1236	1238	118
15°	1183	1178	1176	1175	1176	333
25°	1070	1065	1060	1058	1056	493
35°	919	912	902	897	896	573
45°	735	730	718	711	711	568
55°	547	537	527	521	520	488
65°	356	349	339	335	335	353
75°	182	176	171	168	172	192
85°	41	41	40	38	37	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.0	1242.0	1242.0	1242.0	1242.0
2.5°	1242.0	1240.7	1239.5	1240.7	1243.2
5°	1238.3	1235.8	1235.8	1235.8	1238.3
7.5°	1229.6	1227.1	1225.9	1227.1	1228.4
10°	1217.2	1214.8	1213.5	1214.8	1216.0
12.5°	1199.9	1198.7	1197.4	1197.4	1198.7
15°	1182.6	1177.7	1176.4	1175.2	1176.4
17.5°	1157.9	1156.6	1151.7	1151.7	1151.7
20°	1130.6	1128.2	1124.5	1122.0	1122.0
22.5°	1102.2	1099.7	1093.5	1091.1	1092.3
25°	1070.0	1065.1	1060.1	1057.7	1056.4
27.5°	1035.4	1030.4	1023.0	1019.3	1019.3
30°	998.3	994.6	985.9	981.0	979.7
32.5°	957.5	955.0	942.6	940.1	940.1
35°	919.1	911.7	901.8	896.8	895.6
37.5°	873.3	868.4	858.5	852.3	851.1
40°	827.6	821.4	811.5	806.5	805.3
42.5°	781.8	775.6	765.7	759.5	758.3
45°	734.8	729.8	717.5	711.3	711.3
47.5°	690.3	680.4	669.2	664.3	663.0
50°	642.0	633.4	621.0	616.0	616.0
52.5°	593.8	587.6	574.0	571.5	569.0
55°	546.8	536.9	527.0	520.8	519.6
57.5°	496.1	487.4	477.5	472.5	472.5
60°	452.8	441.6	433.0	426.8	426.8
62.5°	403.3	393.4	384.7	381.0	379.8
65°	356.3	348.8	338.9	335.2	335.2
67.5°	309.3	303.1	294.4	290.7	291.9
70°	263.5	259.8	253.6	248.6	247.4
72.5°	221.4	216.5	210.3	209.1	209.1
75°	181.8	175.7	170.7	168.2	171.9
77.5°	141.0	137.3	134.8	133.6	134.8
80°	105.1	100.2	99.0	100.2	100.2
82.5°	73.0	70.5	69.3	69.3	69.3
85°	40.8	40.8	39.6	38.3	37.1
87.5°	16.1	16.1	17.3	17.3	18.6
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	15.2	16.8	15.5	17.1	17.4	14.9	16.5	15.3	16.8	17.2
	3H	16.8	18.3	17.2	18.6	18.9	16.5	18.0	16.9	18.3	18.7
	4H	17.4	18.8	17.8	19.1	19.5	17.1	18.5	17.5	18.8	19.2
	6H	17.8	19.1	18.3	19.5	19.9	17.5	18.8	18.0	19.2	19.6
	8H	18.0	19.2	18.4	19.6	20.0	17.7	18.9	18.1	19.3	19.7
	12H	18.1	19.2	18.5	19.6	20.0	17.8	18.9	18.2	19.3	19.7
4H	2H	15.7	17.1	16.1	17.4	17.8	15.5	16.9	15.9	17.2	17.6
	3H	17.6	18.7	18.0	19.1	19.5	17.3	18.5	17.8	18.9	19.3
	4H	18.3	19.3	18.7	19.7	20.2	18.0	19.1	18.5	19.5	19.9
	6H	18.8	19.7	19.3	20.2	20.6	18.6	19.5	19.0	19.9	20.4
	8H	19.0	19.8	19.5	20.3	20.8	18.8	19.6	19.2	20.0	20.5
	12H	19.1	19.9	19.6	20.3	20.8	18.9	19.6	19.3	20.1	20.6
8H	4H	18.6	19.4	19.0	19.8	20.3	18.3	19.2	18.8	19.6	20.1
	6H	19.2	19.9	19.7	20.4	20.8	19.0	19.7	19.5	20.1	20.6
	8H	19.4	20.0	19.9	20.6	21.0	19.2	19.8	19.7	20.3	20.8
	12H	19.6	20.2	20.1	20.6	21.2	19.4	19.9	19.9	20.4	21.0
12H	4H	18.6	19.3	19.1	19.8	20.3	18.3	19.1	18.8	19.6	20.0
	6H	19.2	19.9	19.8	20.3	20.9	19.0	19.6	19.5	20.1	20.6
	8H	19.5	20.1	20.0	20.6	21.1	19.3	19.9	19.8	20.3	20.9

(END OF REPORT)