

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-L850.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-L850.ies
Description: 2x2 D3X-LP AT 2500LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

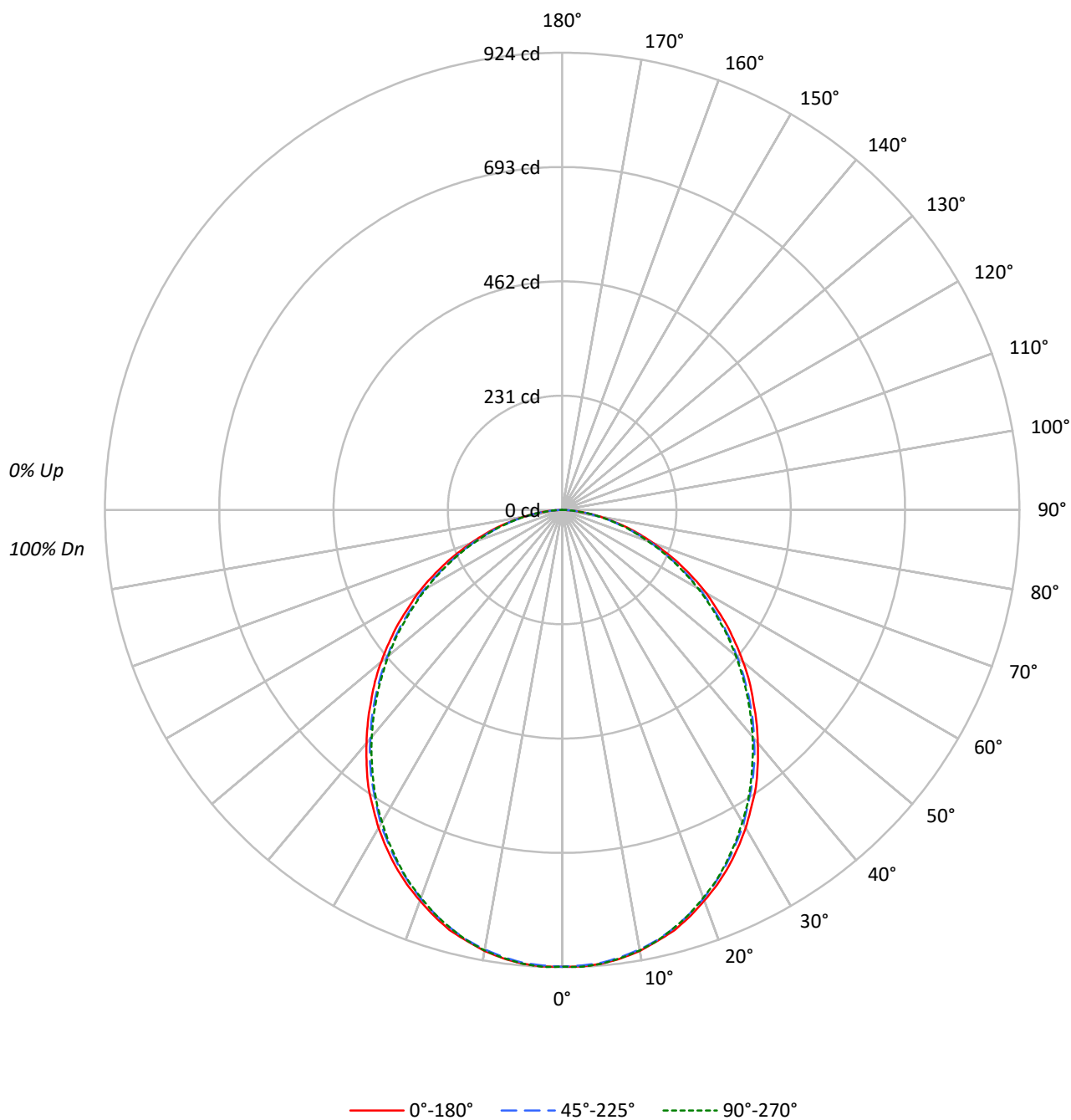
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2306.7 lumens
Efficiency: N/A
Efficacy: 115.9 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

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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	89		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	73
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	64	57	81	71	63	57		68	61	56		66	60	55		64	59	54
5	77	65	56	49	75	64	55	49		61	54	49		59	53	48		58	52	48
6	71	58	50	43	69	57	49	43		56	48	43		54	47	42		52	47	42
7	66	53	44	38	65	52	44	38		51	43	38		49	43	38		48	42	37
8	62	49	40	34	60	48	40	34		47	39	34		45	39	34		44	38	34
9	58	45	37	31	56	44	36	31		43	36	31		42	35	31		41	35	31
10	54	41	33	28	53	41	33	28		40	33	28		39	32	28		38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2484	2484	2484
5°	2486	2481	2486
10°	2472	2464	2470
15°	2449	2436	2436
20°	2406	2393	2388
25°	2361	2339	2331
30°	2305	2277	2263
35°	2244	2202	2187
40°	2161	2119	2102
45°	2078	2029	2012
50°	1998	1932	1917
55°	1907	1838	1811
60°	1811	1732	1707
65°	1686	1604	1587
70°	1541	1483	1447
75°	1405	1319	1329
80°	1210	1141	1155
85°	936	908	852

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2078 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	3.8
10°-20°	246.5	10.7
20°-30°	363.1	15.7
30°-40°	420.1	18.2
40°-50°	413.0	17.9
50°-60°	351.9	15.3
60°-70°	252.2	10.9
70°-80°	137.0	5.9
80°-90°	35.7	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°	696.8	30.2
0°-40°	1116.9	48.4
0°-60°	1881.8	81.6
0°-90°	2306.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2306.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	920	918	918	918	920	87
15°	879	875	874	873	874	247
25°	795	792	788	786	785	366
35°	683	678	670	667	666	426
45°	546	542	533	529	529	422
55°	406	399	392	387	386	363
65°	265	259	252	249	249	262
75°	135	131	127	125	128	143
85°	30	30	29	28	28	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.1	923.1	923.1	923.1	923.1
2.5°	923.1	922.1	921.2	922.1	924.0
5°	920.3	918.5	918.5	918.5	920.3
7.5°	913.9	912.0	911.1	912.0	912.9
10°	904.7	902.8	901.9	902.8	903.8
12.5°	891.8	890.9	890.0	890.0	890.9
15°	878.9	875.3	874.3	873.4	874.3
17.5°	860.5	859.6	855.9	855.9	855.9
20°	840.3	838.5	835.7	833.9	833.9
22.5°	819.2	817.3	812.7	810.9	811.8
25°	795.3	791.6	787.9	786.1	785.2
27.5°	769.5	765.8	760.3	757.6	757.6
30°	741.9	739.2	732.7	729.1	728.2
32.5°	711.6	709.8	700.6	698.7	698.7
35°	683.1	677.6	670.2	666.6	665.6
37.5°	649.1	645.4	638.1	633.5	632.5
40°	615.1	610.5	603.1	599.4	598.5
42.5°	581.1	576.5	569.1	564.5	563.6
45°	546.1	542.4	533.2	528.6	528.6
47.5°	513.0	505.7	497.4	493.7	492.8
50°	477.2	470.7	461.5	457.9	457.9
52.5°	441.3	436.7	426.6	424.8	422.9
55°	406.4	399.0	391.7	387.1	386.1
57.5°	368.7	362.2	354.9	351.2	351.2
60°	336.5	328.2	321.8	317.2	317.2
62.5°	299.7	292.4	285.9	283.2	282.3
65°	264.8	259.3	251.9	249.2	249.2
67.5°	229.8	225.2	218.8	216.1	217.0
70°	195.8	193.1	188.5	184.8	183.9
72.5°	164.6	160.9	156.3	155.4	155.4
75°	135.1	130.6	126.9	125.0	127.8
77.5°	104.8	102.1	100.2	99.3	100.2
80°	78.1	74.5	73.6	74.5	74.5
82.5°	54.2	52.4	51.5	51.5	51.5
85°	30.3	30.3	29.4	28.5	27.6
87.5°	12.0	12.0	12.9	12.9	13.8
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	14.1	15.7	14.5	16.0	16.4	13.9	15.5	14.3	15.8	16.1
	3H	15.8	17.2	16.2	17.6	17.9	15.5	16.9	15.9	17.3	17.6
	4H	16.4	17.7	16.8	18.1	18.5	16.1	17.4	16.5	17.8	18.2
	6H	16.8	18.1	17.2	18.4	18.8	16.5	17.8	16.9	18.1	18.5
	8H	16.9	18.1	17.4	18.5	18.9	16.6	17.8	17.1	18.2	18.6
	12H	17.0	18.2	17.4	18.5	19.0	16.7	17.9	17.1	18.2	18.7
4H	2H	14.7	16.0	15.1	16.4	16.8	14.5	15.8	14.9	16.2	16.6
	3H	16.5	17.7	17.0	18.1	18.5	16.3	17.4	16.7	17.8	18.2
	4H	17.3	18.3	17.7	18.7	19.1	17.0	18.0	17.4	18.4	18.9
	6H	17.8	18.7	18.3	19.1	19.6	17.6	18.4	18.0	18.9	19.3
	8H	18.0	18.8	18.4	19.3	19.7	17.7	18.6	18.2	19.0	19.5
	12H	18.1	18.8	18.6	19.3	19.8	17.8	18.6	18.3	19.1	19.5
8H	4H	17.5	18.3	18.0	18.8	19.3	17.3	18.1	17.8	18.6	19.0
	6H	18.2	18.8	18.7	19.3	19.8	17.9	18.6	18.4	19.1	19.6
	8H	18.4	19.0	18.9	19.5	20.0	18.2	18.8	18.7	19.3	19.8
	12H	18.6	19.1	19.1	19.6	20.2	18.3	18.9	18.9	19.4	19.9
12H	4H	17.5	18.3	18.0	18.8	19.2	17.3	18.1	17.8	18.5	19.0
	6H	18.2	18.8	18.7	19.3	19.8	18.0	18.6	18.5	19.1	19.6
	8H	18.5	19.0	19.0	19.5	20.1	18.3	18.8	18.8	19.3	19.9

(END OF REPORT)