

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-50-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-50-L950.ies
Description: 2x2 D3X-LP AT 5000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

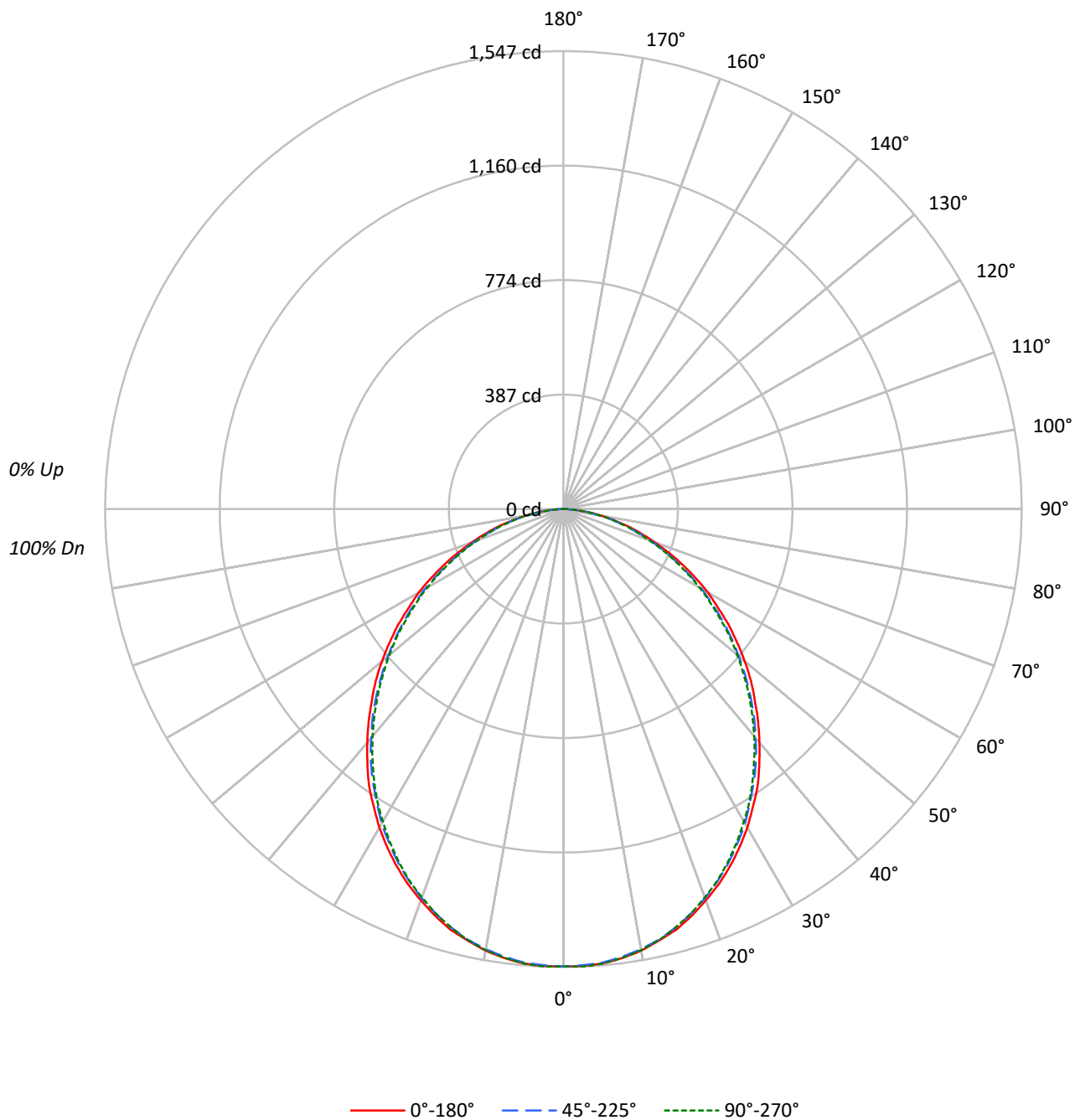
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3861.5 lumens
Efficiency: N/A
Efficacy: 92.2 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): 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

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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°	4158	4158	4158
5°	4162	4153	4162
10°	4138	4126	4134
15°	4099	4078	4078
20°	4029	4007	3998
25°	3953	3916	3903
30°	3860	3812	3788
35°	3757	3686	3661
40°	3617	3547	3520
45°	3479	3397	3368
50°	3344	3234	3209
55°	3192	3076	3033
60°	3032	2899	2858
65°	2823	2685	2656
70°	2579	2482	2422
75°	2353	2208	2224
80°	2027	1908	1932
85°	1568	1522	1426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3479 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.8
10°-20°	412.7	10.7
20°-30°	607.9	15.7
30°-40°	703.2	18.2
40°-50°	691.3	17.9
50°-60°	589.2	15.3
60°-70°	422.2	10.9
70°-80°	229.3	5.9
80°-90°	59.8	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°	1166.6	30.2
0°-40°	1869.8	48.4
0°-60°	3150.3	81.6
0°-90°	3861.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1541	1538	1538	1538	1541	146
15°	1471	1465	1464	1462	1464	414
25°	1331	1325	1319	1316	1314	613
35°	1144	1134	1122	1116	1114	713
45°	914	908	893	885	885	706
55°	680	668	656	648	646	607
65°	443	434	422	417	417	439
75°	226	219	212	209	214	239
85°	51	51	49	48	46	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1545.3	1545.3	1545.3	1545.3	1545.3
2.5°	1545.3	1543.7	1542.2	1543.7	1546.8
5°	1540.7	1537.6	1537.6	1537.6	1540.7
7.5°	1529.9	1526.8	1525.3	1526.8	1528.4
10°	1514.5	1511.4	1509.9	1511.4	1513.0
12.5°	1493.0	1491.4	1489.9	1489.9	1491.4
15°	1471.4	1465.2	1463.7	1462.2	1463.7
17.5°	1440.6	1439.1	1432.9	1432.9	1432.9
20°	1406.8	1403.7	1399.1	1396.0	1396.0
22.5°	1371.4	1368.3	1360.6	1357.5	1359.0
25°	1331.3	1325.2	1319.0	1316.0	1314.4
27.5°	1288.2	1282.1	1272.9	1268.2	1268.2
30°	1242.1	1237.5	1226.7	1220.5	1219.0
32.5°	1191.3	1188.2	1172.8	1169.7	1169.7
35°	1143.6	1134.3	1122.0	1115.9	1114.3
37.5°	1086.6	1080.5	1068.2	1060.5	1058.9
40°	1029.7	1022.0	1009.7	1003.5	1002.0
42.5°	972.7	965.0	952.7	945.0	943.5
45°	914.2	908.1	892.7	885.0	885.0
47.5°	858.8	846.5	832.7	826.5	825.0
50°	798.8	788.0	772.6	766.5	766.5
52.5°	738.8	731.1	714.2	711.1	708.0
55°	680.3	668.0	655.7	648.0	646.4
57.5°	617.2	606.4	594.1	587.9	587.9
60°	563.3	549.5	538.7	531.0	531.0
62.5°	501.8	489.4	478.7	474.1	472.5
65°	443.3	434.0	421.7	417.1	417.1
67.5°	384.8	377.1	366.3	361.7	363.2
70°	327.8	323.2	315.5	309.4	307.8
72.5°	275.5	269.3	261.7	260.1	260.1
75°	226.3	218.6	212.4	209.3	213.9
77.5°	175.5	170.8	167.8	166.2	167.8
80°	130.8	124.7	123.1	124.7	124.7
82.5°	90.8	87.7	86.2	86.2	86.2
85°	50.8	50.8	49.3	47.7	46.2
87.5°	20.0	20.0	21.5	21.5	23.1
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	15.9	17.5	16.3	17.8	18.2	15.7	17.3	16.1	17.6	17.9
	3H	17.6	19.0	18.0	19.3	19.7	17.3	18.7	17.7	19.1	19.4
	4H	18.2	19.5	18.6	19.9	20.3	17.9	19.2	18.3	19.6	20.0
	6H	18.6	19.9	19.0	20.2	20.6	18.3	19.6	18.7	19.9	20.3
	8H	18.7	19.9	19.2	20.3	20.7	18.4	19.6	18.9	20.0	20.4
	12H	18.8	20.0	19.2	20.3	20.8	18.5	19.7	18.9	20.0	20.5
4H	2H	16.5	17.8	16.9	18.2	18.5	16.3	17.6	16.7	18.0	18.4
	3H	18.3	19.5	18.8	19.9	20.3	18.1	19.2	18.5	19.6	20.0
	4H	19.1	20.1	19.5	20.5	20.9	18.8	19.8	19.2	20.2	20.7
	6H	19.6	20.5	20.1	20.9	21.4	19.3	20.2	19.8	20.7	21.1
	8H	19.8	20.6	20.2	21.0	21.5	19.5	20.3	20.0	20.8	21.3
	12H	19.9	20.6	20.4	21.1	21.6	19.6	20.4	20.1	20.8	21.3
8H	4H	19.3	20.1	19.8	20.6	21.0	19.1	19.9	19.5	20.4	20.8
	6H	19.9	20.6	20.4	21.1	21.6	19.7	20.4	20.2	20.9	21.4
	8H	20.2	20.8	20.7	21.3	21.8	20.0	20.6	20.5	21.1	21.6
	12H	20.4	20.9	20.9	21.4	22.0	20.1	20.7	20.6	21.2	21.7
12H	4H	19.3	20.1	19.8	20.6	21.0	19.1	19.8	19.6	20.3	20.8
	6H	20.0	20.6	20.5	21.1	21.6	19.8	20.4	20.3	20.9	21.4
	8H	20.3	20.8	20.8	21.3	21.9	20.1	20.6	20.6	21.1	21.7



(END OF REPORT)